

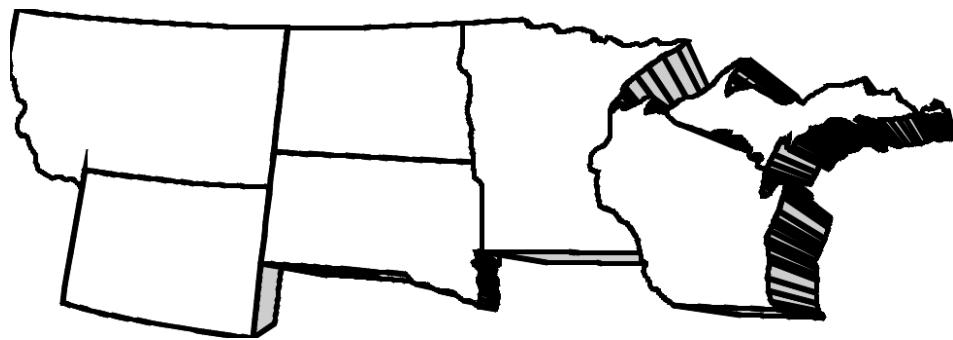


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Construction Equipment Ownership and Operating Expense Schedule

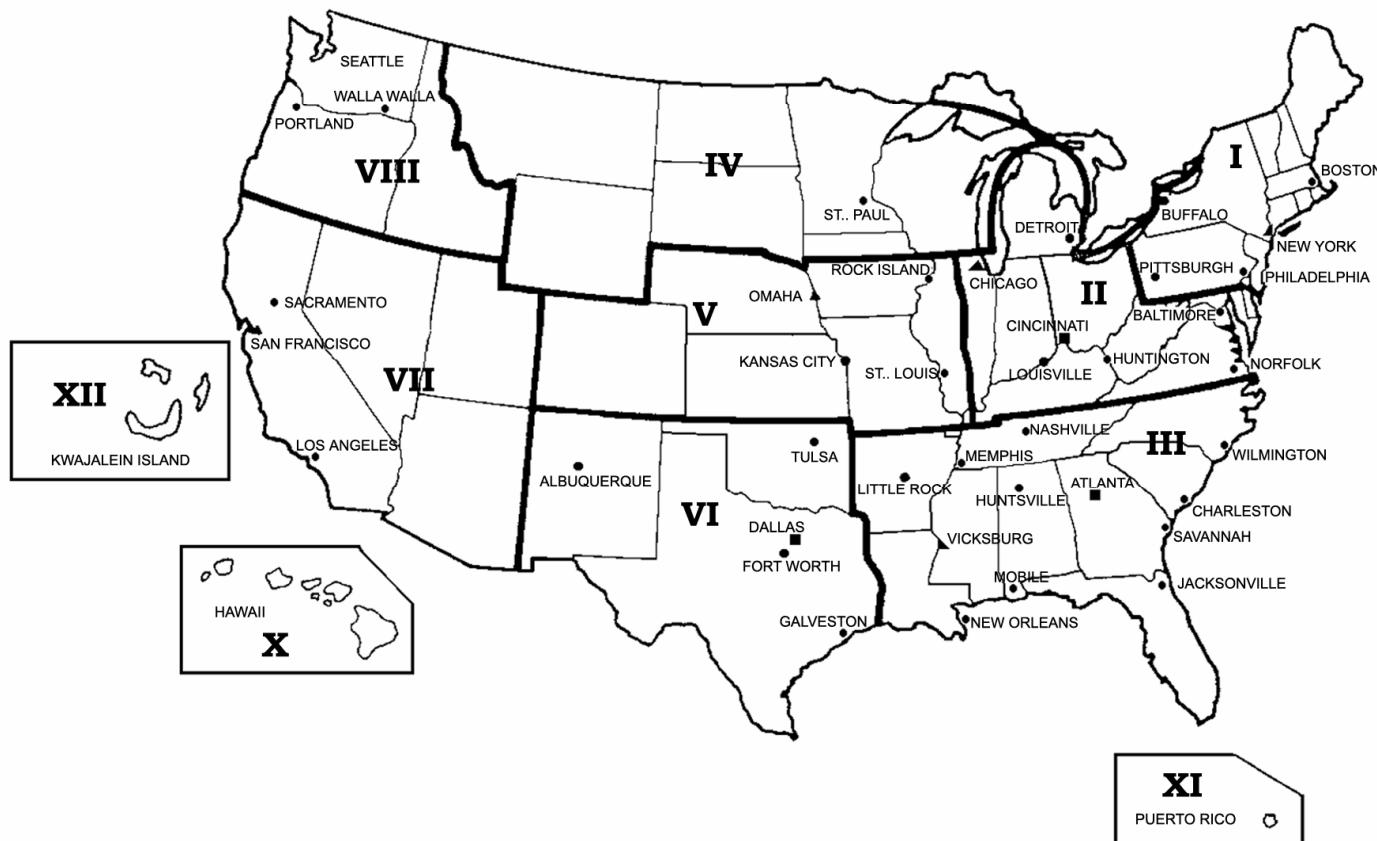
Region IV



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Regions for the Construction Equipment Ownership and Operating Expense Schedule



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DEPARTMENT OF THE ARMY
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No. 1110-1-8

30 November 2016

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP AND
OPERATING EXPENSE SCHEDULE

1. Purpose. This pamphlet is authorized by and established in accordance with Federal Acquisition Regulation (FAR) 31.105 and USACE Acquisition Instructions (UAI) SUBPART 31.105. This pamphlet establishes predetermined equipment ownership and operating expense rates for construction equipment. This pamphlet also establishes a method to calculate equipment ownership and operating expense rates for construction equipment when the predetermined rates are not considered appropriate. The overall intent of this pamphlet is to determine equipment costs that are fair and reasonable. Expense factors for calculating dredge plant and marine equipment costs are provided in chapter 4.
2. Applicability. This pamphlet applies to all USACE commands. It is applicable to all solicitations and contracts for construction expected to exceed the Simplified Acquisition Threshold of \$150,000 when actual cost data for both ownership and operating costs cannot be determined. The pamphlet is published in 12 volumes and a description of each volume's corresponding geographic region is provided in Appendix A.
3. Distribution Statement. Approved for public release. Distribution is unlimited.
4. References. See Appendix A.

FOR THE COMMANDER:

12 Appendices
(See Table of Contents)



PAUL E. OWEN
COL, BN
Chief of Staff

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Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP AND
OPERATING EXPENSE SCHEDULE

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CHAPTER 1

Introduction

1.1 Use. The use of this pamphlet is for rate determination on construction contracts, dredging contracts, and negotiated procurements and relates only to contractor-owned equipment. The overall intent of the pamphlet is to determine equipment costs that are fair and reasonable.

a. This pamphlet shall be used for determining hourly equipment rates that are contained in the independent government estimate.

b. The use of this pamphlet will be required by contractors for pricing contractor-owned equipment in negotiated procurements when:

(1) Cost or pricing data is not required, as defined in Federal Acquisition Regulation (FAR) Part 15.4, Contract Pricing.

(2) Cost or pricing data is required and the actual cost data to support either ownership or operating costs for equipment or equipment groups of similar model and series is not available.

(3) Cost or pricing data is required and available, but all or part of the data is determined not to be in accordance with the FAR cost principles.

1.2 Regions. This pamphlet is published in 12 volumes; each volume uses pricing and factors developed for a specific geographic region. The pamphlet's volume numbers correspond to its respective regions. A listing of the volumes, along with a description of the geographic region, is contained in appendix A.

1.3 Decision Flow Process. A flow chart (figure 1-1) is provided at the end of this chapter to help the user better understand the process for developing an hourly equipment rate. The flow chart shows the decision points that allow the user to decide whether to use the predetermined rate tables, or calculate the rate using the method shown in figure 2-1 or using CHECKRATE (also see paragraph 3.4).

1.4 How to Obtain Assistance. When assistance is needed in understanding the methodology for calculating equipment rates, contact the Chief, Cost Engineering Branch, Engineering and Construction Division, Walla Walla District, U.S. Army Corps of Engineers, (CENWW-EC-X), 509-527-7511, 509-527-7510, or visit the Web site at <http://www.nww.usace.army.mil/>.

1.5 How to Obtain CHECKRATE. A Microsoft Excel® workbook, named "CHECKRATE," enables the user to calculate equipment rates using the methodology

required by this pamphlet. The user must have Microsoft Excel® to run the application. The factors needed in the hourly cost calculations are located in the appendixes of this pamphlet. A copy of the workbook may be obtained by going to the Cost Engineering webpage on the Walla Walla District website, <http://www.nww.usace.army.mil/>, selecting “Missions,” and selecting “Cost Engineering.” Under “Product Support,” click on the plus sign next to “Construction Equipment Rates (EP 1110-1-8) and CHECKRATE,” then select the “Download CHECKRATE” link.

1.6 How to Obtain this Publication. Volumes 1-12 of this Engineer Pamphlet are available in portable document format (PDF) and can be viewed or downloaded at the official HQUSACE documents webpage at <http://www.usace.army.mil/> by selecting “Library” and selecting “Publications.” Select “USACE Publications” in the title bar. A dropdown menu will appear. From the dropdown menu, select “Engineer Pamphlets.” Additional instructions are located in appendix A.

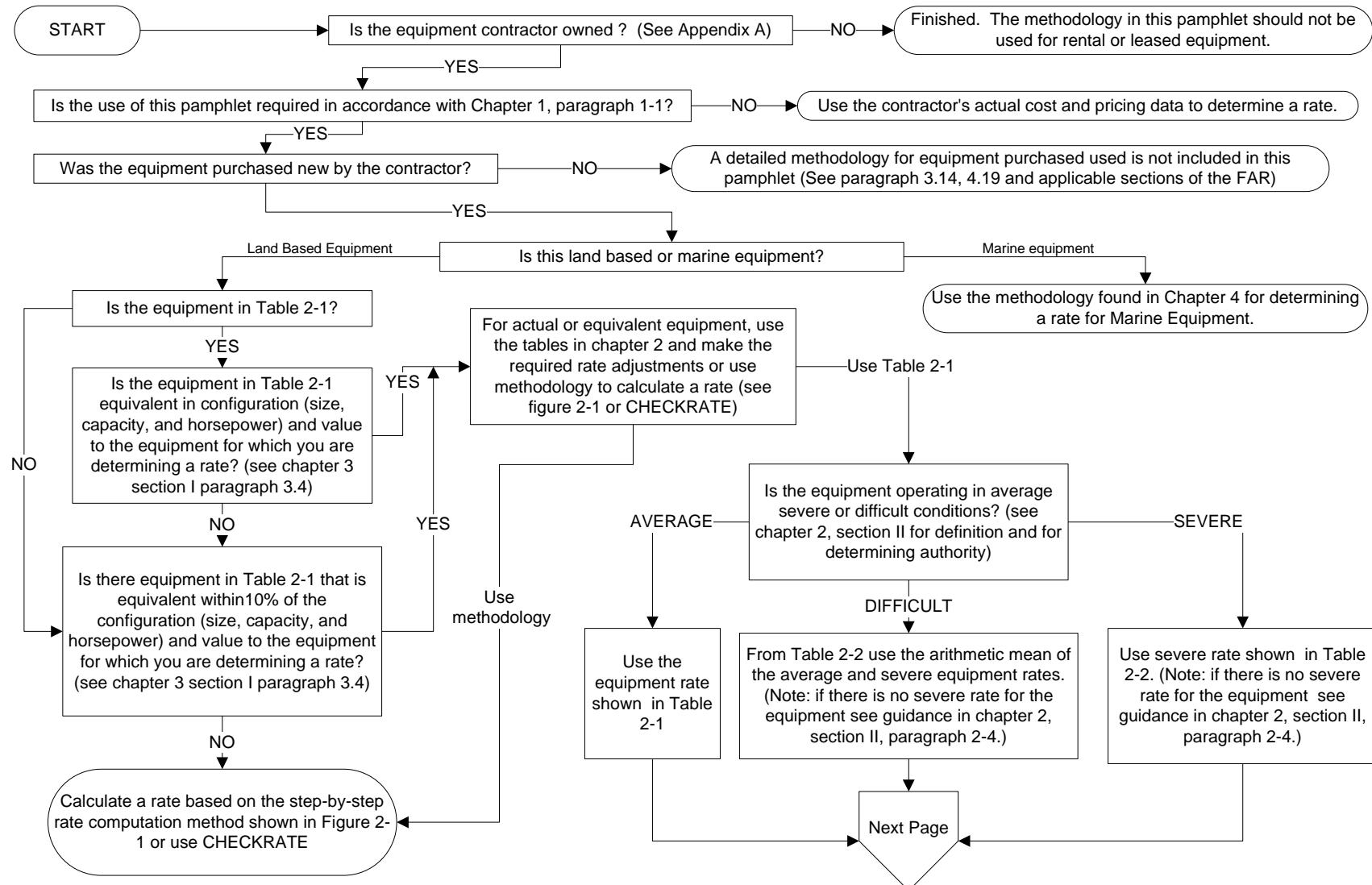


Figure 1-1. Methodology for Developing an Hourly Ownership and Operating Rate for Construction Equipment

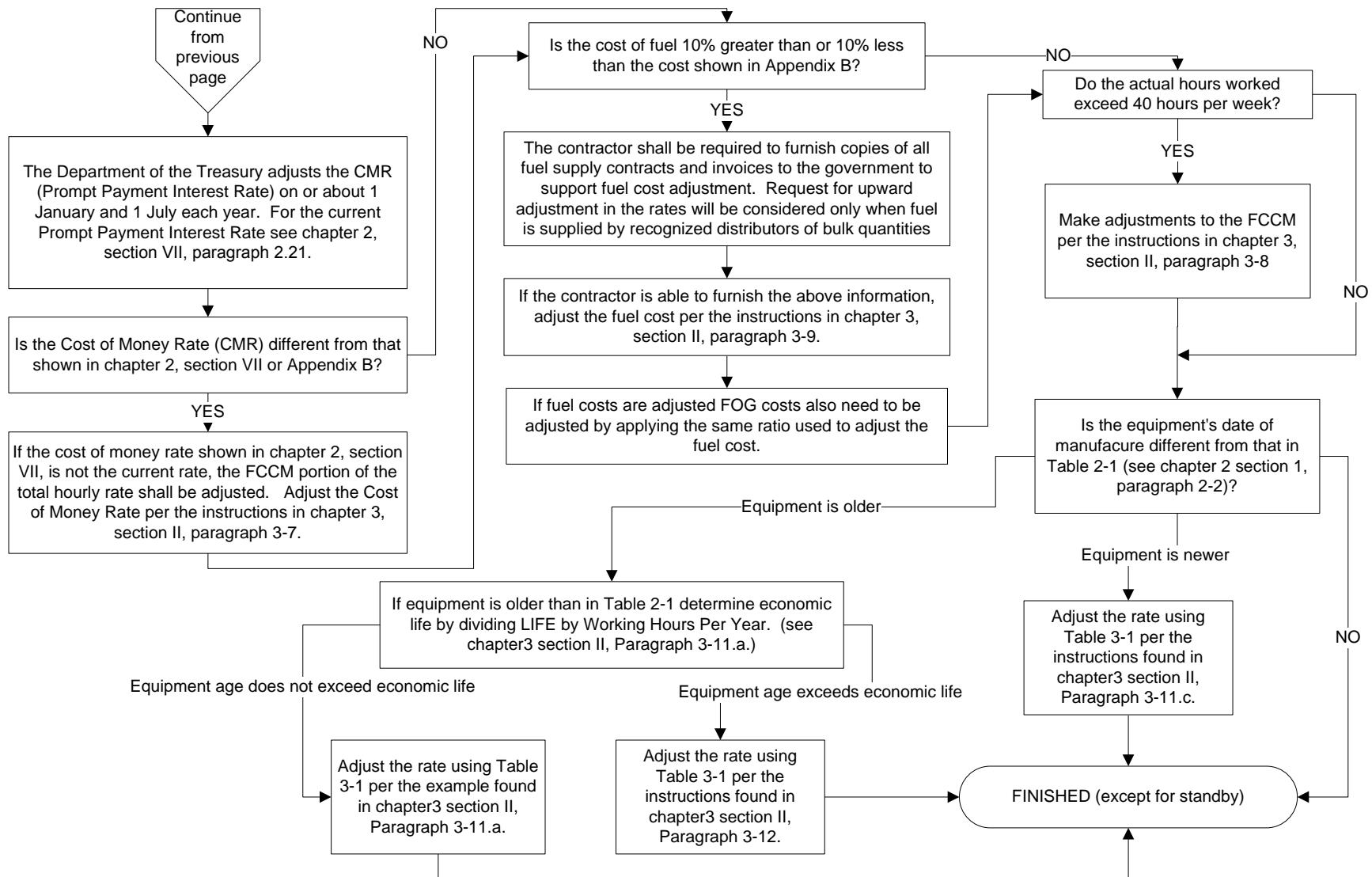


Figure 1-1. Methodology for Developing an Hourly Ownership and Operating Rate for Construction Equipment

CHAPTER 2

Methodology for Construction Equipment

SECTION I. GENERAL

2.1 Contents. This chapter provides the methodology used to compute the total hourly ownership and operating rates for construction equipment and marine equipment (except dredging plant). This detailed methodology includes the formulas and factors used to develop both total hourly rates and hourly standby rates. If the equipment is determined to be older than its estimated economic life (overage), or was purchased used, refer to chapter 3.

2.2 Basis for Equipment Rates. The hourly rates shown in table 2-1 reflect catalog list prices of equipment manufactured in 2013 (3 years old). List prices for equipment manufactured in years other than 2013 have been adjusted to a 2013 price level using economic indices. Ownership and operating expenses are computed using area factors, found in appendix B, which are specific to each region and volume. This hourly rate methodology assumes that equipment furnished to the job is in sound, workable condition. Furthermore, the methodology applies only to equipment that prime contractors or subcontractors either own or control. These hourly rates and cost factors do not represent rental charges for those in the business of renting equipment.

2.3 Total Hourly Rate. Hourly rates for average conditions are shown in table 2-1 and are computed based on a 40-hour (hr) workweek. The hourly rate is the sum of ownership and operating costs. Table 2-2 contains all individual rate elements for both average and severe conditions. An example of the methodology used to compute the total hourly rate is shown in figure 2-1. For standby calculation, see section IX.

- a. Ownership Cost Elements. The ownership portion of the rate consists of an allowance for depreciation (DEPR) and facilities capital cost of money (FCCM).
- b. Operating Cost Elements. Operating costs include allowances for the following:
 - (1) Fuel.
 - (2) Filters, oil, and grease (FOG) (includes servicing).
 - (3) Repairs (includes maintenance and major overhauls).
 - (4) Tire wear (replacement).
 - (5) Tire repair.

c. Exclusions to Hourly Rates. Total hourly rates for owning and operating equipment do not include allowances for the following (it should also be noted that replacement cost is not included in the rates, as it is not an allowable item of cost per FAR 31.105(d)(2)(i)):

- (1) Operating labor.
- (2) Mobilization and demobilization.
- (3) Field office overhead expenses.
- (4) Home office or general and administrative (G&A) overhead expenses.
- (5) Investment tax credit.
- (6) Contingency allowance.
- (7) Profit.
- (8) Parts and labor escalation.

d. Other Ownership Elements. The following elements of cost are not included in the total hourly rates. These costs are allowable and would normally be included in the contractor's field office or home office overhead rate calculation.

- (1) License fees, property taxes, storage, and insurance costs are considered indirect costs and are not included in the total hourly rates.
- (2) Jobsite security, inspection fees, recordkeeping, mechanic training, and highway permits are also not included in the total hourly rates.

SECTION II. OPERATING CONDITIONS

2.4 Average, Difficult, or Severe Conditions. Operating conditions may be average, difficult, or severe. Hourly rates for both average and severe operating conditions are determined in accordance with appendix C. The rate for the difficult condition is the arithmetic mean of the average and the severe rates. When only the average rate is shown in table 2-2, the rate applies for all operating conditions or as determined by the contracting officer. Average condition rates are included in both tables 2-1 and 2-2. Only table 2-2 contains the severe condition rates.

2.5 Determination of Condition. For contract modifications, the condition will be average until the contracting officer determines the equipment operating condition to be used. This determination is based on contract specifications, site conditions, supporting evidence, and guidance in appendix C. Evaluation of operating conditions for equipment

not listed in appendix C will be consistent with examples shown in appendix C. The operating condition of the equipment relates to the average and severe factors, as detailed in appendix D. For standby, the average condition shall be used, unless a separate determination is made by the contracting officer.

SECTION III. EQUIPMENT SELECTION

2.6 General. Equipment shown in table 2-1 is representative of equipment that is used in general construction. Note that some equipment may require additional attachments or accessories. Each unit of equipment is grouped into a main group called a category (CAT) and a subgroup called a subcategory (SUB). This type of grouping is displayed in table 2-1 and appendix D. Also, an identification number (ID No.) is assigned to each unit of equipment. The ID No. consists of three parts. The first three characters are the CAT, the second two characters are the manufacturer's code, and the last three characters are the sequence number.

2.7 Truck Selection. Because of the large number of possible combinations of highway truck chassis and bodies, both are listed separately. For estimating purposes, use the gross vehicle weight (GVW) rating of the truck chassis to make a selection with the following conditions:

- a. The combined weight of the truck chassis, truck body, and payload must not exceed the GVW rating shown for the truck chassis.
- b. The gross combined weight (GCW) of the truck, trailer, and payload must not exceed the GCW rating shown.

2.8 Crawler Tractor Selection. A wide range of combinations of ripper and various blade options are available for each crawler tractor. For ease of use, all tractors include a universal blade attachment. Other blade and ripper attachments are shown separately and should be substituted for the universal blade to match actual equipment configuration. Only the hourly expense for attachments required to perform the work shall be allowed.

2.9 Equipment Accessories. Equipment accessories included on the major pieces of equipment in table 2-1 are listed in appendix J.

SECTION IV. EQUIPMENT VALUE

2.10 List Price and Accessories. The total list price includes those accessories normally purchased by the contractor plus required safety features.

2.11 Discount Code (DC). A 7.5-percent discount is used for all equipment except highway trucks that are discounted at 15 percent. The total discounted price is derived

by subtracting the appropriate discount from the total list price. The identification of the discount is shown in appendix D under column heading DC. Two codes are used to identify the discount, B equals the basic discount of 7.5 percent and S equals the special discount of 15 percent.

2.12 Sales or Import Tax. Total state sales tax (which includes local taxes) or import tax is computed as a percentage of the discounted price. The average tax for the region is shown in appendix B.

2.13 Freight. Estimated allowances for freight are provided in appendix B. This allowance includes preparation and delivery. Multiply the shipping weight based on hundredweight (cwt) by the freight rate to determine freight charges.

2.14 Total Equipment Value (TEV). Freight is added to the total discounted price (which includes sales tax) to arrive at the TEV. The estimated TEV is indicated in table 2-1 under the column heading VALUE.

SECTION V. LIFE

2.15 Economic Life (LIFE). The expected economic life of the equipment will vary based on the type of equipment and the condition of use. It is established from manufacturers' or equipment associations' recommendations. The expected economic life in hours is given in appendix D, under the column heading LIFE, for both average and severe conditions.

2.16 Working Hours Per Year (WHPY). Annual average operating hours have been established for equipment working within the region covered by this pamphlet. The number of WHPY as shown in appendix B is equivalent to one year's use for a single shift operation. Average annual hours of use per year are determined by reducing the maximum available hours per year (40 hours per week, 52 weeks per year) to allow for lost working days due to the following factors:

- a. Weather.
- b. Employee holidays.
- c. Equipment maintenance and repairs.
- d. Mobilization and demobilization.
- e. Miscellaneous downtime.

SECTION VI. SALVAGE VALUE

2.17 Salvage Value (SLV). The salvage value for equipment is based on advertisements of used equipment for sale, as displayed in current engineering and construction magazines, manufacturer's recommendations, and the Green Guide Volumes I and II, Handbook of New and Used Construction Equipment Values, Equipment Watch.

2.18 Salvage Value Percentage. The salvage value percentage used for each type of equipment is listed in appendix D under the heading SLV as a percentage of the equipment value. It is equal for both average and severe conditions.

SECTION VII. OWNERSHIP COST

2.19 Ownership Elements. The ownership portion of the rate consists of allowances for depreciation (DEPR) and facilities capital cost of money (FCCM). These two cost elements are computed based on the TEV. Other ownership elements may be allowed (see paragraph 2.3d). Total ownership rate per hour is expressed by formula, as follows:

$$\text{Ownership Rate/hr} = \text{DEPR/hr} + \text{FCCM/hr}$$

2.20 Depreciation. The straight-line method is used to compute depreciation.

a. For rubber-tired equipment, the tire cost index (TCI) must first be calculated to complete the depreciation formula.

b. Hourly depreciation is calculated by dividing the "depreciable" value (TEV less estimated salvage and tire cost) by the expected economic life of the unit of equipment in hours. Expressed by formula, depreciation cost equals the following:

$$\text{DEPR/hr} = \frac{[(\text{TEV})(1 - \text{SLV})] - [(\text{TCI})(\text{Tire Cost})]}{\text{LIFE}}$$

Where:

(1) TEV is the total equipment value found in table 2-1.

(2) SLV is the salvage value from appendix D.

(3) TCI is the tire cost index, which is determined by dividing the year of manufacture tire index by the present-year tire index. For table 2-1, the present year is 2016 and the year of manufacture is 2013 (3 years old). These indices are listed as part of appendix E (see Economic Key (EK) 100, All Tires and Tubes).

(4) Tire cost is the total tire and/or conveyor belt cost. The total tire cost is the sum of the cost of all front, drive, and trailing tires. The tire cost for rubber-tired equipment is based on tire values at the time the equipment was manufactured.

(5) The LIFE is the economic life, which is based on the number of operating hours throughout the economic life of the equipment (see paragraph 2.15). Hours for LIFE are provided in appendix D.

2.21 Facilities Capital Cost of Money (FCCM). The FCCM, as defined in FAR 31.205-10, is included in the total hourly rates. This cost is computed by multiplying a discounted cost of money rate (CMR) by the average value of equipment and prorating the result over the annual operating hours. The July 2016 CMR [1.875 percent as shown in appendix I, determined by the Secretary of the Treasury pursuant to Public Law 92-41 (85 Stat. 97)], is discounted by 25 percent to avoid duplication when applying estimated markups for overhead and profit. The discounted CMR is then 1.50 percent. The Department of the Treasury adjusts the CMR on or about 1 January and 1 July each year; these revisions are printed in the Federal Register, or can be found at <https://www.fiscal.treasury.gov/fsservices/gov/pmt/promptPayment/rates.htm>. The CMR should be adjusted to the actual period that the equipment is used. Expressed by formula, FCCM cost equals the following:

$$\text{FCCM/hr} = \frac{(\text{TEV})(\text{AVF})(\text{discounted CMR})}{(\text{WHPY})}$$

Where:

- a. TEV is the total equipment value found in table 2-1.
- b. Average Value Factor (AVF) = $\frac{[(N - 1)(1 + SLV)] + 2}{2N}$.
- c. Number of Years (N) in Depreciation Period = LIFE/WHPY.
- d. LIFE is the economic life, which is based on the number of operating hours throughout the economic life of the equipment (see paragraph 2.15). Hours for LIFE are provided in appendix D.
- e. Discounted CMR = 1.875% (Jul – Dec 2016 rate) / 1.25 = 1.50%.
- f. WHPY = Working hours Per Year found in appendix B.

SECTION VIII. OPERATING COST

2.22 Operating Cost Elements. The total operating cost is the sum of the following five elements: Fuel, FOG, repairs, tire wear, and tire repair.

2.23 Fuel Cost. Fuel costs are computed for each gas, diesel, or electric engine. When the unit of equipment has two engines, as in the case of a truck crane, this methodology treats each engine separately for fuel costs. The hourly fuel cost for each unit of equipment is shown under the column heading FUEL in tables 2-1 and 2-2. When the unit of equipment has no engine, no fuel cost will be shown. Hourly fuel costs are calculated for each engine, as expressed in the following formula:

$$\text{Fuel Cost/hr} = \text{Horsepower (hp)} \times \text{Fuel Cost/Gallon (gal)} \times \text{Fuel Factor (gal/bhp-hr)}$$

a. Horsepower is the engines rated horsepower. All horsepower ratings for engine-driven equipment are listed with the equipment description in table 2-1.

b. Fuel Cost/Gallon is based on values shown in appendix B. See chapter 3 for fuel cost adjustments.

c. Fuel Factor – Gas or Diesel Fuel. The fuel factor in gallons per brake horsepower-hour (bhp-hr) is listed in appendix D for both average and severe conditions. Fuel factors are also listed for both the engine powering the main equipment (prime engine) and the engine providing power to the carrier vehicle. For severe conditions, the fuel consumption rate is 30 percent greater than the average condition rate. Gas or diesel fuel factors are computed by using the following formula:

$$\text{Fuel Factor (Gal/bhp - hr)} = \frac{\text{Horsepower Factor (HPF)} \times \text{lbs Fuel per bhp - hr}}{\text{lbs of Fuel per Gal}}$$

Where:

(1) HPF is the horsepower factor used in the fuel and electricity consumption formulas and represents an average percent of full-rated horsepower being used by the engine. The fuel consumption factors, which are shown in appendix D under column headings Equipment Fuel Factors and Carrier Fuel Factors, are computed based on the HPF shown under these column headings. This HPF is an estimate of the engine load under average working conditions. It is necessary to modify the rated horsepower as engines and motors in actual production do not work at their full-rated horsepower at all times. Periods spent at idle, travel in reverse, traveling empty, close maneuvering at part throttle, and operating downhill are examples of conditions that reduce the HPF. Professional judgment regarding cycle time and equipment loading is applied to determine this average HPF. Normal field application can also vary according to: Operator efficiency, type of material, type of work cycle, and overall jobsite efficiency. This pamphlet provides an estimated average HPF, not a specific factor.

(2) Pounds (lbs) fuel per bhp-hr is an average based on a variety of engine applications from manufacturer engine data. The following represent an average of the

normal application of equipment and are indicative of engine fuel consumption industrywide. Pounds fuel (consumed) per bhp-hr is based on the following averages and is used consistently throughout this pamphlet:

$$\begin{array}{ll} \text{Gasoline} & = 0.55 \text{ lbs per bhp-hr} \\ \text{Diesel} & = 0.34 \text{ lbs per bhp-hr} \end{array}$$

(3) Pounds fuel per gallon is the factor that determines the weight of the fuel consumed. The following are used as constants in this pamphlet:

$$\begin{array}{ll} \text{Gasoline} & = 6 \text{ lbs per gal} \\ \text{Diesel} & = 7 \text{ lbs per gal} \end{array}$$

d. Fuel Factor – Electricity. Assuming that an electric motor uses 1 kilowatt (kW) per horsepower (considering all inefficiencies), and using the same HPF for gas or diesel fuel consumption, the electricity consumption is computed by the following formula:

$$\text{Fuel Factor (kW/hr)} = \text{HPF} \times 1 \text{ kW per electric hp - hr}$$

e. Fuel and Electricity Cost. The cost per gallon for gasoline and diesel fuel used to compute the hourly fuel cost is shown in appendix B. The hourly fuel cost for all gasoline-powered equipment, diesel-powered highway trucks, and truck crane carriers includes an allowance for Federal and state road taxes, sales taxes, and rental for fuel storage tanks and pumps. Cost per kilowatt-hour used to compute electricity cost is also shown in appendix B.

2.24 Filters, Oil, and Grease (FOG) Cost. The FOG cost is computed as a percentage of the hourly fuel costs.

a. The FOG contains items of cost for routine servicing of the equipment, which includes the following:

- (1) Base wages for servicing labor.
- (2) Fringe benefits and labor burden costs for servicing.
- (3) Service truck, tools, and fuel truck allowance.
- (4) Shop allowance, when shop servicing is required.
- (5) Other equipment costs for servicing.
- (6) FOG material allowance.

(7) Taxes and shipping for FOG supplies.

(8) Handling and disposal of hazardous materials and oil.

b. The hourly FOG cost is calculated for each engine using the following formula:

$$\text{FOG Cost/hr} = \text{FOG Factor} \times \text{Fuel Cost/hr} \times \text{LAF}$$

Where:

(1) The FOG Factor is the percent allowance expressed as a decimal factor under each fuel type heading: E (electricity), G (gas), and D (diesel). See appendix D.

(2) Fuel cost/hr is a calculated value shown under the column heading FUEL in tables 2-1 and 2-2.

(3) The labor adjustment factor (LAF) is a decimal factor to account for regional variations in labor and parts costs. This factor is provided in appendix B.

c. The FOG percentage allowance includes the cost for servicing. For equipment that is normally serviced by an oiler assigned to the unit of equipment, the FOG percentage is reduced. This reduction applies to the following equipment: Cranes, draglines, hydraulic excavators, and shovels (except equipment under category numbers C75, C80.01, C85.11, C85.12, C85.21, C90.01, H25.11, H25.12, H30.01, H30.02, and M10.32).

d. When a unit of equipment has no engine (therefore no fuel costs calculated) and the equipment requires some type of fuel (i.e., propane, kerosene), an alternative hourly fuel and FOG allowance may be used in lieu of the regularly calculated fuel and FOG hourly costs. A FOG allowance may also be added when the equipment has no engine and has parts that require FOG. The alternative fuel allowance is added to the alternative FOG allowance for a total alternative fuel and FOG cost. (See figure 2-1, 5.c.)

2.25 Repair Cost.

a. The repair cost accounts for equipment repairs, maintenance, and major overhauls (including undercarriage wear, ground engaging tools, and designated attachments) performed in either the field or the shop. Where tire cost is the cost of the tires when the equipment was manufactured, use the same TCI and tire cost as shown in the depreciation calculation (see paragraph 2.20). The estimated hourly rate for repairs is computed as follows:

$$\text{Repair Cost/hr} = \frac{[(\text{TEV}) - [(\text{TCI})(\text{Tire Cost})]] \times \text{RF}}{\text{LIFE}}$$

Where:

(1) TEV is the total equipment value found in table 2-1.

(2) TCI is the tire cost index, which is determined by dividing the manufacture-year tire index by the present-year tire index. For table 2-1, the present year is 2016 and the manufacture year is 2013 (3 years old). These indices are listed as part of appendix E (see Economic Key (EK) 100, All Tires and Tubes).

(3) Tire cost is the total tire and/or conveyor belt cost. The total tire cost is the sum of the cost of all front, drive, and trailing tires. The tire cost for rubber-tired equipment is based on tire values at the time the equipment was manufactured.

(4) Repair factor (RF) is calculated as follows:

$$\text{RF} = \text{RCF} \times \text{EAF} \times \text{LAF}$$

Where:

(5) The repair cost factor (RCF) is shown in appendix D. This factor varies depending on the operating condition of the equipment (average or severe).

(6) The economic adjustment factor (EAF) is used to adjust the RCF to current price levels. The EAF is equal to the economic index for the present year divided by the economic index for the year of manufacture. Indices listed in appendix E are used to develop the EAF. Economic indices are determined as follows:

(a) Economic Index for the Present Year. This is the economic index for the present year (2016 for table 2-1 calculations). Obtain the economic index from appendix E. The index is located in the column with the present year and the row with the type of equipment in question. When the column for the present year has not been included, the index can be estimated using a straight-line projection.

(b) Economic Index for the Year of Manufacture. This is the economic index for the year the equipment was manufactured (2013 for table 2-1 calculations). Obtain the economic index from appendix E. The index is located in the column with the year of manufacture and the row with the type of equipment in question. When the actual age of the equipment is beyond the last year of its economic life, the equipment is considered overage. Economic life is determined by dividing hours of LIFE (from appendix D) by WHPY (appendix B).

(7) The LIFE is the economic life, which is based on the number of operating hours throughout the economic life of the equipment (see paragraph 2.15). Hours for LIFE are provided in appendix D.

b. Items Included in the Repair Cost Factor. The estimated percentage allowances for the RCF are shown in appendix D under the column heading RCF and are expressed as decimal factors. These RCFs (for both the average and severe conditions) compensate for the following cost elements:

(1) Mechanic's labor, which includes base wages, fringe benefits, supervision, travel, and all other costs for labor associated with craft workers engaged in the direct repair of equipment, either in the field or the shop.

(2) Repair parts and supplies, which include those items that are required for all repairs and major overhauls, complete with applicable sales taxes and freight charges.

(3) Service trucks and other equipment used during field or shop repair and maintenance work, including tools.

(4) Supporting repair facilities, which include field and main repair shops, complete with parts and supplies inventory, and shop overhead.

2.26 Tire Wear Cost.

a. Tires included on rubber-tired equipment are generally the type and ply rating recommended as standard tires by the equipment manufacturer. Tire costs include both tire wear (replacement), and tire repair, as individual elements of cost. Conveyor belt wear is also included under this cost element. The belt wear is treated like tire wear. The wear factors are listed in the front tire wear factor column in appendix D. Belt life and cost are listed in appendix F.

b. The formula for calculating tire wear applies to each tire position: Front tire (FT), drive tire (DT), and trailing tire (TT). However, all tires performing the drive function are considered drive tires and are listed in the drive position. The total hourly tire wear cost for each unit of equipment is the sum of the hourly cost for each position. The total hourly tire wear cost equals the current cost of new tires, plus the cost of one recapping, divided by the expected life of the new tires, plus the life of the recapped tires. This hourly allowance for determining tire wear cost is expressed in the following formula:

$$\text{Tire Wear Cost/hr} = \frac{\text{Tire Cost Factor} \times \text{Current Tire Cost}}{\text{Tire Life Factor} \times \text{Tire Wear Factor} \times \text{Maximum Tire Life}}$$

Where:

(1) Tire Cost Factor is estimated at 1.5, which represents the purchase of the original tire, plus one recap. It has been estimated that a recap costs approximately 50 percent of the new tire cost.

(2) Current Tire Cost is the estimated cost that applies to all tires on the equipment in that position. For example, four new drive tires valued at \$500 each would result in an amount of \$2,000 for total drive tire cost. The size and cost of each tire used in the pamphlet are listed for information in appendix F.

(3) Tire Life Factor is estimated at 1.8, which represents the original tire life, plus one recap. It has been estimated that a recap lasts approximately 80 percent of the life of a new tire.

(4) Tire Wear Factor is based on the position of the tire, type of equipment, and condition of use. Tire wear factors have been developed and are listed in appendix D. These factors will provide a percentage reduction to the maximum tire life. Appendix G contains the methodology used to develop these factors and a computation example for a rear dump wagon.

(5) Maximum Tire Life expressed in hours is shown for various new tire types in appendix F. The tire life is estimated from information provided by Goodyear Tire and Rubber Company and by using the method and tables in Production and Cost Estimating of Material Movement with Earthmoving Equipment, Terex Corporation, Hudson, Ohio.

2.27 Tire Repair Cost. It has been estimated that tire repairs are 15 percent of the total hourly tire wear cost. The LAF is used to adjust the tire repair cost to account for regional variations in labor and parts costs. This cost element has been calculated and listed separately in table 2-2. It is expressed as a formula, as follows:

$$\text{Tire Repair Cost} = \text{Total Hourly Tire Wear Cost} \times 0.15 \times \text{LAF}$$

SECTION IX. STANDBY HOURLY RATE

2.28 Standby Hourly Rate. The standby rate is computed by allowing the full FCCM hourly cost (based on a 40-hour work week), plus one-half of the hourly depreciation. It is expressed as a formula, as follows:

$$\text{Standby Rate/hr} = (\text{DEPR/hr} \times 0.50) + \text{FCCM/hr}$$

a. Paid standby shall not exceed 40 hours per week (7 calendar days) (based on a 40-hour work week) per unit of equipment. Actual operating hours during a week will be credited against the 40 hours maximum standby allowance.

b. Standby costs will not be allowed during periods when the equipment would have otherwise been in idle status.

c. When the equipment is purchased used, standby will be computed on the basis that the equipment was purchased new by the contractor in the year it was actually manufactured. Refer to chapter 3 for rate adjustments.

SECTION X. RATE CALCULATION EXAMPLE

2.29 Computation Example. Figure 2-1 is an example of how the total hourly rates in table 2-1 are computed. A blank Equipment Rate Computation Worksheet is included in appendix A and can be copied, as needed.

a. When an hourly rate for a specific unit of equipment is not included in this pamphlet and a rate must be computed, the methodology contained in chapter 2 shall be followed. However, when a unit of equipment is not included in this pamphlet and the necessary factors to compute a rate are not found in appendix D, please contact the Chief, Cost Engineering Branch, Engineering and Construction Division, Walla Walla District, U.S. Army Corps of Engineers, for assistance as explained in chapter 1. A Microsoft Excel® spreadsheet (CHECKRATE) is also available for rate computation (see chapter 1, paragraph 1.5, How to Obtain CHECKRATE).

b. See chapter 3 for further guidance on the procedure for rate adjustments.

Example: The piece of equipment shown in this example is based on a known piece of equipment for illustration purposes only.

Use this worksheet to compute an hourly rate for equipment that is not in this pamphlet or is in the pamphlet but not equivalent in size, capacity, horsepower, or value (see appendix A for blank form).

Region 04

1. EQUIPMENT INFORMATION AND EXPENSE FACTORS

| | | | | | |
|---|--|---|-----------------|---|-------------|
| | ID No | <u>C90LB001</u> | | | |
| a. Equipment Specification Data: | | | | | |
| (1) Equipment Description: | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 150 TON / 260' BOOM, 8X4 | | | | |
| (2) Model and Series: | HC-238H II | | | | |
| (3) Present Year or Year of Use: | 2016 | | | | |
| (4) Year Manufactured: | 2011 | | | | |
| (5) Horsepower - Equipment: | 200 | | | | |
| (6) Horsepower - Carrier: | 445 | | | | |
| (7) Fuel | - Equipment: 0=None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel | <small>Enter number from 0 to 6 ==></small> <input type="text" value="3"/> D-off | | | |
| | - Carrier: 0=None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel | <small>Enter number from 0 to 6 ==></small> <input type="text" value="3"/> D-off | | | |
| (8) Shipping Weight (cwt): | | | | | |
| (9) Tire size and number of tires: (Cost of tires based on present year, see 1.a.(3) and App. F): | | | | | |
| | Size/Ply | App F Code | No. | Unit Price | Cost |
| (a) Front (FT): | 17.5R25 | AMLB1 | 4 | \$1,710 | \$6,840 |
| (b) Drive (DT): | 17.5R25 | AMLB1 | 8 | \$1,710 | \$13,680 |
| (c) Trailing (TT): | | | 0 | \$0 | \$0 |
| (d) Total Tire Cost: | | | \$20,520 | | |
| (10) List Price + Accessories: [at Year (yr) of Manufacture] | \$1,508,606 | | OR | actual purchase price: <input type="text" value="\$0"/> | |

USE APPENDIX D TO COMPLETE THE FOLLOWING DATA:

| | | |
|--|------------|-------------|
| b. Category and Subcategory Number: | <u>C90</u> | <u>0.04</u> |
| c. Hourly Expense Calculation Factors: | | |
| (1) Economic Key (EK): | 20 | |
| (2) Condition (C): A =Average D =Difficult S =Severe | A | AVERAGE |
| (3) Discount Code (DC): B = 7.5% (0.075) or S = 15.0% (0.15) | B | 0.075 |
| (4) Life in Hours (LIFE): | 20,000 | |
| (5) Salvage Value Percentage (SLV): | 0.20 | |
| (6) Fuel Factor - Equipment [Electric (E) Gas (G) Diesel (D)]: | 0.024 | |
| (7) Fuel Factor - Carrier (E G D): | 0.005 | |
| (8) Filter, Oil, and Grease (FOG) Factor (E G D): | 0.110 | |
| (9) Tire Wear Factor: | | |
| (a) Front (FT): | 0.66 | |
| (b) Drive (DT): | 0.58 | |
| (c) Trailing (TT): | 0.73 | |
| (10) Repair Cost Factor (RCF): | 0.90 | |

Figure 2-1. Equipment Rate Computation Worksheet Page 1 of 6

Region 04

2. EQUIPMENT VALUE

a. List Price + Accessories: [at Year (yr) of Manufacture] = \$1,508,606

| | |
|---------------|---|
| (1) Discount: | (List Price + Accessories) x Discount Code |
| | {1.a.(10)} {1.c.(3)} |
| | <u>(\$1,508,606)</u> + <u>\$0.00</u> x <u>0.075</u> |
| | = <u>[\$113,145]</u> |

| | |
|---------------------------------|-------------------------------|
| (2) Subtotal {2.a.} - {2.a.(1)} | Subtotal = <u>\$1,395,461</u> |
|---------------------------------|-------------------------------|

| | | | |
|--------------------------|--------------------|---|-----------------------|
| (3) Sales or Import Tax: | Subtotal {2 a.(2)} | x | Tax Rate {Appendix B} |
| | <u>\$1,395,461</u> | x | <u>5.25%</u> |
| | | | = <u>\$73,262</u> |

| | |
|---|-------------------------------|
| (4) Total Discounted Price: Subtotal: 2.a.(2) + 2.a.(3) | Subtotal = <u>\$1,468,723</u> |
|---|-------------------------------|

| | | | |
|-------------|---------------------------|---|-----------------------------------|
| b. Freight: | Shipping Weight {1 a.(8)} | x | Freight Rate per cwt {Appendix B} |
| | <u>1,913 cwt</u> | x | <u>\$7.60 /cwt</u> |
| | | | = <u>\$14,539</u> |

c. **TOTAL EQUIPMENT VALUE (TEV):** **TOTAL [2.]:** = \$1,483,262

{2.a.(4)} + {2 b} OR actual purchase price {1a (10)}

(See chapter 3 for used and overage equipment rate adjustments.)

3. DEPRECIATION PERIOD (N)

| | | | |
|----|------------------|---|--|
| a. | LIFE {1.c.(4)} | / | Working Hours Per Year (WHPY) = N {Appendix B} |
| | <u>20,000 hr</u> | / | <u>1,260 hr/yr</u> |
| | | | = <u>15.87 yrs (N)</u> |

4. OWNERSHIP COST

a. Depreciation

(1) Tire Cost Index (TCI):

| | | | |
|--|---|--|-----------------------|
| Tire Index, Year of Manufacture, {1.a.(4)} | / | Tire Index, Present Year or Year of Use, {1.a.(3)} | Tire Cost Index (TCI) |
| Appendix E, EK=100 | / | Appendix E, EK=100 | = <u>1.000</u> |
| <u>3796</u> | / | <u>3796</u> | |

| | | | | | | | |
|-----|---------------------|---|---------------------|---|-----------------|---|---|
| (2) | [TEV {2 c.}] | x | (1.0-SLV) {1 c.(5)} | - | (TCI {4.a (1)}) | x | Tire Cost)] / LIFE {1 a (9)(d)} {1 c.(4)} |
| | <u>[\$1,483,262</u> | x | <u>(1.0-0.20)</u> | - | <u>(1.000</u> | x | <u>\$20,520)]</u> / <u>20,000 hrs</u> = <u>\$58.30 /hr</u> |

Figure 2-1. Equipment Rate Computation Worksheet Page 2 of 6

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4. OWNERSHIP COST (Continued)

b. Facilities Capital Cost of Money (FCCM):

$$(1) \frac{[(N - 1.0) \times (1.0 + SLV)]}{[(15.87 \text{ yr} - 1.0) \times (1.0 + 0.20)]} + 2.0] / (2.0 \times N) = \frac{\text{Avg Value Factor (AVF)}}{(2.0 \times 15.87 \text{ yr})} = 0.625$$

$$(2) \frac{TEV \times AVF}{\$1,483,262 \times 0.625} \times \frac{\text{Adjusted Cost-of-Money}}{1.70\%} / \frac{WHPY}{1,260 \text{ hr/yr}} = \$12.51 / \text{hr}$$

c. TOTAL HOURLY OWNERSHIP COST:

$$\{4.a.(2)\} + \{4.b (2)\} \quad \text{TOTAL [4.]: } \$70.81 / \text{hr}$$

5. OPERATING COST

a. Fuel Costs:

(1) Equipment:

| | | | | |
|--------------|---|-----------------|---|----------------------------|
| Fuel Factor | x | Horsepower (hp) | x | Fuel Cost per Gallon (gal) |
| {1.c (6)} | | {1.a.(5)} | | {Appendix B} |
| <u>0.024</u> | x | <u>200 hp</u> | x | <u>\\$2.14 /gal</u> |

$$= \$10.27 / \text{hr}$$

(2) Carrier:
{1.c (4)}

| | | | | |
|--------------|---|------------------|---|---------------------|
| Fuel Factor | x | Horse power (hp) | x | Fuel Cost per gal |
| {1.c (7)} | | {1.a.(6)} | | {Appendix B} |
| <u>0.005</u> | x | <u>445 hp</u> | x | <u>\\$2.14 /gal</u> |

$$= \$4.76 / \text{hr}$$

(3) Total Hourly Fuel Cost:
{5.a (1)} + {5.a (2)}

$$\text{Total [5.a.] } \$15.03 / \text{hr}$$

b. FOG Cost:

(1) Equipment:

| | | | | |
|--------------|---|----------------------------|---|-------------------------------|
| FOG Factor | x | Equipment Hourly Fuel Cost | x | Labor Adjustment Factor (LAF) |
| {1.c (8)} | | {5.a.(1)} | | {Appendix B} |
| <u>0.110</u> | x | <u>\\$10.27 /hr</u> | x | <u>1.03</u> |

$$= \$1.16 / \text{hr}$$

Figure 2-1. Equipment Rate Computation Worksheet Page 3 of 6

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5. OPERATING COST (Continued)

(2) Carrier:

$$\begin{array}{ccccccc} \text{FOG Factor} & \times & \text{Carrier Hourly} \\ \{1.c(8)\} & & \text{Fuel Cost} & \times & \text{LAF} \\ \underline{0.110} & \times & \underline{\$4.76/\text{hr}} & \times & \underline{1.03} & = & \underline{\$0.54/\text{hr}} \end{array}$$

(3) Total Hourly FOG Cost:

{5.b.(1)} + {5.b.(2)}

Total [5.b.] = \$1.70 /hr

c. Alternative Fuel/FOG Cost:

(See chapter 2, paragraph 2.24.d. for guidance on when to use.)

Total [5.c.] = \$0.00 hr

d. Repair Cost:

(1) Economic Adjustment Factor (EAF):

EK is from {1c. (1)}

$$\begin{array}{ccccc} \text{Economic Index, Present Year or Year of} & / & \text{Economic Index, Year of} \\ \text{Use, \{1.a.(3)\}} & & \text{Manufacture, \{1.a.(4)\}} \\ \text{Appendix E, EK=\{1.c.(1)\}} & & \text{Appendix E, EK=\{1.c.(1)\}} \\ \underline{7505} & / & \underline{7505} & = & \underline{1.000} \end{array}$$

(See table 3-1 for last year of economic life.)

(2) Repair Factor (RF):

$$\begin{array}{ccccccc} \text{RCF} & \times & \text{EAF} & \times & \text{LAF} \\ \{1.c.(10)\} & & \{5.d.(1)\} & & \{ \text{Appendix B} \} \\ \underline{0.90} & \times & \underline{1.000} & \times & \underline{1.03} & = & \underline{0.927} \end{array}$$

(3) Repair Cost:

$$\begin{array}{ccccccccc} [\text{TEV} & - & (\text{TCI}) & \times & \text{Tire Cost}] & \times & \text{RF} & / & \text{LIFE} \\ \{2.c.\} & - & \{4.a.(1)\} & & \{1.a.(9)(d)\} & & \{5.d.(2)\} & & \{1.c.(4)\} \\ \underline{[\$1,483,262]} & - & \underline{(1.000)} & \times & \underline{\$20,520}] & \times & \underline{0.927} & / & \underline{20,000} \end{array}$$

(4) Total Hourly Repair Cost:

Total [5.d.] = \$67.80 /hr

Figure 2-1. Equipment Rate Computation Worksheet Page 4 of 6

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5. OPERATING COST (Continued)

e. Tire Wear Cost: (Use current price levels. See Appendix F)

(1) Front Tires (FT):

$$\begin{array}{rcl} (1.5 \times \text{FT Cost}) & / & (1.8 \times \text{FT Wear Factor} \times \text{Maximum Tire Life Hours}) \\ \{1.a (9)(a)\} & & \{1.c.(9)(a)\} \\ \underline{(1.5 \times \$6,840)} & / & \underline{(1.8 \times 0.66)} \times \underline{2,800 \text{ hr}} = \underline{\$3.08 /hr} \end{array}$$

(2) Drive Tires (DT):

$$\begin{array}{rcl} (1.5 \times \text{DT Cost}) & / & (1.8 \times \text{DT Wear Factor} \times \text{Maximum Tire Life Hours}) \\ \{1.a (9)(b)\} & & \{1.c.(9)(b)\} \\ \underline{(1.5 \times \$13,680)} & / & \underline{(1.8 \times 0.58)} \times \underline{2,800 \text{ hr}} = \underline{\$7.02 /hr} \end{array}$$

(3) Trailing Tires (TT):

$$\begin{array}{rcl} (1.5 \times \text{TT Cost}) & / & (1.8 \times \text{TT Wear Factor} \times \text{Maximum Tire Life Hours}) \\ \{1.a.(9)(c)\} & & \{1.c.(9)(c)\} \\ \underline{(1.5 \times \$0.00)} & / & \underline{(1.8 \times 0.73)} \times \underline{0 \text{ hr}} = \underline{\$0.00 /hr} \end{array}$$

(4) Total Tire Wear Cost:
Sum {5.e (1)} through {5.e.(3)}

$$\text{Total [5.e.]} = \underline{\$10.10 /hr}$$

f. Tire Repair Cost:

$$\begin{array}{rcl} \text{Total Tire Wear Cost} & & \\ \text{per Hour} & \times & (0.15 \times \text{LAF}) \\ \{5.e.(4)\} & & \{ \text{Appendix B} \} \\ \underline{\$10.10 /hr} & \times & \underline{(0.15 \times 1.03)} \end{array} \quad \text{Total [5.f.]} = \underline{\$1.56 /hr}$$

g. **TOTAL HOURLY OPERATING COST:**
Sum {5.a } through{ 5.f.}

$$\text{Total [5.]} = \underline{\$96.19 /hr}$$

Figure 2-1. Equipment Rate Computation Worksheet Page 5 of 6

Region 04

6. HOURLY RATES

- a. Total Hourly Rate: [based on 40 hours per week (wk)]

| | | | | |
|---------------------------|---|---------------------------|--|------------------------------|
| Ownership Cost {4.c.)} | + | Operating Cost {5.g.)} | | |
| <u>\$70.81 /hr</u> | + | <u>\$96.19 /hr</u> | | = <u>\$167.00 /hr</u> |

- b. Other Work Shifts Hourly Rate:

(Refer to Chapter 3, Adjustments to Rates, for methodology)

| | | | | | | | |
|--------------------|---|---------------------|---|-------------------|--------------------|----------------------|-----------------------|
| Depreciation | + | (FCCM | x | 40 hr/wk | / Work hr/wk) | + Operating Cost | |
| {4.a (2)} | | {4 b (2)} | | example 60 hr/wk | | | {5.g } |
| <u>\$58.30 /hr</u> | | <u>(\$12.51 /hr</u> | | <u>x 40 hr/wk</u> | <u>/ 60 hr/wk)</u> | <u>+ \$96.19 /hr</u> | <u>= \$162.83 /hr</u> |
| (example 60 hr/wk) | | | | | | | |

- c. Standby Hourly Rate:

(Refer to Chapter 2, paragraph 2.28 for guidance on use)

$$\begin{array}{rcl}
 (\text{Depreciation} & \times & 0.50) & + & \text{FCCM} \\
 \{4.a.(2)\} & & \{4.b.(2)\} & & \\
 \\
 (\$58.30/\text{hr} & \times & 0.50) & + & \$12.51/\text{hr} \\
 & & & & = \$41.66/\text{hr}
 \end{array}$$

(Refer to Chapter 3, paragraph 3.12 for guidance for overage equipment)

See Chapter 3 if rate adjustments are necessary.

Figure 2-1. Equipment Rate Computation Worksheet Page 6 of 6

Table 2-1. Hourly Equipment Ownership and Operating Expense

EXPLANATION OF TABLE HEADINGS

Example unit of equipment: Link Belt, Model HC-238H II.

CAT: C90 is the category number and identifies it as Cranes, Mechanical, Lattice Boom, Truck Mounted (from appendix D).

ID No.: C90LB001 is the unique identification number for the above Link Belt crane. LB equals the manufacturer (see appendix H). 001 equals the numeric order of this unit of equipment within the manufacturer's listing.

MODEL: HC-238H II is the equipment model number.

EQUIPMENT DESCRIPTION: Specific information for each particular unit of equipment is described, such as "CRANES, MECHANICAL LATTICE BOOM, TRUCK MTD, 150 TON, 260' BOOM, 8X4" for the Link Belt crane.

ENGINE HORSEPOWER AND FUEL TYPE: The amount of horsepower and type of fuel used is stated for the main and carrier engines. The Link Belt crane carrier has a 445-horsepower engine, and the crane has a 200-horsepower engine. The carrier engine is on-road diesel (D-on) and the crane engine is off-road diesel (D-off).

VALUE (TEV): This column reflects the predetermined "equipment cost" used to compute the rates and is based on equipment purchased new in 2013.

TOTAL HOURLY RATES (\$/HR): All ownership and operating expenses for the average condition are included. All cost elements, including fuel, are totaled in the AVERAGE column. The STANDBY column includes the hourly allowance for equipment on legitimate standby status (see section 2.28 for more information).

ADJUSTABLE ELEMENTS: This column shows ownership elements and fuel costs used to develop the average total hourly rates so they can be adjusted as indicated in chapter 3. Operating costs may be determined by subtracting the ownership cost elements (DEPR plus FCCM) from the total hourly rate for the average condition.

CWT: The shipping weight of the equipment is stated in hundredweight.

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------------------|---|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A10 AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | SELF-PROPELLED | | | | | | | | | | |
| | ROSCO, A LeeBoy COMPANY | | | | | | | | | | | |
| A10RS003 | CSM | CHIP SPREADER, SELF PROPELLED, 10' WIDE, 1.70 CY, 2WD | 160 HP | D-off | | \$149,076 | 44.01 | 8.50 | 14.64 | 1.18 | 11.64 | 149 |
| A10RS004 | CSM | CHIP SPREADER, SELF PROPELLED, 11' WIDE, 1.80 CY, 2WD | 160 HP | D-off | | \$150,345 | 44.27 | 8.58 | 14.77 | 1.19 | 11.64 | 153 |
| A10RS005 | CSM | CHIP SPREADER, SELF PROPELLED, 12' WIDE, 2.03 CY, 2WD | 160 HP | D-off | | \$150,939 | 44.39 | 8.61 | 14.83 | 1.19 | 11.64 | 159 |
| A10RS006 | CSM | CHIP SPREADER, SELF PROPELLED, 13' WIDE, 2.28 CY, 2WD | 160 HP | D-off | | \$151,178 | 44.44 | 8.62 | 14.85 | 1.19 | 11.64 | 153 |
| A10RS007 | CSM | CHIP SPREADER, SELF PROPELLED, 15' WIDE, 2.53 CY, 2WD | 160 HP | D-off | | \$153,057 | 44.84 | 8.73 | 15.04 | 1.21 | 11.64 | 159 |
| | SUBCATEGORY 0.20 | TOWED & TAILGATE | | | | | | | | | | |
| | AMERICAN ROAD MACHINERY, INC. | | | | | | | | | | | |
| A10AR001 | TG-505C | CHIP SPREADER, TAILGATE, 8' WIDE (ADD DUMP TRUCK) | | | | \$3,551 | 0.88 | 0.27 | 0.47 | 0.03 | 0.00 | 5 |
| A10AR002 | ODELL 900 | CHIP SPREADER, TOWED, 8' WIDE, 3 CY (ADD DUMP TRUCK) | | | | \$17,215 | 4.49 | 1.29 | 2.30 | 0.14 | 0.00 | 22 |
| | PAVEMENT TECHNOLOGIES INETERNATIONAL | | | | | | | | | | | |
| A10PV001 | GS 84 | CHIP SPREADER, TAILGATE, 8' WIDE (ADD DUMP TRUCK) | | | | \$3,883 | 0.97 | 0.29 | 0.52 | 0.03 | 0.00 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--------------------------------------|---------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SEALMASTER, INC. | | | | | | | | | | | |
| | A10SE003 | R-1 E2330 | CHIP SPREADER, TAILGATE, 10' WIDE, 1.41 CY (ADD DUMP TRUCK) | | | \$22,150 | 5.51 | 1.66 | 2.95 | 0.18 | 0.00 | 30 |
| | A10SE001 | R-1 E2310 | CHIP SPREADER, TAILGATE, 8' WIDE, 1.13 CY (ADD DUMP TRUCK) | | | \$13,608 | 3.38 | 1.02 | 1.81 | 0.11 | 0.00 | 21 |
| | A10SE002 | R-1 E2500 | CHIP SPREADER, TOWED, 8' WIDE, 1.13 CY (ADD DUMP TRUCK) | | | \$16,012 | 3.98 | 1.20 | 2.13 | 0.13 | 0.00 | 30 |
| A15 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | |
| | SUBCATEGORY 0.10 ROTARY SCREW | | | | | | | | | | | |
| | DOOSAN PORTABLE POWER | | | | | | | | | | | |
| | A15DP016 | HP1600WCU-T4I | AIR COMPRESSOR, 1,600 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | 580 HP | D-off | \$286,566 | 98.34 | 13.66 | 22.87 | 2.22 | 44.68 | 186 |
| | A15DP017 | P250-T4F | AIR COMPRESSOR, 250 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | 74 HP | D-off | \$37,385 | 12.70 | 1.78 | 2.97 | 0.29 | 5.70 | 27 |
| | A15DP001 | P185WDO-T4F | AIR COMPRESSOR, 185 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | 49 HP | D-on | \$30,118 | 10.36 | 1.43 | 2.39 | 0.23 | 4.71 | 23 |
| | A15DP002 | HP375WCU-T4I | AIR COMPRESSOR, 375 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | 140 HP | D-on | \$67,858 | 26.53 | 3.24 | 5.41 | 0.53 | 13.46 | 42 |
| | A15DP003 | VHP400WCU-T4I | AIR COMPRESSOR, 400 CFM, 200 PSI, TRAILER MTD (ADD HOSE) | 173 HP | D-on | \$83,533 | 32.73 | 3.98 | 6.66 | 0.65 | 16.63 | 52 |
| | A15DP004 | HP450 | AIR COMPRESSOR, 450 CFM, 150 PSI (ADD HOSE) | 173 HP | D-on | \$83,533 | 32.73 | 3.98 | 6.66 | 0.65 | 16.63 | 52 |
| | A15DP010 | XHP1070WCAT | AIR COMPRESSOR, 1,070 CFM, 350 PSI (ADD HOSE) | 400 HP | D-on | \$207,036 | 78.02 | 9.83 | 16.45 | 1.60 | 38.45 | 152 |
| | A15DP011 | XP535WCU | AIR COMPRESSOR, 535 CFM, 125 PSI (ADD HOSE) | 173 HP | D-on | \$87,487 | 33.39 | 4.16 | 6.96 | 0.68 | 16.63 | 53 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|---------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| A15 | DOOSAN PORTABLE POWER (continued) | | | 270 HP D-on | | \$128,625 | 50.78 | 6.12 | 10.23 | 1.00 | 25.95 | 87 | | | | | | | | | |
| | A15DP012 | HP750WCU-T4I | AIR COMPRESSOR, 750 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15DP013 | XP825WCU-T4I | AIR COMPRESSOR, 825 CFM, 125 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15DP014 | HP1000WCU-T4I | AIR COMPRESSOR, 1,000 CFM, 125 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15DP015 | HP915WCU-T4I | AIR COMPRESSOR, 915 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | 305 HP D-on | | \$158,135 | 59.51 | 7.52 | 12.59 | 1.22 | 29.32 | 105 | | | | | | | | | |
| | SULLAIR CORPORATION | | | | | | | | | | | | | | | | | | | | |
| | A15SR006 | 125DPOJD | AIR COMPRESSOR, 125 CFM, 100 PSI (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15SR007 | 130DPOJD | AIR COMPRESSOR, 130 CFM, 100 PSI (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15SR004 | 185 | AIR COMPRESSOR, 185 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | 61 HP D-off | | \$26,613 | 9.76 | 1.27 | 2.11 | 0.21 | 4.70 | 20 | | | | | | | | | |
| | A15SR005 | 260 | AIR COMPRESSOR, 260 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15SR008 | 375H | AIR COMPRESSOR, 375 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15SR009 | 425 | AIR COMPRESSOR, 425 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15SR010 | 600H | AIR COMPRESSOR, 600 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | 300 HP D-off | | \$179,755 | 56.25 | 8.50 | 14.22 | 1.39 | 23.11 | 100 | | | | | | | | | |
| | A15SR011 | 750HH | AIR COMPRESSOR, 750 CFM, 175 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |
| | A15SR002 | 900XHH | AIR COMPRESSOR, 900 CFM, 350 PSI, TRAILER MTD (ADD HOSE) | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|-------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A15 | <i>SULLAIR CORPORATION (continued)</i> | | | | | | | | | | | |
| | A15SR012 | 1050 | AIR COMPRESSOR, 1,050 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | 300 HP | D-off | \$192,016 | 58.31 | 9.09 | 15.20 | 1.49 | 23.11 | 105 |
| | A15SR013 | 1300H | AIR COMPRESSOR, 1,300 CFM, 150 PSI, TRAILER MTD (ADD HOSE) | 475 HP | D-off | \$311,508 | 93.46 | 14.84 | 24.86 | 2.41 | 36.59 | 156 |
| | A15SR014 | 1600H | AIR COMPRESSOR, 1,600 CFM, 100 PSI, TRAILER MTD (ADD HOSE) | 540 HP | D-off | \$311,626 | 99.13 | 14.83 | 24.84 | 2.41 | 41.60 | 162 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | A15XX019 | 50G | AIR COMPRESSOR, 50 CFM, 100 PSI (ADD HOSE) | 21 HP | G | \$13,642 | 5.84 | 0.66 | 1.09 | 0.11 | 3.11 | 5 |
| | A15XX020 | 60G | AIR COMPRESSOR, 60 CFM, 100 PSI (ADD HOSE) | 18 HP | G | \$9,298 | 4.60 | 0.44 | 0.74 | 0.07 | 2.67 | 5 |
| | A15XX021 | 100D | AIR COMPRESSOR, 100 CFM, 100 PSI (ADD HOSE) | 21 HP | D-off | \$13,722 | 4.15 | 0.65 | 1.08 | 0.11 | 1.62 | 13 |
| | A15XX022 | 100D | AIR COMPRESSOR, 100 CFM, 125 PSI (ADD HOSE) | 35 HP | D-off | \$24,586 | 7.18 | 1.16 | 1.94 | 0.19 | 2.70 | 17 |
| | A15XX023 | 125G | AIR COMPRESSOR, 125 CFM, 100 PSI (ADD HOSE) | 65 HP | G | \$17,598 | 13.97 | 0.83 | 1.38 | 0.14 | 9.64 | 20 |
| | A15XX024 | 130 | AIR COMPRESSOR, 130 CFM, 100 PSI (ADD HOSE) | 50 HP | D-off | \$27,678 | 8.99 | 1.31 | 2.19 | 0.21 | 3.85 | 18 |
| | A15XX025 | 160G | AIR COMPRESSOR, 160 CFM, 125 PSI (ADD HOSE) | 60 HP | G | \$19,228 | 13.38 | 0.91 | 1.51 | 0.15 | 8.89 | 23 |
| | A15XX026 | 175D | AIR COMPRESSOR, 175 CFM, 100 PSI (ADD HOSE) | 70 HP | D-off | \$30,999 | 11.28 | 1.47 | 2.45 | 0.24 | 5.39 | 27 |
| | A15XX027 | 175G | AIR COMPRESSOR, 175 CFM, 125 PSI (ADD HOSE) | 90 HP | G | \$19,995 | 18.57 | 0.94 | 1.57 | 0.15 | 13.34 | 24 |
| | A15XX028 | 185D | AIR COMPRESSOR, 185 CFM, 100 PSI (ADD HOSE) | 49 HP | D-off | \$30,118 | 9.31 | 1.42 | 2.38 | 0.23 | 3.77 | 23 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>A15</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | A15XX029 | 185G | AIR COMPRESSOR, 185 CFM, 125 PSI (ADD HOSE) | 70 HP | G | \$21,618 | 15.48 | 1.02 | 1.70 | 0.17 | 10.38 | 23 |
| | A15XX030 | 250D | AIR COMPRESSOR, 250 CFM, 100 PSI (ADD HOSE) | 74 HP | D-off | \$37,385 | 12.70 | 1.77 | 2.96 | 0.29 | 5.70 | 27 |
| | A15XX031 | 300 | AIR COMPRESSOR, 300 CFM, 200 PSI (ADD HOSE) | 122 HP | D-off | \$75,134 | 23.20 | 3.57 | 5.98 | 0.58 | 9.40 | 37 |
| | A15XX032 | 375 | AIR COMPRESSOR, 375 CFM, 150 PSI (ADD HOSE) | 140 HP | D-off | \$67,858 | 23.54 | 3.23 | 5.40 | 0.53 | 10.79 | 42 |
| | A15XX033 | 450 | AIR COMPRESSOR, 450 CFM, 150 PSI (ADD HOSE) | 173 HP | D-off | \$83,533 | 29.02 | 3.98 | 6.65 | 0.65 | 13.33 | 52 |
| | A15XX034 | 600 | AIR COMPRESSOR, 600 CFM, 150 PSI (ADD HOSE) | 300 HP | D-off | \$190,337 | 58.03 | 9.01 | 15.07 | 1.47 | 23.11 | 150 |
| | A15XX035 | 750 | AIR COMPRESSOR, 750 CFM, 150 PSI (ADD HOSE) | 270 HP | D-off | \$128,625 | 44.99 | 6.13 | 10.25 | 1.00 | 20.80 | 87 |
| | A15XX036 | 825 | AIR COMPRESSOR, 825 CFM, 125 PSI (ADD HOSE) | 270 HP | D-off | \$128,625 | 44.99 | 6.13 | 10.25 | 1.00 | 20.80 | 87 |
| | A15XX037 | 950 | AIR COMPRESSOR, 950 CFM, 150 PSI (ADD HOSE) | 310 HP | D-off | \$158,110 | 53.47 | 7.47 | 12.49 | 1.22 | 23.88 | 105 |
| | A15XX038 | 1050 | AIR COMPRESSOR, 1,050 CFM, 100 PSI (ADD HOSE) | 300 HP | D-off | \$202,855 | 60.13 | 9.61 | 16.07 | 1.57 | 23.11 | 168 |
| | A15XX039 | 1300 | AIR COMPRESSOR, 1,400 CFM, 150 PSI (ADD HOSE) | 475 HP | D-off | \$311,981 | 93.58 | 14.83 | 24.83 | 2.41 | 36.59 | 180 |
| | A15XX040 | 1600 | AIR COMPRESSOR, 1,600 CFM, 150 PSI (ADD HOSE) | 500 HP | D-off | \$285,876 | 91.37 | 13.57 | 22.71 | 2.21 | 38.52 | 151 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|--|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| SUBCATEGORY 0.20 SHOP TYPE | NO SPECIFIC MANUFACTURER | | | | | \$2,005 | | | | | | |
| | A15XX041 | 21 | AIR COMPRESSOR, 21 CFM, 80 GAL (ADD HOSE) | 8 HP | D-off | | 0.92 | 0.08 | 0.14 | 0.01 | 0.58 | 7 |
| | A15XX042 | 26 | AIR COMPRESSOR, 26 CFM, 80 GAL (ADD HOSE) | 8 HP | D-off | | 0.98 | 0.11 | 0.17 | 0.02 | 0.58 | 10 |
| | A15XX043 | 40 | AIR COMPRESSOR, 40 CFM, 120 GAL (ADD HOSE) | 10 HP | D-off | | 1.24 | 0.12 | 0.20 | 0.02 | 0.77 | 10 |
| | A15XX044 | 58 | AIR COMPRESSOR, 58 CFM, 120 GAL (ADD HOSE) | 15 HP | D-off | | 2.57 | 0.40 | 0.66 | 0.07 | 1.16 | 10 |
| | A15XX045 | 102 | AIR COMPRESSOR, 102 CFM, 120 GAL (ADD HOSE) | 25 HP | D-off | | 3.79 | 0.51 | 0.84 | 0.09 | 1.93 | 16 |
| | A15XX046 | 125 | AIR COMPRESSOR, 125 CFM, 120 GAL (ADD HOSE) | 30 HP | D-off | | 4.36 | 0.56 | 0.92 | 0.10 | 2.31 | 16 |
| A20 AIR HOSE, TOOLS & EQUIPMENT | SUBCATEGORY 0.10 AIR DRILL HOSE | | | | | | | | | | | |
| NO SPECIFIC MANUFACTURER | | | | | | \$685 | | | | | | |
| | A20XX001 | 3618-0011 | AIR HOSE, 0.75", 100', AIR DRILL 500 | | | | 0.51 | 0.11 | 0.19 | 0.01 | 0.00 | 1 |
| | A20XX002 | 3618-0021 | AIR HOSE, 1.00", 100', AIR DRILL 500 | | | | 0.60 | 0.12 | 0.22 | 0.01 | 0.00 | 1 |
| | A20XX003 | 3618-0031 | AIR HOSE, 1.25", 100', AIR DRILL 500 | | | | 0.73 | 0.15 | 0.27 | 0.01 | 0.00 | 1 |
| | A20XX004 | 3618-0041 | AIR HOSE, 1.50", 100', AIR DRILL 500 | | | | 0.95 | 0.19 | 0.35 | 0.01 | 0.00 | 1 |
| | A20XX005 | 3618-0051 | AIR HOSE, 2.00", 100', AIR DRILL 500 | | | | 1.33 | 0.26 | 0.49 | 0.01 | 0.00 | 1 |
| | A20XX006 | 3618-0205 | AIR HOSE, 2.50", 100', AIR DRILL 500 | | | | 2.34 | 0.46 | 0.86 | 0.03 | 0.00 | 3 |
| | A20XX007 | 3618-0215 | AIR HOSE, 3.00", 100', AIR DRILL 500 | | | | 1.99 | 0.39 | 0.73 | 0.02 | 0.00 | 4 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | |
|------------|---|---------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|---|--|--|--|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | |
| A20 | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | \$9,692 | 7.16 | 1.40 | 2.63 | 0.08 | 0.00 | 5 | | | | | | | |
| | A20XX008 | HR4D | AIR HOSE, 4.00", 100', HARDROCK | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.20 SANDBLAST HOSE | | | | | | | | | | | | | | | | | | |
| | CLEMCO INDUSTRIES CORPORATION | | | | | | | | | | | | | | | | | | |
| | A20CM017 | 24750 | SANDBLAST HOSE, 0.75"ID, 100' LONG USE AS SAN BLASTING ACCESSORY, 4 PLY | | | | \$696 | 0.55 | 0.11 | 0.19 | 0.01 | 0.00 | 1 | | | | | | |
| | A20CM018 | 23448 | SANDBLAST HOSE, 1.00"ID, 100' LONG USE AS SAN BLASTING ACCESSORY, 4 PLY | | | | \$696 | 0.55 | 0.11 | 0.19 | 0.01 | 0.00 | 1 | | | | | | |
| | A20CM020 | 23451 | SANDBLAST HOSE, 1.25"ID, 100' LONG USE AS SAN BLASTING ACCESSORY, 4 PLY | | | | \$752 | 0.59 | 0.11 | 0.20 | 0.01 | 0.00 | 1 | | | | | | |
| | A20CM019 | 23453 | SANDBLAST HOSE, 1.50"ID, 100' LONG USE AS SAN BLASTING ACCESSORY, 4 PLY | | | | \$940 | 0.74 | 0.14 | 0.26 | 0.01 | 0.00 | 1 | | | | | | |
| | SUBCATEGORY 0.30 SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | | | | | | | | | | | | | | | | | | |
| | BLAST ONE | | | | | | | | | | | | | | | | | | |
| | A20B1001 | 725 CF HOPPER | SANDBLAST ABRASIVE STORAGE HOPPER, 725 CF, 8' X 10' X 8' BOX WITH 9' DRIVE THROUGH CLEARANCE | | | \$23,630 | 10.05 | 1.95 | 3.54 | 0.18 | 0.00 | 60 | | | | | | | |
| | CHICAGO PNEUMATIC TOOL CO. | | | | | | | | | | | | | | | | | | |
| | A20CK002 | CP-0009A | ROTARY / CHIP HAMMER, 8 LB, AIR (ADD 30 CFM COMPRESSOR & BIT COSTS) | A | | \$957 | 0.51 | 0.08 | 0.14 | 0.01 | 0.00 | 1 | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|--------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A20 | | | <i>CHICAGO PNEUMATIC TOOL CO. (continued)</i> | | | | | | | | | |
| | A20CK001 | CP-0014RR | ROTARY / CHIP HAMMER, 15 LB, AIR (ADD 30 CFM COMPRESSOR & BIT COSTS) | A | | \$1,667 | 0.83 | 0.14 | 0.25 | 0.01 | 0.00 | 1 |
| | A20CK003 | CP-0022 | ROCK DRILL, 30 LB, AIR (ADD 50 CFM COMPRESSOR & BIT COSTS) | A | | \$1,868 | 0.96 | 0.15 | 0.28 | 0.01 | 0.00 | 1 |
| | A20CK005 | CP-0069 | ROCK DRILL, 55 LB, AIR (ADD 140 CFM COMPRESSOR & BIT COSTS) | A | | \$2,609 | 1.30 | 0.22 | 0.39 | 0.02 | 0.00 | 1 |
| | A20CK006 | CP-0111-CHLA | BREAKER-FOUR BOLT, 25 LB (ADD 50 CFM COMPRESSOR & BIT COSTS) | A | | \$1,014 | 0.58 | 0.09 | 0.15 | 0.01 | 0.00 | 1 |
| | A20CK008 | CP-1260-S | BREAKER-FOUR BOLT, 60 LB (ADD 65 CFM COMPRESSOR & BIT COSTS) | A | | \$1,418 | 0.80 | 0.12 | 0.21 | 0.01 | 0.00 | 1 |
| | A20CK010 | CP-1290-S | BREAKER-FOUR BOLT, 90 LB (ADD 90 CFM COMPRESSOR & BIT COSTS) | A | | \$1,516 | 0.90 | 0.13 | 0.23 | 0.01 | 0.00 | 1 |
| | | | CLEMCO INDUSTRIES CORPORATION | | | | | | | | | |
| | A20CM010 | 21547 | SANDBLASTER, 2 CF CAP, W/0.50"D X 25'L HOSE (ADD 100 CFM COMPRESSOR & NOZZLE COST) | 100 CFM | A | \$5,575 | 2.43 | 0.46 | 0.84 | 0.04 | 0.00 | 4 |
| | A20CM011 | 21548 | SANDBLASTER, 4 CF CAP, W/1.00"D X 25'L HOSE (ADD 170 CFM COMPRESSOR & NOZZLE COST) | 170 CFM | A | \$6,083 | 2.65 | 0.51 | 0.91 | 0.05 | 0.00 | 5 |
| | A20CM012 | 21549 | SANDBLASTER, 6 CF CAP, W/1.25"D X 25'L HOSE (ADD 200 CFM COMPRESSOR & NOZZLE COST) | 200 CFM | A | \$6,845 | 3.04 | 0.57 | 1.03 | 0.05 | 0.00 | 6 |
| | A20CM013 | 25815 | SANDBLASTER, 60 CF CAP, W/1.25"D X 50'L HOSE (ADD 450 CFM COMPRESSOR & NOZZLE COST) | 450 CFM | A | \$28,471 | 12.21 | 2.30 | 4.15 | 0.22 | 0.00 | 30 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|--------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A20 | <i>CLEMCO INDUSTRIES CORPORATION (continued)</i> | | | | | | | | | | | |
| | A20CM014 | 25744 | SANDBLASTER, 120 CF CAP, W/1.25"D X 50'L HOSE (ADD 700 CFM COMPRESSOR & NOZZLE COST) | 700 CFM | A | \$31,385 | 13.58 | 2.54 | 4.59 | 0.24 | 0.00 | 35 |
| | A20CM015 | 25741 | SANDBLASTER, 160 CF CAP, W/1.25"D X 50'L HOSE (ADD 900 CFM COMPRESSOR & NOZZLE COST) | 900 CFM | A | \$33,460 | 14.56 | 2.71 | 4.90 | 0.26 | 0.00 | 45 |
| | WACKER CORPORATION | | | | | | | | | | | |
| | A20WC002 | EHB11/BL/110 | BREAKER/DRILL, 40 LB, ELECTRIC (ADD 2 KW GENERATOR & BIT COSTS) | 2 HP | E | \$1,476 | 0.96 | 0.12 | 0.22 | 0.01 | 0.13 | 1 |
| | A20WC004 | BH 23 | BREAKER/DRIVER, 65 LB, W/POWER UNIT (ADD BIT COSTS) | 4 HP | G | \$4,288 | 2.40 | 0.35 | 0.64 | 0.03 | 0.51 | 1 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | A20XX021 | 35LB BREAKER | PAVEMENT BREAKER, 35 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | | | \$1,618 | 0.68 | 0.13 | 0.24 | 0.01 | 0.00 | 1 |
| | A20XX022 | 45LB BREAKER | PAVEMENT BREAKER, 45 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | | | \$1,350 | 0.57 | 0.11 | 0.20 | 0.01 | 0.00 | 1 |
| | A20XX023 | 60LB BREAKER | PAVEMENT BREAKER, 60 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | | | \$1,671 | 0.71 | 0.14 | 0.25 | 0.01 | 0.00 | 1 |
| | A20XX024 | 90LB BREAKER | PAVEMENT BREAKER, 90 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | | | \$1,768 | 0.75 | 0.15 | 0.27 | 0.01 | 0.00 | 1 |
| | A20XX025 | 60LB DRILL | ROCK DRILL, DRY, 60 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | | | \$2,635 | 1.13 | 0.22 | 0.40 | 0.02 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---------------------------------|-------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A20 | | | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | \$933 | 0.40 | 0.08 | 0.14 | 0.01 | 0.00 | 1 |
| A20XX026 | 37 LBS | | BACKFILL TAMPER, 35-40 LB, HAND HELD (ADD 100 CFM COMPRESSOR) | | | | | | | | | |
| A25 ASPHALT PAVING DISTRIBUTORS | | | | | | | | | | | | |
| | SUBCATEGORY | 0.00 | ASPHALT PAVING DISTRIBUTORS | | | | | | | | | |
| | ROSCO, A LeeBoy COMPANY | | | | | | | | | | | |
| A25RS006 | MAXIMIZER II | | ASPHALT DISTRIBUTOR, 1,900 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | \$91,674 | 29.54 | 7.58 | 13.75 | 0.70 | 0.00 | 70 |
| A25RS008 | MAXIMIZER II | | ASPHALT DISTRIBUTOR, 3,000 GAL, 400 GPM, TRUCK MTD (ADD 42,000 GVW TRUCK) | | | \$99,134 | 32.50 | 8.20 | 14.87 | 0.76 | 0.00 | 97 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| A25XX001 | 1000G | | ASPHALT DISTRIBUTOR, 1,000 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | \$76,471 | 24.32 | 6.33 | 11.47 | 0.59 | 0.00 | 64 |
| A25XX002 | 1900G | | ASPHALT DISTRIBUTOR, 1900 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | \$92,049 | 30.02 | 7.62 | 13.81 | 0.71 | 0.00 | 89 |
| A25XX003 | 3500G | | ASPHALT DISTRIBUTOR, 3000 GAL, 400 GPM, TRUCK MTD (ADD 42,000 GVW TRUCK) | | | \$99,272 | 32.83 | 8.21 | 14.89 | 0.76 | 0.00 | 104 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|----------|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A30 ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.10 SELF PROPELLED | | | | | | | | | |
| | | | BARBER-GREENE COMPANY | | | | | | | | | |
| | A30BG004 | BG225C | ASPHALT FINISHER, 8' WIDE SCREED, CRAWLER, W/15' 6" SCREED EXTENSION, 177 CF HOPPER | 112 HP | D-off | \$396,098 | 108.90 | 24.08 | 42.09 | 3.03 | 8.15 | 336 |
| | A30BG005 | BG2455D | ASPHALT FINISHER, 10' WIDE SCREED, CRAWLER, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 224 HP | D-off | \$421,448 | 124.32 | 25.61 | 44.78 | 3.22 | 16.30 | 374 |
| | A30BG003 | BG260D | ASPHALT FINISHER, 10' WIDE SCREED, WHEEL, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 224 HP | D-off | \$403,062 | 118.44 | 22.72 | 39.27 | 3.08 | 16.30 | 382 |
| | | | VOLVO [BLAW KNOX] | | | | | | | | | |
| | A30BK018 | PF-6110 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, CRAWLER, 218 CF HOPPER | 184 HP | D-off | \$427,177 | 120.98 | 25.96 | 45.39 | 3.26 | 13.39 | 418 |
| | A30BK023 | PF-4410 | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER, 155 CF HOPPER | 145 HP | D-off | \$364,679 | 102.29 | 22.17 | 38.75 | 2.79 | 10.55 | 269 |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| | A30CA001 | AP500F | ASPHALT PAVER, 8' 4" - 16' 4" PAVING WIDTH, WHEEL, 237 CF HOPPER | 142 HP | D-off | \$323,800 | 92.59 | 19.45 | 33.95 | 2.47 | 10.33 | 286 |
| | A30CA003 | AP555F | ASPHALT PAVER, 8' 4" - 16' 4" PAVING WIDTH, CRAWLER, 237 CF HOPPER | 142 HP | D-off | \$363,292 | 102.39 | 21.86 | 38.15 | 2.78 | 10.33 | 300 |
| | A30CA013 | AP-655D | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER, 177 CF HOPPER | 174 HP | D-off | \$354,582 | 102.15 | 21.55 | 37.67 | 2.71 | 12.66 | 402 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| A30 | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | A30CA002 | AP-600D | ASPHALT PAVER, 8' WIDE+2' EXT. PAVEMASTER SCREED, WHEEL, 230 CF HOPPER | 174 HP | D-off | \$301,435 | 89.36 | 17.22 | 29.83 | 2.30 | 12.66 | 319 |
| | A30CA008 | AP-1000E | ASPHALT PAVER, 10' - 12' WIDE PAVEMASTER SCREED, WHEEL, 215 CF HOPPER | 224 HP | D-off | \$395,711 | 116.74 | 22.88 | 39.71 | 3.02 | 16.30 | 468 |
| | A30CA016 | AP-1055E | ASPHALT PAVER, 10' WIDE SCREED, CRAWLER, 215 CF HOPPER | 225 HP | D-off | \$508,583 | 144.51 | 30.91 | 54.04 | 3.89 | 16.37 | 413 |
| | GEHL COMPANY | | | | | | | | | | | |
| | A30GC002 | 1448 | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 80 CF HOPPER | 25 HP | D-off | \$43,601 | 12.85 | 2.65 | 4.63 | 0.33 | 1.82 | 67 |
| | A30GC004 | 1648 | ASPHALT PAVER, 9' WIDE SCREED, CRAWLER, 120 CF HOPPER | 41 HP | D-off | \$62,573 | 18.86 | 3.81 | 6.65 | 0.48 | 2.98 | 85 |
| | MIDLAND MACHINERY CO | | | | | | | | | | | |
| | A30MP001 | SPD-8 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-8" WIDE, BITUMINOUS & AGGREGATE, WHEEL, 80 CF HOPPER | 80 HP | D-off | \$180,221 | 51.06 | 10.78 | 18.80 | 1.38 | 5.82 | 185 |
| | A30MP002 | SPD-10 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-10" WIDE, BITUMINOUS & AGGREGATE, WHEEL, 80 CF HOPPER | 100 HP | D-off | \$194,504 | 56.26 | 11.61 | 20.24 | 1.49 | 7.28 | 275 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | SUBCATEGORY 0.20 TOWED | | | | | | | | | |
| | | | J-PYOTT | | | | | | | | | |
| | A30JP001 | CONTRACTOR GRADE | ASPHALT PAVER, DRAG BOX ASPHALT PAVER, 8' - 10' ADJUSTABLE WIDTH, 0" - 8" PAVING THICKNESS (ADD 10 - 14 CY DUMP TRUCK) | | | \$6,970 | 1.21 | 0.33 | 0.56 | 0.05 | 0.00 | 15 |
| | A30JP002 | MILITARY GRADE | ASPHALT PAVER, DRAG BOX ASPHALT SPREADER, 6'-10' ADJUSTABLE WIDTH, 0"-8" PAVING THICKNESS (ADD 10-14 CY DUMP TRUCK) | | | \$20,419 | 3.54 | 0.98 | 1.63 | 0.16 | 0.00 | 20 |
| | | | SUBCATEGORY 0.30 SLURRY SEAL PAVERS (Cold mix) | | | | | | | | | |
| | | | NO SPECIFIC MANUFACTURER | | | | | | | | | |
| | A30XX001 | MINIMAC | ASPHALT PAVER, SLURRY SEAL PAVER 8' WIDE, SELF PROPELLED, WHEEL, 80 CF HOPPER | 110 HP | D-off | \$197,732 | 32.20 | 7.97 | 12.92 | 1.51 | 6.83 | 130 |
| | A30XX002 | MACROPAVER 12B | ASPHALT PAVER, SLURRY SEAL PAVER 8' WIDE, TRUCK MTD, 12 CF HOPPER (ADD 40,000 GVW TRUCK) | 110 HP | D-off | \$265,262 | 40.28 | 10.87 | 17.68 | 2.03 | 6.83 | 175 |
| | | | SUBCATEGORY 0.40 MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| | A30CA007 | BG-260 D | ASPHALT PAVER, ASPHALT WINDROW ELEVATOR, WHEEL (ADD ASPHALT PAVER UNIT) | 107 HP | D-off | \$280,133 | 56.68 | 13.15 | 21.95 | 2.17 | 7.10 | 171 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|-----------------------------------|--|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| | LEE-BOY | | | 130 HP D-off | | \$199,072 | 44.87 | 9.33 | 15.57 | 1.54 | 8.62 | 198 | | | | | | | | | |
| | A30LD001 | 3000 | ASPHALT PAVER, ASPHALT FORCE FEED LOADER, 30" WIDE BELT, WINDROW OR LOOSE, WHEEL (ADD ASPHALT PAVER UNIT) | | | | | | | | | | | | | | | | | | |
| | ROADTEC | | | | | | | | | | | | | | | | | | | | |
| | A30RT001 | SB-1500 | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 15 TON HOPPER, 600 TPH, 65" WIDE CONVEYOR, WHEEL | 300 HP D-off | | \$447,621 | 104.20 | 20.31 | 33.70 | 3.46 | 19.90 | 672 | | | | | | | | | |
| | A30RT007 | SB-2500E | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 25 TON HOPPER, 1000 TPH, 69" WIDE CONVEYOR, WHEEL | 300 HP D-off | | \$489,038 | 108.45 | 22.94 | 38.31 | 3.78 | 19.90 | 780 | | | | | | | | | |
| | WEILER | | | 115 HP D-off | | \$162,881 | 36.81 | 7.72 | 12.92 | 1.26 | 7.63 | 203 | | | | | | | | | |
| | A30WR001 | E650B | ASPHALT PAVER, ASPHALT MATERIAL WINDROW ELEVATOR, 121" CONVEYOR WIDTH | | | | | | | | | | | | | | | | | | |
| | A30WR002 | E2850 | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 25 TON HOPPER, 600 TPH, 30" CONVEYOR WIDTH, WHEEL | 300 HP D-off | | \$462,931 | 106.52 | 21.13 | 35.09 | 3.58 | 19.90 | 745 | | | | | | | | | |
| A35 ASPHALT PAVING KETTLES | | | | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 ASPHALT PAVING KETTLES | | | 5 HP G | | \$5,313 | 4.08 | 0.34 | 0.60 | 0.04 | 0.64 | 9 | | | | | | | | | |
| | MARATHON EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| | A35AE001 | KEB-80T | ASPHALT/PAVEMENT KETTLE, 80 GAL, TRAILER W/PUMP & HOSE | | | | | | | | | | | | | | | | | | |
| | A35AE002 | KEB-115T | ASPHALT/PAVEMENT KETTLE, 115 GAL, TRAILER W/PUMP & HOSE | 5 HP G | | \$5,891 | 5.03 | 0.43 | 0.75 | 0.05 | 0.64 | 11 | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|------------|---|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| A35 | <i>MARATHON EQUIPMENT (continued)</i> | | | 5 HP G | | \$7,769 | 5.90 | 0.56 | 1.00 | 0.06 | 0.64 | 15 | | |
| | A35AE003 | KEB-170T | ASPHALT/PAVEMENT KETTLE, 170 GAL, TRAILER W/PUMP & HOSE | | | | | | | | | | | |
| | A35AE004 | KEB-260T | ASPHALT/PAVEMENT KETTLE, 260 GAL, TRAILER W/PUMP & HOSE | | | | | | | | | | | |
| | A35AE005 | KEB-350T | ASPHALT/PAVEMENT KETTLE, 350 GAL, TRAILER W/PUMP & HOSE | | | | | | | | | | | |
| A40 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | | |
| | A40CA001 | PM102 | ASPHALT COLD PLANER, 75" W X 10" D, CRAWLER (ADD CUTTING TEETH COSTS) | | | \$410,774 | 155.89 | 30.73 | 54.77 | 3.34 | 21.67 | 282 | | |
| | A40CA008 | PM-200 | ASPHALT COLD PLANER, 75" W X 10" D, CRAWLER (ADD CUTTING TEETH COSTS) | | | | | | | | | | | |
| | A40CA009 | PM-201 | ASPHALT COLD PLANER, 83" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | | | | | | | | | | | |
| | TEREX - CMI (TEREX ROADBUILDING) | | | | | \$788,465 | 322.81 | 58.99 | 105.13 | 6.42 | 62.60 | 735 | | |
| | A40CW001 | PR-950 | ASPHALT PROFILER, MAX 12.5' W X 15" D, CRAWLER (ADD CUTTING TEETH COSTS) | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | ROADTEC | | | | | | | | | | | |
| | A40RT008 | RX-400E | ASPHALT COLD PLANER, 40" W X 10" D, WHEEL (ADD CUTTING TEETH COSTS) | 325 HP | D-off | \$424,515 | 171.11 | 31.76 | 56.60 | 3.46 | 31.30 | 470 |
| | A40RT009 | RX-400E | ASPHALT COLD PLANER, 52" W X 8" D, CRAWLER (ADD CUTTING TEETH COSTS) | 325 HP | D-off | \$432,501 | 173.67 | 32.36 | 57.67 | 3.52 | 31.30 | 470 |
| | A40RT010 | RX-600E | ASPHALT COLD PLANER, 78" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 620 HP | D-off | \$538,793 | 239.60 | 40.31 | 71.84 | 4.39 | 59.71 | 592 |
| | A40RT011 | RX-700E | ASPHALT COLD PLANER, 98" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 700 HP | D-off | \$628,580 | 277.00 | 47.03 | 83.81 | 5.12 | 67.41 | 840 |
| | A40RT012 | RX-900E | ASPHALT COLD PLANER, 150" W X 8" D, CRAWLER (ADD CUTTING TEETH COSTS) | 700 HP | D-off | \$752,028 | 316.54 | 56.26 | 100.27 | 6.12 | 67.41 | 920 |
| A45 ASPHALT RECYCLERS & SEALERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 ASPHALT RECYCLERS & SEALERS | | | | | | | | | | | |
| | MARATHON EQUIPMENT | | | | | | | | | | | |
| | A45AE001 | HEPR-52V | ASPHALT RESURFACER-PATCHER, 4' WIDE, 17.3 SF, 600,000 BTU INFRA-RED HEATER, TRAILER MTD | | | \$13,469 | 11.91 | 1.16 | 2.10 | 0.11 | 0.00 | 11 |
| | A45AE002 | HEPR-96V | ASPHALT RESURFACER-PATCHER, 8' WIDE, 32.0 SF, 1,200,000 BTU INFRA-RED HEATER, TRAILER MTD | | | \$20,760 | 21.61 | 1.78 | 3.21 | 0.17 | 0.00 | 16 |
| | A45AE003 | IPRS96V | ASPHALT RESURFACER-PATCHER, 10' WIDE, 40.0 SF, 1,420,000 BTU INFRA-RED HEATER, TRAILER MTD | | | \$47,223 | 33.78 | 4.11 | 7.44 | 0.39 | 0.00 | 17 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|----------------------------------|---|-------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| ROSCO, A LeeBoy COMPANY | | | | | | | | | | | | |
| A45RS001 | RA-2000 | ASPHALT SPRAY PATCHER, 300 GAL, ARTICULATED BOOM - 17' R, TRAILER MTD | 74 HP D-off | | | \$79,056 | 34.49 | 6.94 | 12.56 | 0.66 | 4.91 | 60 |
| A45RS002 | RA-400 | ASPHALT SPRAY PATCHER, 400 GAL, TELESCOPIC BOOM - 22' EXT, TRUCK MTD | 67 HP D-off | 245 HP D-on | | \$206,477 | 97.74 | 18.24 | 33.04 | 1.72 | 20.13 | 179 |
| SEALMASTER, INC. | | | | | | | | | | | | |
| A45SE003 | SP300 DUAL | ASPHALT SEALCOATER, 320 GAL, 75 GPM, 108" WIDE DUAL SPRAY, SQUEEGEE, SELF PROPELLED | 30 HP D-off | | | \$47,875 | 21.47 | 4.19 | 7.58 | 0.40 | 1.99 | 38 |
| A45SE004 | TR-1000 | ASPHALT SEALCOATER, 1000 GAL, 50 GPM, 88" WIDE SPRAY BAR, TRAILER MTD | 13 HP G | | | \$29,588 | 12.76 | 2.48 | 4.45 | 0.25 | 1.67 | 52 |
| B10 BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | |
| | SUBCATEGORY 0.20 CONCRETE | | | | | | | | | | | |
| | CEMEN TECH | | | | | | | | | | | |
| | B10CC015 | CT270 BATCH PLANT, SILO, CEMENT, 50 TON, HORIZONTAL, 270 BARREL (BATCH PLANT ATTACHMENT) | 16 HP E | | | \$22,674 | 7.55 | 1.05 | 1.74 | 0.18 | 1.01 | 85 |
| | B10CC007 | MCD2-50HT BATCH PLANT, CONCRETE DISPENSER, 15 CY/HR MAX, W/TWO AGGREGATE BINS, 2 CY/ 1 CY CEMENT BIN/ 7' LONG SLOPING 8" DIA SCREW WET MIXER/DELIVERER/ 250 GAL WATER TANK/ & METERING PUMP, 2 CY LOAD, TRAILER MTD | 18 HP G | | | \$72,505 | 23.06 | 4.12 | 7.09 | 0.57 | 2.32 | 80 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|-------------------------------|------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>B10</i> | <i>CEMEN TECH (continued)</i> | | | | | | | | | | | |
| | B10CC008 | MCD5-100 | BATCH PLANT, CONCRETE DISPENSER, 30 CY/HR MAX, W/TWO AGGREGATE BINS, 5.5 CY/ 1.9 CY CEMENT BIN/ 9' LONG SLOPING 9" DIA SCREW WET MIXER/DELIVERER/ 250 GAL WATER TANK/ & METERING PUMP, 5 CY LOAD, TRUCK MTD | 163 HP | G | \$66,020 | 43.28 | 3.49 | 5.94 | 0.52 | 20.97 | 132 |
| | B10CC009 | MCD8-100 | BATCH PLANT, CONCRETE DISPENSER, 30 CY/HR MAX, W/TWO AGGREGATE BINS, 9.3 CY/ 3.1 CY CEMENT BIN/ 9' LONG SLOPING 12" DIA SCREW WET MIXER/DELIVERER/ 250 GAL WATER TANK/ & METERING PUMP, 8 CY LOAD, TRUCK MTD | 200 HP | G | \$80,027 | 52.33 | 4.23 | 7.20 | 0.63 | 25.72 | 194 |
| | B10CC010 | MCD8-150 | BATCH PLANT, CONCRETE DISPENSER, 60 CY/HR MAX, W/TWO AGGREGATE BINS, 9.6 CY/ 3.1 CY CEMENT BIN/ 9' LONG SLOPING 12" DIA SCREW WET MIXER/DELIVERER/ 250 GAL WATER TANK/ & METERING PUMP, 8 CY LOAD, TRUCK MTD | 200 HP | G | \$88,346 | 54.60 | 4.79 | 8.17 | 0.70 | 25.72 | 204 |
| | B10CC012 | MT-200LP | BATCH PLANT, SILO, CEMENT, 800 CF, 200 BARREL (BATCH PLANT ATTACHMENT) | 18 HP | G | \$25,628 | 9.59 | 1.48 | 2.56 | 0.20 | 2.32 | 35 |
| | B10CC013 | MT-300LP | BATCH PLANT, SILO, CEMENT, 1,200 CF, 300 BARREL (BATCH PLANT ATTACHMENT) | 18 HP | G | \$33,558 | 11.56 | 1.94 | 3.36 | 0.26 | 2.32 | 48 |
| | B10CC014 | 6" LOADING AUGER | BATCH PLANT, CEMENT LOADING AUGER, 6" DIA, 19' LONG (BATCH PLANT ATTACHMENT) | 5 HP | E | \$5,912 | 2.41 | 0.35 | 0.59 | 0.05 | 0.32 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|----------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | B10CL025 | MTM 12 | CON-E-CO BATCH PLANT, CONCRETE MIXER, 12 CY, TILT DRUM, 11.67' DIA, REMOVABLE AXLES, TRAILER MTD (ADD DRY BATCH PLANT) | 200 HP | E | \$502,388 | 140.26 | 29.01 | 50.07 | 3.97 | 12.61 | 130 |
| | B10CL021 | VERSA-PLANT 10 | BATCH PLANT, CONCRETE AGGREGATE DRY, 40CY/HR, 10 CY AGGREGATE BATCHER, W/30" X 40' LOADING CONVEYOR, SCALES & WATER METER INCLUDED, TRAILER MTD (ADD 5 KW GENERATOR, WATER TANK & WET BATCHER) | 35 HP | E | \$98,949 | 26.90 | 5.50 | 9.44 | 0.78 | 2.21 | 190 |
| | B10CL015 | PLP MODEL 12 | BATCH PLANT, CONCRETE AGGREGATE DRY, 200 CY/HR, W/TWO AGGREGATE BINS, 81 TON, 60 CY/ 36"X20' CONVEYOR/ 3 BIN 12 CY AGGREGATE BATCHER/ 30"X33.5' LOADING CONVEYOR/ & 475 BARREL, 88 TON CEMENT SILO, TRAILER MTD (ADD 110 KW GENERATOR) | 30 HP | E | \$290,372 | 75.03 | 16.45 | 28.32 | 2.29 | 1.89 | 380 |
| | B10CL006 | LO-PRO 12 | BATCH PLANT, CONCRETE AGGREGATE DRY, 275 CY/HR, W/TWO AGGREGATE BINS, 65 TON, 50 CY/ 36"X20' CONVEYOR/ 12 CY AGGREGATE BATCHER/ 36"X36' LOADING CONVEYOR/ & 215 BARREL, 35 TON CEMENT SILO, TRAILER MTD (ADD 140 KW GENERATOR) | 120 HP | E | \$254,447 | 74.26 | 14.34 | 24.66 | 2.01 | 7.57 | 426 |
| | B10CL027 | SILO1910 | BATCH PLANT, CEMENT SILO, 1,910 CF, 475 BARREL (BATCH PLANT ATTACHMENT) | | | \$46,727 | 11.31 | 2.71 | 4.67 | 0.37 | 0.00 | 144 |
| | B10CL042 | SC6D-10 | BATCH PLANT, SCREW CONVEYOR, 6" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 5 HP | E | \$4,630 | 1.60 | 0.27 | 0.46 | 0.04 | 0.32 | 5 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|-----------------------------|------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| B10 | <i>CON-E-CO (continued)</i> | | | | | | | | | | | |
| | B10CL045 | SC6D-20 | BATCH PLANT, SCREW CONVEYOR, 6" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 10 HP | E | \$6,233 | 2.45 | 0.36 | 0.62 | 0.05 | 0.63 | 11 |
| | B10CL036 | SC9D-10 | BATCH PLANT, SCREW CONVEYOR, 9" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 8 HP | E | \$5,080 | 1.98 | 0.30 | 0.51 | 0.04 | 0.50 | 9 |
| | B10CL040 | SC9D-20 | BATCH PLANT, SCREW CONVEYOR, 9" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 20 HP | E | \$6,989 | 3.58 | 0.41 | 0.70 | 0.06 | 1.26 | 16 |
| | B10CL032 | SC12D-10 | BATCH PLANT, SCREW CONVEYOR, 12" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 10 HP | E | \$6,071 | 2.41 | 0.36 | 0.61 | 0.05 | 0.63 | 10 |
| | B10CL034 | SC12D-20 | BATCH PLANT, SCREW CONVEYOR, 12" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 20 HP | E | \$12,135 | 4.82 | 0.71 | 1.21 | 0.10 | 1.26 | 20 |
| | EXCEL MACHINERY LTD. | | | | | | | | | | | |
| | B10EM001 | EXCEL PORT-A-PUG | BATCH PLANT, CONCRETE CONTINUOUS PUGG MILL MIXER, 400 CY/HR MAX, W/12 CY AGGREGATE STORAGE BIN/ 48"X18" METERING CONVEYOR/ CEMENT SILO, 44 TON, 34.8 CY/ 30" X 37' CONVEYOR, TRAILER MTD (ADD 200 KW GENERATOR) | 25 HP | G | \$504,950 | 127.35 | 28.57 | 49.16 | 3.99 | 3.22 | 590 |
| | B10EM002 | BELGRADE 350 BBL | BATCH PLANT, CEMENT SILO, 45 TON HORIZONTAL 350 BARREL (BATCH PLANT ATTACHMENT) | 10 HP | E | \$33,732 | 10.04 | 1.92 | 3.30 | 0.27 | 0.63 | 45 |
| | B10EM003 | BELGRADE 550 | BATCH PLANT, CEMENT SILO, 2,200 CF (BARREL CAP 550 MAX / 450 MIN) W/DRIVE-THRU TYPE UNDERSTRUCTURE (BATCH PLANT ATTACHMENT) | | | \$35,555 | 8.61 | 2.06 | 3.56 | 0.28 | 0.00 | 222 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|-------------|--|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | | | | | | | | | | |
| | | | JOHNSON-ROSS (TEREX ROADBUILDING) | | | | | | | | | |
| B10RC007 | BANDIT 5 | | BATCH PLANT, CONCRETE AGGREGATE DRY, 100 CY/HR, W/TWO AGGREGATE BINS, 65 TON, 48 CY/ 36" X 20' CONVEYOR/ 2 BIN 5 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 257 BARREL, 48 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 15 HP | E | \$165,185 | 43.66 | 9.43 | 16.25 | 1.30 | 0.95 | 3,000 |
| B10RC032 | RUSTLER III | | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/TWO AGGREGATE BINS, 28 TON, 21 CY/ 2 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 400 BARREL, 75 TON CEMENT SILO, TRAILER MTD (ADD 130 KW GENERATOR) | 50 HP | E | \$246,884 | 68.30 | 13.89 | 23.88 | 1.95 | 3.15 | 536 |
| B10RC006 | RUSTLER II | | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/3 AGGREGATE BINS, 71 TON, 52 CY/ 36" X 20' CONVEYOR/ 3 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ 375 BARREL, 70 TON CEMENT SILO, TRAILER MTD (ADD 130KW GENERATOR) | 46 HP | E | \$223,956 | 62.35 | 12.58 | 21.62 | 1.77 | 2.87 | 489 |
| B10RC008 | BANDIT B12 | | BATCH PLANT, CONCRETE AGGREGATE DRY, 200 CY/HR, W/THREE AGGREGATE BINS, 65 TON, 48 CY/ 36" X 20' CONVEYOR/ 3 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 720 BARREL, 134 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 30 HP | E | \$288,385 | 74.71 | 16.44 | 28.32 | 2.28 | 1.89 | 250 |
| B10RC027 | MIX4.5 | | BATCH PLANT, CONCRETE MIXER, 4.5 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 40 HP | E | \$171,256 | 47.21 | 9.92 | 17.13 | 1.35 | 2.52 | 34 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|--------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>B10</i> | <i>JOHNSON-ROSS (TEREX ROADBUILDING) (continued)</i> | | | | | | | | | | | |
| | B10RC028 | MIX6.0 | BATCH PLANT, CONCRETE MIXER, 6.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 60 HP | E | \$192,381 | 54.45 | 11.14 | 19.24 | 1.52 | 3.78 | 45 |
| | B10RC029 | MIX8.0 | BATCH PLANT, CONCRETE MIXER, 8.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 80 HP | E | \$217,439 | 62.64 | 12.59 | 21.74 | 1.72 | 5.04 | 60 |
| | B10RC030 | MIX10.0 | BATCH PLANT, CONCRETE MIXER, 10.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 100 HP | E | \$236,921 | 70.50 | 13.72 | 23.69 | 1.87 | 6.31 | 75 |
| | B10RC031 | MIX12.0 | BATCH PLANT, CONCRETE MIXER, 12.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 120 HP | E | \$250,144 | 75.82 | 14.48 | 25.01 | 1.97 | 7.57 | 90 |
| | B10RC016 | MOBILE MIXER | BATCH PLANT, CONCRETE MIXER, 4.5CY, TILT DRUM TYPE, REVOLVING LIFT STAND, TRAILER MTD (ADD DRY BATCH PLANT & POWER) | 75 HP | E | \$275,749 | 78.65 | 15.57 | 26.77 | 2.18 | 4.73 | 420 |
| | STEPHENS MANUFACTURING CO., INC. | | | | | | | | | | | |
| | B10SN031 | DC-12 | BATCH PLANT, CONCRETE AGGREGATE DRY, 100 CY/HR, W/2 BIN 12 CY BATCHER/ 24" X 41' LOADING CONVEYOR/ & 311 BARREL, 58 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 25 HP | E | \$87,056 | 24.16 | 4.66 | 7.94 | 0.69 | 1.58 | 340 |
| | B10SN033 | DC COLT | BATCH PLANT, CONCRETE AGGREGATE DRY, 100 CY/HR, W/2 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 311 BARREL, 58 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 30 HP | E | \$167,441 | 44.24 | 9.32 | 16.00 | 1.32 | 1.89 | 340 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|---------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>B10</i> | <i>STEPHENS MANUFACTURING CO., INC. (continued)</i> | | | 45 HP E | | \$195,712 | 52.71 | 10.94 | 18.79 | 1.54 | 2.84 | 420 |
| | B10SN032 | MUSTANG | BATCH PLANT, CONCRETE AGGREGATE DRY, 150 CY/HR, W/3 AGGREGATE STORAGE BINS, 70 TON, 14 CY BATCHER, 30" X 33.5' LOADING CONVEYOR, TRAILER MTD (ADD 115 KW GENERATOR) | | | | | | | | | |
| | B10SN034 | STALLION | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/3 AGGREGATE BIN STORAGE, 70 TON, 48 CY/ 2 BIN 10 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 374 BARREL, 70 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | | | | \$186,371 | 47.85 | 10.40 | 17.86 | 1.47 | 1.26 |
| | B10SN035 | THOROUGH-BRED | BATCH PLANT, CONCRETE AGGREGATE DRY, 180 CY/HR, W/4 AGGREGATE BIN STORAGE, 65 TON, 48 CY/ 2 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 374 BARREL, 70 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 30 HP E | | \$196,243 | 51.32 | 10.97 | 18.84 | 1.55 | 1.89 | 300 |
| | SUBCATEGORY 0.30 PUGMILL | | | 130 HP E | | \$355,875 | 81.31 | 16.64 | 27.78 | 2.75 | 8.20 | 371 |
| | B10KJ001 | 52 PORTABLE PUGMILL | KPI-JCI BATCH PLANT, PUGMILL, TWO 12' LONG X 6' WIDE 9 CY HOPPERS WITH 30" X 10' 9" BELT FEEDER, 48" WIDE X 6' LONG TWIN PUGMILL, WALKWAY, TANDEM AXLE CHASSIS | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|-----------|---------------------|-------|-------|------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>B10</i> | <i>KPI-JCI (continued)</i> | | | | | | | | | | | |
| | B10KJ002 | 52S PORTABLE PUGMILL | BATCHPLANT, PUGMILL, TWO 14' LONG X 7' WIDE 15 CY PRIMARY HOPPERS WITH 36" WIDE X 36' LONG BELT FEEDERS, 4' WIDE X 8' LONG TWIN SHAFT PUGMILL, WALKWAY, TANDEM AXLE CHASSIS, UP TO 500 TONS PER HOUR (ADD 200 KW GENERATOR & MATERIAL FEEDS) | 220 HP | E | \$351,811 | 88.93 | 16.42 | 27.39 | 2.72 | 13.87 | 444 |
| B15 BROOMS, STREET SWEEPERS & FLUSHERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 BROOMS, STREET SWEEPERS & FLUSHERS | | | | | | | | | | | |
| | BROCE MANUFACTURING COMPANY | | | | | | | | | | | |
| | B15BM001 | RJT-350 | BROOM, 8' BROOM PATH, PAVEMENT, SELF PROPELLED | 80 HP | D-on | \$57,915 | 20.57 | 3.69 | 6.52 | 0.43 | 6.62 | 50 |
| | ELGIN SWEEPER COMPANY | | | | | | | | | | | |
| | B15EC002 | PELICAN P DUAL | STREET SWEEPER, 10' BROOM PATH, 3.5 CY HOPPER, 180 GAL WATER TANK, SELF PROPELLED | 100 HP | D-off | \$192,357 | 51.06 | 12.13 | 21.41 | 1.42 | 6.63 | 128 |
| | B15EC001 | EAGLE F | STREET SWEEPER, 10' BROOM PATH, 4.5 CY HOPPER, 280 GAL WATER TANK, DUAL ENGINE, SELF PROPELLED | 49 HP | D-off | 170 HP | D-on | \$284,134 | 71.23 | 17.89 | 31.57 | 2.10 |
| | B15EC003 | BROOM BEAR FL42H | STREET SWEEPER, 12' BROOM PATH, 4.5 CY HOPPER, 350 GAL WATER TANK, SELF PROPELLED | 230 HP | D-on | \$274,353 | 83.68 | 17.27 | 30.47 | 2.03 | 19.04 | 213 |
| | B15EC004 | MEGAWIND | STREET SWEEPER AND CATCH BASIN CLEANER, 12' BROOM PATH, 13 CY HOPPER, 335 GAL WATER TANK, SELF PROPELLED | 115 HP | D-on | 230 HP | D-on | \$290,051 | 80.58 | 18.46 | 32.63 | 2.14 |
| | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--------------------------------|-----------------|---|-------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| LAYMOR SWEEPERS | | | | | | | | | | | | |
| B15LS001 | SWEEPMASTER 300 | BROOM, 8' BROOM PATH, PAVEMENT, SELF PROPELLED | 25 HP | D-on | | \$26,128 | 8.23 | 1.64 | 2.89 | 0.19 | 2.05 | 30 |
| B15LS002 | SWEEPMASTER 400 | BROOM, 100" BROOM PATH, PAVEMENT, W/SPRINKLER AND 180 GAL WATER TANK, SELF PROPELLED | 74 HP | D-on | | \$51,357 | 18.53 | 3.24 | 5.71 | 0.38 | 6.12 | 48 |
| M-B COMPANIES, INC. | | | | | | | | | | | | |
| B15MB001 | MT-AR | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, PTO DRIVE (ADD 45-100 HP TRACTOR) | | | | \$7,892 | 1.89 | 0.51 | 0.89 | 0.06 | 0.00 | 10 |
| B15MB002 | HT | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, PTO DRIVE (ADD 45-100 HP TRACTOR) | | | | \$7,601 | 1.87 | 0.49 | 0.86 | 0.06 | 0.00 | 12 |
| B15MB003 | 53T | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, TOWED, HYDRAULIC (ADD TOWING UNIT) | | | | \$16,526 | 3.99 | 1.05 | 1.86 | 0.12 | 0.00 | 18 |
| B15MB004 | 53MH | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, TOWED (ADD TOWING UNIT) | 24 HP | G | | \$24,764 | 9.01 | 1.56 | 2.75 | 0.18 | 3.09 | 17 |
| ROSCO, A LeeBoy COMPANY | | | | | | | | | | | | |
| B15RS005 | CHALLENGER 6 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 150 GAL WATER TANK, SELF PROPELLED | 74 HP | D-on | | \$67,609 | 22.21 | 4.27 | 7.53 | 0.50 | 6.12 | 75 |
| B15RS001 | RB-48 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 150 GAL WATER TANK, SELF PROPELLED | 74 HP | D-on | | \$53,412 | 18.98 | 3.37 | 5.96 | 0.39 | 6.12 | 56 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | TERRAMITE CONSTRUCTION EQUIPMENT | | | | | | | | | | | |
| | B15TB001 | TSS46 | STREET SWEEPER, 6' BROOM PATH, W/SPRINKLER AND 2 - 50 GAL WATER TANKS, SELF PROPELLED | 37 HP | D-off | \$24,716 | 8.37 | 1.53 | 2.69 | 0.18 | 2.45 | 34 |
| | B15TB002 | TSS48 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 2 - 50 GAL WATER TANKS, SELF PROPELLED | 37 HP | D-off | \$24,862 | 8.40 | 1.54 | 2.71 | 0.18 | 2.45 | 34 |
| B20 | BRUSH CHIPPERS | | | | | | | | | | | |
| | SUBCATEGORY 0.00 BRUSH CHIPPERS | | | | | | | | | | | |
| | BANDIT INDUSTRIES, INC. | | | | | | | | | | | |
| | B20BN001 | 65XP | BRUSH CHIPPER, 6" CAPACITY, DISC TYPE, TRAILER MTD | 27 HP | G | \$13,615 | 7.21 | 0.86 | 1.51 | 0.10 | 3.47 | 19 |
| | B20BN002 | 90XP | BRUSH CHIPPER, 9" CAPACITY, DISC TYPE, TRAILER MTD | 49 HP | D-off | \$22,620 | 9.07 | 1.43 | 2.52 | 0.17 | 3.25 | 44 |
| | B20BN003 | 200XP | BRUSH CHIPPER, 12" CAPACITY, DISC TYPE, TRAILER MTD | 85 HP | G | \$41,926 | 22.51 | 2.66 | 4.69 | 0.31 | 10.93 | 58 |
| | B20BN005 | 1390XP | BRUSH CHIPPER, 13" CAPACITY, DRUM TYPE, TRAILER MTD | 130 HP | G | \$44,335 | 29.69 | 2.81 | 4.96 | 0.33 | 16.72 | 66 |
| | B20BN006 | 1590XP | BRUSH CHIPPER, 17" CAPACITY, DRUM TYPE, TRAILER MTD | 213 HP | D-off | \$65,651 | 31.61 | 4.17 | 7.36 | 0.49 | 14.13 | 87 |
| | B20BN007 | 1890XP | BRUSH CHIPPER, 18" CAPACITY, DRUM TYPE, TRAILER MTD | 173 HP | D-off | \$67,589 | 29.09 | 4.27 | 7.53 | 0.50 | 11.48 | 97 |
| | MORBARK, INC. | | | | | | | | | | | |
| | B20MQ001 | M12R | BRUSH CHIPPER, 12" CAPACITY, DRUM TYPE, TRAILER MTD | 130 HP | D-on | \$49,618 | 23.99 | 3.15 | 5.55 | 0.37 | 10.76 | 55 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|-------------------------------------|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>B20</i> | <i>MORBARK, INC. (continued)</i> | | | | | | | | | | | |
| | B20MQ003 | M15R | BRUSH CHIPPER, 15" CAPACITY, DRUM TYPE, TRAILER MTD | 174 HP | D-off | \$60,829 | 27.52 | 3.83 | 6.75 | 0.45 | 11.54 | 89 |
| | B20MQ004 | M18R | BRUSH CHIPPER, 18" CAPACITY, DRUM TYPE, TRAILER MTD | 275 HP | D-off | \$76,390 | 38.73 | 4.76 | 8.40 | 0.56 | 18.24 | 110 |
| | B20MQ005 | M20R | BRUSH CHIPPER, LOG CHIPPER, 20" CAPACITY, DISC TYPE, TRAILER MTD | 400 HP | D-off | \$160,030 | 69.64 | 10.09 | 17.81 | 1.18 | 26.54 | 147 |
| B25 | BUCKETS, CLAMSHELL | | | | | | | | | | | |
| | SUBCATEGORY 0.00 BUCKETS, CLAMSHELL | | | | | | | | | | | |
| | HAWCO (ANVIL ATTACHMENTS) | | | | | | | | | | | |
| | B25HB001 | MWRH-050 | BUCKET, CLAMSHELL, 0.5 CY, HEAVY DUTY/DIGGING | | | \$26,161 | 5.56 | 1.66 | 2.94 | 0.19 | 0.00 | 30 |
| | B25HB003 | MWRH-100 | BUCKET, CLAMSHELL, 1.0 CY, HEAVY DUTY/DIGGING | | | \$28,396 | 6.04 | 1.81 | 3.19 | 0.21 | 0.00 | 48 |
| | B25HB005 | MWRH-150 | BUCKET, CLAMSHELL, 1.5 CY, HEAVY DUTY/DIGGING | | | \$29,823 | 6.35 | 1.90 | 3.36 | 0.22 | 0.00 | 66 |
| | B25HB007 | MWRH-200 | BUCKET, CLAMSHELL, 2.0 CY, HEAVY DUTY/DIGGING | | | \$35,688 | 7.59 | 2.27 | 4.01 | 0.26 | 0.00 | 78 |
| | B25HB008 | MWRH-250 | BUCKET, CLAMSHELL, 2.5 CY, HEAVY DUTY/DIGGING | | | \$36,865 | 7.85 | 2.35 | 4.15 | 0.27 | 0.00 | 91 |
| | B25HB009 | MWRH-300 | BUCKET, CLAMSHELL, 3.0 CY, HEAVY DUTY/DIGGING | | | \$38,635 | 8.23 | 2.47 | 4.35 | 0.29 | 0.00 | 103 |
| | B25HB010 | MWRH-350 | BUCKET, CLAMSHELL, 3.5 CY, HEAVY DUTY/DIGGING | | | \$44,728 | 9.52 | 2.85 | 5.03 | 0.33 | 0.00 | 131 |
| | B25HB011 | MWRH-400 | BUCKET, CLAMSHELL, 4.0 CY, HEAVY DUTY/DIGGING | | | \$46,691 | 9.94 | 2.98 | 5.25 | 0.35 | 0.00 | 145 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|--|--|--|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| B25 | <i>HAWCO (ANVIL ATTACHMENTS) (continued)</i> | | | | | \$47,545 | 10.12 | 3.03 | 5.35 | 0.35 | 0.00 | 165 | | | | | | | | | |
| | B25HB012 | MWRH-450 | BUCKET, CLAMSHELL, 4.5 CY, HEAVY DUTY/DIGGING | | | | | | | | | | | | | | | | | | |
| | B25HB013 | MWHR-500 | BUCKET, CLAMSHELL, 5.0 CY, HEAVY DUTY/DIGGING | | | | | | | | | | | | | | | | | | |
| | B25HB014 | MWRH-550 | BUCKET, CLAMSHELL, 5.5 CY, HEAVY DUTY/DIGGING | | | | | | | | | | | | | | | | | | |
| | B25HB015 | MWRH-600 | BUCKET, CLAMSHELL, 6.0 CY, HEAVY DUTY/DIGGING | | | \$55,224 | 11.76 | 3.52 | 6.21 | 0.41 | 0.00 | 199 | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | | | | | | | | |
| | B25XX001 | 1/4SSN | BUCKET, CLAMSHELL, 0.2 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX002 | 1/2SSN | BUCKET, CLAMSHELL, 0.5 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX003 | 3/4SSN | BUCKET, CLAMSHELL, 0.7 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX004 | 1SSN | BUCKET, CLAMSHELL, 1.0 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX005 | 1-1/4SSN | BUCKET, CLAMSHELL, 1.2 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX006 | 1-1/2SSN | BUCKET, CLAMSHELL, 1.5 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX007 | 1-3/4SSN | BUCKET, CLAMSHELL, 1.7 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |
| | B25XX008 | 2SSN | BUCKET, CLAMSHELL, 2.0 CY, SQUARE NOSE, STANDARD | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>B25</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | \$38,931 | 8.29 | 2.48 | 4.38 | 0.29 | 0.00 | 92 | |
| | B25XX009 | 2-1/2SSN | BUCKET, CLAMSHELL, 2.5 CY, SQUARE NOSE, STANDARD | | | | \$41,130 | 8.76 | 2.62 | 4.63 | 0.30 | 0.00 | 98 |
| | B25XX010 | 3SSN | BUCKET, CLAMSHELL, 3.0 CY, SQUARE NOSE, STANDARD | | | | \$44,742 | 9.52 | 2.85 | 5.03 | 0.33 | 0.00 | 108 |
| | B25XX011 | 3-1/2SSN | BUCKET, CLAMSHELL, 3.5 CY, SQUARE NOSE, STANDARD | | | | \$48,670 | 10.37 | 3.10 | 5.48 | 0.36 | 0.00 | 119 |
| | B25XX012 | 4SSN | BUCKET, CLAMSHELL, 4.0 CY, SQUARE NOSE, STANDARD | | | | \$57,768 | 12.30 | 3.68 | 6.50 | 0.43 | 0.00 | 145 |
| | B25XX013 | 4-1/2SSN | BUCKET, CLAMSHELL, 4.5 CY, SQUARE NOSE, STANDARD | | | | \$60,887 | 12.96 | 3.88 | 6.85 | 0.45 | 0.00 | 154 |
| | B25XX014 | 5SSN | BUCKET, CLAMSHELL, 5.0 CY, SQUARE NOSE, STANDARD | | | | \$62,268 | 13.26 | 3.97 | 7.01 | 0.46 | 0.00 | 158 |
| | B25XX015 | 5-1/2SSN | BUCKET, CLAMSHELL, 5.5 CY, SQUARE NOSE, STANDARD | | | | \$64,826 | 13.80 | 4.13 | 7.29 | 0.48 | 0.00 | 166 |
| | B25XX016 | 6SSN | BUCKET, CLAMSHELL, 6.0 CY, SQUARE NOSE, STANDARD | | | | \$68,791 | 14.65 | 4.38 | 7.74 | 0.51 | 0.00 | 177 |
| | B25XX017 | 6-1/2SSN | BUCKET, CLAMSHELL, 6.5 CY, SQUARE NOSE, STANDARD | | | | \$72,232 | 15.38 | 4.60 | 8.13 | 0.53 | 0.00 | 185 |
| | B25XX018 | 7SSN | BUCKET, CLAMSHELL, 7.0 CY, SQUARE NOSE, STANDARD | | | | \$74,641 | 15.89 | 4.75 | 8.40 | 0.55 | 0.00 | 192 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------------------------|--|--|---------------------------------|------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | AVERAGE | STANDBY | DEPR | FCCM | | |
| B30 BUCKETS, CONCRETE | | | | | | | | | | | |
| | SUBCATEGORY 0.10 GENERAL PURPOSE, MANUAL TRIP | | | | | | | | | | |
| | GAR-BRO MANUFACTURING COMPANY | | | | | | | | | | |
| B30GB018 | 413-G | BUCKET, CONCRETE, GENERAL PURPOSE, 0.5 CY | | | \$3,776 | 0.83 | 0.26 | 0.45 | 0.03 | 0.00 | 4 |
| B30GB001 | 433-G | BUCKET, CONCRETE, GENERAL PURPOSE, 1.0 CY | | | \$4,621 | 1.01 | 0.31 | 0.55 | 0.03 | 0.00 | 6 |
| B30GB002 | 442-G | BUCKET, CONCRETE, GENERAL PURPOSE, 1.5 CY | | | \$5,978 | 1.31 | 0.40 | 0.71 | 0.04 | 0.00 | 8 |
| B30GB003 | 462-G | BUCKET, CONCRETE, GENERAL PURPOSE, 2.0 CY | | | \$7,382 | 1.62 | 0.49 | 0.88 | 0.05 | 0.00 | 10 |
| B30GB004 | 493-G | BUCKET, CONCRETE, GENERAL PURPOSE, 3.0 CY | | | \$10,680 | 2.34 | 0.72 | 1.27 | 0.08 | 0.00 | 14 |
| B30GB005 | 4123-G | BUCKET, CONCRETE, GENERAL PURPOSE, 4.0 CY | | | \$12,674 | 2.78 | 0.85 | 1.51 | 0.09 | 0.00 | 18 |
| | SUBCATEGORY 0.20 LAYDOWN | | | | | | | | | | |
| | GAR-BRO MANUFACTURING COMPANY | | | | | | | | | | |
| B30GB006 | 425-A | BUCKET, CONCRETE, LAYDOWN, 1.0 CY, HEAVY DUTY AIR GATE | | | \$29,023 | 6.55 | 1.94 | 3.45 | 0.21 | 0.00 | 26 |
| B30GB007 | 465-A | BUCKET, CONCRETE, LAYDOWN, 2.0 CY, HEAVY DUTY AIR GATE | | | \$31,450 | 7.08 | 2.09 | 3.73 | 0.22 | 0.00 | 32 |
| B30GB008 | 495-A | BUCKET, CONCRETE, LAYDOWN, 3.0 CY, HEAVY DUTY AIR GATE | | | \$34,783 | 7.85 | 2.32 | 4.13 | 0.25 | 0.00 | 40 |
| B30GB009 | 4125-A | BUCKET, CONCRETE, LAYDOWN, 4.0 CY, HEAVY DUTY AIR GATE | | | \$38,622 | 8.72 | 2.58 | 4.59 | 0.28 | 0.00 | 51 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|----------|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|---|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>B30</i> | | | <i>GAR-BRO MANUFACTURING COMPANY (continued)</i> | | | \$48,929 | | | | | | | |
| | B30GB010 | 4155-A | BUCKET, CONCRETE, LAYDOWN, 5.0 CY, HEAVY DUTY AIR GATE | | | | 11.03 | 3.26 | 5.81 | 0.35 | 0.00 | 73 | |
| | | | SUBCATEGORY 0.30 LOWBOY | | | | | | | | | | |
| | | | CAMLEVER | | | | | | | | | | |
| | B30CR001 | LB-375 | BUCKET, CONCRETE, LOWBOY, 0.38 CY | | | | \$3,547 | 0.83 | 0.24 | 0.42 | 0.03 | 0.00 | 2 |
| | B30CR002 | LB-050 | BUCKET, CONCRETE, LOWBOY, 0.5 CY | | | | \$3,926 | 0.92 | 0.27 | 0.47 | 0.03 | 0.00 | 2 |
| | B30CR003 | LB-075 | BUCKET, CONCRETE, LOWBOY, 0.75 CY | | | | \$4,325 | 1.00 | 0.29 | 0.51 | 0.03 | 0.00 | 3 |
| | B30CR004 | LB-100 | BUCKET, CONCRETE, LOWBOY, 1.0 CY | | | | \$4,743 | 1.09 | 0.31 | 0.56 | 0.03 | 0.00 | 5 |
| | B30CR005 | LB-150 | BUCKET, CONCRETE, LOWBOY, 1.5 CY | | | | \$5,901 | 1.37 | 0.39 | 0.70 | 0.04 | 0.00 | 6 |
| | B30CR009 | LXB-150 | BUCKET, CONCRETE, LOWBOY, 1.5 CY | | | | \$7,228 | 1.68 | 0.48 | 0.86 | 0.05 | 0.00 | 6 |
| | B30CR006 | LB-200 | BUCKET, CONCRETE, LOWBOY, 2.0 CY | | | | \$6,983 | 1.62 | 0.47 | 0.83 | 0.05 | 0.00 | 8 |
| | B30CR010 | LXB-200 | BUCKET, CONCRETE, LOWBOY, 2.0 CY | | | | \$8,650 | 2.01 | 0.58 | 1.03 | 0.06 | 0.00 | 6 |
| | B30CR011 | LXB-300 | BUCKET, CONCRETE, LOWBOY, 3.0 CY | | | | \$10,024 | 2.33 | 0.67 | 1.19 | 0.07 | 0.00 | 6 |
| | B30CR012 | LXB-400 | BUCKET, CONCRETE, LOWBOY, 4.0 CY | | | | \$12,252 | 2.84 | 0.82 | 1.45 | 0.09 | 0.00 | 6 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--------------------------|-------------------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.40 | LOW SLUMP | | | | | | | | | | |
| | | GAR-BRO MANUFACTURING COMPANY | | | | | | | | | | |
| | B30GB011 | 440-A | BUCKET, CONCRETE, LOW SLUMP, 1.0 CY, AIR GATE | | | \$18,813 | 4.36 | 1.25 | 2.23 | 0.13 | 0.00 | 20 |
| | B30GB012 | 450-A | BUCKET, CONCRETE, LOW SLUMP, 1.5 CY, AIR GATE | | | \$19,497 | 4.53 | 1.30 | 2.32 | 0.14 | 0.00 | 21 |
| | B30GB013 | 460-A | BUCKET, CONCRETE, LOW SLUMP, 2.0 CY, AIR GATE | | | \$20,224 | 4.69 | 1.34 | 2.40 | 0.14 | 0.00 | 24 |
| | B30GB014 | 493-A | BUCKET, CONCRETE, LOW SLUMP, 3.0 CY, AIR GATE | | | \$26,609 | 6.18 | 1.77 | 3.16 | 0.19 | 0.00 | 49 |
| | B30GB015 | 4139-A | BUCKET, CONCRETE, LOW SLUMP, 4.0 CY, AIR GATE | | | \$27,550 | 6.40 | 1.84 | 3.27 | 0.20 | 0.00 | 52 |
| | B30GB016 | 4200-A | BUCKET, CONCRETE, LOW SLUMP, 6.0 CY, AIR GATE | | | \$45,994 | 10.68 | 3.06 | 5.46 | 0.33 | 0.00 | 78 |
| | B30GB017 | 4250-A | BUCKET, CONCRETE, LOW SLUMP, 8.0 CY, AIR GATE | | | \$49,899 | 11.59 | 3.33 | 5.93 | 0.36 | 0.00 | 90 |
| B35 | BUCKETS, DRAGLINE | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | LIGHT WEIGHT | | | | | | | | | | |
| | | HENDRIX MANUFACTURING COMPANY, INC. | | | | | | | | | | |
| | B35HE001 | LS | BUCKET, DRAGLINE, 0.75 CY, LIGHT WEIGHT/PERFORATED | | | \$8,507 | 1.81 | 0.54 | 0.96 | 0.06 | 0.00 | 15 |
| | B35HE002 | LS | BUCKET, DRAGLINE, 1.0 CY, LIGHT WEIGHT/PERFORATED | | | \$9,971 | 2.12 | 0.63 | 1.12 | 0.07 | 0.00 | 18 |
| | B35HE003 | LS | BUCKET, DRAGLINE, 1.5 CY, LIGHT WEIGHT/PERFORATED | | | \$14,126 | 3.00 | 0.90 | 1.59 | 0.10 | 0.00 | 26 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|--|-------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>B35</i> | <i>HENDRIX MANUFACTURING COMPANY, INC. (continued)</i> | | | | | \$17,054 | 3.64 | 1.09 | 1.92 | 0.13 | 0.00 | 32 | |
| | B35HE004 | LS | BUCKET, DRAGLINE, 2.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$19,529 | 4.16 | 1.24 | 2.20 | 0.14 | 0.00 | 37 |
| | B35HE006 | LS | BUCKET, DRAGLINE, 3.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$24,353 | 5.18 | 1.55 | 2.74 | 0.18 | 0.00 | 46 |
| | B35HE007 | LS | BUCKET, DRAGLINE, 3.5 CY, LIGHT WEIGHT/PERFORATED | | | | \$26,484 | 5.64 | 1.69 | 2.98 | 0.20 | 0.00 | 50 |
| | B35HE008 | LS | BUCKET, DRAGLINE, 4.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$34,776 | 7.40 | 2.22 | 3.91 | 0.26 | 0.00 | 65 |
| | B35HE009 | LS | BUCKET, DRAGLINE, 4.5 CY, LIGHT WEIGHT/PERFORATED | | | | \$36,475 | 7.76 | 2.32 | 4.10 | 0.27 | 0.00 | 69 |
| | B35HE010 | LS | BUCKET, DRAGLINE, 5.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$42,193 | 8.98 | 2.69 | 4.75 | 0.31 | 0.00 | 85 |
| | B35HE011 | LS | BUCKET, DRAGLINE, 6.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$45,680 | 9.73 | 2.91 | 5.14 | 0.34 | 0.00 | 92 |
| | B35HE012 | LS | BUCKET, DRAGLINE, 7.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$49,964 | 10.64 | 3.18 | 5.62 | 0.37 | 0.00 | 101 |
| | B35HE013 | LS | BUCKET, DRAGLINE, 8.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$55,367 | 11.79 | 3.53 | 6.23 | 0.41 | 0.00 | 112 |
| | B35HE014 | LS | BUCKET, DRAGLINE, 9.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$63,353 | 13.49 | 4.04 | 7.13 | 0.47 | 0.00 | 128 |
| | B35HE015 | LS | BUCKET, DRAGLINE, 10.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$68,865 | 14.66 | 4.39 | 7.75 | 0.51 | 0.00 | 139 |
| | B35HE016 | LS | BUCKET, DRAGLINE, 12.0 CY, LIGHT WEIGHT/PERFORATED | | | | \$82,254 | 17.51 | 5.24 | 9.25 | 0.61 | 0.00 | 166 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|-----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| B35 | | | HENDRIX MANUFACTURING COMPANY, INC. (continued) | | | \$94,632 | 20.15 | 6.03 | 10.65 | 0.70 | 0.00 | 191 |
| | B35HE017 | LS | BUCKET, DRAGLINE, 14.0 CY, LIGHT WEIGHT/PERFORATED | | | \$61,230 | 13.03 | 3.90 | 6.89 | 0.45 | 0.00 | 15 |
| | SAUERMAN (NATIONAL OILWELL VARCO) | | | | | \$91,803 | 19.55 | 5.85 | 10.33 | 0.68 | 0.00 | 25 |
| | B35SA001 | SC-1050-K | BUCKET, DRAGLINE, 1.0 CY, CRESCENT, W/CARRIER | | | \$137,812 | 29.34 | 8.77 | 15.50 | 1.02 | 0.00 | 36 |
| | B35SA003 | SC-1070-K | BUCKET, DRAGLINE, 2.0 CY, CRESCENT, W/CARRIER | | | \$183,769 | 39.12 | 11.70 | 20.67 | 1.36 | 0.00 | 49 |
| | B35SA004 | SC-1090-K | BUCKET, DRAGLINE, 3.0 CY, CRESCENT, W/CARRIER | | | \$229,935 | 48.95 | 14.64 | 25.87 | 1.70 | 0.00 | 58 |
| | B35SA005 | SC-1100-K | BUCKET, DRAGLINE, 4.0 CY, CRESCENT, W/CARRIER | | | \$275,546 | 58.67 | 17.54 | 31.00 | 2.04 | 0.00 | 68 |
| | B35SA006 | SC-1110-K | BUCKET, DRAGLINE, 5.0 CY, CRESCENT, W/CARRIER | | | \$367,342 | 78.21 | 23.39 | 41.33 | 2.72 | 0.00 | 88 |
| | B35SA007 | SC-1120-K | BUCKET, DRAGLINE, 6.0 CY, CRESCENT, W/CARRIER | | | \$459,099 | 97.74 | 29.22 | 51.65 | 3.39 | 0.00 | 106 |
| | B35SA008 | SC-1130-K | BUCKET, DRAGLINE, 8.0 CY, CRESCENT, W/CARRIER | | | \$551,013 | 117.30 | 35.07 | 61.99 | 4.07 | 0.00 | 132 |
| | NO SPECIFIC MANUFACTURER | | | | | \$33,823 | 7.21 | 2.16 | 3.81 | 0.25 | 0.00 | 94 |
| | B35XX001 | 6-1/2L | BUCKET, DRAGLINE, 6.5 CY, LIGHT WEIGHT | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>B35</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | \$38,035 | 8.10 | 2.42 | 4.28 | 0.28 | 0.00 | 106 | |
| | B35XX002 | 7-1/2L | BUCKET, DRAGLINE, 7.5 CY, LIGHT WEIGHT | | | | \$42,055 | 8.95 | 2.68 | 4.73 | 0.31 | 0.00 | 116 |
| | B35XX004 | 9-1/2L | BUCKET, DRAGLINE, 9.5 CY, LIGHT WEIGHT | | | | \$47,961 | 10.21 | 3.05 | 5.40 | 0.35 | 0.00 | 132 |
| | B35XX005 | 11L | BUCKET, DRAGLINE, 11.0 CY, LIGHT WEIGHT | | | | \$53,849 | 11.47 | 3.43 | 6.06 | 0.40 | 0.00 | 148 |
| | B35XX006 | 13L | BUCKET, DRAGLINE, 13.0 CY, LIGHT WEIGHT | | | | \$66,239 | 14.10 | 4.22 | 7.45 | 0.49 | 0.00 | 178 |
| | SUBCATEGORY 0.20 MEDIUM WEIGHT | | | | | | | | | | | | |
| | HENDRIX MANUFACTURING COMPANY, INC. | | | | | | | | | | | | |
| | B35HE018 | TS | BUCKET, DRAGLINE, 0.75 CY, MEDIUM WEIGHT | | | \$9,195 | 1.75 | 0.53 | 0.92 | 0.07 | 0.00 | 17 | |
| | B35HE019 | TS | BUCKET, DRAGLINE, 1.0 CY, MEDIUM WEIGHT | | | \$10,530 | 2.00 | 0.61 | 1.05 | 0.08 | 0.00 | 19 | |
| | B35HE020 | TS | BUCKET, DRAGLINE, 1.5 CY, MEDIUM WEIGHT | | | \$15,030 | 2.85 | 0.86 | 1.50 | 0.11 | 0.00 | 28 | |
| | B35HE021 | TS | BUCKET, DRAGLINE, 2.0 CY, MEDIUM WEIGHT | | | \$18,969 | 3.61 | 1.09 | 1.90 | 0.14 | 0.00 | 36 | |
| | B35HE022 | TS | BUCKET, DRAGLINE, 2.5 CY, MEDIUM WEIGHT | | | \$21,877 | 4.16 | 1.26 | 2.19 | 0.16 | 0.00 | 41 | |
| | B35HE023 | TS | BUCKET, DRAGLINE, 3.0 CY, MEDIUM WEIGHT | | | \$26,140 | 4.96 | 1.50 | 2.61 | 0.19 | 0.00 | 49 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------------|--|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>B35</i> | <i>HENDRIX MANUFACTURING COMPANY, INC. (continued)</i> | | | | | | | | | | | |
| | B35HE024 | TS | BUCKET, DRAGLINE, 3.5 CY, MEDIUM WEIGHT | | | \$28,832 | 5.47 | 1.65 | 2.88 | 0.21 | 0.00 | 54 |
| | B35HE025 | TS | BUCKET, DRAGLINE, 4.0 CY, MEDIUM WEIGHT | | | \$37,359 | 7.10 | 2.14 | 3.74 | 0.27 | 0.00 | 70 |
| | B35HE026 | TS | BUCKET, DRAGLINE, 4.5 CY, MEDIUM WEIGHT | | | \$38,155 | 7.25 | 2.19 | 3.82 | 0.28 | 0.00 | 72 |
| | B35HE027 | TS | BUCKET, DRAGLINE, 5.0 CY, MEDIUM WEIGHT | | | \$46,240 | 8.78 | 2.65 | 4.62 | 0.34 | 0.00 | 93 |
| | B35HE028 | TS | BUCKET, DRAGLINE, 6.0 CY, MEDIUM WEIGHT | | | \$47,812 | 9.08 | 2.74 | 4.78 | 0.35 | 0.00 | 96 |
| | B35HE029 | TS | BUCKET, DRAGLINE, 7.0 CY, MEDIUM WEIGHT | | | \$55,131 | 10.47 | 3.16 | 5.51 | 0.40 | 0.00 | 111 |
| | B35HE030 | TS | BUCKET, DRAGLINE, 8.0 CY, MEDIUM WEIGHT | | | \$60,750 | 11.54 | 3.48 | 6.08 | 0.44 | 0.00 | 122 |
| | B35HE031 | TS | BUCKET, DRAGLINE, 9.0 CY, MEDIUM WEIGHT | | | \$73,924 | 14.04 | 4.24 | 7.39 | 0.54 | 0.00 | 149 |
| | B35HE032 | TS | BUCKET, DRAGLINE, 10.0 CY, MEDIUM WEIGHT | | | \$78,767 | 14.96 | 4.51 | 7.88 | 0.57 | 0.00 | 159 |
| | B35HE033 | TS | BUCKET, DRAGLINE, 12.0 CY, MEDIUM WEIGHT | | | \$100,360 | 19.07 | 5.75 | 10.04 | 0.73 | 0.00 | 202 |
| | B35HE034 | TS | BUCKET, DRAGLINE, 14.0 CY, MEDIUM WEIGHT | | | \$111,834 | 21.24 | 6.41 | 11.18 | 0.82 | 0.00 | 225 |
| NO SPECIFIC MANUFACTURER | | | | | | | | | | | | |
| | B35XX007 | 6-1/2M | BUCKET, DRAGLINE, 6.5 CY, MEDIUM WEIGHT | | | \$38,222 | 7.26 | 2.19 | 3.82 | 0.28 | 0.00 | 101 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | |
|------------|---|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | |
| <i>B35</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | \$43,703 | 8.30 | 2.51 | 4.37 | 0.32 | 0.00 | 117 | | | |
| | B35XX008 | 7-1/2M | BUCKET, DRAGLINE, 7.5 CY, MEDIUM WEIGHT | | | | 8.94 | 2.70 | 4.71 | 0.34 | 0.00 | 126 | | | |
| | B35XX009 | 8-1/2M | BUCKET, DRAGLINE, 8.5 CY, MEDIUM WEIGHT | | | | 10.64 | 3.21 | 5.60 | 0.41 | 0.00 | 152 | | | |
| | B35XX010 | 9-1/2M | BUCKET, DRAGLINE, 9.5 CY, MEDIUM WEIGHT | | | | 11.76 | 3.55 | 6.19 | 0.45 | 0.00 | 169 | | | |
| | B35XX011 | 11M | BUCKET, DRAGLINE, 11.0 CY, MEDIUM WEIGHT | | | | 14.91 | 4.50 | 7.85 | 0.57 | 0.00 | 211 | | | |
| | B35XX012 | 13M | BUCKET, DRAGLINE, 13.0 CY, MEDIUM WEIGHT | | | \$78,457 | | | | | | | | | |
| | SUBCATEGORY 0.30 HEAVY WEIGHT | | | | | | | | | | | | | | |
| | HENDRIX MANUFACTURING COMPANY, INC. | | | | | | | | | | | | | | |
| | B35HE035 | MH-S | BUCKET, DRAGLINE, 2.75 CY, HEAVY WEIGHT | | | | 5.89 | 1.80 | 3.09 | 0.25 | 0.00 | 69 | | | |
| | B35HE036 | MH-S | BUCKET, DRAGLINE, 3.0 CY, HEAVY WEIGHT | | | | 6.15 | 1.87 | 3.22 | 0.26 | 0.00 | 72 | | | |
| | B35HE037 | MH-S | BUCKET, DRAGLINE, 3.5 CY, HEAVY WEIGHT | | | | 6.92 | 2.11 | 3.63 | 0.29 | 0.00 | 81 | | | |
| | B35HE038 | MH-S | BUCKET, DRAGLINE, 4.0 CY, HEAVY WEIGHT | | | | 9.40 | 2.87 | 4.93 | 0.40 | 0.00 | 110 | | | |
| | B35HE039 | MH-S | BUCKET, DRAGLINE, 4.5 CY, HEAVY WEIGHT | | | | 10.50 | 3.20 | 5.51 | 0.44 | 0.00 | 123 | | | |
| | B35HE040 | MH-S | BUCKET, DRAGLINE, 5.0 CY, HEAVY WEIGHT | | | | 10.85 | 3.31 | 5.69 | 0.46 | 0.00 | 127 | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---------------------------------|--------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| B35 | | | HENDRIX MANUFACTURING COMPANY, INC. (continued) | | | | | | | | | |
| | B35HE041 | MH-S | BUCKET, DRAGLINE, 6.0 CY, HEAVY WEIGHT | | | \$67,681 | 11.62 | 3.54 | 6.09 | 0.49 | 0.00 | 136 |
| | B35HE042 | MH-S | BUCKET, DRAGLINE, 7.0 CY, HEAVY WEIGHT | | | \$87,093 | 14.95 | 4.55 | 7.84 | 0.63 | 0.00 | 175 |
| | B35HE043 | MH-S | BUCKET, DRAGLINE, 8.0 CY, HEAVY WEIGHT | | | \$89,581 | 15.37 | 4.68 | 8.06 | 0.65 | 0.00 | 180 |
| | B35HE044 | MH-S | BUCKET, DRAGLINE, 9.0 CY, HEAVY WEIGHT | | | \$116,458 | 19.98 | 6.08 | 10.48 | 0.84 | 0.00 | 234 |
| | B35HE045 | MH-S | BUCKET, DRAGLINE, 10.0 CY, HEAVY WEIGHT | | | \$119,772 | 20.56 | 6.26 | 10.78 | 0.87 | 0.00 | 243 |
| | B35HE046 | MH-S | BUCKET, DRAGLINE, 12.0 CY, HEAVY WEIGHT | | | \$142,442 | 24.45 | 7.44 | 12.82 | 1.03 | 0.00 | 289 |
| | B35HE047 | MH-S | BUCKET, DRAGLINE, 14.0 CY, HEAVY WEIGHT | | | \$151,561 | 26.02 | 7.92 | 13.64 | 1.10 | 0.00 | 309 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | B35XX013 | 3/4H | BUCKET, DRAGLINE, 0.75 CY, HEAVY WEIGHT | | | \$9,629 | 1.66 | 0.51 | 0.87 | 0.07 | 0.00 | 20 |
| | B35XX014 | 1H | BUCKET, DRAGLINE, 1.0 CY, HEAVY WEIGHT | | | \$10,817 | 1.85 | 0.57 | 0.97 | 0.08 | 0.00 | 23 |
| | B35XX015 | 1-1/2H | BUCKET, DRAGLINE, 1.5 CY, HEAVY WEIGHT | | | \$16,087 | 2.77 | 0.85 | 1.45 | 0.12 | 0.00 | 35 |
| | B35XX016 | 2H | BUCKET, DRAGLINE, 2.0 CY, HEAVY WEIGHT | | | \$18,368 | 3.15 | 0.96 | 1.65 | 0.13 | 0.00 | 42 |
| | B35XX017 | 2-1/2H | BUCKET, DRAGLINE, 2.5 CY, HEAVY WEIGHT | | | \$20,067 | 3.45 | 1.06 | 1.81 | 0.15 | 0.00 | 48 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|-------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>B35</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | \$42,920 | 7.36 | 2.24 | 3.86 | 0.31 | 0.00 | 113 | |
| | B35XX018 | 5-1/2H | BUCKET, DRAGLINE, 5.5 CY, HEAVY WEIGHT | | | | \$45,829 | 7.86 | 2.39 | 4.12 | 0.33 | 0.00 | 125 |
| | B35XX020 | 7-1/2H | BUCKET, DRAGLINE, 7.5 CY, HEAVY WEIGHT | | | | \$51,703 | 8.87 | 2.70 | 4.65 | 0.37 | 0.00 | 135 |
| | B35XX021 | 8-1/2H | BUCKET, DRAGLINE, 8.5 CY, HEAVY WEIGHT | | | | \$56,311 | 9.67 | 2.95 | 5.07 | 0.41 | 0.00 | 159 |
| | B35XX022 | 9-1/2H | BUCKET, DRAGLINE, 9.5 CY, HEAVY WEIGHT | | | | \$71,025 | 12.18 | 3.71 | 6.39 | 0.51 | 0.00 | 181 |
| | B35XX023 | 11H | BUCKET, DRAGLINE, 11.0 CY, HEAVY WEIGHT | | | | \$76,107 | 13.06 | 3.98 | 6.85 | 0.55 | 0.00 | 198 |
| C05 | CHAIN SAWS | | | | | | | | | | | | |
| | SUBCATEGORY | 0.00 | CHAIN SAWS | | | | | | | | | | |
| | STIHL | | | | | | | | | | | | |
| | C05S7001 | MS241CM | CHAIN SAW, 12"-16" GUIDE BAR | 3 | HP | G | \$560 | 1.64 | 0.14 | 0.25 | 0.01 | 0.55 | 1 |
| | C05S7002 | MS362CM | CHAIN SAW, 16"-25" GUIDE BAR | 5 | HP | G | \$712 | 2.23 | 0.17 | 0.32 | 0.01 | 0.83 | 1 |
| | C05S7003 | MS441CM MAGNUM | CHAIN SAW, 16"-32" GUIDE BAR | 6 | HP | G | \$940 | 2.82 | 0.22 | 0.42 | 0.01 | 0.99 | 1 |
| | C05S7004 | MS880 MAGNUM | CHAIN SAW, 17"-59" GUIDE BAR | 9 | HP | G | \$1,803 | 4.97 | 0.43 | 0.81 | 0.02 | 1.52 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|---|------------------|--|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| C10 COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | COMPACTORS, RAMMERS / TAMPER & VIBRATORY PLATES | | | | | | | | | | | |
| | | BOMAG | | | | | | | | | | | |
| | C10BO001 | BT 60/4 | COMPACTOR, RAMMER, TAMPER, 11" X 13.2" SHOE, 2,630 LBS IMPACT | 3 | HP | G | \$4,458 | 3.12 | 0.57 | 1.06 | 0.04 | 0.53 | 2 |
| | C10BO003 | BP 10/36-2 | COMPACTOR, VIBROPLATE, 14.2" X 22" PLATE, 2,250 LBS IMPACT | 4 | HP | G | \$1,712 | 1.75 | 0.22 | 0.41 | 0.01 | 0.71 | 2 |
| | C10BO004 | BP 18/45-2 | COMPACTOR, VIBROPLATE, 17.7" X 22" PLATE, 4,050 LBS IMPACT | 6 | HP | G | \$2,009 | 2.31 | 0.26 | 0.48 | 0.02 | 1.06 | 2 |
| | C10BO008 | BPR 55/65D | COMPACTOR, VIBROPLATE, 25.6" X 35.4" PLATE, REVERSIBLE, 11,250 LBS IMPACT | 9 | HP | D-off | \$17,635 | 10.91 | 2.24 | 4.19 | 0.14 | 0.83 | 10 |
| | | WACKER CORPORATION | | | | | | | | | | | |
| | C10WC003 | DS 70 | COMPACTOR, RAMMER, 13" X 13" SHOE, 3,550 LBS IMPACT | 4 | HP | D-off | \$5,656 | 3.61 | 0.72 | 1.34 | 0.05 | 0.37 | 2 |
| | C10WC006 | BPU 2540 A | COMPACTOR, VIBROPLATE, 19.5" X 25.5" PLATE, REVERSIBLE, 5,600 LBS IMPACT | 6 | HP | G | \$5,581 | 4.23 | 0.71 | 1.33 | 0.04 | 0.97 | 3 |
| | C10WC007 | BPU 3750A | COMPACTOR, VIBROPLATE, 19.7" WIDE PLATE, REVERSIBLE, 8,300 LBS IMPACT | 8 | HP | G | \$8,563 | 6.41 | 1.09 | 2.03 | 0.07 | 1.41 | 6 |
| | C10WC008 | DPU 6555 HEC | COMPACTOR, VIBROPLATE, 22" X 35" PLATE, REVERSIBLE, 14,600 LBS IMPACT | 14 | HP | D-off | \$23,108 | 14.46 | 2.94 | 5.49 | 0.19 | 1.24 | 11 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|-----|--|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| | SUBCATEGORY 0.20 ROLLERS, VIBRATORY | | | | | | | | | | | | |
| | BOMAG | | | | | | | | | | | | |
| | C10BO009 | BW 55E | COMPACTOR, ROLLER, VIBRATORY, 22"W X 15.7"DIA, SINGLE SMOOTH DRUM, WALK BEHIND, 2,273 LBS IMPACT | 4 HP | G | | \$9,112 | 5.72 | 1.05 | 1.94 | 0.08 | 0.71 | 3 |
| | C10BO015 | BW65HS-D | COMPACTOR, ROLLER, VIBRATORY, 25.6"W X 15.7"DIA, DOUBLE SMOOTH DRUMS, WALK BEHIND, 2,655 LBS IMPACT | 5 HP | D-off | | \$21,369 | 12.08 | 2.45 | 4.54 | 0.18 | 0.46 | 13 |
| | C10BO011 | BW 65H | COMPACTOR, ROLLER, VIBRATORY, 25.6"W X 15.7"DIA, DOUBLE SMOOTH DRUMS, WALK BEHIND, 1,980 LBS IMPACT | 8 HP | D-on | | \$24,026 | 14.04 | 2.76 | 5.11 | 0.20 | 0.92 | 16 |
| | C10BO016 | BW75S-D | COMPACTOR, ROLLER, VIBRATORY, 29.5"W X 18.9"DIA, DOUBLE SMOOTH DRUMS, WALK BEHIND, 4,455 LBS IMPACT | 9 HP | D-off | | \$26,799 | 15.44 | 3.08 | 5.69 | 0.23 | 0.83 | 20 |
| | C10BO013 | BMP851 | COMPACTOR, TRENCH ROLLER, VIBRATORY, 33.5"W X 19.7"DIA, DOUBLE TAMPING FOOT DRUMS, WALK BEHIND, 18,000 LBS IMPACT | 19 HP | D-on | | \$54,905 | 32.15 | 6.30 | 11.67 | 0.46 | 2.18 | 45 |
| | MULTIQUIP, INC. | | | | | | | | | | | | |
| | C10MU001 | MRH800GS | COMPACTOR, TRENCH ROLLER, VIBRATORY, 23"W X 14.6"DIA, QUAD PADFOOT DRUMS, WALK BEHIND, 7,875 LBS IMPACT | 11 HP | D-off | | \$18,664 | 11.24 | 2.15 | 3.97 | 0.16 | 1.01 | 16 |
| | C10MU002 | RX157533 | COMPACTOR, TRENCH ROLLER, VIBRATORY, 33"W X 21.7"DIA, QUAD PADFOOT DRUMS, WALK BEHIND, 15,652 LBS IMPACT | 20 HP | D-off | | \$40,851 | 24.15 | 4.68 | 8.68 | 0.34 | 1.84 | 32 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|--|----------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|---|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>C10</i> | <i>MULTIQUIP, INC. (continued)</i> | | | 21 HP D-off | | \$18,925 | 12.38 | 2.17 | 4.02 | 0.16 | 1.93 | 29 | |
| | C10MU003 | AR14H | COMPACTOR, TRENCH ROLLER, VIBRATORY, 47"W X 22"DIA, QUAD PADFOOT DRUMS, RIDE ON, 21,600 LBS IMPACT | | | | | | | | | | |
| | WACKER CORPORATION | | | 11 HP G | | \$15,151 | 10.35 | 1.74 | 3.22 | 0.13 | 1.94 | 11 | |
| | C10WC010 | RSS800A | COMPACTOR, ROLLER, VIBRATORY, 28"W X 22"DIA, SINGLE SMOOTH DRUM, WALK BEHIND, 3,400 LBS IMPACT | | | | | | | | | | |
| | C10WC017 | RD7H ES | COMPACTOR, ROLLER, VIBRATORY, 25.5"W X 16.5"DIA, DOUBLE SMOOTH DRUM, WALK BEHIND, 2,925 LBS IMPACT | 9 HP D-off | | \$20,118 | 11.82 | 2.31 | 4.28 | 0.17 | 0.83 | 16 | |
| | C10WC016 | RTL 82-SC3 | COMPACTOR, TRENCH ROLLER, VIBRATORY, 32"W X 20"DIA, DOUBLE TAMPING FOOT DRUMS, WALK BEHIND, 7,700/15,000 LBS IMPACT | | | | | | | | | | |
| C15 | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 WALK BEHIND | | | | | | | | | | | | |
| | BLASTRAC | | | | | | | | | | | | |
| | C15BL001 | 1-8 DEC MKI&BDC-1216 | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 8" PATH (ADD 4 KVA GENERATOR & BLAST MEDIA COST) | | 2 HP E | | \$9,974 | 5.20 | 1.09 | 1.99 | 0.09 | 0.14 | 2 |
| | C15BL003 | 1-10DSG1 & BDC66DBP | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 10" PATH (ADD 30 KVA GENERATOR & BLAST MEDIA COST) | | | | | | | | | | |
| | C15BL004 | 1-15DSG1 & BDC66DBP | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 15" PATH (ADD 30 KVA GENERATOR & BLAST MEDIA COST) | | 15 HP E | | \$47,297 | 24.57 | 5.14 | 9.46 | 0.41 | 1.02 | 8 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----------------------------|---|-----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|--------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C15 | BLASTRAC (continued) | | | | | | | | | | | |
| | C15BL005 | 2-20DTMKII&BDC9 | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 20" PATH (ADD 75 KVA GENERATOR & BLAST MEDIA COST) | 30 HP | E | \$63,486 | 33.67 | 6.90 | 12.70 | 0.55 | 2.04 | 12 |
| | EQUIPMENT DEVELOPMENT CO., INC. (EDCO) | | | | | | | | | | | |
| | C15ED002 | CPM-8 | CONCRETE GRINDER, WALK BEHIND, TRAFFIC LINE REMOVER, 8" CUTTING PATH | 9 HP | G | \$4,858 | 3.59 | 0.53 | 0.97 | 0.04 | 1.24 | 2 |
| | C15ED001 | TLR-7 | CONCRETE GRINDER, WALK BEHIND, TRAFFIC LINE REMOVER, 7" CUTTING WIDTH | 11 HP | G | \$8,358 | 5.47 | 0.91 | 1.67 | 0.07 | 1.51 | 5 |
| | SUBCATEGORY 0.20 TRUCK/TRAILER MOUNTED | | | | | | | | | | | |
| | BLASTRAC | | | | | | | | | | | |
| | C15BL006 | 2-4800 DH MKV | CONCRETE BLASTER, SELF PROPELLED, 48" PATH | 350 HP | D-on | \$453,243 | 150.60 | 26.24 | 45.32 | 3.58 | 42.05 | 255 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | C15XX001 | 2-45 DTM | CONCRETE CLEANER/ABRASIVE BLASTER, TRUCK MOUNTED, GINDER/BLASTER, UP TO 38,750 SF/HR | 86 HP | D-on | 86 HP | 180 HP | D-off | \$617,498 | 162.94 | 35.48 | 61.22 |
| C20 CONCRETE BUGGIES | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 CONCRETE BUGGIES | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | C20XX001 | WBH-16 | CONCRETE BUGGY, 16 CF BUCKET, 2,500 LBS | 12 HP | G | \$9,536 | 5.31 | 0.78 | 1.40 | 0.08 | 1.65 | 14 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|---------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C20 | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | C20XX002 | 107TT | CONCRETE BUGGY, 11.5 CF BUCKET, 1,500 LBS, CRAWLER MTD | 8 HP | G | \$12,048 | 6.01 | 1.31 | 2.41 | 0.10 | 1.10 | 14 |
| C25 | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | |
| | SUBCATEGORY 0.10 FINISHERS/TROWELS | | | | | | | | | | | |
| | ALLEN ENGINEERING CORP. | | | | | | | | | | | |
| | C25AJ020 | TR MP215 | CONCRETE TROWEL, RIDING, 2 - 36" DIA ROTORS, 4 BLADED SPIDER, 145 RPM | 22 HP | G | \$12,443 | 7.66 | 1.10 | 1.99 | 0.10 | 3.02 | 8 |
| | C25AJ021 | TR MP315 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 4 BLADED SPIDER, 145 RPM | 22 HP | G | \$14,544 | 8.38 | 1.29 | 2.33 | 0.12 | 3.02 | 9 |
| | C25AJ022 | TR MSP445 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 5 BLADED SPIDER, 165 RPM | 40 HP | G | \$19,426 | 12.85 | 1.72 | 3.11 | 0.16 | 5.49 | 11 |
| | C25AJ023 | TR MSP 450 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 5 BLADED SPIDER, 180 RPM | 44 HP | D-off | \$26,854 | 12.70 | 2.37 | 4.30 | 0.22 | 3.20 | 15 |
| | C25AJ015 | PRO 900 | CONCRETE TROWEL, RIDING, 2 - 36" DIA ROTORS, 8 BLADES | 20 HP | G | \$13,474 | 7.70 | 1.19 | 2.16 | 0.11 | 2.75 | 8 |
| | C25AJ016 | PRO 1050 | CONCRETE TROWEL, RIDING, 2 - 42" DIA ROTORS, 8 BLADES | 24 HP | G | \$15,108 | 8.89 | 1.34 | 2.42 | 0.13 | 3.30 | 9 |
| | C25AJ018 | PRO 1200 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 8 BLADES | 24 HP | G | \$15,686 | 9.08 | 1.39 | 2.51 | 0.13 | 3.30 | 11 |
| | C25AJ019 | SUPER PRO 400 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 8 BLADES | 34 HP | G | \$21,542 | 12.63 | 1.91 | 3.45 | 0.18 | 4.67 | 13 |
| | MULTIQUIP, INC. | | | | | | | | | | | |
| | C25MU001 | J36H90H | CONCRETE FINISHER, WALK BEHIND, ROTO TROWEL, 36" DIA ROTOR, 4 | 8 HP | G | \$2,625 | 2.14 | 0.23 | 0.42 | 0.02 | 1.10 | 3 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C25 | MULTIQUIP, INC. (continued) | | | 9 HP G | | \$3,090 | 2.46 | 0.28 | 0.49 | 0.03 | 1.24 | 3 |
| | C25MU002 | B46H11H | CONCRETE FINISHER, WALK BEHIND, ROTO TROWEL, 46" DIA ROTOR, 4 BLADES | | | | | | | | | |
| | WACKER CORPORATION | | | 7 HP G | | \$3,095 | 2.18 | 0.28 | 0.50 | 0.03 | 0.98 | 3 |
| | C25WC002 | CT48-8A | CONCRETE FINISHER, WALK BEHIND, POWER TROWEL, 48" DIA ROTOR, 4 BLADES | | | | | | | | | |
| | SUBCATEGORY 0.20 VIBRATORY SCREED | | | | | | | | | | | |
| | ALLEN ENGINEERING CORP. | | | 30 CFM A | | \$9,570 | 3.30 | 0.85 | 1.53 | 0.08 | 0.00 | 11 |
| | C25AJ024 | SA12 | CONCRETE, PNEUMATIC VIBRATORY SCREED, VARIABLE WIDTH 65' MAX(ADD 100CFM COMPRESSOR | | | | | | | | | |
| | C25AJ003 | 12HED | CONCRETE, VIBRATORY SCREED, 22.5' WIDE | | | | | | | | | |
| | C25AJ001 | 12 HD | CONCRETE, VIBRATORY SCREED, 20' WIDE | | | | | | | | | |
| | C25AJ004 | 12HED | CONCRETE, VIBRATORY SCREED, 32.5' WIDE | | | | | | | | | |
| | C25AJ005 | 12HED | CONCRETE, VIBRATORY SCREED, 42.5' WIDE | | | | | | | | | |
| | C25AJ006 | 12HED | CONCRETE, VIBRATORY SCREED, 50' WIDE | | | | | | | | | |
| | C25AJ007 | 12HED | CONCRETE, VIBRATORY SCREED, 55' WIDE | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------------|------------------|---|---------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| NO SPECIFIC MANUFACTURER | | | | | | | | | | | | |
| C25XX001 | 10' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 10' WIDTH | 9 HP G | | | \$5,020 | 3.11 | 0.44 | 0.80 | 0.04 | 1.24 | 5 |
| C25XX002 | 15' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 15' WIDTH | 9 HP G | | | \$6,353 | 3.57 | 0.56 | 1.02 | 0.05 | 1.24 | 6 |
| C25XX003 | 20' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 20' WIDTH | 9 HP G | | | \$6,863 | 3.74 | 0.61 | 1.10 | 0.06 | 1.24 | 7 |
| C25XX004 | 25' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 25' WIDTH | 9 HP G | | | \$7,732 | 4.03 | 0.68 | 1.24 | 0.06 | 1.24 | 7 |
| C25XX005 | 30' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 30' WIDTH | 9 HP G | | | \$8,686 | 4.36 | 0.77 | 1.39 | 0.07 | 1.24 | 8 |
| C25XX006 | 35' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 35' WIDTH | 11 HP G | | | \$9,757 | 5.03 | 0.86 | 1.56 | 0.08 | 1.51 | 8 |
| C25XX007 | 4' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 4' WIDTH | 2 HP G | | | \$1,441 | 0.80 | 0.13 | 0.23 | 0.01 | 0.27 | 1 |
| C25XX008 | 40' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 40' WIDTH | 11 HP G | | | \$10,730 | 5.36 | 0.95 | 1.72 | 0.09 | 1.51 | 10 |
| C25XX009 | 45' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 45' WIDTH | 11 HP G | | | \$11,620 | 5.67 | 1.03 | 1.86 | 0.10 | 1.51 | 11 |
| C25XX010 | 50' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 50' WIDTH | 11 HP G | | | \$12,573 | 5.98 | 1.11 | 2.01 | 0.10 | 1.51 | 12 |
| C25XX011 | 55' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 55' WIDTH | 11 HP G | | | \$13,463 | 6.28 | 1.19 | 2.15 | 0.11 | 1.51 | 13 |
| C25XX012 | 6' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 6' WIDTH | 2 HP G | | | \$1,478 | 0.81 | 0.13 | 0.24 | 0.01 | 0.27 | 1 |
| C25XX013 | 60' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 60' WIDTH | 11 HP G | | | \$14,416 | 6.62 | 1.28 | 2.31 | 0.12 | 1.51 | 14 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>C25</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | C25XX014 | 65' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 65' WIDTH | 11 HP | G | \$15,306 | 6.92 | 1.36 | 2.45 | 0.13 | 1.51 | 15 |
| | C25XX015 | 8' POWER SCREED | CONCRETE, VIBRATORY POWER SCREED, 8' WIDTH | 2 HP | G | \$1,497 | 0.82 | 0.13 | 0.24 | 0.01 | 0.27 | 1 |
| | SUBCATEGORY 0.25 VIBRATORY LASER SCREED | | | | | | | | | | | |
| | SOMERO ENTERPRISES, INC. | | | | | | | | | | | |
| | C25SV004 | S-485 | CONCRETE, VIBRATORY LASER SCREED, WALK BEHIND, 8' WIDTH | 21 HP | G | \$75,651 | 16.56 | 3.71 | 6.16 | 0.63 | 2.70 | 11 |
| | C25SV005 | S-840 | CONCRETE, VIBRATORY SCREED, WALK BEHIND, 8' WIDTH | 21 HP | G | \$73,662 | 16.21 | 3.61 | 5.98 | 0.62 | 2.70 | 16 |
| | C25SV008 | MINI SCREED C | CONCRETE, VIBRATORY LASER SCREED, WALK BEHIND, 30" WIDTH | 6 HP | G | \$35,457 | 7.17 | 1.73 | 2.85 | 0.30 | 0.77 | 5 |
| | C25SV009 | S-15M | CONCRETE, VIBRATORY LASER SCREED, 7' 2" WIDTH X 20' BOOM | 35 HP | D-off | \$282,903 | 52.54 | 14.51 | 24.28 | 2.37 | 2.32 | 78 |
| | C25SV010 | S-15R | CONCRETE, VIBRATORY LASER SCREED, 7' 6" WIDTH X 20' BOOM | 35 HP | D-off | \$316,167 | 58.40 | 16.25 | 27.20 | 2.65 | 2.32 | 88 |
| | C25SV011 | S-22E | CONCRETE, VIBRATORY LASER SCREED, 14' WIDTH X 20' BOOM | 74 HP | D-off | \$373,449 | 71.50 | 19.24 | 32.21 | 3.13 | 4.91 | 136 |
| | SUBCATEGORY 0.30 MATERIAL/TOPPING SPREADERS | | | | | | | | | | | |
| | ALLEN ENGINEERING CORP. | | | | | | | | | | | |
| | C25AJ008 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 12.5' WIDE | 6 HP | G | \$20,557 | 4.46 | 1.07 | 1.80 | 0.17 | 0.71 | 11 |
| | C25AJ009 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 20' WIDE | 6 HP | G | \$22,265 | 4.76 | 1.17 | 1.95 | 0.19 | 0.71 | 12 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| C25 | <i>ALLEN ENGINEERING CORP. (continued)</i> | | | 6 HP G | | \$23,726 | 5.02 | 1.24 | 2.08 | 0.20 | 0.71 | 13 | | | | | | | | | |
| | C25AJ010 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 30' WIDE | | | | | | | | | | | | | | | | | | |
| | C25AJ011 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 40' WIDE | | | | | | | | | | | | | | | | | | |
| | C25AJ012 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 50' WIDE | | | | | | | | | | | | | | | | | | |
| | C25AJ013 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 60' WIDE | | | | | | | | | | | | | | | | | | |
| | SOMERO ENTERPRISES, INC. | | | 35 HP D-off | | \$122,753 | 24.35 | 6.17 | 10.27 | 1.03 | 2.32 | 90 | | | | | | | | | |
| | C25SV006 | STS-11M | CONCRETE, MATERIAL/TOPPING SPREADER, 6' WIDTH, 20' BOOM | | | | | | | | | | | | | | | | | | |
| | C25SV007 | XD 3.0 | CONCRETE, VIBRATORY LASER SCREED, WALK BEHIND, 8' 10" WIDTH | 14 HP | G | \$68,665 | 14.24 | 3.46 | 5.76 | 0.58 | 1.80 | 9 | | | | | | | | | |
| C35 | CONCRETE GUNITERS / SHOTCRETTERS | | | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 CONCRETE GUNITERS / SHOTCRETTERS | | | 30 HP D-off | | \$78,797 | 24.89 | 4.86 | 8.42 | 0.65 | 2.31 | 50 | | | | | | | | | |
| | AIRPLACO EQUIPMENT CO., INC. | | | | | | | | | | | | | | | | | | | | |
| | C35AF001 | AG-15 WITH 634D MIXR | CONCRETE GUNITER/SHOTCRETER, WET/DRY, 13 CY/HR MIXER WITH 13 CY/HR PUMP/GUN (ADD 300-900 CFM COMPRESSOR) | | | | | | | | | | | | | | | | | | |
| | C35AF002 | C-10SL | CONCRETE GUNITER/SHOTCRETER, DRY/SEMI-WET, HOPPER/PUMP/SPRAY, 12 CY/HR, 2" HOSE & 1 GUN (ADD 600 CFM COMPRESSOR) | 9 CFM | A | \$12,792 | 5.21 | 0.78 | 1.34 | 0.11 | 0.00 | 6 | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------|---------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C35 | | | AIRPLACO EQUIPMENT CO., INC. (continued) | | | | | | | | | |
| | C35AF004 | 634D Mix Elevator | CONCRETE GUNITER/SHOTCRETER, DRY BATCH MIXER, 13 CY/HR, W/FEEDER, TRAILER MTD (ADD SHOTCRETE MACHINE) | 30 HP | D-off | \$64,581 | 20.89 | 3.98 | 6.89 | 0.53 | 2.31 | 43 |
| | C35AF005 | 734LBD Mix Elevator | CONCRETE GUNITER/SHOTCRETER, DRY BATCH MIXER, W/20 CY/HR ELEVATOR FEEDER/ 45 CF SAND HOPPER/ 4 CF CEMENT HOPPER/ & PREDAMPENING SPRAY BAR, TRAILER MTD (ADD SHOTCRETE MACHINE) | 54 HP | D-off | \$75,040 | 25.56 | 4.60 | 7.95 | 0.62 | 4.16 | 81 |
| | | | ALIVA LTD. | | | | | | | | | |
| | C35AV006 | AL 285 | CONCRETE GUNITER/SHOTCRETER, WET/DRY, 11 - 27.5 CY/HR, W/6.6 GAL HOPPER/ ROTARY PUMP/ 100' - 2.55" DIA HOSE/ NOZZLE/ & AIR COMPRESSOR | 20 HP | E | \$104,369 | 30.52 | 6.41 | 11.10 | 0.86 | 1.46 | 33 |
| | | | EQUIPMENT NORTH | | | | | | | | | |
| | C35EN001 | HALMAN EN CRETER | CONCRETE GUNITERS / SHOTCRETTERS, SHOTCRETE HYDRAULIC SPRAYER ARM, 24' REACH (ADD TRUCK OR SMALL TRAILER & SHOTCRETE UNIT) | 40 HP | E | \$224,775 | 63.66 | 13.89 | 24.08 | 1.85 | 2.91 | 91 |
| | | | PUTZMEISTER INC. | | | | | | | | | |
| | C35PU001 | R-900 BATCH MIX RIG | CONCRETE GUNITER/SHOTCRETER, DRY BATCH MIXER, 10 TON/HR, W/ELEVATOR FEEDER/ 20 CF CEMENT HOPPER/ 8 CF MIXER/ & PREDAMPENING SPRAY BAR, TRAILER MTD (ADD SHOTCRETE MACHINE OR ROTARY PUMP) | 35 HP | D-off | \$44,528 | 15.22 | 2.72 | 4.69 | 0.37 | 2.70 | 47 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|-------------------------------------|---------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C35 | <i>PUTZMEISTER INC. (continued)</i> | | | | | | | | | | | |
| | C35PU002 | GRH-610 ROTARY GUN | CONCRETE GUNITER/SHOTCRETER, ROTARY PUMP, WET/DRY, 1 - 6 CY/HR, W/HOPPER/ 100' - 1.5" DIA HOSE/ & NOZZLE, CART MTD, (ADD 250 - 600 CFM COMPRESSOR) | 5 HP | E | \$17,690 | 5.21 | 1.10 | 1.90 | 0.15 | 0.36 | 11 |
| | C35PU003 | N-2 PNEUMATIC GUN | CONCRETE GUNITER/SHOTCRETER, DRY MIX, 2 - 8 CY/HR, W/2 PRESSURIZED TANKS/ 100' - 1.5" DIA HOSE/ & NOZZLE (ADD 200 - 900 CFM COMPRESSOR) | 9 CFM | A | \$28,630 | 7.54 | 1.78 | 3.07 | 0.24 | 0.00 | 13 |
| | C35PU004 | AG-15 AUTOMATIC GUN | CONCRETE GUNITER/SHOTCRETER, ROTARY PUMP, WET/DRY, 3 - 15 CY/HR (ADD 300 - 900 CFM COMPRESSOR) | 9 CFM | A | \$14,216 | 3.99 | 0.88 | 1.52 | 0.12 | 0.00 | 7 |
| | C35PU005 | TK10 | CONCRETE GUNITER/SHOTCRETER, GROUT/MUD JACK/ SHOTCRETE, 7 CY/HR, 2,085 PSI, 8 CF HOPPER, TRAILER MTD (ADD 3" HOSE LINE) | 61 HP | D-off | \$51,105 | 18.66 | 3.14 | 5.44 | 0.42 | 4.70 | 40 |
| | REED MANUFACTURING | | | | | | | | | | | |
| | C35RQ001 | SOVA | CONCRETE GUNITER/SHOTCRETER, DRY MIX, 9 CY/HR, DUST EXTRACTION SYSTEM, 3/8" MAX AGGREGATE (ADD 315 CFM AIR COMPRESSOR) | 5 HP | E | \$12,440 | 4.68 | 0.77 | 1.33 | 0.10 | 0.36 | 5 |
| | C35RQ002 | LOVA 16-4 | CONCRETE GUNITER/SHOTCRETER, DRY MIX, 12 CY/HR, DUST EXTRACTION SYSTEM, 5/8" MAX AGGREGATE (ADD 450 CFM AIR COMPRESSOR) | 9 HP | E | \$20,027 | 8.04 | 1.25 | 2.15 | 0.17 | 0.65 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|----------------------------------|----------|-----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| C40 CONCRETE MIXING UNITS | | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 CONCRETE MIXING UNITS | | | | | | | | | | |
| | | | CEMEN TECH | | | | | | | | | | |
| | C40CC001 | SCD2-50 | CONCRETE MIXERS, STATIONARY CONCRETE DISPENSER, 15 CY/HR, 2 - 4.5 CY MATERIAL CAPACITY | 10 | HP | E | \$42,608 | 15.52 | 3.77 | 6.82 | 0.36 | 0.68 | 23 |
| | | | MULTIQUIP, INC. | | | | | | | | | | |
| | C40MU005 | MC44SE | CONCRETE MIXERS, MIXER, CONCRETE, 4 CF, TRAILER MTD | 1 | HP | E | \$2,390 | 1.03 | 0.20 | 0.35 | 0.02 | 0.03 | 5 |
| | C40MU006 | MC44SH | CONCRETE MIXERS, MIXER, CONCRETE, 4 CF, TRAILER MTD | 6 | HP | G | \$2,774 | 1.78 | 0.23 | 0.41 | 0.02 | 0.76 | 5 |
| | C40MU007 | MC64SE | CONCRETE MIXERS, MIXER, CONCRETE, 6 CF, TRAILER MTD | 2 | HP | E | \$3,411 | 1.61 | 0.29 | 0.52 | 0.03 | 0.14 | 7 |
| | C40MU008 | MC94SE | CONCRETE MIXERS, MIXER, CONCRETE, 9 CF, TRAILER MTD | 2 | HP | E | \$4,289 | 1.89 | 0.37 | 0.66 | 0.04 | 0.10 | 8 |
| | C40MU001 | WM70SH8 | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 7 CF, TRAILER MTD | 8 | HP | G | \$3,791 | 2.50 | 0.32 | 0.57 | 0.03 | 1.10 | 8 |
| | C40MU002 | WM120SHHD | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 12 CF, TRAILER MTD | 13 | HP | G | \$7,874 | 4.69 | 0.69 | 1.23 | 0.07 | 1.79 | 11 |
| | C40MU003 | MC64SH8 | CONCRETE MIXERS, MIXER, CONCRETE, 6 CF, TRAILER MTD | 8 | HP | G | \$3,848 | 2.52 | 0.32 | 0.58 | 0.03 | 1.10 | 7 |
| | C40MU004 | MC94SH8 | CONCRETE MIXERS, MIXER, CONCRETE, 9 CF, TRAILER MTD | 8 | HP | G | \$4,365 | 2.71 | 0.38 | 0.67 | 0.04 | 1.10 | 8 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|--------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | C40XX001 | 6E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 6 CF, ELECTRIC, PORTABLE | 6 HP | E | \$2,935 | 1.76 | 0.26 | 0.47 | 0.02 | 0.37 | 5 |
| | C40XX002 | 9.5G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 9.5 CF, GAS, PORTABLE | 6 HP | G | \$3,340 | 2.00 | 0.30 | 0.53 | 0.03 | 0.76 | 7 |
| | C40XX003 | 9.5E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 9.5 CF, ELECTRIC, PORTABLE | 2 HP | E | \$3,314 | 1.48 | 0.30 | 0.53 | 0.03 | 0.10 | 5 |
| | C40XX004 | 10G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 10 CF, GAS, PORTABLE | 8 HP | G | \$4,694 | 2.84 | 0.42 | 0.75 | 0.04 | 1.10 | 10 |
| | C40XX005 | 12E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 12 CF, ELECTRIC, PORTABLE | 5 HP | E | \$4,811 | 2.41 | 0.43 | 0.77 | 0.04 | 0.34 | 12 |
| | C40XX006 | 16E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 16 CF, ELECTRIC, PORTABLE | 5 HP | E | \$8,563 | 3.68 | 0.76 | 1.37 | 0.07 | 0.34 | 17 |
| | C40XX007 | 16G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 16 CF, GAS, PORTABLE | 12 HP | G | \$8,426 | 4.69 | 0.75 | 1.35 | 0.07 | 1.61 | 13 |
| C45 | CONCRETE PAVING MACHINES | | | | | | | | | | | |
| | SUBCATEGORY 0.00 CONCRETE PAVING MACHINES | | | | | | | | | | | |
| | GOMACO CORPORATION | | | | | | | | | | | |
| | C45GO026 | C-450X | CONCRETE PAVING MACHINES, CYLINDER FINISHER, SINGLE DRUM, FINISHING WIDTH 9'-137" | 36 HP | G | \$100,633 | 38.33 | 7.53 | 13.42 | 0.82 | 5.34 | 64 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---------------------------------------|-----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>C45</i> | <i>GOMACO CORPORATION (continued)</i> | | | 50 HP D-off | | \$116,454 | 41.63 | 8.72 | 15.53 | 0.95 | 3.85 | 91 |
| | C45GO027 | C-650-F | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 19'-51' | | | | | | | | | |
| | C45GO028 | C-650-S | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 19'-51' | | | | | | | | | |
| | C45GO029 | C-750 | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 8'-156' | | | | | | | | | |
| | C45GO013 | GT-3200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 36" WIDE MOLD/FORM | | | | | | | | | |
| | C45GO014 | GT-3600 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 24" WIDE MOLD/FORM | | | | | | | | | |
| | C45GO011 | COMMANDER III (CURB) | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 36" WIDE MOLD/FORM | | | | | | | | | |
| | C45GO012 | COMMANDER III (4 TRA) | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 4-TRACK, 36" WIDE MOLD/FORM | | | | | | | | | |
| | C45GO016 | GP-2600 2 TRACK | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 24'-32' PAVING WIDTH | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C45 | <i>GOMACO CORPORATION (continued)</i> | | | 335 HP D-off | | \$828,009 | 294.19 | 61.94 | 110.40 | 6.74 | 25.81 | 700 |
| | C45GO018 | GHP-2800 2 TRACK | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 24'-32' PAVING WIDTH | | | | | | | | | |
| | C45GO020 | GP-4000 2 TRACK | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 12'-50' PAVING WIDTH | | | | | | | | | |
| | C45GO031 | 9500 | CONCRETE PAVING MACHINES, TRIMMER/PLACER, W/16'-8" TRIMMER HEAD | 385 HP D-off | | \$515,865 | 198.52 | 38.59 | 68.78 | 4.20 | 29.66 | 729 |
| | MILLER CURBER | | | 15 HP G | | \$8,627 | 5.29 | 0.65 | 1.15 | 0.07 | 2.22 | 8 |
| | C45MJ001 | MC 650 | CONCRETE PAVING MACHINES, CURB BUILDER, SLIPFORM PAVER, 6.1 CF HOPPER 6" AUGER | | | | | | | | | |
| | M-B-W, INC. | | | 26 HP D-on | | \$58,720 | 21.56 | 4.36 | 7.76 | 0.48 | 2.50 | 27 |
| | C45MW00 | C101 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, RUBBER TIRED, 12" MAX PAVING WIDTH, 18" MAX PAVING HEIGHT | | | | | | | | | |
| | C45MW00 | CG200 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, RUBBER TIRED, 48" MAX PAVING WIDTH, 18" MAX PAVING HEIGHT | 26 HP D-on | | \$75,951 | 27.07 | 5.64 | 10.03 | 0.62 | 2.50 | 34 |
| C55 | CONCRETE PUMPS | | | | | | | | | | | |
| | SUBCATEGORY 0.00 CONCRETE PUMPS | | | 58 HP G | | \$29,489 | 16.55 | 1.87 | 3.30 | 0.22 | 7.97 | 29 |
| | MULTIQUIP, INC. | | | | | | | | | | | |
| | C55MU001 | C30HDG | CONCRETE PUMP, 25 CY/HR, SINGLE, TRAILER MTD | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|------------------------------------|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C55 | MULTIQUIP, INC. (continued) | | | | | | | | | | | |
| | C55MU002 | LS-400 | CONCRETE PUMP, 45 CY/HR, SINGLE, TRAILER MTD | 79 HP | D-off | \$60,145 | 21.70 | 3.83 | 6.77 | 0.44 | 5.75 | 49 |
| | C55MU003 | LS-600P | CONCRETE PUMP, 70 CY/HR, SINGLE, TRAILER MTD | 108 HP | D-off | \$72,519 | 27.21 | 4.62 | 8.16 | 0.54 | 7.86 | 53 |
| | OLIN PUMP | | | | | | | | | | | |
| | C55OE013 | S5 25 | CONCRETE PUMP, 38 CY/HR, TRAILER MTD | 48 HP | D-off | \$54,003 | 17.59 | 3.42 | 6.04 | 0.40 | 3.49 | 44 |
| | C55OE011 | 15 95 | CONCRETE PUMP, 100 CY/HR, TRAILER MTD TANDEM (OPEN LOOP HYDRAULIC SYSTEM) | 181 HP | D-off | \$81,264 | 35.38 | 5.17 | 9.14 | 0.60 | 13.17 | 70 |
| | REED MANUFACTURING | | | | | | | | | | | |
| | C55RQ003 | A30 | CONCRETE PUMP, 30 CY/HR, SINGLE, TRAILER MTD | 82 HP | D-off | \$52,386 | 19.96 | 3.32 | 5.86 | 0.39 | 5.97 | 46 |
| | SCHWING AMERICA INC. | | | | | | | | | | | |
| | C55SC001 | SP750-18 | CONCRETE PUMP, 70 CY/HR, 1,100 PSI, TRAILER MTD | 100 HP | D-off | \$81,021 | 28.64 | 5.11 | 9.02 | 0.60 | 7.28 | 75 |
| | C55SC002 | SP2000 | CONCRETE PUMP, 76 CY/HR, 1,565 PSI, TRAILER MTD | 174 HP | D-off | \$117,541 | 43.97 | 7.45 | 13.16 | 0.87 | 12.66 | 126 |
| | C55SC005 | S28X | CONCRETE PUMP, 117 CY/HR, 75' BOOM, TRUCK MTD | 210 HP | D-on | \$344,278 | 108.43 | 21.61 | 38.11 | 2.55 | 19.06 | 359 |
| | C55SC006 | S32X | CONCRETE PUMP, 117 CY/HR, 92' BOOM, TRUCK MTD | 210 HP | D-on | \$441,417 | 133.05 | 27.78 | 49.04 | 3.26 | 19.06 | 470 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|---|---|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C60 | CONCRETE SAWS (Add cost for sawblade wear) | | | | | | | | | | | |
| | SUBCATEGORY | 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | | | | | | | | | |
| | HUSQVARNA CONSTRUCTION PRODUCTS | | | | | | | | | | | |
| C60HG027 | FS 520 | CONCRETE SAW, 7.70" MAX CUTTING DEPTH, WALK BEHIND(ADD COST FOR SAWBLADE WEAR & WATER) | 21 | HP | G | \$7,066 | 6.60 | 0.58 | 1.06 | 0.05 | 3.71 | 5 |
| C60HG028 | CS 2512 | CONCRETE SAW, WIRE SAW SYSTEM, INCLUDES PP455E POWER PACK (ADD COST FOR SAW WIRE WEAR & WATER) | 27 | HP | E | \$26,918 | 12.57 | 2.23 | 4.04 | 0.21 | 2.36 | 4 |
| C60HG029 | WS440 HF | CONCRETE SAW, RAIL SAW, 21" MAX CUTTING DEPTH, WALL (ADD 13KW GENERATOR & COST FOR SAWBLADE WEAR & WATER) | 17 | HP | E | \$54,841 | 20.69 | 4.54 | 8.23 | 0.42 | 1.52 | 1 |
| C60HG030 | HW482 HF | CONCRETE SAW, RAIL SAW, 29" MAX CUTTING DEPTH, WALL (ADD 19KW GENERATOR & COST FOR SAWBLADE WEAR & WATER) | 25 | HP | E | \$69,674 | 26.64 | 5.76 | 10.45 | 0.53 | 2.18 | 1 |
| C60HG008 | K760 | CONCRETE SAW, 5.00" DEPTH, MANUAL, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 2 | HP | G | \$1,111 | 0.78 | 0.10 | 0.17 | 0.01 | 0.35 | 1 |
| C60HG010 | FS 400 | CONCRETE SAW, 6.5" DEPTH, WALK BEHIND, 18" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 11 | HP | G | \$2,165 | 2.94 | 0.18 | 0.32 | 0.02 | 1.94 | 2 |
| C60HG015 | FS 520 | CONCRETE SAW, 7.625" DEPTH, SELF PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 20 | HP | G | \$6,592 | 6.23 | 0.55 | 0.99 | 0.05 | 3.53 | 5 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|--|--------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>C60</i> | <i>HUSQVARNA CONSTRUCTION PRODUCTS (continued)</i> | | | | | | | | | | | | |
| | C60HG020 | FS 4600 G 20 | CONCRETE SAW, 12" DEPTH, SELF-PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 48 | HP | G | \$22,754 | 17.29 | 1.88 | 3.41 | 0.17 | 8.48 | 12 |
| | C60HG021 | FS 4600 G 30 | CONCRETE SAW, 12" DEPTH, SELF-PROPELLED, 30" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 48 | HP | G | \$27,463 | 18.88 | 2.27 | 4.12 | 0.21 | 8.48 | 12 |
| | C60HG023 | FS 3500 E 30 | CONCRETE SAW, 11.5" DEPTH, SELF-PROPELLED, 30" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 30 | HP | E | \$16,140 | 9.33 | 1.33 | 2.42 | 0.12 | 2.62 | 9 |
| | C60HG024 | FS 4600 G 26 | CONCRETE SAW, 12" DEPTH, SELF-PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 48 | HP | G | \$27,402 | 18.86 | 2.27 | 4.11 | 0.21 | 8.48 | 12 |
| | C60HG025 | FS 309 G 14 | CONCRETE SAW, 4.625" DEPTH, MANUAL, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 9 | HP | G | \$1,747 | 2.39 | 0.14 | 0.26 | 0.01 | 1.59 | 2 |
| | C60HG026 | FS 513 G 18 | CONCRETE SAW, 7.5" DEPTH, SELF-PROPELLED, 18" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 13 | HP | G | \$4,340 | 4.07 | 0.36 | 0.65 | 0.03 | 2.30 | 4 |
| | C60HG011 | FS 6600 D 20 | CONCRETE SAW, 6.5" DEPTH, SELF-PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 | HP | D-on | \$28,909 | 18.55 | 2.39 | 4.34 | 0.22 | 7.58 | 19 |
| | C60HG014 | FS 3500 E 26 | CONCRETE SAW, 10.625" DEPTH, SELF-PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 30 | HP | E | \$15,984 | 9.28 | 1.32 | 2.40 | 0.12 | 2.62 | 9 |
| | C60HG012 | FS 6600 D 26 | CONCRETE SAW, 10.625" DEPTH, SELF-PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 | HP | D-on | \$30,388 | 19.04 | 2.51 | 4.56 | 0.23 | 7.58 | 19 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>C60</i> | <i>HUSQVARNA CONSTRUCTION PRODUCTS (continued)</i> | | | | | | | | | | | |
| | C60HG013 | FS 6600 D 36 | CONCRETE SAW, 14.875" DEPTH, SELF PROPELLED, 36" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 HP | D-on | \$30,632 | 19.13 | 2.54 | 4.59 | 0.24 | 7.58 | 20 |
| | C60HG016 | FS 8400 D 36 | CONCRETE SAW, 14.875" DEPTH, SELF PROPELLED, 36" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 84 HP | D-on | \$37,845 | 23.95 | 3.13 | 5.68 | 0.29 | 9.64 | 21 |
| <i>C65</i> | CONCRETE VIBRATORS | | | | | | | | | | | |
| | SUBCATEGORY 0.00 CONCRETE VIBRATORS | | | | | | | | | | | |
| | MULTIQUIP, INC. | | | | | | | | | | | |
| | C65MU001 | CV1A | CONCRETE VIBRATOR, 1.375" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 1 HP | E | \$577 | 0.61 | 0.07 | 0.13 | 0.00 | 0.06 | 1 |
| | C65MU002 | CV2A | CONCRETE VIBRATOR, 2.175" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 2 HP | E | \$638 | 0.77 | 0.08 | 0.14 | 0.01 | 0.13 | 1 |
| | C65MU003 | CV3A | CONCRETE VIBRATOR, 2.625" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 3 HP | E | \$764 | 0.97 | 0.10 | 0.17 | 0.01 | 0.19 | 1 |
| | C65MU004 | G55H | CONCRETE VIBRATOR, 2.325" HEAD, 21' SHAFT, W/GAS MOTOR ON CART | 6 HP | G | \$1,561 | 2.22 | 0.19 | 0.35 | 0.01 | 0.71 | 2 |
| | WACKER CORPORATION | | | | | | | | | | | |
| | C65WC006 | IRFU 57 W/A5000 | CONCRETE VIBRATOR, 2.3" HEAD, 16.5' SHAFT, HI-FREQ INTERNAL, GAS POWERED MOTOR | 6 HP | G | \$3,453 | 4.14 | 0.42 | 0.78 | 0.03 | 0.77 | 1 |
| | C65WC005 | H45 HEAD W/A5000 | CONCRETE VIBRATOR, 1.75" HEAD, 13' SHAFT, W/GAS MOTOR ON CART | 6 HP | G | \$2,118 | 2.73 | 0.26 | 0.48 | 0.02 | 0.71 | 1 |
| | C65WC004 | HMS KIT H50 HA | CONCRETE VIBRATOR, 2" HEAD, 13' SHAFT (ADD 2KV GENERATOR) | 3 HP | E | \$1,518 | 1.79 | 0.18 | 0.34 | 0.01 | 0.19 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>C65</i> | | | <i>WACKER CORPORATION (continued)</i> | | | | | | | | | |
| | C65WC003 | IRFU 57 W/ M3000 | CONCRETE VIBRATOR, 2.3" HEAD, 16.5' SHAFT, HI-FREQ INTERNAL (ADD 2KV GENERATOR) | 3 HP | E | \$2,835 | 2.98 | 0.34 | 0.64 | 0.02 | 0.19 | 1 |
| C75 | CRANES, HYDRAULIC, SELF-PROPELLED | | | | | | | | | | | |
| | | SUBCATEGORY 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | | | | | | | | | |
| | BRODERSON MANUFACTURING CORPORATION | | | | | | | | | | | |
| | C75BD012 | IC-35-2F | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 4.0 TON, 19' BOOM, 4X2, NON- ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 49 HP | D-off | \$102,276 | 17.52 | 3.84 | 6.17 | 0.75 | 3.77 | 77 |
| | C75BD013 | IC-20-1J | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 2.5 TON, 15' BOOM, 4X2, NON- ROTATING OPERATOR'S CAB, BOOM ROTATES 90 | 49 HP | D-off | \$85,369 | 15.33 | 3.19 | 5.14 | 0.62 | 3.77 | 64 |
| | C75BD014 | IC-80-1J | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 9 TON, 24' BOOM, 4X4, NON- ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 74 HP | D-off | \$156,725 | 26.84 | 5.85 | 9.42 | 1.14 | 5.70 | 164 |
| | C75BD015 | IC-250-3D | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 18.0 TON, 50' BOOM, 4X4, NON- ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 100 HP | D-off | \$239,587 | 40.10 | 8.92 | 14.33 | 1.75 | 7.70 | 377 |
| | C75BD016 | RT-300-2G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15.0 TON, 60' BOOM, 4X4, 20' OFFSET, NON-ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 163 HP | D-off | \$317,097 | 56.61 | 11.62 | 18.61 | 2.31 | 12.56 | 448 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---------------------------------|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>BRODERSON MANUFACTURING CORPORATION (continued)</i> | C75BD017 | IC-40-2C | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 4.5 TON, 19' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 49 HP | D-off | \$109,026 | 20.30 | 3.71 | 5.82 | 0.80 | 3.77 | 90 |
| | C75BD018 | IC-200-3H | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15.0 TON, 50' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 100 HP | D-off | \$208,487 | 36.09 | 7.74 | 12.44 | 1.52 | 7.70 | 311 |
| | C75BD019 | IC-400-3A | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 25 TON, 64' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB, BOOM ROTATES 360 | 160 HP | D-off | \$331,860 | 58.14 | 12.35 | 19.85 | 2.42 | 12.33 | 549 |
| | C75BD009 | IC-80-3G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 8.5 TON, 30' BOOM, 4X2 | 69 HP | G | \$120,399 | 27.36 | 4.49 | 7.22 | 0.88 | 10.23 | 172 |
| | C75BD005 | IC-80-1G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 9.0 TON, 20' BOOM, 4X2, NON-ROTATING OPERATOR'S CAB | 69 HP | G | \$116,553 | 26.87 | 4.35 | 6.99 | 0.85 | 10.23 | 163 |
| | C75BD006 | IC-200-3F | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15.0 TON, 50' BOOM, 4X2, NON-ROTATING OPERATOR'S CAB | 110 HP | G | \$169,099 | 40.85 | 6.26 | 10.05 | 1.23 | 16.31 | 308 |
| | GROVE CRANES (MANITOWOC) | | | | | | | | | | | |
| | C75GV029 | YB4411 | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 10.5 TON, 32' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB | 80 HP | G | \$183,496 | 37.40 | 6.86 | 11.04 | 1.34 | 11.86 | 175 |
| | C75GV030 | YB5515-2 | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15 TON, 41' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB | 100 HP | G | \$277,329 | 53.88 | 10.18 | 16.32 | 2.02 | 14.82 | 326 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C75 | <i>GROVE CRANES (MANITOWOC) (continued)</i> | | | | | | | | | | | |
| | C75GV023 | RT530E-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 95' BOOM, 4X4 | 160 HP | D-off | \$451,732 | 74.11 | 16.81 | 27.02 | 3.30 | 12.33 | 580 |
| | C75GV024 | RT640E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 40 TON, 105' BOOM 4X4 | 173 HP | D-off | \$593,441 | 97.40 | 21.75 | 34.83 | 4.33 | 13.33 | 650 |
| | C75GV016 | RT9130E-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 130 TON, 160' BOOM, 4X4, W/HOOK BLOCK & BALL | 300 HP | D-off | \$1,540,326 | 242.84 | 56.44 | 90.40 | 11.24 | 23.11 | 1,364 |
| | C75GV031 | RT765E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 65 TON, 110' BOOM, 4X4, W/HOOK BLOCK & BALL | 240 HP | D-off | \$719,200 | 131.49 | 25.56 | 40.62 | 5.25 | 18.49 | 934 |
| | C75GV032 | RT880E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 80 TON, 128' BOOM, 4X4, W/HOOK BLOCK & BALL | 275 HP | D-off | \$870,242 | 150.32 | 31.56 | 50.41 | 6.35 | 21.19 | 1,093 |
| | TADANO MANTIS | | | | | | | | | | | |
| | C75TD001 | 6010 | CRANES, HYDRAULIC, TELESCOPIC BOOM, CRAWLER, 30 TON, 33' - 80' BOOM, LIFTING | 173 HP | D-off | \$466,941 | 75.19 | 17.59 | 28.35 | 3.41 | 13.33 | 629 |
| | C75TD002 | 9010 | CRANES, HYDRAULIC, TELESCOPIC BOOM, CRAWLER, 45 TON, 34' - 105' BOOM, LIFTING | 206 HP | D-off | \$686,039 | 106.26 | 25.84 | 41.65 | 5.01 | 15.87 | 939 |
| | C75TD009 | GR-350XL-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 35 TON, 112' BOOM, 4X4 | 180 HP | D-off | \$377,494 | 64.28 | 14.21 | 22.92 | 2.75 | 13.87 | 537 |
| | C75TD010 | GR-550XL-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 55TON, 175' BOOM, 4X4 | 247 HP | D-off | \$485,858 | 84.07 | 18.30 | 29.50 | 3.55 | 19.03 | 882 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | | |
|------------|---|------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|-----|--|--|--|--|--|--|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | | |
| <i>C75</i> | <i>TADANO MANTIS (continued)</i> | | | 247 HP D-off | | \$639,469 | 103.83 | 24.08 | 38.82 | 4.67 | 19.03 | 945 | | | | | | | | | | |
| | C75TD011 | GR-750XL-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 75 TON, 180' BOOM, 4X4 | | | | | | | | | | | | | | | | | | | |
| | TEREX CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| | C75TE006 | RT-555 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 55 TON, 110' BOOM, 4X4 | | | | \$519,857 | 83.59 | 19.26 | 30.93 | 3.79 | 13.33 | 922 | | | | | | | | | |
| | C75TE001 | RT230 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 94' BOOM, 4X4 | | | | 68.53 | 15.60 | 25.04 | 3.08 | 10.02 | 563 | | | | | | | | | | |
| <i>C80</i> | CRANES, HYDRAULIC, TRUCK MOUNTED | | | 152 HP D-off | | \$548,701 | 87.74 | 20.27 | 32.53 | 4.00 | 11.71 | 634 | | | | | | | | | | |
| | SUBCATEGORY 0.01 UNDER 26 TON | | | | | | | | | | | | | | | | | | | | | |
| | TEREX CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| | C80TE008 | CD225 | CRANES, HYDRAULIC, TRUCK MTD, ROUGH TERRAIN, 25 TON, 72' BOOM, 4X4 | | | | 48.09 | 11.65 | 18.63 | 2.33 | 8.62 | 525 | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | | | | | | | | | |
| | C80XX002 | BT4792 | CRANES, HYDRAULIC, TRUCK MTD, BOOM TRUCK, 23.5 TON, 102' BOOM, 6X2 | 350 HP D-on | | \$223,719 | 60.05 | 8.21 | 13.16 | 1.63 | 28.97 | 600 | | | | | | | | | | |
| | C80XX001 | 1970C | CRANES, HYDRAULIC, TRUCK MTD, BOOM TRUCK, 17 TON, 80' BOOM, 4X2 | 245 HP D-off | | \$176,458 | 39.46 | 6.54 | 10.49 | 1.29 | 16.25 | 330 | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|------------------|--------------------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.02 | 26 TON THRU 65 TON | | | | | | | | | | |
| | | GROVE CRANES (MANITOWOC) | | | | | | | | | | |
| | C80GV006 | TMS-700E | CRANES, HYDRAULIC, TRUCK MTD, 50 TON, 110' BOOM, 8X4 | 400 HP | D-off | \$890,289 | 125.95 | 29.88 | 46.87 | 6.44 | 26.54 | 771 |
| | C80GV029 | TMS750E | CRANES, HYDRAULIC, TRUCK MTD, 50 TON, 110' BOOM, 8X4X4 | 160 HP | D-on | \$923,295 | 119.61 | 30.90 | 48.43 | 6.68 | 17.11 | 926 |
| | C80GV033 | GMK3055 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 60 TON, 141' BOOM, 6X4X6 | 355 HP | D-on | \$1,091,166 | 158.74 | 36.20 | 56.60 | 7.90 | 29.38 | 782 |
| | C80GV030 | TMS760E | CRANES, HYDRAULIC, TRUCK MTD, 60 TON, 110' BOOM, 8X4X4 | 310 HP | D-on | \$925,285 | 129.36 | 30.97 | 48.54 | 6.70 | 25.66 | 870 |
| | | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | C80LB009 | HTC-8640 SL | CRANES, HYDRAULIC, TRUCK MTD, 40 TON, 105' BOOM, 6X4X2 | 365 HP | D-on | \$646,962 | 104.10 | 21.65 | 33.94 | 4.68 | 30.21 | 575 |
| | C80LB011 | HTC-8660 II | CRANES, HYDRAULIC, TRUCK MTD, 60 TON, 110' BOOM, 8X4X4 | 365 HP | D-on | \$654,664 | 104.93 | 21.92 | 34.35 | 4.74 | 30.21 | 831 |
| | | TEREX CORPORATION | | | | | | | | | | |
| | C80TE007 | T340-1 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 40 TON, 94' BOOM, 6X4 | 300 HP | D-on | \$515,779 | 83.93 | 17.25 | 27.03 | 3.73 | 24.83 | 556 |
| | C80TE009 | T560-1 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 60 TON, 110' BOOM, 8X4 | 450 HP | D-on | \$705,955 | 118.39 | 23.62 | 37.02 | 5.11 | 37.25 | 977 |
| | SUBCATEGORY 0.03 | 66 TON THRU 125 TON | | | | | | | | | | |
| | | GROVE CRANES (MANITOWOC) | | | | | | | | | | |
| | C80GV034 | GMK4100B | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 100 TON, 167' BOOM, 8X6X8 | 402 HP | D-on | \$1,556,934 | 204.86 | 47.37 | 72.31 | 11.21 | 33.27 | 940 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------------|---|---------------------------------|-------------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>C80</i> | <i>GROVE CRANES (MANITOWOC) (continued)</i> | | | | | | | | | | | |
| | C80GV035 | TMS800E | CRANES, HYDRAULIC, TRUCK MTD, 80 TON, 128' BOOM, 8X4X4 | 402 HP D-on | | \$1,013,821 | 142.06 | 30.97 | 47.33 | 7.30 | 33.27 | 922 |
| | TADANO MANTIS | | | | | | | | | | | |
| | C80TD006 | ATF 70G-4 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 75 TON, 145' BOOM, 8X6 | 129 HP D-off | 435 HP D-on | \$838,195 | 105.83 | 25.21 | 38.33 | 6.04 | 14.37 | 1,067 |
| | C80TD007 | ATF 100G-6 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 110 TON, 168' BOOM, 8X6 | 175 HP D-off | 435 HP D-on | \$1,121,868 | 138.30 | 33.91 | 51.66 | 8.08 | 17.42 | 945 |
| | C80TD003 | ATF-90G-4 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 90 TON, 138' BOOM, 8X8 | 158 HP D-off | 375 HP D-on | \$1,144,273 | 133.57 | 35.26 | 54.04 | 8.24 | 15.49 | 1,070 |
| | TEREX CORPORATION | | | | | | | | | | | |
| | C80TE001 | CROSSOVER 8000 | CRANES, HYDRAULIC, TRUCK MTD, 80 TON, 126' TELESCOPIC BOOM, 6X10 | 485 HP D-on | | \$652,180 | 112.97 | 19.83 | 30.25 | 4.70 | 40.14 | 989 |
| | SUBCATEGORY 0.04 OVER 125 TON | | | | | | | | | | | |
| | GROVE CRANES (MANITOWOC) | | | | | | | | | | | |
| | C80GV016 | GMK 6350 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 200 TON, 197' BOOM, 12X8 | 255 HP D-on | 563 HP D-on | \$3,159,444 | 359.31 | 88.69 | 132.09 | 22.64 | 28.63 | 1,425 |
| | TADANO MANTIS | | | | | | | | | | | |
| | C80TD008 | ATF 130G-5 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 160 TON, 197' BOOM, 10X8 | 173 HP D-off | 551 HP D-on | \$1,338,268 | 158.05 | 37.24 | 55.29 | 9.59 | 18.84 | 1,333 |
| | C80TD004 | ATF-130G-5 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 160 TON, 197' BOOM, 10X6 | 173 HP D-off | 551 HP D-on | \$1,338,245 | 156.01 | 37.47 | 55.76 | 9.59 | 18.84 | 1,330 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|-----|---|-------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|-------|-------|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| C85 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.11 DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | | | | | | | | | | | | | |
| | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | | | |
| | C85LB025 | 108 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 50 TON, 70' BOOM (ADD BUCKET) | 197 HP | D-off | | \$690,458 | 99.09 | 24.96 | 39.45 | 5.23 | 10.96 | 968 | |
| | SUBCATEGORY 0.12 DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | | | | | | | | | | | | | |
| | KOBELCO AMERICA INC. | | | | | | | | | | | | | |
| | C85KC001 | CK850G | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 85 TON, 190' BOOM (ADD BUCKET) | 285 HP | D-off | | \$657,688 | 93.20 | 21.39 | 32.88 | 4.95 | 15.86 | 1,657 | |
| | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | | | |
| | C85LB019 | 138 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 80 TON, 100' BOOM (ADD BUCKET) | 284 HP | D-off | | \$902,571 | 121.06 | 29.36 | 45.13 | 6.79 | 15.80 | 1,390 | |
| | TEREX CORPORATION | | | | | | | | | | | | | |
| | C85TE004 | HC 80 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 100' BOOM, LIFTING/CLAMSHELL | 185 HP | D-off | | \$689,840 | 90.48 | 22.44 | 34.49 | 5.19 | 10.29 | 1,430 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|--------------------------------------|--|--------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | | | | | | | | | | |
| | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | |
| C85LB021 | 238 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 150 TON, 100' BOOM (ADD BUCKET) | 284 HP D-off | | | \$1,429,398 | 171.75 | 42.46 | 63.53 | 10.69 | 15.80 | 3,357 |
| | MANITOWOC ENGINEERING CO. | | | | | | | | | | | |
| C85MA002 | 777 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 5.0 CY, 130' BOOM (ADD BUCKET) | 340 HP D-off | | | \$1,561,270 | 189.40 | 46.37 | 69.39 | 11.67 | 18.92 | 3,815 |
| C85MA011 | 1015 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 3.5 CY, 80' BOOM (ADD BUCKET) | 600 HP D-off | | | \$1,986,891 | 251.23 | 59.01 | 88.31 | 14.85 | 33.38 | 2,083 |
| | TEREX CORPORATION | | | | | | | | | | | |
| C85TE017 | HC 165 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 165 TON, 80' BOOM (ADD BUCKET) | 310 HP D-off | | | \$1,386,038 | 168.64 | 41.16 | 61.60 | 10.36 | 17.25 | 3,090 |
| C85TE005 | HC 110 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 100' BOOM, LIFTING/CLAMSHELL | 240 HP D-off | | | \$884,445 | 110.18 | 26.27 | 39.31 | 6.61 | 13.35 | 1,911 |
| C85TE006 | HC 165 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 165 TON, 80' BOOM (ADD BUCKET) | 310 HP D-off | | | \$1,386,038 | 168.64 | 41.16 | 61.60 | 10.36 | 17.25 | 3,090 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--------------------------------------|----------------------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | | | | | | | | | | |
| | MANITOWOC ENGINEERING CO. | | | | | | | | | | | |
| | C85MA003 | 999 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 7.0 CY, 140' BOOM (ADD BUCKET) | 400 HP | D-off | \$2,266,837 | 258.62 | 62.21 | 90.67 | 16.87 | 22.26 | 5,100 |
| | SUBCATEGORY 0.22 | LIFTING, 26 TON THRU 50 TON | | | | | | | | | | |
| | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | |
| | C85LB024 | 108 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 50 TON, 70' BOOM, LIFTING | 197 HP | D-off | \$649,938 | 71.24 | 19.31 | 28.89 | 4.86 | 8.01 | 968 |
| | SUBCATEGORY 0.23 | LIFTING, 51 TON THRU 150 TON | | | | | | | | | | |
| | KOBELCO AMERICA INC. | | | | | | | | | | | |
| | C85KC009 | CK1100 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 110 TON, 200' BOOM, LIFTING | 285 HP | D-off | \$794,798 | 88.10 | 22.59 | 33.78 | 5.70 | 11.59 | 2,148 |
| | C85KC010 | CK1600 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 160 TON, 250' BOOM, LIFTING | 363 HP | D-off | \$1,283,656 | 137.96 | 36.48 | 54.56 | 9.20 | 14.76 | 3,338 |
| | C85KC005 | CK850 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 85 TON, 200' BOOM, LIFTING | 213 HP | D-off | \$658,235 | 71.93 | 18.71 | 27.97 | 4.72 | 8.66 | 1,729 |
| | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | |
| | C85LB001 | 138 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 40' TUBULAR BOOM, LIFTING | 248 HP | D-off | \$825,784 | 89.40 | 23.47 | 35.10 | 5.92 | 10.08 | 1,464 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>C85</i> | <i>LINK-BELT CONSTRUCTION EQUIPMENT CO. (continued)</i> | | | | | | | | | | | |
| | C85LB014 | 218 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 110 TON, 230' BOOM, LIFTING | 284 HP | D-off | \$1,078,552 | 114.98 | 30.65 | 45.84 | 7.73 | 11.55 | 1,790 |
| | C85LB015 | 238 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 150 TON, 240' BOOM, LIFTING | 284 HP | D-off | \$1,492,843 | 154.29 | 42.43 | 63.45 | 10.70 | 11.55 | 3,357 |
| | MANITOWOC ENGINEERING CO. | | | | | | | | | | | |
| | C85MA012 | 1015 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 120 TON, 210' BOOM, LIFTING | 600 HP | D-off | \$1,953,939 | 212.10 | 55.52 | 83.04 | 14.00 | 24.40 | 2,197 |
| | C85MA008 | 555 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 260' BOOM, LIFTING | 340 HP | D-off | \$1,303,924 | 138.85 | 37.05 | 55.42 | 9.34 | 13.82 | 3,121 |
| | C85MA005 | 555 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 150 TON, 250' BOOM, LIFTING | 340 HP | D-off | \$1,302,270 | 138.69 | 37.01 | 55.35 | 9.33 | 13.82 | 2,744 |
| | TEREX CORPORATION | | | | | | | | | | | |
| | C85TE008 | HC 80 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 100' BOOM, LIFTING/CLAMSHELL | 185 HP | D-off | \$689,840 | 73.68 | 19.60 | 29.32 | 4.94 | 7.52 | 1,430 |
| | C85TE009 | HC 110 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 100' BOOM, LIFTING/CLAMSHELL | 240 HP | D-off | \$884,445 | 94.61 | 25.14 | 37.59 | 6.34 | 9.76 | 1,911 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.24 LIFTING, OVER 150 TON | | | | | | | | | | | |
| | | | KOBELCO AMERICA INC. | | | | | | | | | |
| | C85KC008 | CK2000 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 50' BOOM, LIFTING | 316 HP | D-off | \$1,413,112 | 143.74 | 37.38 | 54.60 | 10.08 | 12.85 | 3,622 |
| | C85KC011 | CK2750 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 275 TON, 300' BOOM, LIFTING | 363 HP | D-off | \$1,851,336 | 186.02 | 48.97 | 71.53 | 13.20 | 14.76 | 5,236 |
| | | | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | |
| | C85LB016 | 248 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 280' BOOM, LIFTING | 284 HP | D-off | \$1,904,006 | 187.31 | 50.36 | 73.56 | 13.58 | 11.55 | 3,242 |
| | | | MANITOWOC ENGINEERING CO. | | | | | | | | | |
| | C85MA006 | 777 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 260' BOOM, LIFTING | 340 HP | D-off | \$1,577,346 | 159.87 | 41.72 | 60.94 | 11.25 | 13.82 | 3,929 |
| | C85MA007 | 999 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 250 TON, 260' BOOM, LIFTING | 375 HP | D-off | \$2,141,338 | 213.16 | 56.64 | 82.73 | 15.27 | 15.25 | 4,942 |
| | | | TEREX CORPORATION | | | | | | | | | |
| | C85TE016 | HC 230 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 230 TON, 280' BOOM, LIFTING | 300 HP | D-off | \$1,865,066 | 184.46 | 49.33 | 72.06 | 13.30 | 12.20 | 3,864 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---|---------------------|---|---------------------------------|-------------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| C90 CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | |
| | SUBCATEGORY 0.03 66 TON THRU 125 TON | | | | | | | | | | | |
| | MANITEX | | | | | | | | | | | |
| | C90MX001 | 6430 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 30 TON, 50' BOOM, DRAGLINE/CLAMSHELL CAPABLE, 6X4 | 260 HP D-off | 260 HP D-on | \$764,815 | 95.91 | 22.53 | 33.62 | 5.72 | 16.82 | 610 |
| | SUBCATEGORY 0.04 OVER 125 TON | | | | | | | | | | | |
| | LINK-BELT CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | |
| | C90LB001 | HC-238H II | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 150 TON, 260' BOOM, 8X4 | 200 HP D-off | 445 HP D-on | \$1,688,033 | 188.46 | 45.78 | 66.44 | 12.56 | 16.21 | 1,913 |
| | C90LB003 | HC-278 H II | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 300 TON, 330' BOOM, 12X6 | 445 HP D-off | 445 HP D-on | \$3,122,155 | 339.20 | 84.51 | 122.55 | 23.23 | 28.80 | 3,385 |
| C95 CRANES, TOWER | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 CRANES, TOWER | | | | | | | | | | | |
| | LIEBHERR CONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | |
| | C95LH024 | 172 EC-B 8 LITRONIC | TOWER CRANE, TROLLEY JIB MODEL, 8.8 TON MAX, 2.1 TON @ 197' MAX RADIUS, 207' MAX HOOK HEIGHT W/ 12 COUNT - 13' 7" TALL SECTIONS (ADD 480V 3P 60HZ 100A POWER) | 60 HP E | | \$743,047 | 86.74 | 22.07 | 33.02 | 5.56 | 3.78 | 1,968 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|--|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>C95</i> | <i>LIEBHERR CONSTRUCTION EQUIPMENT CO. (continued)</i> | | | 147 HP E | | \$926,617 | 113.98 | 27.52 | 41.18 | 6.93 | 9.27 | 2,234 | |
| | C95LH025 | 316 EC-H 12 LITRONIC | TOWER CRANE, TROLLEY JIB MODEL, 13.2 TON MAX, 3 TON MAX @ 246' MAX RADIUS, 184' MAX HOOK HEIGHT W/ 10 COUNT - 13' 7" TALL SECTIONS (ADD 480V 3P 60HZ 200A POWER) | | | | | | | | | | |
| | C95LH026 | 550 EC-H 20 LITRONIC | TOWER CRANE, TROLLEY JIB MODEL, 22 TON MAX, 4.4 TON @ 267' MAX RADIUS, 238' MAX HOOK HEIGHT W/ 13 COUNT - 19' TALL SECTIONS (ADD 480V 3P 60HZ 250A POWER) | | | | \$1,524,396 | 175.04 | 45.28 | 67.75 | 11.40 | 9.27 | 4,117 |
| | C95LH027 | 630 EC-H 20/40 LITRO | TOWER CRANE, TROLLEY JIB MODEL, 22 TON MAX, 6.4 TON @ 267' MAX RADIUS, 195' MAX HOOK HEIGHT W/ 10 COUNT - 19' TALL SECTIONS (ADD 480V 3P 60HZ 250A POWER) | | | | \$1,731,369 | 196.17 | 51.42 | 76.95 | 12.94 | 9.27 | 4,456 |
| | C95LH028 | 357 HC-L 12/24 LITRO | TOWER CRANE, LUFFING BOOM CRANE, 26.5 TON MAX, 3.5 TON @ 197' MAX RADIUS, 194' TOWER HEIGHT W/ 8 COUNT - 19' TALL SECTIONS (ADD 480V 3P 60HZ 300A POWER) | | | | \$1,869,340 | 212.27 | 55.52 | 83.08 | 13.98 | 9.27 | 3,350 |
| | C95LH029 | 542 CH-L 18/36 LITRO | TOWER CRANE, LUFFING BOOM CRANE, 35.3 TON MAX, 5.4 TON @ 197' MAX RADIUS, 175' TOWER HEIGHT W/ 7 COUNT - 19' TALL SECTIONS (ADD 480V 3P 60HZ 350A POWER) | | | | \$2,143,306 | 247.88 | 63.65 | 95.26 | 16.02 | 13.56 | 3,984 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|--|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| D10 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | DRILLS, AIR TRACK (Add cost for drill steel and bit wear) | | | | | | | | | | |
| | SCHRAMM, INC | | | | | | | | | | | |
| D10S2001 | T450GT | DRILL, AIR TRACK, CRAWLER, GEOTHERMAL/WATER WELL RIG, 30,000 LBF PULLBACK, 3.5"-4.5" DIA, INCLUDES 1,050 CFM AIR COMPRESSOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | 580 HP | D-off | | \$1,242,599 | 224.85 | 43.04 | 66.57 | 9.75 | 47.17 | 591 |
| D10S2002 | T685EX | DRILL, AIR TRACK, CRAWLER, MINERAL EXPLORATION, 40,000 LBF PULLBACK, 3.5"-5.5" DIA, INCLUDES 1,350 CFM AIR COMPRESSOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | 905 HP | D-off | | \$2,210,881 | 388.45 | 76.56 | 118.44 | 17.34 | 73.59 | 963 |
| D10S2003 | T685WS | DRILL, AIR, TRUCK MTD, MINERAL EXPLORATION, 40,000 LBF PULLBACK, 3.5"-5.5" DIA, INCLUDES 1,350 CFM AIR COMPRESSOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | 760 HP | D-off | | \$1,527,390 | 281.01 | 52.65 | 81.33 | 11.98 | 61.80 | 746 |
| | ATLAS COPCO WAGNER | | | | | | | | | | | |
| D10WG001 | AIRROC D40 | DRILL, AIR TRACK, CRAWLER MTD, 2"-3" DIA, 49.2' MAX DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 400 CFM COMPRESSOR) | | | | \$87,471 | 12.11 | 3.04 | 4.69 | 0.69 | 0.00 | 56 |
| D10WG002 | AIRROC D50 | DRILL, AIR TRACK, CRAWLER MTD, 2.5"-4" DIA, 49.2' MAX DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 750 CFM COMPRESSOR) | | | | \$138,874 | 19.21 | 4.81 | 7.44 | 1.09 | 0.00 | 106 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---------------------------------------|---|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>D10</i> | <i>ATLAS COPCO WAGNER (continued)</i> | | | | | \$88,942 | 12.30 | 3.08 | 4.76 | 0.70 | 0.00 | 55 |
| | D10WG003 | AIRROC T25 | DRILL, AIR TRACK, CRAWLER MTD, 2"-3" DIA, 49.2' MAX DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 400 CFM COMPRESSOR) | | | | | | | | | |
| | D10WG004 | AIRROC T35 | DRILL, AIR TRACK, CRAWLER MTD, 2.5"-4" DIA, 49.2' MAX DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 750 CFM COMPRESSOR) | | | \$137,407 | 19.01 | 4.76 | 7.36 | 1.08 | 0.00 | 106 |
| | SUBCATEGORY 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | | | | | | | | | | |
| CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | D10CA001 | MD5075 | DRILL, AIR TRACK, CRAWLER, UP TO 5" DIA, 103 FT MAX DEPTH, INCLUDES 350 CFM AIR COMPRESSOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | 300 HP | D-off | \$616,183 | 145.68 | 28.04 | 46.21 | 4.93 | 24.40 | 430 |
| | D10CA002 | MD5090 | DRILL, HYDRAULIC TRACK, CRAWLER, 3.5"-5" DIA, 73 FT MAX DEPTH, INCLUDES 300 CFM AIR COMPRESSOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | 300 HP | D-off | | 119.82 | 21.86 | 36.04 | 3.84 | 24.40 | 410 |
| D15 | DRILLS, HORIZONTAL | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | | | | | | | | | | |
| BOR-IT MANUFACTURING COMPANY INC. | | | | | | | | | | | | |
| | D15B1001 | 12 MIGHT MAX | DRILL, HORIZONTAL BORING, 12" DIA, COMBINED HEAD 28,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD BACKHOE) | 12 HP | G | | \$17,146 | 5.23 | 0.79 | 1.29 | 0.14 | 1.88 |
| | | | | | | | | | | | | 6 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|----------|-------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>BOR-IT MANUFACTURING COMPANY INC. (continued)</i> | D15BI002 | 20 POWER HOUSE II | DRILL, HORIZONTAL BORING, 20" DIA, COMBINED HEAD 44,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 20 HP | D-off | \$33,066 | 7.78 | 1.50 | 2.48 | 0.26 | 1.63 | 17 |
| | D15BI003 | 24 BRUTE | DRILL, HORIZONTAL BORING, 24" DIA, COMBINED HEAD 84,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 30 HP | D-off | \$48,270 | 11.43 | 2.20 | 3.62 | 0.39 | 2.44 | 38 |
| | D15BI004 | 30 POWER PLUS | DRILL, HORIZONTAL BORING, 30" DIA, COMBINED HEAD 170,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 45 HP | D-off | \$73,470 | 17.34 | 3.35 | 5.51 | 0.59 | 3.66 | 70 |
| | D15BI005 | 36 WORKHORSE | DRILL, HORIZONTAL BORING, 36" DIA, COMBINED HEAD 225,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 62 HP | D-off | \$98,529 | 23.40 | 4.49 | 7.39 | 0.79 | 5.04 | 90 |
| | D15BI006 | 48 TERMINATOR | DRILL, HORIZONTAL BORING, 48" DIA, COMBINED HEAD 525,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 119 HP | D-off | \$157,587 | 39.23 | 7.17 | 11.82 | 1.26 | 9.68 | 170 |
| | D15BI008 | 54 TERMINATOR II | DRILL, HORIZONTAL BORING, 54" DIA, COMBINED HEAD 32,700,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 189 HP | D-off | \$216,854 | 56.27 | 9.86 | 16.26 | 1.73 | 15.37 | 250 |
| | D15BI007 | 60 | DRILL, HORIZONTAL BORING, 60" DIA, COMBINED HEAD 1,100,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 189 HP | D-off | \$194,267 | 52.21 | 8.84 | 14.57 | 1.55 | 15.37 | 250 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|--|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | NO SPECIFIC MANUFACTURER | | | | | | | | | |
| | D15XX001 | 4"-12" DIA | DRILL, HORIZONTAL BORING, 4" - 12" CASING DIA, 25,000 LBS THRUST, HYDRAULIC MOTOR (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD BACKHOE) | 12 HP | D-off | \$10,693 | 3.03 | 0.49 | 0.80 | 0.09 | 0.98 | 6 |
| | D15XX002 | 4"-20" DIA | DRILL, HORIZONTAL BORING, 4" - 20" DIA, 44,000 LBS THRUST, HYDRAULIC MOTOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | 20 HP | D-off | \$24,219 | 6.19 | 1.10 | 1.82 | 0.19 | 1.63 | 18 |
| | | SUBCATEGORY 0.20 DRILLS, HORIZONTAL & DIRECTIONAL | (Add cost for drill steel and bit wear) | | | | | | | | | |
| | | | VERMEER MANUFACTURING CO. | | | | | | | | | |
| | D15VE001 | D6x6 | DRILL, HORIZONTAL DIRECTIONAL, 2.25" DIA, 5,500 LB THRUST, W/150' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 25 HP | D-off | \$54,935 | 12.17 | 2.50 | 4.12 | 0.44 | 2.03 | 32 |
| | D15VE002 | D9x13 III | DRILL, HORIZONTAL DIRECTIONAL, 2.5" DIA, 9,000 LB THRUST, W/300' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 44 HP | D-off | \$91,121 | 20.42 | 4.15 | 6.83 | 0.73 | 3.58 | 63 |
| | D15VE003 | D16x20 II | DRILL, HORIZONTAL DIRECTIONAL, 3.5" DIA, 16,000 LB THRUST, W/400' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 63 HP | D-off | \$128,044 | 28.79 | 5.82 | 9.60 | 1.02 | 5.12 | 105 |
| | D15VE004 | D20x22 III | DRILL, HORIZONTAL DIRECTIONAL, 3.5" DIA, 20,000 LB THRUST, W/400' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 74 HP | D-off | \$132,282 | 30.57 | 6.02 | 9.92 | 1.06 | 6.02 | 109 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>D15</i> | <i>VERMEER MANUFACTURING CO. (continued)</i> | | | | | | | | | | | |
| | D15VE005 | D24x40 III | DRILL, HORIZONTAL DIRECTIONAL, 3.5" DIA, 24,000 LB THRUST, W/500' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 125 HP | D-off | \$231,069 | 53.00 | 10.52 | 17.33 | 1.85 | 10.17 | 207 |
| | D15VE006 | D30x50DR II | DRILL, HORIZONTAL DIRECTIONAL, 3.5" DIA, 32,700 LB THRUST, W/525' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 140 HP | D-off | \$343,035 | 74.51 | 15.61 | 25.73 | 2.74 | 11.38 | 289 |
| | D15VE007 | D80x100 II | DRILL, HORIZONTAL DIRECTIONAL, 5.0" DIA, 80,000 LB THRUST, W/360' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 200 HP | D-off | \$567,430 | 120.39 | 25.82 | 42.56 | 4.54 | 16.26 | 425 |
| | D15VE008 | D100x120 II | DRILL, HORIZONTAL DIRECTIONAL, 5.0" DIA, 100,000 LB THRUST, W/300' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 225 HP | D-off | \$633,108 | 134.49 | 28.80 | 47.48 | 5.06 | 18.30 | 435 |
| | D15VE009 | MX125 | DRILL, HORIZONTAL DIRECTIONAL, 500 GAL, DRILLING FLUID MIXING SYSTEM (ADD TRAILER COST) | 6 HP | G | \$7,422 | 2.32 | 0.34 | 0.56 | 0.06 | 0.86 | 3 |
| | D15VE010 | MX240 | DRILL, HORIZONTAL DIRECTIONAL, 750 GAL, DRILLING FLUID MIXING SYSTEM (ADD TRAILER COST) | 22 HP | D-off | \$14,772 | 4.67 | 0.68 | 1.11 | 0.12 | 1.79 | 7 |
| | D15VE011 | MX240 | DRILL, HORIZONTAL DIRECTIONAL, 1,000 GAL, DRILLING FLUID MIXING SYSTEM (ADD TRAILER COST) | 22 HP | D-off | \$22,391 | 6.04 | 1.02 | 1.68 | 0.18 | 1.79 | 13 |
| | D15VE012 | MX240 & MX125 | DRILL, HORIZONTAL DIRECTIONAL, 750 GAL, DRILLING FLUID MIXING SYSTEM WITH TRAILER | 28 HP | D-off | \$46,344 | 10.86 | 2.11 | 3.48 | 0.37 | 2.24 | 81 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | NO SPECIFIC MANUFACTURER | | | | | | | | | |
| | D15XX003 | RST-1400 | DRILL, HORIZONTAL DIRECTIONAL, 1,400 GAL, TRAILER MOUNTED DRILLING FLUID MIXING SYSTEM, INCLUDES 3PH GEN SET | 30 HP | D-off | \$95,248 | 19.81 | 4.21 | 6.90 | 0.76 | 2.44 | 117 |
| D20 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | | | | | | | | | |
| | | | ACKER DRILL COMPANY INC. | | | | | | | | | |
| | D20AD007 | 1200-G | DRILL, CORE, COLUMN MOUNTED, 12" DIA MAX CORE HOLE (ADD COST FOR DRILL STEEL AND BIT WEAR) | 8 HP | E | \$17,840 | 5.58 | 0.99 | 1.67 | 0.15 | 0.62 | 3 |
| | | | DYNATECH | | | | | | | | | |
| | D20DN001 | M-1 DRILL RIG COMBO | DRILL, CORE, COLUMN MOUNTED, 1" TO 10" BIT DIA, CB 350/900 MOTOR (20 AMP) (INCLUDES VACUUM) | 4 HP | E | \$2,170 | 0.87 | 0.12 | 0.20 | 0.02 | 0.27 | 2 |
| | D20DN002 | M-2 DRILL RIG COMBO | DRILL, CORE, COLUMN MOUNTED, 10" BIT DIA, WEKA DK22 300/640/960 MOTOR (23 AMP) (INCLUDES VACUUM), PROF HEAVY DUTY | 2 HP | E | \$3,129 | 0.93 | 0.18 | 0.29 | 0.03 | 0.17 | 2 |
| | D20DN003 | M-6 DRILL BIT SYSTEM | DRILL, CORE, COLUMN MOUNTED, 18" BIT DIA, HYDRAULIC CHAR-LYNN 9.6 CU IN W/ GAS POWER PACK | 18 HP | G | \$12,751 | 5.79 | 0.70 | 1.20 | 0.10 | 2.83 | 7 |
| | D20DN004 | M-6 DRILL BIT SYSTEM | DRILL, CORE, COLUMN MOUNTED, 18" BIT DIA, HYDRAULIC CHAR-LYNN 9.6 CU IN W/ ELECT POWER PACK | 13 HP | E | \$23,347 | 6.50 | 1.29 | 2.19 | 0.19 | 0.97 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|-------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | HUSQVARNA CONSTRUCTION PRODUCTS | | | | | | | | | |
| | D20HG022 | DM 406 H | HYDRAULIC DRILL, CORE, COLUMN MOUNTED, 1"-24" BIT DIA WITH POWER PACK AND DRILL STAND (ADD COST FOR DRILL STEEL AND BIT WEAR) | 18 HP | G | \$15,027 | 6.28 | 0.83 | 1.41 | 0.12 | 2.83 | 8 |
| D25 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | | | | | | | | | |
| | | | ACKER DRILL COMPANY INC. | | | | | | | | | |
| | D25AD004 | ACE W | DRILL, CORE, SKID MTD, 725' MAX DRILL DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR) | 28 HP | D-off | \$89,597 | 19.61 | 4.08 | 6.72 | 0.72 | 2.28 | 35 |
| | D25AD003 | BUSH MASTER | DRILL, CORE, SKID MTD, 1500' MAX DRILL DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR) | 69 HP | D-off | \$169,343 | 38.49 | 7.70 | 12.70 | 1.35 | 5.61 | 45 |
| | | | E-Z DRILL, INC. | | | | | | | | | |
| | D25EZ002 | 210 B | DRILL, CORE, SKID MTD, 0.6"-2.5" DIA., 18" DEPTH, HORIZONTAL DOWELLING ASSEMBLY (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 100 CFM COMPRESSOR) | 100 CFM | A | \$7,761 | 1.98 | 0.35 | 0.58 | 0.06 | 0.00 | 3 |
| | D25EZ003 | 210 B SRA | DRILL, CORE, SKID MTD, 0.6"-2.5" DIA., 18" DEPTH, HORIZONTAL DOWELLING ASSEMBLY (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 100 CFM COMPRESSOR) | 100 CFM | A | \$8,513 | 2.13 | 0.39 | 0.64 | 0.07 | 0.00 | 3 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| D25 | | | <i>E-Z DRILL, INC. (continued)</i> | | | \$32,456 | 7.44 | 1.48 | 2.43 | 0.26 | 0.00 | 12 |
| D25 | D25EZ005 | 210-3 SRA | DRILL, CORE, SELF PROPELLED, 0.6"-2.5" DIA., 18" DEPTH, DOWELLING MACHINE (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 100 CFM COMPRESSOR) | 100 CFM | A | | | | | | | |
| D30 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | | | | | | | | | | | |
| | SUBCATEGORY | 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | | | | | | | | | |
| | HYDRAULIC POWER SYSTEMS, INC. | | | | | | | | | | | |
| | D30HD001 | H-15 | DRILL, AUGER, HYDRAULIC, W/60' 8" X 21" LEADS, 15,000 FT-LBS TORQUE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR AND CRANE) | 210 HP | D-off | \$194,344 | 58.23 | 8.84 | 14.58 | 1.55 | 17.08 | 146 |
| | D30HD002 | H-35VT | DRILL, AUGER, HYDRAULIC, W/60' 8" X 27" LEADS, 33,000 FT-LBS TORQUE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR AND CRANE) | 270 HP | D-off | \$241,477 | 73.70 | 10.99 | 18.11 | 1.93 | 21.96 | 200 |
| | D30HD003 | H-50VT | DRILL, AUGER, HYDRAULIC, W/60' 8" X 33" LEADS, 50,000 FT-LBS TORQUE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR AND CRANE) | 335 HP | D-off | \$292,021 | 90.26 | 13.29 | 21.90 | 2.34 | 27.24 | 269 |
| | MOBILE DRILL | | | | | | | | | | | |
| | D30MR001 | MINUTEMAN | DRILL, EARTH / AUGER, W/AUGER KIT, 3" DIA, 35' DEPTH, 664 FT-LBS TORQUE, PORTABLE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | 8 HP | G | \$16,362 | 4.56 | 0.75 | 1.23 | 0.13 | 1.26 | 4 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|--|--|---------------------------------|--------------|--------------------------|----------------------------|---------|---------------------|-------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>D30</i> | <i>MOBILE DRILL (continued)</i> | | | | | | | | | | | | |
| | D30MR003 B-31 | DRILL, EARTH / AUGER, HYDRAULIC AUGER, 6" DIA, 135' DEPTH, 4,450 FT-LBS TORQUE, W/19.5K GVW TRUCK (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | | | 58 HP D-off | 230 HP G | \$134,815 | 36.14 | 6.04 | 9.92 | 1.08 | 9.23 | 42 |
| | D30MR005 B-48 | DRILL, EARTH / AUGER, MULTI-PURPOSE, 6" DIA, 300' DEPTH, 8,611 FT-LBS TORQUE, W/ 19.5K GVW TRUCK (W/PTO DRIVE)(ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | | | 100 HP D-off | 230 HP G | \$291,741 | 69.88 | 13.18 | 21.69 | 2.33 | 12.64 | 120 |
| | D30MR006 B-60 | DRILL, EARTH / AUGER, MULTI-PURPOSE, 8" DIA, 250' DEPTH, 7,000 FT-LBS TORQUE W/45,000 GVW TRUCK (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | | | 115 HP D-off | 260 HP D-off | \$405,260 | 90.88 | 18.29 | 30.09 | 3.24 | 12.13 | 130 |
| | D30MR007 B-61HT | DRILL, EARTH / AUGER, MULTI-PURPOSE, 8" DIA, 375' DEPTH, 20,000 FT-LBS TORQUE W/33,000 GVW TRUCK (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | | | 115 HP D-off | 260 HP D-on | \$331,307 | 77.55 | 14.97 | 24.64 | 2.65 | 12.82 | 205 |
| <i>D35</i> | DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | |
| | SUBCATEGORY 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER | HOLE (Add cost for drill steel and bit wear) | | | | | | | | | | |
| | SANDVIK [DRILLTECH] | | | | | | | | | | | | |
| | D35DT001 D25KS | DRILL, ROTARY BLASTHOLE, 5"-6.75" DIA., 27,000 LB PULLDOWN, CRAWLER, 88' DEEP(ADD COST FOR DRILL STEEL AND BIT WEAR) | | | 450 HP D-off | | \$846,077 | 162.52 | 30.59 | 48.35 | 6.41 | 36.59 | 620 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|-----------|--|---------------------------------|-------------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>D35</i> | <i>SANDVIK [DRILLTECH] (continued)</i> | | | 450 HP D-off | | \$843,895 | 162.20 | 30.50 | 48.22 | 6.39 | 36.59 | 720 |
| | D35DT002 | D245KS | DRILL, ROTARY BLASTHOLE, 5"-8" DIA., 40,000 LB PULLDOWN, CRAWLER, 148' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | | | | | | | |
| | D35DT003 | D45KS | DRILL, ROTARY BLASTHOLE, 6"-9" DIA., 45,000 LB PULLDOWN, CRAWLER, 208' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | | | | | | | |
| | D35DT004 | D50KS | DRILL, ROTARY BLASTHOLE, 6"-9.875" DIA., 50,000 LB PULLDOWN, CRAWLER, 148' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | | | | | | | |
| | D35DT005 | D55SP | DRILL, ROTARY BLASTHOLE, 6.75"-10" DIA., 45,000 LB PULLDOWN, CRAWLER, 55' DEEP (SINGLE PASS) (ADD COST FOR DRILL STEEL AND BIT WEAR) | 760 HP D-off | | \$1,502,748 | 284.91 | 54.32 | 85.87 | 11.38 | 61.80 | 1,320 |
| | REICHDRILL | | | 540 HP D-off | 505 HP D-on | \$780,623 | 169.95 | 28.03 | 44.23 | 5.91 | 50.65 | 560 |
| | D35RL007 | T-650-DII | DRILL, ROTARY BLASTHOLE, 5"-6 3/4" DIA., 30,000 LBS PULL BACK, TRUCK MTD, 200' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | | | | | | | |
| | SUBCATEGORY 0.12 DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | | | 760 HP D-off | | \$1,351,417 | 221.45 | 40.13 | 60.06 | 10.10 | 61.80 | 1,400 |
| | SANDVIK [DRILLTECH] | | | | | | | | | | | |
| | D35DT006 | D75KS | DRILL, ROTARY BLASTHOLE, 9"-11" DIA., 75,000 LB PULLDOWN, CRAWLER, 173' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | ATLAS COPCO WAGNER | | | | | | | | | |
| | D35WG001 | T2W | DRILL, ROTARY BLASTHOLE, WATER WELL, 6"-24" DIA., 40,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 425 HP | D-on | \$793,381 | 138.32 | 23.40 | 34.94 | 5.93 | 43.12 | 447 |
| | D35WG002 | TH60 | DRILL, ROTARY BLASTHOLE, WATER WELL, 5"-20" DIA., 40,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 600 HP | D-on | \$808,414 | 160.24 | 23.85 | 35.61 | 6.04 | 60.88 | 549 |
| | D35WG003 | TH60DH | DRILL, ROTARY BLASTHOLE, WATER WELL, 5"-20" DIA., 70,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 600 HP | D-on | \$873,733 | 167.54 | 25.79 | 38.51 | 6.53 | 60.88 | 549 |
| | D35WG004 | T3W | DRILL, ROTARY BLASTHOLE, WATER WELL, 6"-24" DIA., 40,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 380 HP | D-on | \$827,220 | 136.89 | 24.40 | 36.44 | 6.18 | 38.55 | 660 |
| | D35WG005 | T3WDH | DRILL, ROTARY BLASTHOLE, WATER WELL, 6"-24" DIA., 70,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 380 HP | D-on | \$896,765 | 144.66 | 26.47 | 39.53 | 6.70 | 38.55 | 668 |
| | D35WG006 | T4W | DRILL, ROTARY BLASTHOLE, WATER WELL, 6"-20" DIA., 50,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 755 HP | D-on | \$901,236 | 188.54 | 26.61 | 39.73 | 6.74 | 76.60 | 605 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------|--------------------------|------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| F10 FORK LIFTS | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 | FORK LIFTS | | | | | | | | | | |
| | JCB INC. | | | | | | | | | | | |
| | F10JC001 | 930-4 | FORK LIFT, ROUGH TERRAIN, 6,000 LBS @ 22' HIGH STRAIGHT MAST, 4X4 | 74 HP | D-off | \$81,400 | 19.70 | 3.73 | 6.19 | 0.63 | 4.91 | 148 |
| | F10JC002 | 940-4 | FORK LIFT, ROUGH TERRAIN, 8,000 LBS @ 22' HIGH STRAIGHT MAST, 4X4 | 74 HP | D-off | \$90,715 | 21.26 | 4.17 | 6.93 | 0.70 | 4.91 | 168 |
| G10 GENERATOR SETS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | PORTABLE | | | | | | | | | | |
| | WACKER CORPORATION | | | | | | | | | | | |
| | G10WC005 | GPS 9700V | GENERATOR SET, PORTABLE, 9.3 KW, 120/240V, 60HZ | 14 HP | G | \$4,924 | 2.90 | 0.32 | 0.55 | 0.04 | 1.74 | 11 |
| | G10WC001 | GP 3800A | GENERATOR SET, PORTABLE, 3.7 KW, 120/240V, 60 HZ | 8 HP | G | \$2,234 | 1.59 | 0.15 | 0.25 | 0.02 | 1.03 | 2 |
| | G10WC002 | GP 5600A | GENERATOR SET, PORTABLE, 5.6 KW, 120/240V, 60 HZ | 11 HP | G | \$2,578 | 2.07 | 0.17 | 0.29 | 0.02 | 1.41 | 2 |
| | G10WC003 | GS 8.5V | GENERATOR SET, PORTABLE, 8.5 KW, 120/240V, 60 HZ, WITH ELECTRIC START | 16 HP | G | \$4,156 | 3.11 | 0.27 | 0.47 | 0.03 | 2.06 | 2 |
| | G10WC004 | GPS 9700V | GENERATOR SET, PORTABLE, 9.7 KW, 120/240V, 60 HZ, WITH ELECTRIC START | 18 HP | G | \$4,735 | 3.50 | 0.31 | 0.53 | 0.04 | 2.32 | 2 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | G10XX001 | 1.6KW | GENERATOR SET, PORTABLE, 1.6 KW | 6 HP | G | \$1,074 | 1.06 | 0.07 | 0.12 | 0.01 | 0.77 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|-----------|---|---------------------------------|--------------|--------------------------|----------------------------|---------|---------------------|-------|-------|--------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>G10</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | 10 HP G | 16 HP G | \$3,610 | 2.15 | 0.24 | 0.41 | 0.03 | 1.29 | 3 | |
| | G10XX004 | 5KW | GENERATOR SET, PORTABLE, 5 KW | | | | 2.60 | 0.10 | 0.18 | 0.01 | 2.06 | | |
| | G10XX002 | 10KW | GENERATOR SET, PORTABLE, 10 KW | | | \$1,593 | | | | | | 3 | |
| | SUBCATEGORY 0.20 SKID MOUNTED | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | 900 HP D-off | 302 HP D-off | \$134,055 | 88.82 | 7.00 | 12.06 | 0.97 | 59.71 | 167 | |
| | G10CA021 | C18 | GENERATOR SET, SKID MTD, 600 EKW, 208-600V, 60 HZ PGS PRIME | | | | | | | | | | |
| | G10CA022 | C7.1 | GENERATOR SET, SKID MTD, 200 EKW, 240/480V, 60 HZ PGS PRIME | | | | \$46,855 | 30.12 | 2.45 | 4.22 | 0.34 | 20.03 | 40 |
| | G10CA012 | C9 250KW | GENERATOR SET, SKID MTD, 250 EKW, 240 VOLT, 60 HZ PGS PRIME | | | | \$82,083 | 49.17 | 4.29 | 7.39 | 0.59 | 31.84 | 50 |
| | G10CA013 | C9 300KW | GENERATOR SET, SKID MTD, 300 EKW, 240/480 VOLT, 60 HZ PGS PRIME | | | | \$87,956 | 50.18 | 4.60 | 7.92 | 0.64 | 31.84 | 68 |
| | G10CA014 | C15 350KW | GENERATOR SET, SKID MTD, 365 EKW, 240/480V, 60 HZ PGS PRIME | | | | \$97,392 | 67.10 | 5.09 | 8.77 | 0.70 | 45.71 | 72 |
| | G10CA015 | C15 455KW | GENERATOR SET, SKID MTD, 455 EKW, 240/480V, 60 HZ PGS PRIME | | | | \$127,118 | 72.03 | 6.64 | 11.44 | 0.92 | 45.58 | 93 |
| | G10CA017 | C27 | GENERATOR SET, SKID MTD, 750 EKW, 480 VOLT, 60 HZ PGS PRIME | | | | \$200,313 | 123.13 | 10.47 | 18.03 | 1.45 | 80.54 | 181 |
| | G10CA018 | C32 | GENERATOR SET, SKID MTD, 1000 EKW, 480 VOLT, 60 HZ PGS PRIME | | | | \$194,199 | 141.13 | 10.14 | 17.48 | 1.40 | 97.79 | 236 |
| | G10CA019 | 3516B HD | GENERATOR SET, SKID MTD, 1450 EKW, 4160 VOLT, 60 HZ PGS PRIME | | | | \$436,220 | 228.27 | 22.78 | 39.26 | 3.15 | 139.31 | 291 |
| | NO SPECIFIC MANUFACTURER | | | 49 HP D-off | | \$15,690 | 6.26 | 0.82 | 1.41 | 0.11 | 3.25 | 17 | |
| | G10XX005 | 20KW | GENERATOR SET, SKID MTD, 20 KW | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>G10</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | G10XX006 | 30KW | GENERATOR SET, SKID MTD, 30 KW | 48 HP | D-off | \$15,210 | 6.10 | 0.80 | 1.37 | 0.11 | 3.18 | 17 |
| | G10XX007 | 50KW | GENERATOR SET, SKID MTD, 50 KW | 85 HP | D-off | \$15,981 | 8.96 | 0.84 | 1.44 | 0.12 | 5.64 | 22 |
| | G10XX008 | 75KW | GENERATOR SET, SKID MTD, 75 KW | 126 HP | D-off | \$43,380 | 16.62 | 2.26 | 3.90 | 0.31 | 8.36 | 50 |
| | G10XX009 | 90KW | GENERATOR SET, SKID MTD, 90 KW | 158 HP | D-off | \$49,370 | 20.00 | 2.58 | 4.44 | 0.36 | 10.48 | 58 |
| | G10XX010 | 116D | GENERATOR SET, SKID MTD, 116 KW | 197 HP | D-off | \$33,235 | 20.11 | 1.74 | 2.99 | 0.24 | 13.07 | 55 |
| | G10XX011 | 240D | GENERATOR SET, SKID MTD, 240 KW | 363 HP | D-off | \$49,582 | 35.05 | 2.59 | 4.46 | 0.36 | 24.08 | 98 |
| | G10XX012 | 300D | GENERATOR SET, SKID MTD, 300 KW | 428 HP | D-off | \$88,685 | 46.48 | 4.63 | 7.98 | 0.64 | 28.39 | 105 |
| | G10XX013 | 400D | GENERATOR SET, SKID MTD, 400 KW | 689 HP | D-off | \$107,327 | 68.80 | 5.61 | 9.66 | 0.78 | 45.71 | 150 |
| | G10XX014 | 550D | GENERATOR SET, SKID MTD, 550 KW | 900 HP | D-off | \$134,055 | 88.82 | 7.00 | 12.06 | 0.97 | 59.71 | 167 |
| | G10XX015 | 750D | GENERATOR SET, SKID MTD, 750 KW | 1,214 HP | D-off | \$199,505 | 122.99 | 10.42 | 17.96 | 1.44 | 80.54 | 140 |
| | G10XX016 | 1000D | GENERATOR SET, SKID MTD, 1,000 KW | 1,474 HP | D-off | \$192,583 | 140.86 | 10.06 | 17.33 | 1.39 | 97.79 | 154 |
| G15 | GRADERS, MOTOR | | | | | | | | | | | |
| | SUBCATEGORY 0.00 GRADERS, MOTOR | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | G15CA010 | 12M3 AWD | GRADER, MOTOR, ARTICULATED, 6X6, 12' BLADE W/11 TEETH SCARIFIERS | 252 HP | D-off | \$410,980 | 69.19 | 13.54 | 20.63 | 3.22 | 15.64 | 427 |
| | G15CA011 | 140M3 | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/11 TEETH SCARIFIERS AND RIPPER | 200 HP | D-off | \$409,867 | 64.81 | 13.50 | 20.58 | 3.21 | 12.41 | 427 |
| | G15CA012 | 160M3 AWD | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/11 TEETH SCARIFIERS AND RIPPER | 293 HP | D-off | \$528,321 | 85.70 | 17.49 | 26.70 | 4.14 | 18.18 | 456 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|--------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>G15</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | G15CA001 | 120-M2 | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/11 TEETH SCARIFIERS | 145 HP | D-off | \$317,822 | 48.94 | 10.53 | 16.07 | 2.49 | 9.00 | 351 |
| | G15CA003 | 12-M2 | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/11 TEETH SCARIFIERS | 179 HP | D-off | \$384,405 | 60.37 | 12.64 | 19.26 | 3.01 | 11.11 | 336 |
| | G15CA004 | 140-M2 | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/5 RIPPER/SCARIFIERS | 200 HP | D-off | \$407,734 | 64.56 | 13.43 | 20.47 | 3.19 | 12.41 | 334 |
| | G15CA009 | 160-M2 | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/9 RIPPER/SCARIFIERS | 213 HP | D-off | \$433,865 | 67.29 | 14.25 | 21.70 | 3.40 | 13.22 | 381 |
| | G15CA005 | 14-M | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/7 SHANK RIPPER | 259 HP | D-off | \$562,628 | 85.67 | 18.75 | 28.68 | 4.41 | 16.07 | 471 |
| | G15CA006 | 16-M | GRADER, MOTOR, ARTICULATED, 6X4, 16' BLADE W/7 SHANK RIPPER | 297 HP | D-off | \$956,631 | 137.55 | 31.67 | 48.35 | 7.49 | 18.43 | 575 |
| | JOHN DEERE | | | | | | | | | | | |
| | G15JD008 | 670G | GRADER, MOTOR, ARTICULATED, 6X4, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 151 HP | D-off | \$283,209 | 46.65 | 9.23 | 14.02 | 2.22 | 9.37 | 343 |
| | G15JD009 | 672G | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 156 HP | D-off | \$299,812 | 49.48 | 9.79 | 14.88 | 2.35 | 9.68 | 353 |
| | G15JD010 | 770G | GRADER, MOTOR, ARTICULATED, 6X4, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 185 HP | D-off | \$305,854 | 51.70 | 10.00 | 15.20 | 2.40 | 11.48 | 353 |
| | G15JD011 | 772G | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 205 HP | D-off | \$353,026 | 59.14 | 11.59 | 17.64 | 2.77 | 12.72 | 363 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|-----------------------------------|---|-------|---|------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | AVERAGE | STANDBY | DEPR | FCCM | | | |
| H10 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | | | | | | | | | | | |
| | SUBCATEGORY 0.00 HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | | | | | | | | | | | |
| NPK CONSTRUCTION EQUIPMENT | | | | | | | | | | | | |
| H10NP019 | GH-06 | | HAMMERS, HYDRAULIC, 150 FT-LBS, IMPACT FREQUENCY 840 BPM (ADD 150-250 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$7,060 | 3.06 | 0.53 | 0.94 | 0.06 | 0.00 | 2 |
| H10NP020 | GH-07 | | HAMMERS, HYDRAULIC, 200 FT-LBS, IMPACT FREQUENCY 850 BPM (ADD 60-75 HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | \$7,377 | 3.15 | 0.55 | 0.98 | 0.06 | 0.00 | 3 |
| H10NP021 | PH-1 | | HAMMERS, HYDRAULIC, 350 FT-LBS, IMPACT FREQUENCY 830 BPM (ADD 60- 75HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | \$8,632 | 3.96 | 0.65 | 1.15 | 0.07 | 0.00 | 4 |
| H10NP022 | PH-2 | | HAMMERS, HYDRAULIC, 500 FT-LBS, IMPACT FREQUENCY 900 BPM (ADD 60-75 HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | \$10,735 | 4.63 | 0.81 | 1.43 | 0.09 | 0.00 | 5 |
| H10NP023 | PH-3 | | HAMMERS, HYDRAULIC, 750 FT-LBS, IMPACT FREQUENCY 830 BPM (ADD 75-100 HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | \$13,996 | 6.07 | 1.05 | 1.87 | 0.11 | 0.00 | 8 |
| H10NP024 | PH-4 | | HAMMERS, HYDRAULIC, 1,300 FT-LBS, IMPACT FREQUENCY 730 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$22,268 | 8.72 | 1.67 | 2.97 | 0.18 | 0.00 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|-------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H10</i> | <i>NPK CONSTRUCTION EQUIPMENT (continued)</i> | | | | | | | | | | | |
| | H10NP025 | GH6 | HAMMERS, HYDRAULIC, 2,000 FT-LBS, IMPACT FREQUENCY 650 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$39,749 | 14.70 | 2.97 | 5.30 | 0.32 | 0.00 | 22 |
| | H10NP026 | GH7 | HAMMERS, HYDRAULIC, 2,500 FT-LBS, IMPACT FREQUENCY 580 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$50,738 | 18.22 | 3.80 | 6.77 | 0.41 | 0.00 | 29 |
| | H10NP027 | GH9 | HAMMERS, HYDRAULIC, 2,500 FT-LBS, IMPACT FREQUENCY 590 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$59,634 | 21.06 | 4.47 | 7.95 | 0.49 | 0.00 | 36 |
| | H10NP028 | GH12 | HAMMERS, HYDRAULIC, 5,500 FT-LBS, IMPACT FREQUENCY 430 BPM (ADD 28-43 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$83,160 | 28.99 | 6.23 | 11.09 | 0.68 | 0.00 | 57 |
| | H10NP029 | GH15 | HAMMERS, HYDRAULIC, 8,000 FT-LBS, IMPACT FREQUENCY 360 BPM (ADD 33-50 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$108,679 | 37.13 | 8.13 | 14.49 | 0.88 | 0.00 | 68 |
| | H10NP030 | GH40 | HAMMERS, HYDRAULIC, 20,000 FT-LBS, IMPACT FREQUENCY 290 BPM (ADD 80-130 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$266,201 | 87.49 | 19.92 | 35.49 | 2.17 | 0.00 | 170 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| H13 HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | |
| | SUBCATEGORY 0.11 | COMPACTORS (Compression force) | 0 THRU 50 TONS | | | | | | | | | |
| | CONSOLIDATED BALING MACHINE COMPANY, INC | | | | | | | | | | | |
| H13CB001 | DOS RAW WI | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, RADIOLOGICAL WASTE, 12.5 TON, LOW LEVEL | 5 HP E | | | \$28,591 | 5.82 | 1.43 | 2.43 | 0.21 | 0.32 | 25 |
| H13CB002 | DOS RAW W2 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, RADIOLOGICAL WASTE, 20 TON, LOW LEVEL | 10 HP E | | | \$30,914 | 6.72 | 1.55 | 2.63 | 0.23 | 0.63 | 25 |
| | WASTE CONTROL SYSTEMS, INC. | | | | | | | | | | | |
| H13CO002 | 8041CC | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 37 TON HAZARD WASTE IN-DRUM , EXPLOSION PROOF | 5 HP E | | | \$15,531 | 3.51 | 0.78 | 1.32 | 0.12 | 0.32 | 167 |
| | ENVIRO-PAK | | | | | | | | | | | |
| H13EP001 | 4000HM | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON HAZARDOUS WASTE, HAZ-MAT STORAGE CONTAINER 40"X40"X40" | 5 HP E | | | \$34,403 | 6.86 | 1.72 | 2.92 | 0.26 | 0.32 | 32 |
| | TEEMARK CORPORATION | | | | | | | | | | | |
| H13TH001 | DPC60-E50 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON DRUM CRUSHER | 5 HP E | | | \$13,410 | 2.88 | 0.67 | 1.14 | 0.10 | 0.32 | 20 |
| H13TH002 | DPC60-D90 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON DRUM CRUSHER, TRAILER MOUNTED | 9 HP D-off | | | \$23,292 | 4.79 | 1.14 | 1.94 | 0.17 | 0.60 | 32 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| <i>H13</i> | <i>TEEMARK CORPORATION (continued)</i> | | | 9 HP D-off | | \$24,779 | 5.07 | 1.23 | 2.07 | 0.19 | 0.60 | 47 | | | | | | | | | |
| | H13TH003 | DPC85-D90 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 42.5 TON DRUM CRUSHER, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | |
| | ADVANCED ENVIRONMENTAL SOLUTIONS | | | | | | | | | | | | | | | | | | | | |
| | H13YB004 | SMASH-IT CY BOX COMP | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, COMPACTS 3'X3'X3' BOX, 6000 LBS FORCE, 27" STROKE LENGTH, 3:1 COMPACTION RATIO | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.12 COMPACTORS (Compression force) | | | | | | OVER 50 TONS | | | | | | | | | | | | | | |
| | WASTE CONTROL SYSTEMS, INC. | | | 3 HP E | | \$42,614 | 7.13 | 1.75 | 2.84 | 0.33 | 0.19 | 270 | | | | | | | | | |
| | H13CO003 | 8551 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM | | | | | | | | | | | | | | | | | | |
| | H13CO004 | 8564 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM, W/HEPA FILTER | | | | | | | | | | | | | | | | | | |
| | H13CO006 | 8560-EX | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM, W/HEPA FILTER & SS PLATEN & CHAMBER | | | | | | | | | | | | | | | | | | |
| | H13CO005 | 8560-EXL | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM, EXPLOSION PROOF, W/LIQUID REMOVAL SYSTEM | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|---------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | H13EP002 | 9600HM | ENVIRO-PAK HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 42.5 TON HAZARDOUS WASTE, B-25 METAL STORAGE CONTAINER 4'X4'X6' | 8 HP | E | \$45,875 | 8.12 | 1.88 | 3.06 | 0.35 | 0.47 | 100 |
| | | | SUBCATEGORY 0.21 FILTER PRESSES, STATIONARY | | | | | | | | | |
| | H13DC001 | EP1000/32-48 | DURCO FILTERS HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 48 CHAMBERS, 1M X 1M POLYPROPYLENE PLATES, 40 CF CAKE CAPACITY PER FILTER, 830 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG | | | \$54,745 | 10.07 | 2.61 | 4.38 | 0.42 | 0.00 | 108 |
| | H13DC002 | EP1200/32-78 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 72 CHAMBERS, 1.2M X 1.2M POLYPROPYLENE PLATES, 97 CF CAKE CAPACITY PER FILTER, 1825 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG | | | \$134,385 | 24.72 | 6.42 | 10.75 | 1.04 | 0.00 | 244 |
| | H13DC003 | EP1500/32-76 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 76 CHAMBERS, 1.2M X 1.2M POLYPROPYLENE PLATES, 97 CF CAKE CAPACITY PER FILTER, 1825 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG | | | \$183,643 | 33.78 | 8.77 | 14.69 | 1.42 | 0.00 | 236 |
| | H13DC004 | EP1200/32-100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 100 CHAMBERS, 1.5M X 1.5M POLYPROPYLENE PLATES, 200 CF CAKE CAPACITY PER FILTER, 4042 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG | | | \$208,640 | 38.37 | 9.96 | 16.69 | 1.61 | 0.00 | 255 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | |
|-----|--|-------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|------|------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | |
| | EVOQUA | | | | | | | | | | | | | | |
| | H13EV001 | PLC 25-1000 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 25 CF STANDARD FILTER PRESS, 1,000 MM SQ | | 2 HP E | | | | \$67,724 | 12.60 | 3.23 | 5.42 | 0.52 | 0.09 | 125 |
| | H13EV003 | PLC 115-1200 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 115 CF STANDARD FILTER PRESS, 1,200 MM SQ | | 2 HP E | | | | \$142,193 | 26.30 | 6.79 | 11.38 | 1.10 | 0.09 | 460 |
| | H13EV004 | PLC 180-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 180 CF STANDARD FILTER PRESS, 1,500 MM SQ | | 3 HP E | | | | \$278,437 | 51.50 | 13.29 | 22.27 | 2.15 | 0.19 | 680 |
| | H13EV005 | PLC 270-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 270 CF MAXI FILTER PRESS, 1,500 MM SQ | | 10 HP E | | | | \$315,749 | 59.05 | 15.07 | 25.26 | 2.44 | 0.63 | 1,100 |
| | SUBCATEGORY 0.22 FILTER PRESSES, MOBILE | | | | | | | | | | | | | | |
| | DURCO FILTERS | | | | | | | | | | | | | | |
| | H13DC005 | EP1200/32-78 TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 72 CHAMBERS, 1.2M X 1.2M POLYPROPYLENE PLATES, 97 CF CAKE CAPACITY PER FILTER, 1825 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG, TRLR MTD | | A | | | | \$157,222 | 28.30 | 7.71 | 13.05 | 1.18 | 0.00 | 304 |
| | H13DC006 | EP1500/32-76 TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 76 CHAMBERS, 1.2M X 1.2M POLYPROPYLENE PLATES, 97 CF CAKE CAPACITY PER FILTER, 1825 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG, TRLR MTD | | A | | | | \$206,618 | 37.59 | 10.18 | 17.25 | 1.55 | 0.00 | 396 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------------|----------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H13</i> | <i>DURCO FILTERS (continued)</i> | | | | | | | | | | | |
| | H13DC007 | EP1000/32-48 M TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 48 CHAMBERS, 1M X 1M POLYPROPYLENE PLATES, 40 CF CAKE CAPACITY PER FILTER, 830 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG, FLATBED SEMI TRAILER MTD | | | \$78,385 | 14.76 | 3.77 | 6.35 | 0.59 | 0.00 | 168 |
| | H13DC008 | EP1200/32-100 M TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 100 CHAMBERS, 1.5M X 1.5M POLYPROPYLENE PLATES, 200 CF CAKE CAPACITY PER FILTER, 4042 SF TOTAL FILTER AREA, HYDRAULIC RAM 100 PSIG, FLATBED SEMI TRAILER MTD | | | \$230,811 | 41.90 | 11.39 | 19.31 | 1.73 | 0.00 | 315 |
| | EVOQUA | | | | | | | | | | | |
| | H13EV002 | PLC 100-1200M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 100 CF STANDARD FILTER PRESS, 1,200 MM SQ, TRAILER MOUNTED | 3 HP | E | \$570,346 | 103.30 | 28.51 | 48.48 | 4.27 | 0.19 | 145 |
| | H13EV006 | PLC 25-1000-TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 25 CF STANDARD FILTER PRESS, 1,000 MM SQ, FLATBED SEMI TRAILER MTD | 2 HP | E | \$91,512 | 17.25 | 4.43 | 7.47 | 0.69 | 0.09 | 185 |
| | H13EV007 | PLC 115-1200-TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 115 CF STANDARD FILTER PRESS, 1,200 MM SQ, FLATBED SEMI TRAILER MTD | 2 HP | E | \$166,539 | 30.59 | 8.17 | 13.84 | 1.25 | 0.09 | 520 |
| | H13EV008 | PLC 180-1500-TRLR | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 180 CF STANDARD FILTER PRESS, 1,500 MM SQ, FLATBED SEMI TRAILER MTD | 3 HP | E | \$301,752 | 54.81 | 14.93 | 25.34 | 2.26 | 0.19 | 740 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| SOMAT WASTE REDUCTION TECHNOLOGY | H13S5001 | 1PB-6D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 6-15 GPM CAPACITY, TRAILER MOUNTED | 3 HP | E | \$65,697 | 11.98 | 3.28 | 5.58 | 0.49 | 0.19 | 14 |
| | H13S5002 | 1PB-9D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 15-40 GPM CAPACITY, TRAILER MOUNTED | 5 HP | E | \$102,971 | 18.81 | 5.15 | 8.75 | 0.77 | 0.32 | 35 |
| | H13S5003 | 2PB-9D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 30-80 GPM CAPACITY, TRAILER MOUNTED | 5 HP | E | \$122,272 | 22.25 | 6.12 | 10.39 | 0.92 | 0.32 | 40 |
| | SUBCATEGORY 0.30 CENTRIFUGES | | | | | | | | | | | |
| | NORTH STAR ENGINEERED PRODUCTS, INC. | | | | | | | | | | | |
| | H13BC013 | GP 35 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 35 LB DRY WT. | 3 HP | E | \$14,404 | 5.98 | 1.56 | 2.88 | 0.12 | 0.19 | 9 |
| | H13BC012 | GP 60 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 60 LB DRY WT. | 3 HP | E | \$18,198 | 7.49 | 1.98 | 3.64 | 0.16 | 0.19 | 9 |
| | H13BC006 | 605 TX | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 60 LB DRY WT. | 3 HP | E | \$17,256 | 7.12 | 1.88 | 3.45 | 0.15 | 0.19 | 9 |
| | H13BC011 | GP 100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 100 LB DRY WT. | 5 HP | E | \$25,845 | 10.71 | 2.81 | 5.17 | 0.22 | 0.32 | 12 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|---------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H13</i> | <i>NORTH STAR ENGINEERED PRODUCTS, INC. (continued)</i> | | | 5 HP E | | \$25,845 | 10.71 | 2.81 | 5.17 | 0.22 | 0.32 | 12 |
| | H13BC003 | GP 130 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 130 LB DRY WT. | | | | | | | | | |
| | H13BC008 | 755 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 100 LB | 5 HP E | | \$35,107 | 14.38 | 3.81 | 7.02 | 0.30 | 0.32 | 12 |
| | SUBCATEGORY 0.40 SHREDDERS | | | | | | | | | | | |
| | GRANUTE-SATURN SYSTEMS(MAC CORPORATION) | | | 150 HP E | | \$416,966 | 95.65 | 20.68 | 35.12 | 3.12 | 9.46 | 200 |
| | H13MN001 | 52-32HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 32" X 52" OPENING, TRAILER MTD, W/DIESEL GENERATOR SET/BELT-TYPE INFEED & DISCHARGE CONVEYORS | | | | | | | | | |
| | H13MN002 | 62-40HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 38" X 62" OPENING, TRAILER MTD, W/DIESEL GENERATOR SET, HOOK-TYPE INFEED FOR TIRES, & DISCHARGE CONVEYOR | 200 HP E | | \$486,302 | 114.40 | 24.12 | 40.95 | 3.64 | 12.61 | 300 |
| | H13MN003 | 62-40HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 38" X 62" OPENING, TRAILER MTD, W/DIESEL GENERATOR SET, CRANE GRAPPLE & DISCHARGE CONVEYOR SYSTEM | 200 HP E | | \$572,989 | 131.76 | 28.45 | 48.32 | 4.29 | 12.61 | 300 |
| | H13MN004 | 72-46HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 45" X 72" OPENING, TRAILER MTD, W/DIESEL GENERATOR SET, CRANE GRAPPLE & DISCHARGE CONVEYOR SYSTEM | 300 HP E | | \$636,692 | 154.19 | 31.64 | 53.74 | 4.77 | 18.92 | 400 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------|---|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| SHRED-TECH LIMITED | H13SH001 | ST-25 | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 29" X 42" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 20 HP | E | \$42,577 | 9.92 | 2.13 | 3.62 | 0.32 | 1.26 | 23 |
| | H13SH002 | ST-25EL | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 29" X 46" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 20 HP | E | \$39,891 | 9.41 | 2.00 | 3.39 | 0.30 | 1.26 | 25 |
| | H13SH005 | ST-100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 63" X 70" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 100 HP | E | \$188,359 | 44.95 | 9.42 | 16.01 | 1.41 | 6.31 | 145 |
| | H13SH006 | ST-400EL | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 46" X 75" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 200 HP | E | \$252,560 | 66.47 | 12.63 | 21.47 | 1.89 | 12.61 | 350 |
| | H13SH007 | ST-400ES | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 46" X 53" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 200 HP | E | \$304,797 | 76.32 | 15.24 | 25.91 | 2.28 | 12.61 | 300 |
| | SUBCATEGORY 0.71 WASTE HANDLING EQUIPMENT, DRUM HANDLING | | | | | | | | | | | |
| | INLINE FILLING SYSTEMS | | | | | | | | | | | |
| | H13I2001 | DRUM FILLING MACHINE | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, DRUM HANDLING, DRUM FILLER, 55 GAL TOP FILL | 3 HP | E | \$52,383 | 25.85 | 6.01 | 11.13 | 0.44 | 0.19 | 11 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-------------------------------------|--|--|----|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| NO SPECIFIC MANUFACTURER | | | | | | | | | | | | |
| H13XX001 | DC7000-10 | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, 55 GAL DRUM CRUSHER, 3 KSI CRUSHING FORCE | 10 | HP | E | \$22,791 | 12.06 | 2.61 | 4.84 | 0.19 | 0.63 | 10 |
| H13XX002 | DW55-ITR | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, 55 GAL DRUM WASHER W/ IMMERSION HEATER, AUTO FILL, AND 1.5 HP DISCHARGE PUMP, PLC OPERATION | 2 | HP | E | \$127,358 | 62.30 | 14.60 | 27.06 | 1.07 | 0.09 | 15 |
| H13XX003 | FRK LFT DRUM GRAB | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, ADAPTS FORKLIFT TO LIFT/TRANSPORT 55 GAL DRUMS 1K LOAD CAPACITY | | | | \$457 | 0.22 | 0.05 | 0.10 | 0.00 | 0.00 | 1 |
| H13XX004 | DRUM TRUCK | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, 55 GAL PALLET JACK STYLE DRUM LIFT TRUCK, 660 LB CAPACITY, ON CASTORS | | | | \$947 | 0.46 | 0.11 | 0.20 | 0.01 | 0.00 | 1 |
| H20 HOISTS & AIR WINCHES | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 HOISTS & AIR WINCHES | | | | | | | | | | | |
| | INGERSOLL RAND CO. | | | | | | | | | | | |
| H20IR002 | FA2.5i | AIR WINCH, MANUAL BRAKE, 24" DRUM, 5,000 LBS CAP, 145 FPM (ADD 700 CFM COMPRESSOR) | 25 | CFM | A | \$43,799 | 8.59 | 2.29 | 3.89 | 0.34 | 0.00 | 11 |
| H20IR003 | FA5i | AIR WINCH, MANUAL BRAKE, 24" DRUM, 10,000 LBS CAP, 65 FPM (ADD 700 CFM COMPRESSOR) | 25 | CFM | A | \$46,266 | 9.17 | 2.42 | 4.11 | 0.36 | 0.00 | 19 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|--|---|-----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| H20 | | | <i>INGERSOLL RAND CO. (continued)</i> | | | \$75,333 | 14.85 | 3.94 | 6.70 | 0.59 | 0.00 | 32 | |
| | H20IR004 | FA10i | AIR WINCH, AUTOMATIC BRAKE, 24" DRUM, 22,000 LBS CAP, 30 FPM (ADD 800 CFM COMPRESSOR) | 31 CFM | A | | | | | | | | |
| H25 HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | H25CA034 | 301.7D CR | HYDRAULIC EXCAVATOR, MINI, CRAWLER-RUBBER TRACK, 3800 LBS, 0.07 CY BUCKET, 7.22' MAX DIGGING DEPTH | 18 HP | D-off | | \$36,797 | 8.54 | 2.03 | 3.45 | 0.30 | 1.19 | |
| | H25CA035 | 303.5E CR | HYDRAULIC EXCAVATOR, MINI, CRAWLER-RUBBER TRACK, 7,700 LBS, 0.11 CY BUCKET, 9.6' MAX DIGGING DEPTH | 32 HP | D-off | | \$58,200 | 13.79 | 3.20 | 5.46 | 0.47 | 2.12 | |
| | H25CA036 | 305E CR | HYDRAULIC EXCAVATOR, MINI, CRAWLER-RUBBER TRACK, 11,500 LBS, 0.17 CY BUCKET, 10.8' MAX DIGGING DEPTH | 42 HP | D-off | | \$72,555 | 17.36 | 3.99 | 6.80 | 0.59 | 2.79 | |
| | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | | |
| | H25KM034 | PC88MR-10 | HYDRAULIC EXCAVATOR, CRAWLER, 18,739 LBS, 0.26 CY BUCKET, 15' 0" MAX DIGGING DEPTH | 66 HP | D-off | | \$122,908 | 29.00 | 6.76 | 11.52 | 1.00 | 4.38 | |
| | H25KM018 | PC27MR-3 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 6,500 LBS, 0.05 CY BUCKET, 9'4" MAX DIGGING DEPTH | 26 HP | D-off | | \$42,641 | 10.30 | 2.35 | 4.00 | 0.35 | 1.72 | |
| | H25KM021 | PC45MR-5 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,737 LBS, 0.21 CY BUCKET, 12'0" MAX DIGGING DEPTH | 38 HP | D-off | | \$61,576 | 14.91 | 3.39 | 5.77 | 0.50 | 2.52 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H25</i> | <i>KOMATSU AMERICA INTERNATIONAL COMPANY (continued)</i> | | | | | | | | | | | |
| | H25KM022 | PC55MR-5 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 11,354 LBS, 0.24 CY BUCKET, 12'6" MAX DIGGING DEPTH | 38 HP | D-off | \$74,246 | 17.37 | 4.08 | 6.96 | 0.60 | 2.52 | 114 |
| | H25KM023 | PC78US-8 | HYDRAULIC EXCAVATOR, CRAWLER, 16,240 LBS, 0.37 CY BUCKET, 15'5" MAX DIGGING DEPTH | 65 HP | D-off | \$113,935 | 27.18 | 6.27 | 10.68 | 0.93 | 4.31 | 178 |
| | MELROE BOBCAT | | | | | | | | | | | |
| | H25ME001 | E20 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 4,306 LBS, 1.4 CY BUCKET, 8'6" MAX DIGGING DEPTH | 14 HP | D-off | \$30,296 | 6.97 | 1.67 | 2.84 | 0.25 | 0.92 | 43 |
| | H25ME002 | E35 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,468 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH | 34 HP | D-off | \$51,016 | 12.50 | 2.81 | 4.78 | 0.42 | 2.22 | 75 |
| | H25ME003 | E50 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,677 LBS, 0.18 CY BUCKET, 11' 6" MAX DIGGING DEPTH | 50 HP | D-off | \$66,453 | 16.76 | 3.66 | 6.23 | 0.54 | 3.30 | 107 |
| | SUBCATEGORY 0.11 OVER 12,500 LBS THRU 40,000 LBS | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | H25CA038 | 308E2 | HYDRAULIC EXCAVATOR, CRAWLER, 14,310 LBS, 0.48 CY BUCKET, 15.25' MAX DIGGING DEPTH | 65 HP | D-off | \$136,889 | 30.14 | 7.15 | 12.08 | 1.11 | 4.31 | 185 |
| | H25CA020 | 311F RR | HYDRAULIC EXCAVATOR, CRAWLER, 30,600 LBS, 0.69 CY BUCKET, 18.4' MAX DIGGING DEPTH | 70 HP | D-off | \$184,690 | 39.32 | 9.65 | 16.30 | 1.50 | 4.64 | 306 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|--------------|--|---------------------------------|----------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H25</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | H25CA021 | 312E | HYDRAULIC EXCAVATOR, CRAWLER, 33,080 LBS, 1.0 CY BUCKET, 18.2' MAX DIGGING DEPTH | 91 | HP D-off | \$202,769 | 44.25 | 10.59 | 17.89 | 1.64 | 6.04 | 331 |
| | <i>KOBELCO AMERICA INC.</i> | | | | | | | | | | | |
| | H25KC027 | SK140SR LC | HYDRAULIC EXCAVATOR, CRAWLER, 33,100 LBS, 0.50 CY BUCKET, 17.83' MAX DIGGING DEPTH | 93 | HP D-off | \$169,526 | 38.28 | 8.85 | 14.96 | 1.37 | 6.16 | 331 |
| | H25KC017 | SK70SR | HYDRAULIC EXCAVATOR, CRAWLER, 16,400 LBS, 0.33 CY BUCKET, 14.75' MAX DIGGING DEPTH | 54 | HP D-off | \$104,692 | 23.38 | 5.47 | 9.24 | 0.85 | 3.58 | 168 |
| | <i>KOMATSU AMERICA INTERNATIONAL COMPANY</i> | | | | | | | | | | | |
| | H25KM001 | PC138USLC-10 | HYDRAULIC EXCAVATOR, CRAWLER, 31,791 LBS, 1.0 CY BUCKET, 18.0' MAX DIGGING DEPTH | 94 | HP D-off | \$168,293 | 38.14 | 8.79 | 14.85 | 1.36 | 6.24 | 326 |
| | H25KM003 | PC170LC-10 | HYDRAULIC EXCAVATOR, CRAWLER, 38,100 LBS, 1.24 CY BUCKET, 19' 7" MAX DIGGING DEPTH | 115 | HP D-off | \$181,004 | 42.08 | 9.46 | 15.97 | 1.47 | 7.63 | 416 |
| | <i>LINK-BELT CONSTRUCTION EQUIPMENT CO.</i> | | | | | | | | | | | |
| | H25LB003 | 130 2XLC | HYDRAULIC EXCAVATOR, CRAWLER, 27,100 LBS, 0.50 CY BUCKET, 18' 2" MAX DIGGING DEPTH | 95 | HP D-off | \$171,870 | 38.87 | 8.98 | 15.17 | 1.39 | 6.30 | 271 |
| | H25LB005 | 160 X2 | HYDRAULIC EXCAVATOR, CRAWLER, 35,275 LBS, 0.66 CY BUCKET, 20' 1" MAX DIGGING DEPTH | 120 | HP D-off | \$200,963 | 46.13 | 10.50 | 17.73 | 1.63 | 7.96 | 362 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | |
|--|-------------|--|--------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | |
| SUBCATEGORY 0.12 OVER 40,000 LBS THRU 100,000 LBS | | | | | | | | | | | | | | | | |
| CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | | | | | |
| H25CA001 | 336F L | HYDRAULIC EXCAVATOR, CRAWLER, 80,500 LBS, 3.15 CY BUCKET, 26' 10" MAX DIGGING DEPTH | 303 HP | D-off | | \$396,347 | 79.15 | 15.52 | 24.77 | 3.13 | 20.10 | 805 | | | | |
| H25CA040 | 318E | HYDRAULIC EXCAVATOR, CRAWLER, 40,600 LBS, 1.00 CY BUCKET, 22.50' MAX DIGGING DEPTH | 113 HP | D-off | | \$269,309 | 46.69 | 10.55 | 16.83 | 2.13 | 7.50 | 410 | | | | |
| H25CA022 | 320E L | HYDRAULIC EXCAVATOR, CRAWLER, 47,400 LBS, 1.56 CY BUCKET, 25' MAX DIGGING DEPTH | 153 HP | D-off | | \$252,479 | 47.37 | 9.89 | 15.78 | 2.00 | 10.15 | 474 | | | | |
| H25CA023 | 320DL | HYDRAULIC EXCAVATOR, CRAWLER, 49,000 LBS, 0.80 CY BUCKET, 39.0' MAX DIGGING DEPTH, LONG REACH BOOM | 128 HP | D-off | | \$337,423 | 57.45 | 13.22 | 21.09 | 2.67 | 8.49 | 536 | | | | |
| KOBELCO AMERICA INC. | | | | | | | | | | | | | | | | |
| H25KC028 | SK260 LC | HYDRAULIC EXCAVATOR, CRAWLER, 56,890 LBS, 1.31 CY BUCKET, 23' MAX DIGGING DEPTH | 176 HP | D-off | | \$259,733 | 50.15 | 10.17 | 16.23 | 2.05 | 11.68 | 568 | | | | |
| H25KC029 | SK260 LC LR | HYDRAULIC EXCAVATOR, CRAWLER, 56,890 LBS, 1.57 CY BUCKET, 25' MAX DIGGING DEPTH, LONG REACH BOOM | 176 HP | D-off | | \$346,114 | 62.36 | 13.56 | 21.63 | 2.74 | 11.68 | 568 | | | | |
| H25KC030 | SK350LC | HYDRAULIC EXCAVATOR, CRAWLER, 80,900 LBS, 2.09 CY BUCKET, 27'7" MAX DIGGING DEPTH | 238 HP | D-off | | \$345,382 | 66.99 | 13.53 | 21.59 | 2.73 | 15.79 | 809 | | | | |
| H25KC019 | SK210 LC | HYDRAULIC EXCAVATOR, CRAWLER, 48,000 LBS, 1.13 CY BUCKET, 22.00' MAX DIGGING DEPTH | 143 HP | D-off | | \$210,493 | 40.68 | 8.24 | 13.16 | 1.66 | 9.49 | 480 | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>H25</i> | <i>KOBELCO AMERICA INC. (continued)</i> | | | | | | | | | | | | |
| | H25KC020 | SK210 LC LR | HYDRAULIC EXCAVATOR, CRAWLER, 53,400 LBS, 0.63 CY BUCKET, 39' MAX DIGGING DEPTH, LONG REACH BOOM | 143 HP | D-off | \$279,765 | 50.47 | 10.96 | 17.49 | 2.21 | 9.49 | 534 | |
| | SUBCATEGORY 0.13 OVER 100,000 LBS THRU 160,000 LBS | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | H25CA002 | 349E | HYDRAULIC EXCAVATOR, CRAWLER, 105,000 LBS, 4.2 CY BUCKET, 25' MAX DIGGING DEPTH | 425 HP | D-off | \$532,895 | 94.09 | 16.65 | 24.98 | 4.16 | 28.19 | 1,054 | |
| | H25CA003 | 352F | HYDRAULIC EXCAVATOR, CRAWLER, 115,700 LBS, 4.05 CY BUCKET, 28' 10" MAX DIGGING DEPTH | 417 HP | D-off | | 561,546 | 97.01 | 17.54 | 26.32 | 4.38 | 27.66 | |
| | H25CA004 | 374F | HYDRAULIC EXCAVATOR, CRAWLER, 157,000 LBS, 4.97 CY BUCKET, 31' 8" MAX DIGGING DEPTH | 472 HP | D-off | | \$843,449 | 134.99 | 26.35 | 39.54 | 6.58 | 31.31 | |
| | KOBELCO AMERICA INC. | | | | | | | | | | | | |
| | H25KC031 | SK485 LC | HYDRAULIC EXCAVATOR, CRAWLER, 111,774 LBS 2.75 CY BUCKET, 25.58' MAX DIGGING DEPTH | 345 HP | D-off | \$480,187 | 82.15 | 15.00 | 22.51 | 3.74 | 22.89 | 1,117 | |
| | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | | |
| | H25KM015 | PC650LC-8 | HYDRAULIC EXCAVATOR, CRAWLER, 139,330 LBS, 4.98 CY BUCKET, 27' 10" MAX DIGGING DEPTH | 429 HP | D-off | \$853,546 | 133.22 | 26.67 | 40.01 | 6.66 | 28.46 | 1,464 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|-----|--|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| | SUBCATEGORY 0.14 OVER 160,000 LBS | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | H25CA005 | 390F | HYDRAULIC EXCAVATOR, CRAWLER, 190,000 LBS, 6.0 CY BUCKET, 35' 3" MAX DIGGING DEPTH | 524 HP | D-off | | \$1,132,529 | 159.74 | 31.12 | 44.71 | 8.76 | 34.76 | 1,570 |
| | H25CA065 | 390D L | HYDRAULIC EXCAVATOR, CRAWLER, 190,016LB, 7.6CY BUCKET, 35.13' MAX DIGGING DEPTH | 523 HP | D-off | | \$1,019,049 | 147.34 | 28.01 | 40.23 | 7.89 | 34.70 | 1,900 |
| | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | | |
| | H25KM009 | PC 800 LC-8 | HYDRAULIC EXCAVATOR, CRAWLER, 184,705 LBS, 6.0 CY BUCKET, 28' 3" MAX DIGGING DEPTH | 487 HP | D-off | | \$1,042,292 | 147.35 | 28.64 | 41.14 | 8.07 | 32.31 | 1,930 |
| | H25KM033 | PC2000-8 | HYDRAULIC EXCAVATOR, CRAWLER, 429,900 LBS, 14.40 CY BUCKET, 30'4" MAX DIGGING DEPTH | 976 HP | D-off | | \$2,406,255 | 329.80 | 66.11 | 94.98 | 18.62 | 64.75 | 4,500 |
| | SUBCATEGORY 0.21 ATTACHMENTS, MOBILE SHEARS | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | H25CA055 | S305 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 9.4" JAW OPENING (ADD 10,000 LB HYDRAULIC EXCAVATOR) | | | | \$23,326 | 7.62 | 1.83 | 3.30 | 0.18 | 0.00 | 15 |
| | H25CA057 | S320B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 15.4" JAW OPENING (ADD 20,000 LB HYDRAULIC EXCAVATOR) | | | | \$93,263 | 29.70 | 7.35 | 13.21 | 0.74 | 0.00 | 57 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|-----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|--|--|--|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| <i>H25</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | \$118,543 | 36.74 | 9.34 | 16.79 | 0.94 | 0.00 | 84 | | | | | | | | | |
| | H25CA066 | S325B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 28.0" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |
| | H25CA067 | S340B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 32.0" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |
| | LABOUNTY MANUFACTURING, | | | | | | | | | | | | | | | | | | | | |
| | H25LU055 | MSD 2250 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 30" JAW OPENING (ADD 90,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |
| | H25LU056 | MSD 2250R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 30" JAW OPENING (ADD 110,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |
| | H25LU001 | MSD 7 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 10" JAW OPENING (ADD 10,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |
| | H25LU002 | MSD 7R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 10" JAW OPENING (ADD 14,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |
| | H25LU003 | MSD 800 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 15" JAW OPENING (ADD 20,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H25</i> | <i>LABOUNTY MANUFACTURING, (continued)</i> | | | | | \$73,620 | 23.71 | 5.80 | 10.43 | 0.58 | 0.00 | 23 |
| | H25LU004 | MSD 800R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 15" JAW OPENING (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU005 | MSD 1000 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 19" JAW OPENING (ADD 35,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU006 | MSD 1000R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 19" JAW OPENING (ADD 40,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU007 | MSD 1500 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 22" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU008 | MSD 1500R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 22" JAW OPENING (ADD 65,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU009 | MSD 2000 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 26" JAW OPENING (ADD 70,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU010 | MSD 2000R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 26" JAW OPENING (ADD 90,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | H25LU011 | MSD 2500 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 32" JAW OPENING (ADD 90,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| H25 | | | <i>LABOUNTY MANUFACTURING, (continued)</i> | | | \$204,781 | 65.96 | 16.13 | 29.01 | 1.62 | 0.00 | 146 |
| | H25LU012 | MSD 2500R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 32" JAW OPENING (ADD 110,000 LB HYDRAULIC EXCAVATOR) | | | \$204,525 | 65.98 | 16.11 | 28.97 | 1.62 | 0.00 | 133 |
| | H25LU013 | MSD 3000 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 35" JAW OPENING (ADD 145,000 LB HYDRAULIC EXCAVATOR) | | | \$244,468 | 78.76 | 19.25 | 34.63 | 1.93 | 0.00 | 170 |
| | H25LU014 | MSD 3000R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, ROTATING, 35" JAW OPENING (ADD 160,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | SUBCATEGORY 0.22 ATTACHMENTS, MATERIAL HANDLING | | BALDERSON, INC. | | | | | | | | | |
| | H25BS001 | B315-24 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 0.50 CY BUCKET, W/TIPS (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$7,790 | 2.21 | 0.58 | 1.04 | 0.06 | 0.00 | 10 |
| | H25BS002 | B3F-B-30 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 0.75 CY BUCKET, W/TIPS (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$7,908 | 2.24 | 0.59 | 1.05 | 0.06 | 0.00 | 16 |
| | H25BS003 | B315-48 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 1.25 CY BUCKET, W/TIPS (ADD 25,000-60,000 LB HYDRAULIC EXCAVATOR) | | | \$10,369 | 2.94 | 0.77 | 1.38 | 0.08 | 0.00 | 30 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|------------------------------------|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H25</i> | <i>BALDERSON, INC. (continued)</i> | | | | | | | | | | | |
| | H25BS004 | B3F-C-42 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 1.50 CY BUCKET, W/TIPS (ADD 50,000-60,000 LB HYDRAULIC EXCAVATOR) | | | \$13,748 | 3.90 | 1.03 | 1.83 | 0.11 | 0.00 | 22 |
| | H25BS005 | B3F-D-66 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 3.25 CY BUCKET, W/TIPS (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | \$18,604 | 5.28 | 1.39 | 2.48 | 0.15 | 0.00 | 52 |
| | LABOUNTY MANUFACTURING, | | | | | | | | | | | |
| | H25LU057 | HDR 100S | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 2-TINE/3-TINE (ADD 85,000-110,000 LB HYDRAULIC EXCAVATOR) | | | \$34,132 | 10.29 | 2.56 | 4.55 | 0.28 | 0.00 | 77 |
| | H25LU023 | TW 100 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 1.25CY, 4-TINE/ 5-TINE (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | \$38,524 | 11.19 | 2.88 | 5.14 | 0.31 | 0.00 | 16 |
| | H25LU024 | HDR 30S | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 2-TINE/3-TINE (ADD 25,000-35,000 LB HYDRAULIC EXCAVATOR) | | | \$14,948 | 4.54 | 1.12 | 1.99 | 0.12 | 0.00 | 16 |
| | H25LU025 | HDR 40S | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 2-TINE/3-TINE (ADD 35,000-45,000 LB HYDRAULIC EXCAVATOR) | | | \$19,278 | 5.88 | 1.45 | 2.57 | 0.16 | 0.00 | 27 |
| | H25LU026 | HDR 50S | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 2-TINE/3-TINE (ADD 45,000-65,000 LB HYDRAULIC EXCAVATOR) | | | \$24,218 | 7.38 | 1.82 | 3.23 | 0.20 | 0.00 | 35 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H25</i> | <i>LABOUNTY MANUFACTURING, (continued)</i> | | | | | | | | | | | |
| | H25LU027 | HDR 70S | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 2-TINE/3-TINE (ADD 65,000-85,000 LB HYDRAULIC EXCAVATOR) | | | \$26,995 | 8.27 | 2.02 | 3.60 | 0.22 | 0.00 | 57 |
| | H25LU028 | TW 170 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 9.00CY, 4-TINE/ 5-TINE (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | \$49,598 | 14.78 | 3.71 | 6.61 | 0.40 | 0.00 | 78 |
| | H25LU034 | RDG 60 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 1.75 CY (ADD 38,000-70,000 LB HYDRAULIC EXCAVATOR) | | | \$72,087 | 21.27 | 5.40 | 9.61 | 0.59 | 0.00 | 35 |
| | H25LU035 | RDG 90 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 1.25 CY (ADD 70,000-140,000 LB HYDRAULIC EXCAVATOR) | | | \$86,434 | 25.44 | 6.46 | 11.52 | 0.70 | 0.00 | 69 |
| | H25LU036 | RDG 120 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 2.00 CY (ADD 120,000-160,000 LB HYDRAULIC EXCAVATOR) | | | \$100,866 | 29.64 | 7.55 | 13.45 | 0.82 | 0.00 | 100 |
| | ROCKLAND MANUFACTURING COMPANY | | | | | | | | | | | |
| | H25RZ001 | EPR-B2-36 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, BUCKET, 36" CONCRETE/PAVEMENT REMOVAL (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$7,280 | 2.07 | 0.55 | 0.97 | 0.06 | 0.00 | 21 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|-----------|-------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | SUBCATEGORY 0.23 ATTACHMENTS, CONCRETE PULVERIZERS | | | | | | | | | |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| H25CA068 | P215 | | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRUSHER, 16.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | \$54,874 | 17.98 | 4.32 | 7.77 | 0.43 | 0.00 | 46 |
| H25CA069 | P225 | | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 30.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | \$66,178 | 21.69 | 5.21 | 9.38 | 0.52 | 0.00 | 53 |
| H25CA070 | P235 | | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 34.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | \$92,900 | 30.44 | 7.31 | 13.16 | 0.73 | 0.00 | 87 |
| | | | FURUKAWA CO.,LTD. | | | | | | | | | |
| H25FU001 | FX175 QTV | | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 3,250 FT-LB, W/4.72" DIA (ADD 13,000-22,000 LB HYDRAULIC EXCAVATOR) | | | \$37,893 | 12.92 | 2.99 | 5.37 | 0.30 | 0.00 | 21 |
| H25FU002 | FX275 QTV | | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 5,250 FT-LB, W/5.51" DIA. POINT (ADD 42,000-66,000 LB HYDRAULIC EXCAVATOR) | | | \$54,644 | 18.41 | 4.30 | 7.74 | 0.43 | 0.00 | 38 |
| H25FU003 | F70 QT | | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 10,000 FT-LB, W/7.09 " DIA. POINT (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | \$124,494 | 41.80 | 9.80 | 17.64 | 0.98 | 0.00 | 103 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--------------------------------|----------|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| LABOUNTY MANUFACTURING, | H25LU046 | CP 40 C | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 30" JAW OPENING (ADD 40,000 LB HYDRAULIC EXCAVATOR) | | | \$35,003 | 11.98 | 2.76 | 4.96 | 0.28 | 0.00 | 29 |
| | H25LU047 | CP 60 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 36" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | \$42,770 | 14.62 | 3.37 | 6.06 | 0.34 | 0.00 | 30 |
| | H25LU048 | CP 80 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 42" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$44,404 | 15.25 | 3.50 | 6.29 | 0.35 | 0.00 | 45 |
| | H25LU049 | CP 100 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 48" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | \$53,586 | 18.36 | 4.22 | 7.59 | 0.42 | 0.00 | 62 |
| | H25LU050 | CP 120 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 54" JAW OPENING (ADD 140,000 LB HYDRAULIC EXCAVATOR) | | | \$81,144 | 27.50 | 6.39 | 11.50 | 0.64 | 0.00 | 99 |
| | H25LU040 | UP 45 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 45" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | \$159,164 | 52.92 | 12.54 | 22.55 | 1.26 | 0.00 | 105 |
| | H25LU041 | UP 75 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 49" JAW OPENING (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | \$195,942 | 64.97 | 15.43 | 27.76 | 1.55 | 0.00 | 127 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|------------|---|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| <i>H25</i> | <i>LABOUNTY MANUFACTURING, (continued)</i> | | | | | \$227,893 | 76.18 | 17.94 | 32.28 | 1.80 | 0.00 | 171 | | |
| | H25LU042 | UP 90 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 62" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | |
| | H25LU053 | UP 45 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 36" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | |
| | H25LU054 | UP 75 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 40" JAW OPENING (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | |
| | SUBCATEGORY 0.24 ATTACHMENTS, COMPACTORS | | | | | | | | | | | | | |
| | ALLIED CONSTRUCTION PRODUCTS | | | | | \$5,809 | 1.90 | 0.46 | 0.82 | 0.05 | 0.00 | 6 | | |
| | H25AU011 | 700B | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 18" X 27" PLATE, 6,400 LBS FORCE (ADD 7,000-15,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | |
| | H25AU007 | 1000B | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 24" X 32" PLATE, 8,000 LBS FORCE (ADD 9,000-30,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | |
| | H25AU008 | 1600 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 29" X 32" PLATE, 18,000 LBS FORCE (ADD 19,000-45,000 LB HYDRAULIC EXCAVATOR) | | | \$9,329 | 3.05 | 0.73 | 1.32 | 0.07 | 0.00 | 16 | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| H25 | | | <i>ALLIED CONSTRUCTION PRODUCTS (continued)</i> | | | \$13,243 | 4.34 | 1.04 | 1.88 | 0.10 | 0.00 | 22 |
| | H25AU009 | 2300 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 34" X 36" PLATE, 24,000 LBS FORCE (ADD 35,000-120,000 LB HYDRAULIC EXCAVATOR) | | | \$19,765 | 6.48 | 1.56 | 2.80 | 0.16 | 0.00 | 40 |
| | H25AU010 | 4000 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 50" X 42" PLATE, 40,000 LBS FORCE (ADD 70,000-120,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | |
| | | | AMERICAN COMPACTION EQUIPMENT, INC. | | | | | | | | | |
| | H25AX001 | DC-24BL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 23" WIDE, SHEEPS FOOT, 3 RIMS - 38" DIA (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$9,224 | 3.02 | 0.73 | 1.31 | 0.07 | 0.00 | 25 |
| | H25AX003 | DC-24EX | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 23" WIDE, SHEEPS FOOT, 3 RIMS - 42" DIA (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | \$11,444 | 3.75 | 0.90 | 1.62 | 0.09 | 0.00 | 33 |
| | H25AX005 | DC-24EXL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 23" WIDE, SHEEPS FOOT, 3 RIMS - 48" DIA (ADD 75,000-110,000 LB HYDRAULIC EXCAVATOR) | | | \$14,311 | 4.69 | 1.13 | 2.03 | 0.11 | 0.00 | 39 |
| | H25AX002 | DC-36BL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 35" WIDE, SHEEPS FOOT, 4 RIMS - 38" DIA (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | \$10,462 | 3.42 | 0.82 | 1.48 | 0.08 | 0.00 | 33 |
| | H25AX004 | DC-36EX | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 35" WIDE, SHEEPS FOOT, 4 RIMS - 42" DIA (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | \$13,408 | 4.40 | 1.06 | 1.90 | 0.11 | 0.00 | 43 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | |
|------------|--|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | |
| <i>H25</i> | <i>AMERICAN COMPACTION EQUIPMENT, INC. (continued)</i> | | | | | \$17,237 | 5.65 | 1.36 | 2.44 | 0.14 | 0.00 | 53 | | | | |
| | H25AX006 | DC-36EXL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 36" WIDE, SHEEPS FOOT, 4 RIMS - 48" DIA (ADD 75,000-110,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | |
| | FURUKAWA CO.,LTD. | | | | | | \$6,507 | 2.28 | 0.51 | 0.92 | 0.05 | 0.00 | 4 | | | |
| | H25FU004 | HP35ME | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 12" X 36" PLATE, 3000 LB FORCE (ADD 14,000-25,000 LB HYDRAULIC EXCAVATOR) | | | | | | | | | | | | | |
| | H25FU005 | HP135II | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 28" X 40" PLATE, 13,500 LB FORCE (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | | \$13,204 | 4.47 | 1.04 | 1.87 | 0.10 | 0.00 | 14 | | | |
| | H25FU006 | HP210II | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 34" X 46" PLATE, 21,000 LB FORCE (ADD 40,000-75,000 LB HYDRAULIC EXCAVATOR) | | | | \$18,201 | 6.11 | 1.43 | 2.58 | 0.14 | 0.00 | 22 | | | |
| | ROCKLAND MANUFACTURING COMPANY | | | | | | | | | | | | | | | |
| | H25RZ002 | WI24-3 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 24" WIDE, SHEEPSFOOT, 3 RIMS (ADD 15-22.5 TON HYDRAULIC EXCAVATOR) | | | | \$6,593 | 2.15 | 0.52 | 0.93 | 0.05 | 0.00 | 21 | | | |
| | H25RZ003 | WI36-4 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 36" WIDE, SHEEPSFOOT, 4 RIMS (ADD 15-22.5 TON HYDRAULIC EXCAVATOR) | | | | \$7,805 | 2.56 | 0.62 | 1.11 | 0.06 | 0.00 | 25 | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---|------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>H25</i> | <i>ROCKLAND MANUFACTURING COMPANY (continued)</i> | | | | | \$8,140 | 2.66 | 0.64 | 1.15 | 0.06 | 0.00 | 29 |
| | H25RZ004 | WE24-3 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 24" WIDE, SHEEPSFOOT, 3 RIMS (ADD 22.5-30 TON HYDRAULIC EXCAVATOR) | | | | \$10,004 | 3.28 | 0.79 | 1.42 | 0.08 | 0.00 |
| H30 HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | |
| | SUBCATEGORY 0.01 0 THRU 1.0 CY | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | H30CA001 | M314F | HYDRAULIC EXCAVATORS, WHEEL, 0.69 CY BUCKET, TELESCOPIC BOOM, 19' DIGGING DEPTH, AWD | 141 HP | D-off | \$246,813 | 52.77 | 13.06 | 22.10 | 2.01 | 8.75 | 322 |
| | H30CA005 | M318D | HYDRAULIC EXCAVATORS, WHEEL, 33,700 LBS, 1.00 CY BUCKET, 1-PIECE BOOM, 19' DIGGING DEPTH, 4X4 | 174 HP | D-off | \$253,808 | 56.31 | 13.45 | 22.76 | 2.07 | 10.80 | 393 |
| | H30CA007 | M315D | HYDRAULIC EXCAVATORS, WHEEL, 35,100 LBS, 0.70 CY BUCKET, 1-PIECE BOOM, 17' 7" DIGGING DEPTH, 4X4X2 | 147 HP | D-off | \$220,124 | 48.70 | 11.59 | 19.60 | 1.79 | 9.12 | 352 |
| | GRADALL COMPANY | | | | | | | | | | | |
| | H30GA009 | XL 4100 IV | HYDRAULIC EXCAVATORS, WHEEL, 1 CY BUCKET, TELESCOPIC BOOM, 19' 11" MAX DIGGING DEPTH, 6X6 | 262 HP | D-on | \$362,636 | 84.96 | 19.57 | 33.24 | 2.95 | 20.29 | 509 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>H30</i> | <i>GRADALL COMPANY (continued)</i> | | | 235 HP D-on | | \$313,672 | 74.00 | 17.01 | 28.91 | 2.55 | 18.20 | 417 | |
| | H30GA010 | XL 3100 IV | HYDRAULIC EXCAVATORS, WHEEL, 1 CY BUCKET, TELESCOPIC BOOM, 18' 11" MAX DIGGING DEPTH, 4X4 | | | | | | | | | | |
| | SUBCATEGORY 0.02 OVER 1.0 CY | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | 141 HP D-off | | | 51.81 | 12.09 | 19.78 | 2.20 | 8.75 | 340 | |
| | H30CA002 | M316F | HYDRAULIC EXCAVATORS, WHEEL, 1.03 CY BUCKET, TELESCOPIC BOOM, 20' DIGGING DEPTH, AWD | | | | | | | | | | |
| | H30CA003 | M318F | HYDRAULIC EXCAVATOR, WHEEL, 1.19 CY BUCKET, TELESCOPIC BOOM, 20' DIGGING DEPTH, AWD | 169 HP | D-off | | \$288,186 | 55.77 | 12.70 | 20.78 | 2.31 | 10.49 | 369 |
| | H30CA004 | M320F | HYDRAULIC EXCAVATORS, WHEEL, 1.28 CY BUCKET, TELESCOPIC BOOM, 20' 9" DIGGING DEPTH, AWD | 169 HP | D-off | | \$307,034 | 58.54 | 13.56 | 22.20 | 2.46 | 10.49 | 408 |
| | H30CA006 | M322F | HYDRAULIC EXCAVATORS, WHEEL, 1.55 CY BUCKET, TELESCOPIC BOOM, 21' 10" DIGGING DEPTH, AWD | 173 HP | D-off | | \$343,949 | 63.56 | 15.43 | 25.36 | 2.75 | 10.74 | 459 |
| | GRADALL COMPANY | | | 282 HP D-on | | | 85.77 | 18.25 | 29.97 | 3.26 | 21.84 | 584 | |
| | H30GA011 | XL 5100 IV | HYDRAULIC EXCAVATORS, WHEEL, 1.50 CY BUCKET, TELESCOPIC BOOM, 24' 1" DIGGING DEPTH, 6X6 | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|--------|--------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| H35 HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | |
| | SUBCATEGORY 0.12 DIESEL, OVER 5.0 CY | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| H35CA001 | 6015 | HYDRAULIC SHOVEL, CRAWLER, 9.20 CY BUCKET, BACKHOE, 23' 11" DIGGING DEPTH | 665 HP | D-off | | \$1,171,452 | 207.24 | 38.10 | 58.57 | 8.81 | 44.12 | 2,277 |
| H35CA003 | 6018 | HYDRAULIC SHOVEL, CRAWLER, 13.10 CY BUCKET, BACKHOE, 27' 11" DIGGING DEPTH | 1,104 HP | D-off | | \$2,324,645 | 396.20 | 75.61 | 116.23 | 17.49 | 73.24 | 3,981 |
| H35CA004 | 6030 | HYDRAULIC SHOVEL, CRAWLER, 20.10 CY BUCKET, FRONT SHOVEL, 8' 2" DIGGING DEPTH | 1,530 HP | D-off | | \$3,866,255 | 637.56 | 125.75 | 193.31 | 29.09 | 101.50 | 6,477 |
| H35CA005 | 6050 | HYDRAULIC SHOVEL, CRAWLER, 34.00 CY BUCKET, BACKHOE, 30' 6" DIGGING DEPTH | 2,520 HP | D-off | | \$7,598,880 | 1,219.08 | 247.14 | 379.94 | 57.17 | 167.18 | 11,838 |
| | HITACHI CONSTRUCTION MACHINERY | | | | | | | | | | | |
| H35HI007 | EX1900-6 | HYDRAULIC SHOVEL, CRAWLER, 15.7 CY BUCKET, FRONT SHOVEL, 35' 3" MAX DIGGING DEPTH | 1,086 HP | D-off | | \$2,470,131 | 414.91 | 80.34 | 123.51 | 18.58 | 72.05 | 4,233 |
| H35HI006 | EX1200-6 | HYDRAULIC SHOVEL, CRAWLER, 8.5 CY BUCKET, FRONT SHOVEL, 17' 3" DIGGING DEPTH | 641 HP | D-off | | \$1,739,901 | 283.60 | 56.59 | 87.00 | 13.09 | 42.52 | 2,447 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------------------------------|-----------|-------|---|------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | AVERAGE | STANDBY | DEPR | FCCM | | | |
| L10 LAND CLEARING EQUIPMENT | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 LAND CLEARING EQUIPMENT | | | | | | | | | |
| | | | BALDERSON, INC. | | | | | | | | | |
| L10BS004 | BBL7 | | LAND CLEARING EQUIPMENT, ROCK & ROOT RAKE, 12.0' WIDE, 9 TEETH (ADD 200 - 250 HP TRACTOR DOZER) | | | \$31,218 | 5.96 | 1.49 | 2.50 | 0.24 | 0.00 | 24 |
| L10BS005 | BRK8 | | LAND CLEARING EQUIPMENT, ROCK & ROOT RAKE 12.5' WIDE, 9 TEETH (ADD D8 TRACTOR DOZER 275 - 325 HP) | | | \$45,947 | 8.70 | 2.20 | 3.68 | 0.36 | 0.00 | 72 |
| L10BS002 | BMA8 | | LAND CLEARING EQUIPMENT, MULTI-APPLICATION RAKE, 12.5' WIDE, 9 TEETH (ADD D8 TRACTOR DOZER 275 - 325 HP) | | | \$45,868 | 8.68 | 2.19 | 3.67 | 0.35 | 0.00 | 68 |
| L10BS007 | BLF988DTC | | LAND CLEARING EQUIPMENT, LOGGING FORK, 92" TINES (ADD 400 - 450 HP FE LOADER) | | | \$33,155 | 6.56 | 1.59 | 2.65 | 0.26 | 0.00 | 90 |
| | | | BUSH HOG | | | | | | | | | |
| L10BU014 | 2815 | | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 15' CUTTING WIDTH, 2" - 14" CUTTING HEIGHT (ADD FARM 60 HP TRACTOR) | | | \$23,621 | 6.31 | 1.13 | 1.89 | 0.18 | 0.00 | 45 |
| L10BU015 | 2820 | | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 20' CUTTING WIDTH, 2" - 14" CUTTING HEIGHT (ADD FARM 90 HP TRACTOR) | | | \$27,486 | 7.52 | 1.31 | 2.20 | 0.21 | 0.00 | 59 |
| L10BU005 | SM-60 | | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 5' WIDE-SIDE MTD (ADD FARM 50 HP TRACTOR) | | | \$11,637 | 3.23 | 0.56 | 0.93 | 0.09 | 0.00 | 17 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------------|------------|--|---------------------------------|----------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>L10</i> | BUSH HOG (continued) | | | | | | | | | | | |
| | L10BU010 | BH27D-2R | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 7' WIDE, 1.5" - 10.5" CUT HEIGHT (ADD FARM 55 HP TRACTOR) | | | \$5,790 | 1.85 | 0.27 | 0.46 | 0.04 | 0.00 | 11 |
| | L10BU011 | 3210 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 10.5' WIDE, 2 - 13" CUT HEIGHT (ADD FARM 70 HP TRACTOR) | | | \$11,533 | 3.61 | 0.55 | 0.92 | 0.09 | 0.00 | 25 |
| | L10BU012 | 3715 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 15' WIDE, 2 - 14" HEIGHT (ADD FARM 80 HP TRACTOR) | | | \$19,279 | 5.52 | 0.92 | 1.54 | 0.15 | 0.00 | 50 |
| | L10BU013 | 2720 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 20' WIDE, 2 - 14" HEIGHT (ADD FARM 90 HP TRACTOR) | | | \$23,344 | 6.77 | 1.12 | 1.87 | 0.18 | 0.00 | 56 |
| | ROME PLOW CO. | | | | | | | | | | | |
| | L10RM001 | RV8N | LAND CLEARING EQUIPMENT, V-TREE CUTTER (ADD 275 - 325 HP TRACTOR DOZER) | | | \$60,387 | 11.44 | 2.89 | 4.83 | 0.47 | 0.00 | 134 |
| | L10RM002 | MA-152R-8S | LAND CLEARING EQUIPMENT, MULTI-APPLICATION RAKE, 12' 8" WIDE, 9 TEETH (ADD 275 - 325 HP TRACTOR DOZER) | | | \$68,229 | 12.47 | 3.26 | 5.46 | 0.53 | 0.00 | 150 |
| | VERMEER MANUFACTURING CO. | | | | | | | | | | | |
| | L10VE010 | SC 292 | LAND CLEARING EQUIPMENT, STUMPER, 16" DIA WHEEL, TRAILER MTD | 27 | HP G | \$16,466 | 6.61 | 0.78 | 1.30 | 0.13 | 3.18 | 11 |
| | L10VE002 | SC 40TX | LAND CLEARING EQUIPMENT, STUMPER, 18" DIA WHEEL, TRAILER MTD | 35 | HP G | \$38,861 | 11.76 | 1.86 | 3.11 | 0.30 | 4.12 | 22 |
| | L10VE009 | SC 802 | LAND CLEARING EQUIPMENT, STUMPER, 28" DIA WHEEL, TRAILER MTD | 78 | HP D-off | \$44,374 | 13.50 | 2.10 | 3.52 | 0.34 | 4.84 | 40 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>L10</i> | <i>VERMEER MANUFACTURING CO. (continued)</i> | | | | | | | | | | | |
| | L10VE005 | TS-30 | LAND CLEARING EQUIPMENT, TREE SPADE, 30" DIA, 26" DEPTH, TRAILER MTD | 13 HP | G | \$15,034 | 4.48 | 0.72 | 1.20 | 0.12 | 1.53 | 38 |
| | L10VE006 | TS-44A | LAND CLEARING EQUIPMENT, TREE SPADE, 44" DIA, 40" DEPTH, TRAILER MTD | 20 HP | G | \$39,343 | 9.85 | 1.86 | 3.12 | 0.30 | 2.35 | 66 |
| | L10VE007 | TS-50 | LAND CLEARING EQUIPMENT, TREE SPADE, 50" DIA, 48" DEPTH (ADD 13,800 GVW TRUCK) | | | \$33,839 | 7.68 | 1.62 | 2.71 | 0.26 | 0.00 | 81 |
| L15 | LANDSCAPING EQUIPMENT | | | | | | | | | | | |
| | SUBCATEGORY 0.00 LANDSCAPING EQUIPMENT | | | | | | | | | | | |
| | BOWIE INDUSTRIES, INC. | | | | | | | | | | | |
| | L15BW005 | LANCER 600 | LANDSCAPING EQUIPMENT, 600 GAL, HYDROMULCHER, TRAILER MTD | 25 HP | G | \$24,656 | 14.28 | 2.74 | 5.05 | 0.21 | 3.92 | 29 |
| | L15BW001 | LANCER 500 | LANDSCAPING EQUIPMENT, 500 GAL, HYDROMULCHER, TRAILER MTD | 25 HP | G | \$24,577 | 14.32 | 2.79 | 5.15 | 0.21 | 3.92 | 25 |
| | L15BW002 | VICTOR 800 | LANDSCAPING EQUIPMENT, 800 GAL, HYDROMULCHER, TRAILER MTD | 35 HP | G | \$40,695 | 22.45 | 4.51 | 8.33 | 0.34 | 5.49 | 48 |
| | L15BW003 | VICTOR 1100 | LANDSCAPING EQUIPMENT, 1,100 GAL, HYDROMULCHER, GOOSENECK TRAILER MTD | 50 HP | G | \$44,527 | 26.64 | 4.96 | 9.15 | 0.38 | 7.85 | 60 |
| | L15BW004 | IMPERIAL 3000 | LANDSCAPING EQUIPMENT, 3,000 GAL, HYDROMULCHER, TRUCK MTD (ADD 55,000 GVW TRUCK) | 90 HP | D-off | \$67,968 | 35.81 | 7.79 | 14.44 | 0.57 | 7.32 | 88 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|-----------|--|--|---------------------------------|-------------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | | | | | | | | | | |
| | | | FINN CORPORATION | | | | | | | | | |
| L15FG001 | T330 | | LANDSCAPING EQUIPMENT, 3,000 GAL, HYDROSEEDER, TRUCK MTD (ADD 56,000 GVW TRUCK) | 115 HP D-on | 310 HP D-on | \$93,508 | 56.53 | 10.73 | 19.87 | 0.79 | 16.64 | 96 |
| L15FG002 | B260T | | LANDSCAPING EQUIPMENT, MULCHER, STRAW BLOWER, 20 TONS PER HOUR, TRAILER MOUNTED | 115 HP D-on | | \$51,641 | 33.91 | 5.89 | 10.90 | 0.44 | 11.67 | 48 |
| | | | HUSQVARNA FOREST & GARDEN CO. | | | | | | | | | |
| L15HV003 | CRT900 | | LANDSCAPING EQUIPMENT, ROTOTILLER, 14" WIDTH BY 6" DEPTH | 7 HP G | | \$607 | 1.47 | 0.08 | 0.13 | 0.01 | 1.10 | 2 |
| L15HV004 | FT900 | | LANDSCAPING EQUIPMENT, ROTOTILLER, 26" WIDTH BY 6" DEPTH | 7 HP G | | \$445 | 1.39 | 0.05 | 0.09 | 0.00 | 1.10 | 1 |
| L15HV001 | DRT900 | | LANDSCAPING EQUIPMENT, ROTOTILLER, 17" WIDTH BY 6.5" DEPTH | 5 HP G | | \$796 | 1.19 | 0.10 | 0.17 | 0.01 | 0.78 | 2 |
| L15HV002 | CRT1350LS | | LANDSCAPING EQUIPMENT, ROTOTILLER, 21" WIDTH BY 7" DEPTH | 10 HP G | | \$1,356 | 2.28 | 0.16 | 0.29 | 0.01 | 1.57 | 3 |
| | | | JOHN DEERE | | | | | | | | | |
| L15JD005 | MX5 | | LANDSCAPING EQUIPMENT, ROTARY MOWER, 60" WIDE, MEDIUM DUTY, PTO DRIVE (ADD 45 - 100 HP AGRICULTURAL TRACTOR) | | | \$2,807 | 1.14 | 0.32 | 0.60 | 0.02 | 0.00 | 8 |
| | | | STIHL | | | | | | | | | |
| L15S7001 | BT130 | | POST HOLE DRILL, UP TO 8" DIA, 30" DEEP, ONE MAN OPERATION | 2 HP G | | \$972 | 0.74 | 0.12 | 0.21 | 0.01 | 0.31 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-------------|----------------------------------|--------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| TORO | L15TO001 | 22298 | LANDSCAPING EQUIPMENT, LAWNMOWER, 21" DECK, REAR BAGGER, WALK BEHIND MOWER | 6 HP | G | \$1,595 | 1.69 | 0.18 | 0.34 | 0.01 | 0.94 | 1 |
| | L15TO002 | 30672 | LANDSCAPING EQUIPMENT, LAWNMOWER, 32" DECK, SIDE DISCHARGE, WALK BEHIND MOWER | 15 HP | G | \$3,712 | 4.08 | 0.21 | 0.35 | 0.03 | 2.28 | 6 |
| | L15TO003 | 74952 | LANDSCAPING EQUIPMENT, LAWNMOWER, 48" DECK, SIDE DISCHARGE, RIDING MOWER | 21 HP | G | \$9,647 | 8.24 | 0.38 | 0.60 | 0.08 | 3.22 | 12 |
| | L15TO004 | 74953 | LANDSCAPING EQUIPMENT, LAWNMOWER, 52" DECK W/Z100 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 22 HP | G | \$8,579 | 8.05 | 0.26 | 0.37 | 0.07 | 3.45 | 13 |
| | L15TO006 | 74925 | LANDSCAPING EQUIPMENT, LAWNMOWER, 60" DECK W/Z500 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 26 HP | G | \$13,773 | 11.15 | 0.52 | 0.80 | 0.12 | 4.00 | 15 |
| | L15TO007 | 74927 | LANDSCAPING EQUIPMENT, LAWNMOWER, 72" DECK, W/Z500 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 26 HP | G | \$14,427 | 11.42 | 0.59 | 0.94 | 0.12 | 4.00 | 17 |
| | L15TO009 | POWER MAX 8260XЕ | LANDSCAPING EQUIPMENT, SNOWBLOWER, 26" PATH, 45' THROW | 8 HP | G | \$1,231 | 1.89 | 0.14 | 0.26 | 0.01 | 1.26 | 2 |
| | L15TO010 | POWER MAX 11280HXЕ | LANDSCAPING EQUIPMENT, SNOWBLOWER, 28" PATH, 45' THROW | 10 HP | G | \$2,442 | 2.73 | 0.28 | 0.52 | 0.02 | 1.57 | 3 |
| | WILLMAR EQUIPMENT COMPANY | | | | | | | | | | | |
| | L15WI001 | S-150 | LANDSCAPING EQUIPMENT, SPREADER, 54CF DRY CHEMICAL (ADD 55 HP FARM TRACTOR) | | | \$8,566 | 3.47 | 0.92 | 1.70 | 0.07 | 0.00 | 15 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---------------------|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| L20 LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | |
| | | SUBCATEGORY 0.10 METALLIC VAPOR | | | | | | | | | | |
| | | ALLMAND BROTHERS INC. | | | | | | | | | | |
| L20AB025 | NIGHT-LITE PRO II | LITE SET, TRAILER MTD., 4/1,250W, W/7.5 KW GEN, MANUAL MAST WINCH | 12 | HP | D-off | \$12,735 | 5.04 | 0.73 | 1.25 | 0.10 | 1.03 | 16 |
| L20AB026 | NIGHT-LITE PRO II V | LITE SET, TRAILER MTD., 4/1,000W, W/7.5 KW GEN, ELECTRIC MAST WINCH | 12 | HP | D-off | \$15,196 | 5.81 | 0.87 | 1.50 | 0.12 | 1.03 | 18 |
| L20AB017 | MLIILD | LITE SET, TRAILER MTD., 4/1250W, W/7.5 KW GEN, ELECTRIC MAST WINCH | 12 | HP | D-off | \$17,308 | 6.47 | 1.00 | 1.71 | 0.14 | 1.03 | 21 |
| L20AB018 | MAXILITE 7/8 CSAML6 | LITE SET, TRAILER MTD., 4/1,000W, W/8 KW GEN, ELECTRIC MAST WINCH | 13 | HP | D-off | \$17,464 | 6.66 | 1.00 | 1.72 | 0.14 | 1.17 | 21 |
| L20AB019 | MAXILITE 7/8 CSAML8 | LITE SET, TRAILER MTD., 6/1,000W, W/8 KW GEN, ELECTRIC MAST WINCH | 19 | HP | D-off | \$19,247 | 7.74 | 1.10 | 1.90 | 0.15 | 1.65 | 21 |
| L20AB021 | NIGHT-LITE PRO CSA | LITE SET, TRAILER MTD., 4/1,000W, W/8 KW GEN, MANUAL MAST WINCH | 13 | HP | D-off | \$12,501 | 5.13 | 0.72 | 1.23 | 0.10 | 1.17 | 20 |
| L20AB023 | ECLIPSE 2220/SE ALT | LITE SET, TRAILER MTD., 15 LED LAMP, FLASHING ARROW, W/TWO 8D BATTERIES AND 50W SOLAR ARRAY | | | | \$5,496 | 1.67 | 0.31 | 0.53 | 0.04 | 0.00 | 12 |
| L20AB024 | ECLIPSE 2220/SE APF | LITE SET, TRAILER MTD., 25 LED LAMP, FLASHING ARROW, W/TWO 8D BATTERIES AND 50W SOLAR ARRAY | | | | \$5,879 | 1.80 | 0.34 | 0.57 | 0.05 | 0.00 | 12 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------------------------------|--|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| L25 LINE STRIPING EQUIPMENT | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 LINE STRIPING EQUIPMENT | | | | | | | | | | | |
| | JCL EQUIPMENT CO. | | | | | | | | | | | |
| L25JE002 | ROAD RUNNER | LINE STRIPING EQUIPMENT, STRIPE, INTERMEDIATE, 3 GUNS, TRUCK MOUNTED (17,590 LB GVW), TWO COLORS | 190 HP | D-on | | \$168,180 | 68.16 | 9.54 | 16.42 | 1.33 | 20.80 | 116 |
| L25JE003 | HRL-1 | LINE STRIPING EQUIPMENT, STRIPE, INTERMEDIATE, 1 GUNS SELF PROPELLED, SINGLE COLOR | 6 HP | G | | \$4,080 | 2.11 | 0.24 | 0.41 | 0.03 | 0.92 | 9 |
| | M-B COMPANIES, INC. | | | | | | | | | | | |
| L25MB002 | 5-10 | LINE STRIPING EQUIPMENT, STRIPE, 1 GUN, WALK-BEHIND, SINGLE COLOR | 6 HP | G | | \$12,224 | 5.30 | 0.70 | 1.19 | 0.10 | 0.92 | 6 |
| L25MB005 | 5-12A | LINE STRIPING EQUIPMENT, STRIPE, 2 GUNS, WALK BEHIND, SINGLE COLOR | 10 HP | G | | \$12,886 | 6.31 | 0.73 | 1.26 | 0.10 | 1.68 | 6 |
| L25MB007 | 260 ACL | LINE STRIPING EQUIPMENT, STRIPE, INTERMEDIATE, 3-4 GUNS, SELF PROPELLED, THREE COLORS | 23 HP | G | | \$85,714 | 28.26 | 4.97 | 8.57 | 0.68 | 3.86 | 30 |
| L25MB006 | 245 | LINE STRIPING EQUIPMENT, STRIPE, INTERMEDIATE, 3 GUNS, SELF PROPELLED, TWO COLORS | 20 HP | G | | \$187,271 | 55.20 | 10.85 | 18.73 | 1.48 | 3.36 | 48 |
| L25MB004 | TPX 2000 | LINE STRIPING EQUIPMENT, STRIPE, INTERMEDIATE, 3-4 GUNS, W/11,000 LBS GVW TRUCK, TWO COLORS | 190 HP | G | | \$379,064 | 138.48 | 21.75 | 37.51 | 2.99 | 31.89 | 290 |
| L25MB008 | 360 | LINE STRIPING EQUIPMENT, STRIPE, INTERMEDIATE, 3-4 GUNS, THERMAL 120 GAL, TRUCK MTD, TWO COLORS | 74 HP | D-off | | \$206,377 | 64.11 | 11.74 | 20.22 | 1.63 | 6.49 | 192 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|----------|---|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| L30 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 LOADERS, BELT (Conveyor belts) & ACCESSORIES | | | | | | | | | | | | | |
| | | | KPI-JCI | | | | | | | | | | | |
| L30KJ004 | 616 E-3 | LOADER, CONVEYOR BELT & ACCESSORIES, 6' X 16', VIBRATORY SLOPE TRIPLE DECK SCREENS, WHOPPER/ 36" X 28.5' FEEDER CONVEYOR/ 48" X27' UNDER SCREEN CONVEYOR/ & 24" X 20' SIDE DELIVERY CONVEYOR, TRAILER MTD | 85 HP | E | | \$224,653 | 52.03 | 10.46 | 17.43 | 1.74 | 5.36 | 280 | | |
| L30KJ001 | 11-2450 | LOADER, CONVEYOR BELT & ACCESSORIES, 24" WIDE X 50' LONG CONVEYOR WITH 24" DEEP LATTICE FRAME, SINGLE AXLE TELESCOPING UNDERCARRIAGE FOR RAISE AND LOWER, CAPABLE OF RADIAL TRAVEL, UP TO 250 TONS PER HOUR | 10 HP | E | | \$49,123 | 10.55 | 2.29 | 3.82 | 0.38 | 0.63 | 105 | | |
| L30KJ002 | 11-2460 | LOADER, CONVEYOR BELT & ACCESSORIES, 24" WIDE X 60' LONG CONVEYOR WITH 24" DEEP LATTICE FRAME, SINGLE AXLE, TELESCOPING UNDERCARRIAGE FOR RAISE AND LOWER, CAPABLE OF RADIAL TRAVEL, UP TO 250 TONS PER HOUR | 10 HP | E | | \$48,437 | 10.41 | 2.26 | 3.77 | 0.37 | 0.63 | 128 | | |
| L30KJ003 | PTC 24INX50FT | LOADER, CONVEYOR BELT & ACCESSORIES, CONVEYOR, TRUSS FRAME, 24"W X 50'L, WHEEL MTD, 300 TPH | 10 HP | E | | \$44,736 | 9.87 | 1.97 | 3.23 | 0.35 | 0.63 | 78 | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|-------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | METSO MINERALS | | | | | | | | | |
| | L30RA001 | CV50D | LOADER, CONVEYOR BELT & ACCESSORIES, GRIZZLY SINGLE SCREEN, 40-120 CY/HR TRAILER MTD | 29 HP | D-off | \$94,869 | 20.65 | 4.49 | 7.51 | 0.73 | 1.92 | 135 |
| | | | SUPERIOR INDUSTRIES, AN ASTEC COMPANY | | | | | | | | | |
| | L30S4001 | 36"X35' FEED CONVEY | LOADER, CONVEYOR BELT & ACCESSORIES, BELT FEEDER | 15 HP | E | \$27,169 | 6.70 | 1.30 | 2.17 | 0.21 | 0.95 | 33 |
| | L30S4002 | RUN-ON HYDRAULIC LEG | LOADER, CONVEYOR BELT & ACCESSORIES, 4 HYDRAULIC JACK LEGS | | | \$23,347 | 4.55 | 1.12 | 1.87 | 0.18 | 0.00 | 28 |
| | L30S4005 | HOPPER SKIRTING | HOPPER SKIRTING DITCH AND CENTER LINE SIDES | | | \$1,982 | 0.39 | 0.10 | 0.16 | 0.02 | 0.00 | 9 |
| | L30S4006 | FRAME SKIRTING | FRAME SKIRTING DITCH AND CENTER LINE SIDES | | | \$2,246 | 0.44 | 0.11 | 0.18 | 0.02 | 0.00 | 9 |
| L35 | LOADERS, FRONT END, CRAWLER TYPE | | | | | | | | | | | |
| | | SUBCATEGORY 0.00 | LOADERS, FRONT END, CRAWLER TYPE | | | | | | | | | |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| | L35CA001 | 239D | LOADER, FRONT END, TRACKED, 0.52 CY, 66" BUCKET | 67 HP | D-off | \$52,248 | 16.04 | 2.49 | 4.18 | 0.40 | 4.88 | 73 |
| | L35CA002 | 249D | LOADER, FRONT END, TRACKED, 0.52 CY, 66" BUCKET | 67 HP | D-off | \$55,197 | 16.65 | 2.64 | 4.42 | 0.43 | 4.88 | 77 |
| | L35CA003 | 257D | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 74 HP | D-off | \$61,329 | 18.47 | 2.93 | 4.91 | 0.47 | 5.41 | 81 |
| | L35CA004 | 259D | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 74 HP | D-off | \$62,019 | 18.61 | 2.96 | 4.96 | 0.48 | 5.41 | 89 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>L35</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | L35CA006 | 277D | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 74 HP | D-off | \$82,618 | 22.81 | 3.95 | 6.61 | 0.64 | 5.41 | 93 |
| | L35CA008 | 279D | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 74 HP | D-off | \$84,446 | 23.18 | 4.03 | 6.76 | 0.65 | 5.41 | 100 |
| | L35CA009 | 287D | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 74 HP | D-off | \$77,470 | 21.76 | 3.70 | 6.20 | 0.60 | 5.41 | 100 |
| | L35CA010 | 289D | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 74 HP | D-off | \$83,259 | 22.94 | 3.97 | 6.66 | 0.64 | 5.41 | 105 |
| | L35CA011 | 299D XHP | LOADER, FRONT END, TRACKED, 0.54 CY, 66" BUCKET | 110 HP | D-off | \$100,413 | 29.30 | 4.80 | 8.03 | 0.78 | 8.00 | 116 |
| | L35CA005 | 953-D | LOADER, FRONT END, CRAWLER, 2.25 CY BUCKET | 148 HP | D-off | \$250,646 | 62.98 | 11.97 | 20.05 | 1.94 | 10.77 | 334 |
| | L35CA014 | 963-D | LOADER, FRONT END, CRAWLER, 3.20 CY BUCKET | 189 HP | D-off | \$309,865 | 78.35 | 14.80 | 24.79 | 2.40 | 13.75 | 433 |
| | L35CA007 | 973D | LOADER, FRONT END, CRAWLER, 4.20 CY BUCKET, 3 SHANK RIPPER | 263 HP | D-off | \$524,169 | 127.98 | 25.03 | 41.93 | 4.06 | 19.14 | 573 |
| L40 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | |
| | SUBCATEGORY 0.11 ARTICULATED, 0 THRU 225 HP | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | L40CA001 | 903C | LOADER, FRONT END, WHEEL, 0.8 CY BUCKET, ARTICULATED, 4X4 | 42 HP | D-off | \$66,445 | 14.59 | 3.13 | 5.20 | 0.53 | 2.79 | 92 |
| | L40CA002 | 926M | LOADER, FRONT END, WHEEL, 3.2 CY BUCKET, ARTICULATED, 4X4 | 155 HP | D-off | \$195,984 | 54.44 | 8.25 | 13.34 | 1.58 | 10.28 | 288 |
| | L40CA033 | 906H2 | LOADER, FRONT END, WHEEL, 1.18 CY BUCKET, ARTICULATED, 4X4 | 69 HP | D-off | \$99,126 | 22.30 | 4.66 | 7.72 | 0.80 | 4.58 | 124 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|---|---------|---|---------------------------------|-------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | | | | | | | | |
| L40 | CATERPILLAR INC. (MACHINE DIVISION) <i>(continued)</i> | | | | | | | | | | | |
| | L40CA034 | 908H2 | LOADER, FRONT END, WHEEL, 1.40 CY BUCKET, ARTICULATED, 4X4 | 69 HP | D-off | \$115,277 | 25.03 | 5.45 | 9.03 | 0.93 | 4.58 | 143 |
| | L40CA019 | 914G2 | LOADER, FRONT END, WHEEL, 1.80 CY BUCKET, ARTICULATED, 4X4 | 95 HP | D-off | \$119,974 | 28.48 | 5.65 | 9.36 | 0.97 | 6.30 | 175 |
| | L40CA022 | 924Hz | LOADER, FRONT END, WHEEL, 2.20 CY BUCKET, ARTICULATED, 4X4 | 128 HP | D-off | \$166,564 | 38.78 | 7.91 | 13.13 | 1.34 | 8.49 | 242 |
| | L40CA040 | 930K | LOADER, FRONT END, WHEEL, 3.0 CY BUCKET, ARTICULATED, 4X4 | 154 HP | D-off | \$228,495 | 51.95 | 10.80 | 17.91 | 1.84 | 10.22 | 305 |
| | L40CA023 | 938K | LOADER, FRONT END, WHEEL, 3.50 CY BUCKET, ARTICULATED, 4X4 | 169 HP | D-off | \$252,581 | 57.13 | 11.97 | 19.87 | 2.03 | 11.21 | 351 |
| | L40CA024 | 950K | LOADER, FRONT END, WHEEL, 4.25 CY BUCKET, ARTICULATED, 4X4 | 211 HP | D-off | \$335,410 | 78.03 | 15.39 | 25.38 | 2.70 | 14.00 | 428 |
| | L40CA025 | 962K | LOADER, FRONT END, WHEEL, 4.50 CY BUCKET, ARTICULATED, 4X4 | 245 HP | D-off | \$331,896 | 79.94 | 15.22 | 25.09 | 2.67 | 16.25 | 451 |
| | CASE CORPORATION | | | | | | | | | | | |
| | L40CS012 | 621F | LOADER, FRONT END, WHEEL, 4.5 CY BUCKET, ARTICULATED, 4X4 | 156 HP | D-off | \$268,699 | 59.53 | 12.65 | 20.97 | 2.16 | 10.35 | 267 |
| | L40CS013 | 721F | LOADER, FRONT END, WHEEL, 5.5 CY BUCKET, ARTICULATED, 4X4 | 176 HP | D-off | \$297,348 | 65.86 | 14.04 | 23.29 | 2.39 | 11.68 | 315 |
| | L40CS014 | 821F | LOADER, FRONT END, WHEEL, 4.5 CY BUCKET, ARTICULATED, 4X4 | 208 HP | D-off | \$373,142 | 84.19 | 17.22 | 28.44 | 3.00 | 13.80 | 389 |
| KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | | |
| | L40KM003 | WA200-7 | LOADER, FRONT END, WHEEL, 3.10 CY BUCKET, ARTICULATED, 4X4 | 126 HP | D-off | \$193,666 | 44.00 | 9.11 | 15.09 | 1.56 | 8.36 | 263 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|----------|-------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | SUBCATEGORY 0.12 ARTICULATED, OVER 225 HP | | | | | | | | | |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| L40CA007 | 980K | | LOADER, FRONT END, WHEEL, UP TO 7.50 CY BUCKET, ARTICULATED, 4X4 | 369 HP | D-off | \$580,208 | 111.90 | 20.22 | 31.64 | 4.40 | 24.48 | 689 |
| L40CA018 | 990 H | | LOADER, FRONT END, WHEEL, 11.00 CY BUCKET, ARTICULATED, 4X4 | 627 HP | D-off | \$1,545,986 | 242.42 | 53.33 | 83.21 | 11.72 | 41.60 | 1,716 |
| L40CA009 | 992-K | | LOADER, FRONT END, WHEEL, 16.00 CY BUCKET, ARTICULATED, 4X4 | 800 HP | D-off | \$2,134,485 | 325.48 | 75.64 | 118.89 | 16.19 | 53.07 | 2,150 |
| L40CA035 | 988K | | LOADER, FRONT END, WHEEL, UP TO 17.00 CY BUCKET, ARTICULATED, 4X4 | 541 HP | D-off | \$877,554 | 160.69 | 29.98 | 46.66 | 6.65 | 35.89 | 1,126 |
| | | | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | |
| L40KM008 | WA500-7 | | LOADER, FRONT END, WHEEL, 8.20 CY BUCKET, ARTICULATED, 4X4 | 353 HP | D-off | \$596,493 | 112.72 | 20.82 | 32.60 | 4.52 | 23.42 | 755 |
| L40KM009 | WA600-6 | | LOADER, FRONT END, WHEEL, 9.20 CY BUCKET, ARTICULATED, 4X4 | 527 HP | D-off | \$866,733 | 148.62 | 29.85 | 46.55 | 6.57 | 34.96 | 1,190 |
| L40KM010 | WA700-3A | | LOADER, FRONT END, WHEEL, 11.10 CY BUCKET, ARTICULATED, 4X4 | 684 HP | D-off | \$1,021,650 | 182.77 | 33.82 | 52.14 | 7.75 | 45.38 | 1,574 |
| L40KM011 | WA800-3 | | LOADER, FRONT END, WHEEL, 18.30 CY BUCKET, ARTICULATED, 4X4 | 808 HP | D-off | \$1,458,879 | 243.92 | 50.49 | 78.86 | 11.06 | 53.60 | 2,304 |
| | | | SUBCATEGORY 0.20 SKID STEER | | | | | | | | | |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| L40CA003 | 226D | | LOADER, FRONT END WHEEL, SKID-STEER, 0.47 CY, 60" BUCKET | 67 HP | D-off | \$38,414 | 14.24 | 2.13 | 3.65 | 0.30 | 4.88 | 57 |
| L40CA004 | 232D | | LOADER, FRONT END WHEEL, SKID-STEER, 0.47 CY, 60" BUCKET | 67 HP | D-off | \$54,376 | 17.65 | 3.06 | 5.25 | 0.43 | 4.88 | 62 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--------------|---|-------|--|---------------------------------|---------|-------------|----------------------------|---------|---------------------|------|------|------|
| | | | | Main | Carrier | | 2013 (\$) | Average | Standby | Depr | FCCM | Fuel |
| L40 | CATERPILLAR INC. (MACHINE DIVISION) <i>(continued)</i> | | | | | | | | | | | |
| | L40CA005 | 236D | LOADER, FRONT END WHEEL, SKID-STEER, 0.52 CY, 66" BUCKET | 74 HP | D-off | \$47,077 | 16.68 | 2.63 | 4.52 | 0.37 | 5.41 | 66 |
| | L40CA006 | 242D | LOADER, FRONT END, WHEEL, SKID-STEER, 0.52 CY, 66" BUCKET | 74 HP | D-off | \$45,518 | 16.51 | 2.52 | 4.31 | 0.36 | 5.41 | 70 |
| | L40CA008 | 262D | LOADER, FRONT END, WHEEL, SKID-STEER, 0.52 CY, 66" BUCKET | 74 HP | D-off | \$51,770 | 17.85 | 2.88 | 4.94 | 0.41 | 5.41 | 81 |
| | L40CA010 | 272D | LOADER, FRONT END, WHEEL, SKID-STEER, 0.52 CY, 66" BUCKET | 98 HP | D-off | \$70,769 | 23.82 | 3.98 | 6.84 | 0.56 | 7.13 | 83 |
| | L40CA028 | 216B3 | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 60" BUCKET, 4X4 | 51 HP | D-off | \$34,789 | 12.16 | 1.92 | 3.29 | 0.27 | 3.71 | 57 |
| | L40CA029 | 226B3 | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 60" BUCKET, 4X4 | 56 HP | D-off | \$41,937 | 14.10 | 2.34 | 4.01 | 0.33 | 4.07 | 59 |
| | L40CA030 | 236B3 | LOADER, FRONT END, WHEEL, SKID-STEER, 14.0 CF, 66" BUCKET, 4X4 | 74 HP | D-off | \$38,123 | 14.90 | 2.09 | 3.57 | 0.30 | 5.38 | 70 |
| | L40CA031 | 246D | LOADER, FRONT END, WHEEL, SKID-STEER, 15.4 CF, 72" BUCKET, 4X4 | 74 HP | D-off | \$47,076 | 16.81 | 2.61 | 4.47 | 0.37 | 5.38 | 74 |
| | MELROE BOBCAT | | | | | | | | | | | |
| L40ME | L40ME016 | S70 | LOADER, FRONT END, WHEEL, SKID-STEER, 7.4 CF, 44" BUCKET, 4X4 | 24 HP | D-off | \$21,713 | 6.76 | 1.23 | 2.11 | 0.17 | 1.71 | 28 |
| | L40ME017 | S530 | LOADER, FRONT END, WHEEL, SKID-STEER, 10.5 CF, 62" BUCKET, 4X4 | 49 HP | D-off | \$33,023 | 11.63 | 1.82 | 3.12 | 0.26 | 3.57 | 65 |
| | L40ME012 | S450 | LOADER, FRONT END, WHEEL, SKID-STEER, 10.5 CF, 62" BUCKET | 49 HP | D-off | \$33,771 | 11.79 | 1.87 | 3.19 | 0.27 | 3.57 | 50 |
| | L40ME021 | S570 | LOADER, FRONT END, WHEEL, SKID-STEER, 10.5 CF, 62" BUCKET, 4X4 | 49 HP | D-off | \$34,775 | 12.00 | 1.92 | 3.29 | 0.27 | 3.57 | 62 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|---------|---|---------------------------------|----------|-------------|----------------------------|---------|---------------------|-------|------|-------|-------|
| | | | | Main | Carrier | | 2013 (\$) | Average | Standby | Depr | FCCM | Fuel | |
| L40 | MELROE BOBCAT (continued) | | | 74 HP D-off | | \$43,893 | 16.07 | 2.44 | 4.17 | 0.35 | 5.38 | 76 | |
| | L40ME022 | S630 | LOADER, FRONT END, WHEEL, SKID-STEER, 20.6 CF, 74" BUCKET, 4X4 | | | | | | | | | | |
| | L40ME023 | S740 | LOADER, FRONT END, WHEEL, SKID-STEER, 23.3 CF, 78" BUCKET, 4X4 | 74 HP D-off | | \$50,780 | 17.53 | 2.83 | 4.86 | 0.40 | 5.38 | 88 | |
| | SUBCATEGORY 0.31 | | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | 74 HP D-off | | | | | | | | | |
| | L40CA015 | TH255C | TELEHANDLER, 5500 LB RATED LOAD CAPACITY, 18.4' MAX LIFT HEIGHT WITH 3000 LB CAPACITY, 10.8' MAX FORWARD REACH WITH 1700 LB CAPACITY, 4X4 | | \$89,581 | | 21.23 | 3.99 | 6.53 | 0.72 | 4.91 | 110 | |
| | L40CA038 | TH514C | TELEHANDLER, 11,000 LB RATED LOAD CAPACITY, 45' MAX LIFT HEIGHT WITH 7,000 LB CAPACITY, 30.3' MAX FORWARD REACH WITH 3,000 LB CAPACITY, 4X4 | 101 HP D-off | | | \$190,970 | 41.80 | 8.50 | 13.93 | 1.53 | 6.70 | 249 |
| | L40CA039 | TH406C | TELEHANDLER, 8150 LB RATED LOAD CAPACITY, 20' MAX LIFT HEIGHT WITH 5500 LB CAPACITY, 10.2' MAX FORWARD REACH WITH 3300 LB CAPACITY, 4X4 | 101 HP D-off | | | \$95,278 | 25.09 | 4.16 | 6.80 | 0.76 | 6.70 | 184 |
| | L40CA011 | 330D MH | MATERIAL HANDLER, TRACKED, 1.25 CY GRAPPLE OR 66" MAGNET, 52' MAX HEIGHT, 48' MAX REACH | 268 HP D-off | | | \$583,781 | 120.63 | 26.56 | 43.78 | 4.67 | 17.78 | 984 |
| | L40CA016 | MH3037 | MATERIAL HANDLER, WHEELED, 1.25 CY GRAPPLE OR 66" MAGNET, 58' MAX HEIGHT, 52' MAX REACH | 225 HP D-off | | | \$604,401 | 122.28 | 27.09 | 44.50 | 4.84 | 14.93 | 871 |
| | L40CA017 | MH3049 | MATERIAL HANDLER, WHEELED, 1.5 CY GRAPPLE OR 66" MAGNET, 64' MAX HEIGHT, 58.4' MAX REACH | 300 HP D-off | | | \$734,019 | 150.19 | 32.98 | 54.22 | 5.87 | 19.90 | 1,110 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>L40</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | 325 HP D-off | | \$884,492 | 178.66 | 39.62 | 65.07 | 7.08 | 21.56 | 1,328 |
| | L40CA020 | MH3059 | MATERIAL HANDLER, WHEELED, 2.0 CY GRAPPLE OR 66" MAGNET, 64' MAX HEIGHT, 58.4' MAX REACH | | | | | | | | | |
| | L40CA021 | MH3295 | MATERIAL HANDLER, CRAWLER, 2.5 CY GRAPPLE OR 66" MAGNET, 74.2' MAX HEIGHT, 71.5' MAX REACH | | | | | | | | | |
| | L40CA026 | TL1055D | TELEHANDLER, 10,000 LB RATED LOAD CAPACITY, 55' MAX LIFT HEIGHT WITH 5,000 LB CAPACITY, 42' MAX FORWARD REACH WITH 2,500 LB CAPACITY, 4X4 | | | | | | | | | |
| | L40CA027 | TL1255D | TELEHANDLER, 12,000 LB RATED LOAD CAPACITY, 55' MAX LIFT HEIGHT WITH 5,000 LB CAPACITY, 42' MAX FORWARD REACH WITH 3,500 LB CAPACITY, 4X4 | | | | | | | | | |
| | L40CA036 | TL642D | TELEHANDLER, 6,500 LB RATED LOAD CAPACITY, 42' MAX LIFT HEIGHT WITH 6,500 LB CAPACITY, 30' MAX FORWARD REACH WITH 700 LB CAPACITY, 4X4 | | | | | | | | | |
| | L40CA037 | TL943D | TELEHANDLER, 9,000 LB RATED LB RATED LOAD CAPACITY, 43' MAX LIFT HEIGHT WITH 7,000 LB CAPACITY, 31' MAX FORWARD REACH WITH 1,200 LB CAPACITY, 4X4 | | | | | | | | | |
| | L40CA013 | IT14G | LOADER, WHEEL, INTEGRATED TOOL CARRIER, 1.75 CY LOADER: 6,303 LB @ 12.17' HIGH, FORK LIFT, OR 1,841 LB @ 22.42' HIGH, MATERIAL HANDLING ARM | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| L40 | | | | | | | | | | | | |
| | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | L40CA012 | IT38H | LOADER, WHEEL, INTEGRATED TOOL CARRIER, 2.50 CY LOADER; 10,640 LB @ 12.58' HIGH FORK LIFT, OR 3,195 LB @ 23.25' HIGH, MATERIAL HANDLING ARM | 145 HP | D-off | | \$224,072 | 51.99 | 9.82 | 16.05 | 1.79 | 9.62 |
| L50 | LOADERS / BACKHOE, WHEEL TYPE | | | | | | | | | | | |
| | | SUBCATEGORY 0.00 | LOADERS / BACKHOE, WHEEL TYPE | | | | | | | | | |
| | <i>CATERPILLAR INC. (MACHINE DIVISION)</i> | | | | | | | | | | | |
| | L50CA001 | 416F | LOADER / BACKHOE, WHEEL, 1.00 CY FRONT END BUCKET, 24" DIP, 6.2 CF, 14.5' DIGGING DEPTH, 4X2 | 87 HP | D-off | | \$92,959 | 22.53 | 4.06 | 6.63 | 0.74 | 4.47 |
| | L50CA002 | 420F | LOADER/BACKHOE, WHEEL, 1.5 CY FRONT END BUCKET, 8.5 CF BACKHOE BUCKET, 14' 4" DIGGING DEPTH, 4X4 | 93 HP | D-off | | \$136,681 | 30.38 | 5.99 | 9.79 | 1.09 | 4.78 |
| | L50CA005 | 450F | LOADER / BACKHOE, WHEEL, 1.75 CY FRONT END BUCKET, 9.5 CF, 17.2' DIGGING DEPTH, 4X2 | 127 HP | D-off | | \$198,941 | 43.14 | 8.92 | 14.65 | 1.59 | 6.52 |
| | <i>CASE CORPORATION</i> | | | | | | | | | | | |
| | L50CS007 | 580 SUPER N | LOADER / BACKHOE, WHEEL, 1.29 CY FRONT END BUCKET, 12.7 CF BACKHOE BUCKET, 14.5' MAX DIGGING DEPTH, 4X4 | 97 HP | D-off | | \$171,434 | 36.41 | 7.62 | 12.50 | 1.37 | 4.98 |
| | L50CS008 | 590 SUPER N | LOADER / BACKHOE, WHEEL, 1.50 CY FRONT END BUCKET, 12.7 CF BACKHOE BUCKET, 15.5' MAX DIGGING DEPTH, 4X4 | 110 HP | D-off | | \$193,964 | 41.35 | 8.56 | 14.02 | 1.55 | 5.65 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|--|---|-------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| | JCB INC. | | | 74 HP D-off | | \$94,734 | 21.88 | 4.10 | 6.67 | 0.76 | 3.80 | 154 | | | | | | | | | |
| | L50JC008 | 3CX14 | LOADER / BACKHOE, WHEEL, 1.1 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 14.6' DIGGING DEPTH, 4X4 | | | | | | | | | | | | | | | | | | |
| | L50JC009 | 3CX14 Super | LOADER / BACKHOE, WHEEL, 1.4 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 14.6' DIGGING DEPTH, 4X4 | | | | | | | | | | | | | | | | | | |
| | L50JC010 | 3CX15 Super | LOADER / BACKHOE, WHEEL, 1.40 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 16.3' DIGGING DEPTH, 4X4 | | | | | | | | | | | | | | | | | | |
| | L50JC011 | 4CX15 Super | LOADER / BACKHOE, WHEEL, 1.40 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 20.1' DIGGING DEPTH, 4X4 | | | | | | | | | | | | | | | | | | |
| | L50JC012 | 4CX17 Super | LOADER / BACKHOE, WHEEL, 1.60 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 21.5' DIGGING DEPTH, 4X4 | | | | | | | | | | | | | | | | | | |
| L55 LOADER / BACKHOE, ATTACHMENTS | | | | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 LOADER / BACKHOE, ATTACHMENTS | | | | | \$8,595 | 3.27 | 0.65 | 1.15 | 0.07 | 0.00 | 5 | | | | | | | | | |
| | FURUKAWA CO.,LTD. | | | | | | | | | | | | | | | | | | | | |
| | L55FU001 | B555 | LOADER / BACKHOE, ATTACHMENT, AIR RAM, 500 FT-LB, W/2.5" DIA CHISEL (ADD 175 CFM COMPRESSOR & LDR/BH) | | | | | | | | | | | | | | | | | | |
| | L55FU002 | B999 | LOADER / BACKHOE, ATTACHMENT, AIR RAM, 1000 FT-LB, W/ 3.5" DIA CHISEL (ADD 250 CFM COMPRESSOR & LDR/BH) | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|------------|---|--------------------|---|---------------------------------|----------|--------------------------|----------------------------|---------|---------------------|-------|------|-------|-----|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| <i>L55</i> | <i>FURUKAWA CO.,LTD. (continued)</i> | | | | | | | | | | | | | |
| | L55FU003 | F6TLB | LOADER / BACKHOE, ATTACHMENT, HYDRAULIC BREAKER, 1,000 FT-LB, W/3" DIA. POINT (ADD 12,000-14,000 LOADER/BACKHOE) | | | \$14,361 | 4.59 | 1.08 | 1.91 | 0.12 | 0.00 | 7 | | |
| <i>L60</i> | L55FU004 | F9TLB | LOADER / BACKHOE, ATTACHMENT, HYDRAULIC BREAKER, 1500 FT-LB, W/3.5" DIA. POINT (ADD 14,000-20,000 LOADER/BACKHOE) | | | \$19,668 | 6.28 | 1.47 | 2.62 | 0.16 | 0.00 | 11 | | |
| | LOG SKIDDER | | | | | | | | | | | | | |
| <i>L60</i> | SUBCATEGORY 0.00 LOG SKIDDER | | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | | |
| | L60CA013 | 525 C | LOG SKIDDER, 11 SF GRAPPLE, CABLE 43,000 LBS LINE-PULL AND WINCH, WHEEL, 4X2 | 160 | HP D-off | | \$369,171 | 76.68 | 17.28 | 29.04 | 2.76 | 10.61 | 358 | |
| | L60CA010 | 527 CABLE | LOG SKIDDER, CABLE, 69,200 LBS LINE-PULL AND WINCH, BLADE, CRAWLER | 150 | HP D-off | | \$402,394 | 79.12 | 20.11 | 34.20 | 3.01 | 9.95 | 407 | |
| | L60CA011 | 527 GRAPPLE | LOG SKIDDER, 10 SF GRAPPLE, CABLE 69,200 LBS LINE-PULL AND WINCH, CRAWLER | 150 | HP D-off | | \$439,609 | 85.42 | 21.98 | 37.37 | 3.29 | 9.95 | 473 | |
| | JOHN DEERE | | | | | | | | | | | | | |
| | L60JD001 | 540G III | LOG SKIDDER, CABLE, 40,525 LBS LINE-PULL WINCH AND BLADE, WHEEL, 4X4 | 119 | HP D-off | | \$178,828 | 42.07 | 8.02 | 13.36 | 1.34 | 7.89 | 219 | |
| | L60JD003 | 548G III - GRAPPLE | LOG SKIDDER, 8.0 SF GRAPPLE WITH BLADE, WHEEL, 4X4 | 119 | HP D-off | | \$178,205 | 40.56 | 8.41 | 14.16 | 1.33 | 7.89 | 217 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>L60</i> | <i>JOHN DEERE (continued)</i> | | | | | | | | | | | |
| | L60JD004 | 648H | LOG SKIDDER, 10.4 SF GRAPPLE WITH BLADE, WHEEL, 4X4 | 160 HP | D-off | \$259,317 | 58.70 | 12.04 | 20.20 | 1.94 | 10.61 | 266 |
| | L60JD002 | 640H | LOG SKIDDER, CABLE, 48,867 LBS LINE-PULL WINCH AND BLADE, WHEEL, 4X4 | 151 HP | D-off | \$234,157 | 53.79 | 10.78 | 18.06 | 1.75 | 10.02 | 239 |
| | L60JD006 | 643K | LOG SKIDDER, LOG FELLER/BUNCHER, 18" DIA TREE SAW CUTTER, WHEEL, 4X4 | 170 HP | D-off | \$223,973 | 53.49 | 10.28 | 17.20 | 1.68 | 11.28 | 320 |
| | L60JD008 | 753J | LOG SKIDDER, LOG FELLER/BUNCHER, 28" DIA TREE SAW CUTTER, CRAWLER | 170 HP | D-off | \$433,071 | 85.80 | 21.65 | 36.81 | 3.24 | 11.28 | 410 |
| | L60JD007 | 843K | LOG SKIDDER, LOG FELLER/BUNCHER, 20" DIA TREE SAW CUTTER, WHEEL, 4X4 | 200 HP | D-off | \$239,041 | 58.27 | 11.03 | 18.48 | 1.79 | 13.27 | 323 |
| M10 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | |
| | SUBCATEGORY 0.41 WORK FLOATS (NON-DREDGING) | | | | | | | | | | | |
| | MARINE INLAND FABRICATORS | | | | | | | | | | | |
| | M10MZ001 | BARGE 40'x8'x4' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 8' X 4', 23 TON | | | \$26,806 | 6.62 | 2.22 | 4.02 | 0.21 | 0.00 | 143 |
| | M10MZ003 | BARGE 40'x10'x4' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 10' X 4', 30 TON | | | \$31,425 | 7.76 | 2.60 | 4.71 | 0.24 | 0.00 | 173 |
| | SUBCATEGORY 0.42 WORK BARGES (SECTIONAL, NON-DREDGING) | | | | | | | | | | | |
| | MARINE INLAND FABRICATORS | | | | | | | | | | | |
| | M10MZ005 | BARGE 40'x12'x4' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 12' X 4', 36 TON | | | \$35,847 | 2.09 | 0.78 | 1.08 | 0.24 | 0.00 | 193 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>M10</i> | <i>MARINE INLAND FABRICATORS (continued)</i> | | | | | | | | | | | |
| | M10MZ007 | BARGE 40'x12'x5' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 12' X 5', 51 TON | | | \$38,257 | 2.23 | 0.84 | 1.15 | 0.26 | 0.00 | 217 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | M10XX020 | 48' X 12' X 4' BARGE | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 48' X 12' X 4', 20 TON | | | \$27,583 | 1.61 | 0.61 | 0.83 | 0.19 | 0.00 | 1 |
| | M10XX002 | RAMP | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, LOADING RAMPS | | | \$12,487 | 0.72 | 0.27 | 0.37 | 0.08 | 0.00 | 1 |
| | M10XX003 | 20-10-7 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MID-SECTION, 20' X 10' X 7' | | | \$27,176 | 1.58 | 0.59 | 0.82 | 0.18 | 0.00 | 90 |
| | M10XX004 | 40-10-4 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MID-SECTION, 40' X 10' X 4' | | | \$31,425 | 1.82 | 0.68 | 0.94 | 0.21 | 0.00 | 173 |
| | SUBCATEGORY 0.45 FLAT-DECK OR CARGO BARGE (NON-DREDGING) | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | M10XX025 | 1600T | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 150' X 60' X 10', 1600 TON CAPACITY | | | \$2,289,196 | 55.02 | 26.58 | 24.16 | 14.50 | 0.00 | 1 |
| | M10XX026 | 160334-BD | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 210' X 60' X 13', 3000 TON CAPACITY | | | \$2,460,184 | 59.13 | 28.57 | 25.97 | 15.58 | 0.00 | 1 |
| | M10XX005 | 120-30-7 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 120' X 30' X 7.25', 400 TON | | | \$191,477 | 4.60 | 2.22 | 2.02 | 1.21 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | |
|------------|---|------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|---|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | |
| <i>M10</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | \$269,519 | 6.48 | 3.13 | 2.84 | 1.71 | 0.00 | 1 | | | | |
| | M10XX006 | 120-45-7 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 120' X 45' X 7', 800 TON | | | | \$342,829 | 8.24 | 3.98 | 3.62 | 2.17 | 0.00 | 1 | | | |
| | M10XX007 | 140-45-7 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 140' X 45' X 7', 900 TON | | | | \$475,788 | 11.43 | 5.52 | 5.02 | 3.01 | 0.00 | 1 | | | |
| | M10XX008 | 150-45-9 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 150' X 45' X 9', 1,100 TON | | | | | | | | | | | | | |
| | SUBCATEGORY 0.48 ALL OTHER BARGES (NON-DREDGING) | | | | | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | \$102,799 | 6.50 | 2.30 | 3.26 | 0.67 | 0.00 | 1 | | | |
| | M10XX027 | 120410-BW | MARINE EQUIPMENT, ALL OTHER BARGES, 40' X 24' X 5' WORK BARGE WITH 36' HIGH SIDE WALLS AND LOADING RAMP, TWO - 12" DIA SPUDS | | | | \$172,875 | 10.91 | 3.86 | 5.47 | 1.12 | 0.00 | 1 | | | |
| | M10XX029 | 130601-BJ | MARINE EQUIPMENT, ALL OTHER BARGES, 40' X 12' X 5', JACK UP BARGE, 4 DETACHABLE WELLS AND HYDRAULIC SYSTEM, 12 TON CAPACITY | | | | \$286,110 | 18.07 | 6.39 | 9.06 | 1.86 | 0.00 | 1 | | | |
| | M10XX016 | OPEN 195 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 195' X 35' X 12', 1,400 TON | | | | \$302,503 | 19.10 | 6.75 | 9.58 | 1.96 | 0.00 | 1 | | | |
| | M10XX017 | OPEN 200 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 200' X 35' X 12', 1,600 TON | | | | \$376,772 | 23.79 | 8.41 | 11.93 | 2.44 | 0.00 | 1 | | | |
| | M10XX018 | CLOSED 195 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 195' X 35' X 12', 1,400 TON (COVERED) | | | | \$384,989 | 24.31 | 8.60 | 12.19 | 2.50 | 0.00 | 1 | | | |
| | M10XX019 | CLOSED 200 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 200' X 35' X 12', 1,600 TON (COVERED) | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|------------------|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | | | | | | | | | | |
| | | MUNSON WORKBOATS | | | | | | | | | | |
| M10M5001 | 19-8 | MARINE EQUIPMENT, BOATS & LAUNCHES, 19' UTILITY, ROOF COVERING, 8' BEAM, SINGLE 115 HP OUTBOARD MOTOR | 115 HP | G | | \$52,000 | 22.44 | 1.76 | 2.76 | 0.38 | 14.79 | 31 |
| M10M5002 | 21-22 | MARINE EQUIPMENT, BOATS & LAUNCHES, 21' UTILITY, ROOF COVERING, 8.5' BEAM, SINGLE 150 HP OUTBOARD MOTOR | 150 HP | G | | \$61,423 | 28.56 | 2.07 | 3.26 | 0.44 | 19.29 | 35 |
| M10M5003 | 23-20 | MARINE EQUIPMENT, BOATS & LAUNCHES, 23' UTILITY, ROOF COVERING, 8.5' BEAM, TWIN 115 HP OUTBOARD MOTORS | 230 HP | G | G | \$75,537 | 41.81 | 2.56 | 4.01 | 0.55 | 29.58 | 40 |
| | | MARINE INLAND FABRICATORS | | | | | | | | | | |
| M10MZ010 | COLT | MARINE EQUIPMENT, BOATS & LAUNCHES, TRUCKABLE WORKBOAT W/PILOT HOUSE & PUSH KNEES, INBOARD, 20.25' X 8' X 3' | 160 HP | D-off | | \$85,262 | 21.52 | 2.89 | 4.53 | 0.62 | 10.61 | 95 |
| M10MZ011 | MUSTANG180 | MARINE EQUIPMENT, BOATS & LAUNCHES, TRUCKABLE WORKBOAT W/PILOT HOUSE & PUSH KNEES, INBOARD, 25.25' X 10' X 3.5' 200HP | 200 HP | D-off | | \$106,614 | 26.90 | 3.60 | 5.66 | 0.77 | 13.27 | 180 |
| M10MZ012 | MUSTANG 200 | MARINE EQUIPMENT, BOATS & LAUNCHES, TRUCKABLE WORKBOAT W/PILOT HOUSE & PUSH KNEES, INBOARD, 25.75' X 10' X 3.5' 300HP | 300 HP | D-off | | \$118,524 | 35.92 | 4.01 | 6.30 | 0.86 | 19.90 | 95 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------------|----------------------|---|--------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| SEAARK MARINE | | | | | | | | | | | | |
| M10SM005 | 18' - 72 SERIES | MARINE EQUIPMENT, BOATS & LAUNCHES, 18' RIVER RUNNER, VEE HULL, NO CABIN, CAP 1,350 LBS, OUTBOARD, 18' X 7.9' X 0.5' | 115 HP | G | | \$38,912 | 21.03 | 1.32 | 2.07 | 0.28 | 14.79 | 15 |
| M10SM008 | 19' - UTILITY SERIES | MARINE EQUIPMENT, BOATS & LAUNCHES, 19' ROUSTABOUT, TRI HULL, NO CABIN, CAP 2,600 LBS, OUTBOARD, 19.4' X 8.5' X 0.8' | 200 HP | G | | \$68,156 | 36.61 | 2.30 | 3.62 | 0.49 | 25.72 | 17 |
| M10SM001 | 17' - UTILITY SERIES | MARINE EQUIPMENT, BOATS & LAUNCHES, 17' LITTLE GIANT, W/CABIN TRI-HULL, CAP 2,000 LBS, OUTBOARD, 17.5' X 7.25' X 0.7' | 150 HP | G | | \$86,220 | 31.22 | 2.91 | 4.58 | 0.62 | 19.29 | 18 |
| M10SM003 | 21' - UTILITY SERIES | MARINE EQUIPMENT, BOATS & LAUNCHES, 21' LITTLE GIANT, W/CABIN TRI-HULL, CAP 2,800 LBS, OUTBOARD, 21.4' X 8.5' X 1' | 200 HP | G | | \$100,461 | 40.09 | 3.40 | 5.34 | 0.73 | 25.72 | 24 |
| M10SM004 | 23' - UTILITY SERIES | MARINE EQUIPMENT, BOATS & LAUNCHES, 23' LITTLE GIANT, W/CABIN TRI-HULL, CAP 3,400 LBS, OUTBOARD, 23.4' X 8.5' X 1.2' | 250 HP | G | | \$105,614 | 47.97 | 3.57 | 5.61 | 0.76 | 32.16 | 28 |
| NO SPECIFIC MANUFACTURER | | | | | | | | | | | | |
| M10XX030 | 24' - 225 HP | MARINE EQUIPMENT, BOATS & LAUNCHES, 24' LENGTH, 8' 1" BEAM, CANOPY, OUTBOARD ENGINE | 225 HP | G | | \$56,613 | 39.05 | 1.92 | 3.01 | 0.41 | 28.94 | 28 |
| M10XX031 | 25' - 225 HP | MARINE EQUIPMENT, BOATS & LAUNCHES, 25' LENGTH, 8' BEAM, CANOPY, OUTBOARD ENGINE | 225 HP | G | | \$47,250 | 38.04 | 1.60 | 2.51 | 0.34 | 28.94 | 27 |
| M10XX010 | 15' TENDER | MARINE EQUIPMENT, BOATS & LAUNCHES, 15' TENDER, 6.5' BEAM, OUTBOARD ENGINE | 60 HP | G | | \$22,035 | 11.16 | 0.75 | 1.17 | 0.16 | 7.72 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>M10</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | M10XX009 | 13' RUNABOUT | MARINE EQUIPMENT, BOATS & LAUNCHES, 13' RUNABOUT, 6' BEAM, OUTBOARD ENGINE | 40 HP | G | \$17,685 | 7.76 | 0.60 | 0.94 | 0.13 | 5.14 | 13 |
| | M10XX011 | 14 | MARINE EQUIPMENT, BOATS & LAUNCHES, 14' TENDER, 7' BEAM, INBOARD ENGINE | 100 HP | D-off | \$65,855 | 14.80 | 2.23 | 3.50 | 0.48 | 6.63 | 13 |
| | M10XX012 | 100 | MARINE EQUIPMENT, BOATS & LAUNCHES, 16', SHALLOW DRAFT, INLAND TUG | 100 HP | D-off | \$67,088 | 14.92 | 2.27 | 3.56 | 0.49 | 6.63 | 13 |
| | M10XX013 | 115 | MARINE EQUIPMENT, BOATS & LAUNCHES, 22', SHALLOW DRAFT, INLAND TUG | 115 HP | D-off | \$86,924 | 18.22 | 2.94 | 4.62 | 0.63 | 7.63 | 23 |
| | M10XX014 | 175 | MARINE EQUIPMENT, BOATS & LAUNCHES, 18', W/STEERING NOZZLE, INLAND TUG | 175 HP | D-off | \$119,576 | 26.37 | 4.05 | 6.35 | 0.87 | 11.61 | 60 |
| | M10XX015 | 250 | MARINE EQUIPMENT, BOATS & LAUNCHES, 26', W/STEERING NOZZLE, INLAND TUG | 250 HP | D-off | \$150,008 | 35.43 | 5.08 | 7.97 | 1.09 | 16.59 | 83 |
| | SUBCATEGORY 0.53 BOATS & LAUNCHES, 251 THRU 500 HP | | | | | | | | | | | |
| | <i>NO SPECIFIC MANUFACTURER</i> | | | | | | | | | | | |
| | M10XX032 | 25' PUSHBOAT | MARINE EQUIPMENT, BOATS & LAUNCHES, 25' LENGTH, 14' BEAM, 5' DRAFT, PUSH BOAT, INBOARD ENGINES | 460 HP | D-off | \$190,261 | 55.48 | 6.08 | 9.51 | 1.32 | 30.52 | 290 |
| | M10XX035 | 25' PUSHBOAT | MARINE EQUIPMENT, BOATS & LAUNCHES, 25.25' LENGTH, 14' BEAM, 3.5' DRAFT, PUSH BOAT, INBOARD ENGINES | 660 HP | D-off | \$249,125 | 77.10 | 7.96 | 12.46 | 1.73 | 43.78 | 290 |
| | M10XX037 | 28' - 350 HP | MARINE EQUIPMENT, BOATS & LAUNCHES, 28' LENGTH, 9' BEAM, ENCLOSED CABIN, OUTBOARD ENGINE | 350 HP | G | \$106,536 | 62.45 | 3.41 | 5.33 | 0.74 | 45.02 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>M10</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | M10XX038 | 32' - 425 HP | MARINE EQUIPMENT, BOATS & LAUNCHES, 32' LENGTH, ENCLOSED CABIN, INBOARD ENGINE | 425 HP | D-off | \$354,141 | 69.89 | 11.31 | 17.71 | 2.45 | 28.19 | 1 |
| | M10XX039 | 40' PUSHBOAT | MARINE EQUIPMENT, BOATS & LAUNCHES, 40' LENGTH, 20' BEAM, 4.5' DRAFT, PUSH BOAT, INBOARD ENGINES | 800 HP | D-off | \$813,709 | 146.95 | 25.99 | 40.69 | 5.64 | 53.07 | 500 |
| | M10XX021 | 380 | MARINE EQUIPMENT, BOATS & LAUNCHES, 40', STANDARD RUDDER, INLAND TUG | 380 HP | D-off | \$397,760 | 70.99 | 12.71 | 19.89 | 2.76 | 25.21 | 100 |
| | M10XX022 | 435 | MARINE EQUIPMENT, BOATS & LAUNCHES, 45' LENGTH, 16' BEAM, 5' 0" DRAFT, PUSH BOAT | 435 HP | D-off | \$452,608 | 80.97 | 14.46 | 22.63 | 3.14 | 28.86 | 100 |
| | M10XX023 | 400 | MARINE EQUIPMENT, BOATS & LAUNCHES, 48' LENGTH, 20' BEAM, 6' 6" DRAFT PUSH BOAT | 400 HP | D-off | \$606,199 | 94.32 | 19.36 | 30.31 | 4.20 | 26.54 | 100 |
| | M10XX024 | 435 | MARINE EQUIPMENT, BOATS & LAUNCHES, 58' LENGTH, 21' BEAM, 6' 0" DRAFT, PUSH BOAT | 435 HP | D-off | \$864,396 | 124.01 | 27.60 | 43.22 | 5.99 | 28.86 | 130 |
| | SUBCATEGORY 0.54 TUGS, 501 THRU 1,000 HP | | | | | | | | | | | |
| | <i>NO SPECIFIC MANUFACTURER</i> | | | | | | | | | | | |
| | M10XX028 | 55 | MARINE EQUIPMENT, TUGS, 55 FT LENGTH, 20 FT BEAM, 5'0" DRAFT, 80 TON, TOW BOAT | 870 HP | D-off | \$668,155 | 98.57 | 12.01 | 15.03 | 4.49 | 53.99 | 200 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|---------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|--------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.55 TUGS, 1,000 THRU 2,000 HP | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | M10XX033 | 60 21 | MARINE EQUIPMENT, TUGS, 60 FT LENGTH, 21 FT BEAM, 5'0" DRAFT, 80 TON, TOW BOAT | 1,050 HP | D-off | \$794,062 | 109.72 | 11.79 | 12.99 | 5.29 | 65.16 | 1 |
| | M10XX034 | 70 30 | MARINE EQUIPMENT, TUGS, 70 FT LENGTH, 30 FT BEAM, 7'6" DRAFT, 80 TON, TOW BOAT | 1,350 HP | D-off | \$1,459,440 | 159.72 | 21.67 | 23.88 | 9.73 | 83.78 | 1 |
| | M10XX036 | 120 | MARINE EQUIPMENT, TUGS, 120 FT LENGTH, 34 FT BEAM, 8'0" DRAFT, 80 TON, TOW BOAT | 2,000 HP | D-off | \$3,902,444 | 310.60 | 57.95 | 63.86 | 26.02 | 124.12 | 1 |
| P10 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | | | | | | | | | | | |
| | SUBCATEGORY 0.00 PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | | | | | | | | | | | |
| | AMERICAN PILEDRIVING EQUIPMENT, INC. | | | | | | | | | | | |
| | P10AP001 | 8" X 21" PILE LEADS | PILE HAMMER ACCESSORIES, PILE LEADS, INCLUDES 21" LIFTING BAIL, 40' MID SECTION, 20' MID SECTION, 20' TOP TAPER, 4' STABBER, 3 LINE HEAD BLOCK | | | \$43,951 | 11.41 | 2.77 | 4.76 | 0.39 | 0.00 | 132 |
| | P10AP002 | 8" X 26" PILE LEADS | PILE HAMMER ACCESSORIES, PILE LEADS, INCLUDES 4' STABBER, TWO 40' MID SECTIONS, 20' MID SECTION, 20' TOP TAPER, LIFTING BALE, 3 LINE HEAD BLOCK | | | \$80,348 | 20.86 | 5.06 | 8.70 | 0.71 | 0.00 | 177 |
| | P10AP003 | 8" X 32" PILE LEADS | PILE HAMMER ACCESSORIES, PILE LEADS, INCLUDES 4' STABBER, TWO 40' MID SECTIONS, 20' MID SECTION, 40' TOP TAPER, LIFTING BALE, 3 LINE HEAD BLOCK | | | \$87,852 | 22.82 | 5.54 | 9.52 | 0.78 | 0.00 | 254 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>P10</i> | <i>AMERICAN PILEDRIVING EQUIPMENT, INC. (continued)</i> | | | | | | | | | | | |
| | P10AP004 | 8" X 43" PILE LEADS | PILE HAMMER ACCESSORIES, PILE LEADS, INCLUDES 4' STABBER, TWO 40' MID SECTIONS, 20' MID SECTION, 20' TOP TAPER, LIFTING BALE, 3 LINE HEAD BLOCK | | | \$105,733 | 27.46 | 6.67 | 11.45 | 0.94 | 0.00 | 232 |
| | P10AP005 | 10" X 54" PILE LEADS | PILE HAMMER ACCESSORIES, PILE LEADS, INCLUDES 5' STABBER, TWO 40' MID SECTIONS, 20' MID SECTION, 40' TOP TAPER, LIFTING BALE, 3 LINE HEAD BLOCK | | | \$156,853 | 40.73 | 9.89 | 16.99 | 1.39 | 0.00 | 457 |
| | P10AP006 | MODEL 100 SPOTTER | PILE HAMMER ACCESSORIES, LEAD SPOTTER, 37.5' MAX LENGTH (ADD LEAD & CRANE) | | | \$27,282 | 7.09 | 1.72 | 2.96 | 0.24 | 0.00 | 70 |
| | P10AP007 | MODEL 150 SPOTTER | PILE HAMMER ACCESSORIES, LEAD SPOTTER, 33' MAX LENGTH (ADD LEAD & CRANE) | | | \$44,061 | 11.44 | 2.78 | 4.77 | 0.39 | 0.00 | 85 |
| | INTERNATIONAL CONSTRUCTION EQUIPMENT, INC | | | | | | | | | | | |
| | P10IC002 | 416L | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 40 TON LINE PULL (ADD LEADS & CRANE) | 300 HP | D-off | \$204,850 | 75.87 | 12.91 | 22.19 | 1.81 | 19.90 | 207 |
| | P10IC010 | SWING26-86 | PILE HAMMER ACCESSORIES, PILE LEADS, SWING, 26" X 86' | | | \$19,195 | 4.99 | 1.21 | 2.08 | 0.17 | 0.00 | 101 |
| | P10IC012 | SWING32-88 | PILE HAMMER ACCESSORIES, PILE LEADS, SWING, 32" X 88' | | | \$27,075 | 7.03 | 1.71 | 2.93 | 0.24 | 0.00 | 155 |
| | P10IC011 | FIXED26-86 | PILE HAMMER ACCESSORIES, PILE LEADS, FIXED, 26" X 86', W/SPOTTER | 13 HP | D-off | \$37,846 | 10.80 | 2.38 | 4.10 | 0.33 | 0.86 | 134 |
| | P10IC013 | FIX-32-88 | PILE HAMMER ACCESSORIES, PILE LEADS, FIXED, 32" X 88', W/SPOTTER | 13 HP | G | \$46,944 | 14.10 | 2.97 | 5.09 | 0.42 | 1.67 | 193 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|--|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| P20 | PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | DIESEL | | | | | | | | | | |
| | INTERNATIONAL CONSTRUCTION EQUIPMENT, INC | | | | | | | | | | | |
| P20IC002 | 422 | PILE HAMMER, DOUBLE ACTING, DIESEL, 22,500 FT-LBS, MAX STROKE 5' 8" (ADD LEADS & CRANE) | | | | \$118,133 | 40.81 | 8.38 | 14.77 | 0.99 | 0.00 | 122 |
| P20IC003 | 520 | PILE HAMMER, DOUBLE ACTING, DIESEL, 30,000 FT-LBS, MAX STROKE 5' 11" (ADD LEADS & CRANE) | | | | \$120,066 | 42.05 | 8.52 | 15.01 | 1.01 | 0.00 | 156 |
| P20IC004 | 640 | PILE HAMMER, DOUBLE ACTING, DIESEL, 40,000 FT-LBS, MAX STROKE 6' 8" (ADD LEADS & CRANE) | | | | \$128,144 | 45.36 | 9.08 | 16.02 | 1.07 | 0.00 | 187 |
| | SUBCATEGORY 0.20 | PNEUMATIC (STEAM/AIR) | | | | | | | | | | |
| | MKT MANUFACTURING, INC. | | | | | | | | | | | |
| P20MK001 | #6 | PILE HAMMER, DOUBLE ACTING, PNEUMATIC, 2500 FT-LBS, MAX STROKE 8.75" (ADD 400 CFM COMPRESSOR, LEADS, & CRANE) | | | | \$47,347 | 15.98 | 3.55 | 6.31 | 0.39 | 0.00 | 31 |
| P20MK002 | 5 | PILE HAMMER, DOUBLE ACTING, PNEUMATIC (STEAM/AIR), 1,000 FT-LBS, MAX STROKE 7" (ADD 250 CFM COMPRESSOR, LEADS & CRANE) | 250 CFM | A | | \$29,797 | 10.55 | 2.23 | 3.97 | 0.24 | 0.00 | 17 |
| P20MK003 | 6 | PILE HAMMER, DOUBLE ACTING, PNEUMATIC (STEAM/AIR), 2,500 FT-LBS, MAX STROKE 8.75" (ADD 400 CFM COMPRESSOR, LEADS & CRANE) | 400 CFM | A | | \$47,854 | 17.15 | 3.58 | 6.38 | 0.39 | 0.00 | 31 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|-----|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| <i>P20</i> | <i>MKT MANUFACTURING, INC. (continued)</i> | | | 450 CFM A | | \$47,165 | 17.16 | 3.53 | 6.29 | 0.38 | 0.00 | 51 | | | | | | | | | |
| | P20MK004 | 7 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 4,150 FT-LBS, MAX STROKE 9.5" (ADD 450 CFM COMPRESSOR, LEADS & CRANE) | | | | | | | | | | | | | | | | | | |
| | P20MK005 | 9B3 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 8,750 FT-LBS, MAX STROKE 17" (ADD 600 CFM COMPRESSOR, LEADS & CRANE) | | | | \$72,716 | 25.79 | 5.44 | 9.70 | 0.59 | 0.00 | 72 | | | | | | | | |
| | P20MK006 | 10B3 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 13,100 FT-LBS, MAX STROKE 19" (ADD 750 CFM COMPRESSOR, LEADS & CRANE) | | | | \$98,849 | 35.85 | 7.39 | 13.18 | 0.80 | 0.00 | 111 | | | | | | | | |
| | P20MK007 | 11B3 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 19,150 FT-LBS, MAX STROKE 19" (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | | | | \$111,994 | 40.29 | 8.38 | 14.93 | 0.91 | 0.00 | 139 | | | | | | | | |
| P25 | PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 DIESEL | | | 21 HP D-off | | \$26,837 | 11.11 | 2.01 | 3.58 | 0.22 | 1.39 | 36 | | | | | | | | | |
| | BAUER-PILECO, INC. | | | | | | | | | | | | | | | | | | | | |
| | P25DL001 | D6-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 10,500 FT-LBS (ADD LEADS & CRANE) | | | | | | | | | | | | | | | | | | |
| | P25DL003 | D12-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 31,320 FT-LBS (ADD LEADS & CRANE) | | | | \$34,747 | 16.38 | 2.60 | 4.63 | 0.28 | 3.58 | 57 | | | | | | | | |
| | P25DL004 | D19-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 42,800 FT-LBS (ADD LEADS & CRANE) | | | | \$38,203 | 19.15 | 2.86 | 5.09 | 0.31 | 4.51 | 84 | | | | | | | | |
| | P25DL005 | D25-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 58,248 FT-LBS (ADD LEADS & CRANE) | | | | \$66,073 | 31.71 | 4.95 | 8.81 | 0.54 | 6.97 | 124 | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>P25</i> | <i>BAUER-PILECO, INC. (continued)</i> | | | | | | | | | | | |
| | P25DL006 | D30-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 69,898 FT-LBS (ADD LEADS & CRANE) | 119 HP | D-off | \$67,259 | 33.79 | 5.04 | 8.97 | 0.55 | 7.89 | 135 |
| | P25DL008 | D46-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 107,177 FT-LBS (ADD LEADS & CRANE) | 196 HP | D-off | \$83,075 | 46.68 | 6.22 | 11.08 | 0.68 | 13.00 | 196 |
| | P25DL009 | D62-22 | PILE HAMMER, SINGLE ACTING, DIESEL, 165,000 FT-LBS (ADD LEADS & CRANE) | 249 HP | D-off | \$160,661 | 76.78 | 12.02 | 21.42 | 1.31 | 16.52 | 270 |
| | P25DL010 | D80-23 | PILE HAMMER, SINGLE ACTING, DIESEL, 225,000 FT-LBS (ADD LEADS & CRANE) | 290 HP | D-off | \$231,617 | 104.22 | 17.33 | 30.88 | 1.89 | 19.24 | 373 |
| | P25DL011 | D100-23 | PILE HAMMER, SINGLE ACTING, DIESEL, 300,000 FT-LBS (ADD LEADS & CRANE) | 362 HP | D-off | \$228,851 | 110.41 | 17.12 | 30.51 | 1.86 | 24.02 | 449 |
| | <i>MKT MANUFACTURING, INC.</i> | | | | | | | | | | | |
| | P25MK001 | D19 | PILE HAMMER, SINGLE ACTING, DIESEL, 33,000 FT-LBS (ADD LEADS & CRANE) | 39 HP | D-off | \$37,911 | 17.56 | 2.84 | 5.05 | 0.31 | 2.59 | 100 |
| | P25MK003 | D36 | PILE HAMMER, SINGLE ACTING, DIESEL, 70,000 FT-LBS (ADD LEADS & CRANE) | 84 HP | D-off | \$65,615 | 31.47 | 4.91 | 8.75 | 0.53 | 5.57 | 225 |
| | SUBCATEGORY 0.20 PNEUMATIC (STEAM/AIR) | | | | | | | | | | | |
| | VULCAN HAMMER | | | | | | | | | | | |
| | P25VU002 | 306 | PILE HAMMER, SINGLE ACTING, PNEUMATIC (STEAM/AIR), 18,000 FT-LBS (ADD 750 CFM COMPRESSOR, LEADS & CRANE) | 750 CFM | A | \$61,190 | 22.55 | 4.82 | 8.67 | 0.48 | 0.00 | 121 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|---------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>P25</i> | <i>VULCAN HAMMER (continued)</i> | | | | | | | | | | | |
| | P25VU003 | 505 | PILE HAMMER, SINGLE ACTING, PNEUMATIC (STEAM/AIR), 25,000 FT-LBS (ADD 600 CFM COMPRESSOR, LEADS & CRANE) | 600 CFM | A | \$75,080 | 27.11 | 5.91 | 10.64 | 0.59 | 0.00 | 127 |
| | P25VU004 | 506 | PILE HAMMER, SINGLE ACTING, PNEUMATIC (STEAM/AIR), 32,500 FT-LBS (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM | A | \$76,811 | 27.68 | 6.05 | 10.88 | 0.61 | 0.00 | 140 |
| | P25VU005 | 508 | PILE HAMMER, SINGLE ACTING, PNEUMATIC (STEAM/AIR), 40,000 FT-LBS (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM | A | \$103,358 | 36.37 | 8.14 | 14.64 | 0.82 | 0.00 | 202 |
| | P25VU010 | 510 | PILE HAMMER, SINGLE ACTING, PNEUMATIC (STEAM/AIR), 50,000 FT-LBS (ADD 1,050 CFM COMPRESSOR, LEADS & CRANE) | 1,050 CFM | A | \$106,337 | 35.80 | 8.37 | 15.06 | 0.84 | 0.00 | 222 |
| | P25VU011 | 512 | PILE HAMMER, SINGLE ACTING, PNEUMATIC (STEAM/AIR), 60,000 FT-LBS (ADD 1,200 CFM COMPRESSOR, LEADS & CRANE) | 1,200 CFM | A | \$106,897 | 36.20 | 8.41 | 15.14 | 0.84 | 0.00 | 242 |
| <i>P30</i> | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | | | | | | | | | | | |
| | SUBCATEGORY 0.00 PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | | | | | | | | | | | |
| | AMERICAN PILEDRIVING EQUIPMENT, INC. | | | | | | | | | | | |
| | P30AP001 | MODEL 6 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 4 TON DRIVE FORCE, 6 TON MAX PULL, INCLUDES MODEL 10 POWER UNIT (ADD LEADS & CRANE) | 10 HP | D-off | \$39,435 | 13.36 | 2.95 | 5.26 | 0.32 | 0.66 | 8 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>P30</i> | <i>AMERICAN PILEDRIVING EQUIPMENT, INC. (continued)</i> | | | 275 HP D-off | | \$170,131 | 75.17 | 12.73 | 22.68 | 1.39 | 18.24 | 135 |
| | P30AP002 | MODEL 20 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 35 TON DRIVE FORCE, 28 TON MAX PULL, INCLUDES MODEL 275 POWER UNIT (ADD LEADS & CRANE) | | | | | | | | | |
| | P30AP003 | MODEL 50 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 50 TON DRIVE FORCE, 56 TON MAX PULL, INCLUDES MODEL 275 POWER UNIT (ADD LEADS & CRANE) | | | | | | | | | |
| | P30AP004 | MODEL 100 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 85 TON DRIVE FORCE, 45 TON MAX PULL, INCLUDES MODEL 275 POWER UNIT (ADD LEADS & CRANE) | | | | | | | | | |
| | P30AP005 | MODEL 150 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 85 TON DRIVE FORCE, 108 TON MAX PULL, INCLUDES MODEL 375 POWER UNIT (ADD LEADS & CRANE) | | | | | | | | | |
| | P30AP006 | MODEL 400 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 298 TON DRIVE FORCE, 234 TON MAX PULL, INCLUDES MODEL 1050 POWER UNIT (ADD LEADS & CRANE) | | | | | | | | | |
| | P30AP007 | MODEL 600 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 445 TON DRIVE FORCE, 351 TON MAX PULL, INCLUDES MODEL 1200 POWER UNIT (ADD LEADS & CRANE) | | | | | | | | | |
| | P30AP008 | MODEL 15 EXCAVATOR | PILE HAMMER, EXCAVATOR MOUNTED, DRIVER/EXTRACTOR, VIBRATORY, 23 TON DRIVE FORCE (ADD EXCAVATOR) | | | | | | | | | |
| | P30AP009 | MODEL 20 EXCAVATOR | PILE HAMMER, EXCAVATOR MOUNTED, DRIVER/EXTRACTOR, VIBRATORY, 35 TON DRIVE FORCE (ADD EXCAVATOR) | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|--------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| P30 | | | <i>AMERICAN PILEDRIVING EQUIPMENT, INC. (continued)</i> | | | | | | | | | |
| | P30AP010 | MODEL 50 EXCAVATOR | PILE HAMMER, EXCAVATOR MOUNTED, DRIVER/EXTRACTOR, VIBRATORY, 50 TON DRIVE FORCE (ADD EXCAVATOR) | | | \$84,147 | 26.90 | 6.30 | 11.22 | 0.69 | 0.00 | 40 |
| | P30AP011 | MODEL 300 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 160 TON DRIVE FORCE, 150 TON MAX PULL, INCLUDES MODEL 765 POWER UNIT (ADD LEADS & CRANE) | 765 HP D-off | | \$391,126 | 182.86 | 29.26 | 52.15 | 3.18 | 50.75 | 395 |
| | | | MKT MANUFACTURING, INC. | | | | | | | | | |
| | P30MK001 | V-5C/HP-185 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 53 TON FORCE DRIVE (ADD LEADS & CRANE) | 185 HP D-off | | \$132,883 | 56.46 | 9.94 | 17.72 | 1.08 | 12.27 | 110 |
| | P30MK003 | V-20B/HP-365 T3 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 98.5 TON FORCE DRIVE (ADD LEADS & CRANE) | 365 HP D-off | | \$205,101 | 93.15 | 15.35 | 27.35 | 1.67 | 24.21 | 220 |
| | P30MK004 | V52/HP-700 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 200 TON FORCE DRIVE (ADD LEADS & CRANE) | 700 HP D-off | | \$333,328 | 159.47 | 24.93 | 44.44 | 2.71 | 46.44 | 327 |
| P35 | PIPELAYERS | | | | | | | | | | | |
| | SUBCATEGORY 0.00 PIPELAYERS | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | P35CA010 | PL61 | PIPELAYER, 18' BOOM, 40,000 LBS CAPACITY | 125 HP D-off | | \$354,022 | 53.62 | 12.80 | 20.23 | 2.68 | 4.55 | 354 |
| | P35CA011 | PL83 | PIPELAYER, 24' BOOM, 160,000 LBS CAPACITY | 310 HP D-off | | \$890,083 | 134.63 | 32.17 | 50.86 | 6.74 | 11.28 | 855 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--------------------------------------|----------|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| P35 | | | CATERPILLAR INC. (MACHINE DIVISION) <i>(continued)</i> | | | \$1,057,011 | 159.78 | 38.20 | 60.40 | 8.00 | 13.32 | 945 |
| P35 | P35CA012 | PL87 | PIPELAYER, 28' BOOM, 214,000 LBS CAPACITY | 366 HP | D-off | | | | | | | |
| P40 PLATFORMS & MAN-LIFTS | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 PLATFORMS & MAN-LIFTS | | | | | | | | | |
| | | | BIL-JAX, INC. | | | | | | | | | |
| | P40BX001 | SKYRIDER 15 | MAN-LIFT, TELESCOPIC MAST, 14.8' HEIGHT, 500 LBS, 24 VOLT DC, RECHARGEABLE BATTERIES, SELF PROPELLED, 2.2' X 4' PLATFORM | | | \$14,571 | 3.35 | 0.93 | 1.64 | 0.11 | 0.00 | 18 |
| | | | TEREX CORPORATION | | | | | | | | | |
| | P40TE018 | Z-45/25RT - 4WD | MAN-LIFT, ARTICULATED BOOM, 52' HEIGHT, 500 LBS, 24' REACH, 4X4, SELF PROPELLED, 2.5' X 6' PLATFORM | 48 HP | D-off | \$119,899 | 33.60 | 7.33 | 12.88 | 0.89 | 2.47 | 134 |
| | P40TE019 | S80X | MAN-LIFT, STRAIGHT BOOM, 86' HEIGHT, 500 LBS, 71.5' REACH, 4X4, SELF PROPELLED, 3' X 8' PLATFORM | 58 HP | D-off | \$249,469 | 63.65 | 15.12 | 26.56 | 1.84 | 2.98 | 355 |
| | P40TE020 | Z-62/40 - 4WD W/ JIB | MAN-LIFT, ARTICULATED BOOM, 62' HEIGHT, 500 LBS, 41' REACH, 4X4, SELF PROPELLED, 3' X 8' PLATFROM | 48 HP | D-off | \$183,915 | 48.25 | 10.95 | 19.18 | 1.36 | 2.47 | 219 |
| | P40TE021 | S60X | MAN-LIFT, STRAIGHT BOOM, 64' HEIGHT, 500 LBS, 51' REACH, 4X4, SELF PROPELLED, 3' X 8' PLATFORM | 48 HP | D-off | \$182,464 | 47.93 | 10.86 | 19.02 | 1.35 | 2.47 | 208 |
| | P40TE022 | S105 | MAN-LIFT, STRAIGHT BOOM, 110' HEIGHT, 500 LBS, 80' REACH, 4X4, SELF PROPELLED, 3' X 8' PLATFORM | 74 HP | D-off | \$329,271 | 82.62 | 20.20 | 35.54 | 2.43 | 3.80 | 400 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--------------------------------------|----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>P40</i> | <i>TEREX CORPORATION (continued)</i> | | | | | | | | | | | |
| | P40TE023 | S40 | MAN-LIFT, STRAIGHT BOOM, 46' HEIGHT, 500 LBS, 32' REACH, 4X4, SELF PROPELLED, 3' X 8' PLATFORM | 48 HP | D-off | \$126,613 | 31.94 | 7.96 | 14.04 | 0.94 | 2.47 | 124 |
| | P40TE024 | S85 | MAN-LIFT, STRAIGHT BOOM, 91' HEIGHT, 500 LBS, 76.5' REACH, 4X4, SELF PROPELLED, 3' X 8' PLATFORM | 58 HP | D-off | \$260,291 | 66.09 | 15.81 | 27.78 | 1.92 | 2.98 | 380 |
| | P40TE025 | COMMANDER 4047 | MAN-LIFT, LINE-TRUCK, W/ 12T LIFT CAPACITY BOOM, 47' MAX SHEAVE HEIGHT, 18" DIA AUGER, POLE GUIDES, MOUNTED ON FREIGHTLINER M2 4X2 56KGVW TRUCK CHASSIS | 360 HP | D-on | \$184,103 | 68.23 | 11.55 | 20.37 | 1.36 | 23.07 | 220 |
| | P40TE026 | COMMANDER 6000 | MAN-LIFT, LINE-TRUCK, W/ 13.5T LIFT CAPACITY BOOM, 60' MAX SHEAVE HEIGHT, 18" DIA AUGER, POLE GUIDES, MOUNTED ON FREIGHTLINER M2 6X6 56KGVW TRUCK CHASSIS | 380 HP | D-on | \$240,447 | 83.11 | 15.01 | 26.45 | 1.78 | 24.35 | 310 |
| | P40TE027 | HR37M | MAN-LIFT, LINE-TRUCK, W/ 1,000 LB MATERIAL HANDLER, SINGLE MAN BUCKET W/ 42' MAX WORKING HEIGHT. MOUNTED ON FORD F550 4X4 | 300 HP | D-on | \$109,241 | 46.72 | 6.84 | 12.06 | 0.81 | 19.22 | 120 |
| | P40TE028 | LTM40 | MAN-LIFT, LINE-TRUCK, W/ 800 LB MATERIAL HANDLER, SINGLE MAN BUCKET W/ 45' MAX WORKING HEIGHT. MOUNTED ON FORD F550 4X4 | 300 HP | D-on | \$128,371 | 51.04 | 8.06 | 14.21 | 0.95 | 19.22 | 130 |
| | P40TE029 | TM105 | MAN-LIFT, LINE-TRUCK, W/ 1,500 LB MATERIAL HANDLER, SINGLE MAN BUCKET W/ 105' MAX WORKING HEIGHT. MOUNTED ON FREIGHTLINER M2 6X4 56KGVW TRUCK CHASSIS | 360 HP | D-on | \$459,234 | 131.15 | 28.93 | 51.06 | 3.40 | 23.07 | 450 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|--------------------------------------|-----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>P40</i> | <i>TEREX CORPORATION (continued)</i> | | | 270 HP D-on | | \$119,314 | 46.84 | 7.48 | 13.19 | 0.88 | 17.30 | 170 | |
| | P40TE030 | XT55 | MAN-LIFT, LINE-TRUCK, W/ 1,000 LB MATERIAL HANDLER, SINGLE MAN BUCKET W/ 60' MAX WORKING HEIGHT. MOUNTED ON FORD F750 4X2 | | | | | | | | | | |
| | P40TE031 | GS-3246 | MAN-LIFT, SCISSOR, 38' (11.6 M) HIGH, 5,211 LB (2,364 KG), 24V DC BATTERIES, 4X2 | | | | \$37,378 | 8.89 | 2.24 | 3.91 | 0.28 | 0.00 | 52 |
| | P40TE032 | GS-3232 | MAN-LIFT, SCISSOR, 38' (11.6 M) HIGH, 5,185 LB (2,352 KG), 24V DC BATTERIES, 4X2 | | | | \$42,167 | 9.97 | 2.54 | 4.45 | 0.31 | 0.00 | 52 |
| | P40TE016 | GRC-12 | MAN-LIFT, TELESCOPIC MAST, 12' HEIGHT, 500 LBS, 24 VOLT DC, RECHARGEABLE BATTERIES, SELF PROPELLED, 2.5' X 4.5' PLATFORM | 1 HP | E | \$22,300 | 5.16 | 1.42 | 2.51 | 0.16 | 0.05 | 21 | |
| | P40TE033 | GS-2032 | MAN-LIFT, SCISSOR, 26' (7.9 M) HIGH, 3,574 LB (1,621 KG), 24V DC BATTERIES, 4X2 | 25 HP D-off | | \$23,094 | 5.65 | 1.32 | 2.30 | 0.17 | 0.00 | 36 | |
| | P40TE034 | GS-4069RT - T4F | MAN-LIFT, SCISSOR, ROUGH TERRAIN W/ OUTRIGGERS, 46' (14.02 M) HIGH, 11,110 LB (5,039 KG), 4X4 | | | | \$95,205 | 24.91 | 5.68 | 9.96 | 0.70 | 1.27 | 111 |
| | P40TE035 | GS-5390RT - T4F | MAN-LIFT, SCISSOR, ROUGH TERRAIN W/ OUTRIGGERS, 59' (18.15 M) HIGH, 18,272 LB (9,190 KG), 4X4 | 48 HP | D-off | \$128,084 | 50.22 | 6.64 | 11.37 | 0.95 | 2.47 | 183 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|-------------------------------|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| P45 | PUMPS, GROUT | | | | | | | | | | | |
| | SUBCATEGORY 0.00 PUMPS, GROUT | | | | | | | | | | | |
| | AIRPLACO EQUIPMENT CO., INC. | | | | | | | | | | | |
| P45AF012 | PUMP MASTER PG35 | PUMP, GROUT/SHOTCRETE, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 10 CY/HR, 500 PSI, GROUT-MUD JACK-SHOTCRETE, CART MTD, (ADD 4" HOSE) | 35 HP | G | | \$31,360 | 15.26 | 1.88 | 3.27 | 0.24 | 6.56 | 14 |
| P45AF013 | SPRAY | PUMP, GROUT, 0 - 10 GAL/MIN, CART MTD, W/52 GAL HOPPER & 12 CFM COMPRESSOR (ADD HOSE) | 14 HP | G | | \$13,394 | 6.42 | 0.78 | 1.36 | 0.10 | 2.62 | 8 |
| P45AF002 | HG-5 | PUMP, GROUT, HAND PUMP, 12 CF/HR, 0-100 PSI, W/O HOPPER (ADD HOSES) | | | | \$781 | 0.19 | 0.05 | 0.08 | 0.01 | 0.00 | 1 |
| P45AF003 | HG-9 | PUMP, GROUT, HAND PUMP, 15 CF/HR, 0-100 PSI, W/5 GAL HOPPER (ADD HOSES) | | | | \$1,367 | 0.34 | 0.09 | 0.15 | 0.01 | 0.00 | 1 |
| P45AF008 | HGA-530 | PUMP, GROUT, 50 CF/HR, 0-250 PSI, SKID MTD, W/5 GAL HOPPER AND 30 GAL MIXER (ADD 50 CFM COMPRESSOR & HOSE) | 5 CFM | A | | \$9,059 | 2.34 | 0.55 | 0.96 | 0.07 | 0.00 | 4 |
| P45AF009 | SM-78MD | PUMP, GROUT, 0 - 10 GAL/MIN, TRL MTD, W/60 GAL HOPPER, 4.5 CF HYDRAULIC MIXERS, & 12 CFM COMPRESSOR (ADD HOSE) | 10 HP | D-on | | \$20,289 | 6.48 | 1.24 | 2.16 | 0.16 | 1.20 | 13 |
| P45AF006 | MJ-16 | PUMP, MUDJACK/SLABJACKING, 160 CF/HR, 0-400 PSI, GROUT-MUD JACKING-SHOTCRETE, CART MTD, W/5 CF HOPPER (ADD 2" HOSE) | 12 HP | G | | \$10,641 | 5.19 | 0.65 | 1.13 | 0.08 | 2.25 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|-------------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>P45</i> | <i>AIRPLACO EQUIPMENT CO., INC. (continued)</i> | | | | | | | | | | | |
| | P45AF010 | Pro-Cretor | PUMP, GROUT/SHOTCRETE, SELF CONTAINED W/ 10 CF MIXER, HIGH PRESSURE DUAL CYLINDER PUMP, S-TUBE, TRAILER MTD (ADD HOSE) | 46 HP | D-off | \$69,509 | 22.18 | 4.21 | 7.36 | 0.53 | 4.43 | 38 |
| | P45AF011 | COBRA 536 | PUMP, GROUT/SHOTCRETE, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 30-36 CY/HR, 0 - 900 PSI, GROUT-MUD JACK-SHOTCRETE, TRAILER MTD, (ADD UP TO 5" HOSE) | 60 HP | D-off | \$62,431 | 21.95 | 3.78 | 6.60 | 0.48 | 5.78 | 49 |
| | P45AF007 | PG-25 PumpMaster | PUMP, GROUT, HIGH VOLUME DUAL CYLINDER GROUT PUMP, 756 CF/HR CONCRETE, 350 CF/HR SHOTCRETE, TRAILER MTD, W/5 CF HOPPER (ADD HOSE 1" - 2" DIA) | 25 HP | G | \$15,885 | 9.28 | 0.97 | 1.69 | 0.12 | 4.69 | 25 |
| | CHEMGROUT, INC. | | | | | | | | | | | |
| | P45CG001 | CG-050 | PUMP, GROUT, MINI, AIR, 40 CF/HR, 225 PSI, PORTABLE, SKID MTD (ADD 15 CFM - 100 PSI COMPRESSOR) | 15 CFM | A | \$4,684 | 1.22 | 0.29 | 0.50 | 0.04 | 0.00 | 1 |
| | P45CG002 | CG-550P | PUMP, GROUT, MIXER, AIR, 40 CF/HR, 225 PSI, SKID MTD (ADD 85 CFM - 100 PSI COMPRESSOR) | 85 CFM | A | \$7,477 | 1.95 | 0.46 | 0.79 | 0.06 | 0.00 | 3 |
| | P45CG003 | CG-500/2C6 VERSATILE | PUMP, GROUT, MIXER, AIR, 160 CF/HR, 160 PSI, SKID MTD, 15 GAL HOPPER & 2 - 70 GAL MIXING TANKS (ADD 250 CFM - 100 PSI COMPRESSOR) | 230 CFM | A | \$17,570 | 4.50 | 1.07 | 1.87 | 0.13 | 0.00 | 12 |
| | P45CG007 | CG575/3C6/DH3 3/AC | PUMP, GROUT, SPRAY, 64 CF/HR, 261 PSI, TRAILER MTD, 15 GAL HOPPER & 45 GAL MIXING TANK, W/AIR COMPRESSOR, POWER UNIT | 33 HP | D-off | \$31,725 | 11.42 | 1.91 | 3.34 | 0.24 | 3.18 | 23 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|-----------------------------|----------------|--|---------------------------------|---------|-------------|----------------------------|---------|---------------------|------|-------|------|
| | | | | MAIN | CARRIER | | 2013 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL |
| P45 | CHEMGROUT, INC. (continued) | | | 20 HP | D-off | \$26,218 | 8.66 | 1.58 | 2.75 | 0.20 | 1.93 | 23 |
| | P45CG006 | CG575/3C6/DH20 | PUMP, GROUT, THICK MIX, 64 CF/HR, 261 PSI, TRAILER MTD, 15 GAL HOPPER & 45 GAL MIXING TANK, W/AIR COMPRESSOR, POWER UNIT | | | | | | | | | |
| | OLIN PUMP | | | 55 HP | D-off | \$33,419 | 14.23 | 2.02 | 3.52 | 0.26 | 5.30 | 42 |
| | P45OE002 | 5 40 | PUMP, GROUT PUMP, 1,134 CF/HR, 750 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | | | | | | | | | |
| | P45OE003 | 5 65 | PUMP, GROUT PUMP, 1,836 CF/HR, 1100 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | 84 HP | D-off | \$44,127 | 20.01 | 2.67 | 4.66 | 0.34 | 8.09 | 48 |
| | P45OE004 | 5 85 | PUMP, GROUT PUMP, 2,295 CF/HR, 1100 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | | | | | | | | | |
| | P45OE005 | 5 140CA | PUMP, GROUT PUMP, 3,780 CF/HR, 900 PSI, 37 GAL HOPPER, TRAILER MTD TANDEM, W/POWER UNIT | 120 HP | D-off | \$51,789 | 25.80 | 3.14 | 5.48 | 0.40 | 11.56 | 56 |
| | PUTZMEISTER INC. | | | | | | | | | | | |
| | P45PU001 | MAGNUM | PUMP, GROUT, GROUT-MUD JACK-SHOTCRETE, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 135 CF/HR, 0 - 1,750 PSI, TRAILER MTD, W/7 CF HOPPER, 5 CF MIXER, 3" HOSE | 46 HP | D-off | \$57,391 | 19.17 | 3.47 | 6.06 | 0.44 | 4.43 | 35 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | |
|-----|---|------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | |
| P50 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | |
| | SUBCATEGORY | 0.11 | ENGINE DRIVE | | | | | | | | | | | | |
| | WACKER CORPORATION | | | | | | | | | | | | | | |
| | P50WC001 | PT 2A | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 2" DIA, 205 GPM @ 100' HEAD (ADD HOSES) | 10 | HP | G | | | \$1,647 | 2.39 | 0.09 | 0.16 | 0.01 | 1.77 | 1 |
| | P50WC002 | PT 3A | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 3" DIA, 425 GPM @ 95' HEAD (ADD HOSES) | 15 | HP | D-off | | | \$2,022 | 2.07 | 0.12 | 0.20 | 0.02 | 1.38 | 2 |
| | P50WC003 | PTS 4V | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 4" DIA, 705 GPM @ 106' HEAD (ADD HOSES) | 16 | HP | D-off | | | \$4,518 | 2.74 | 0.27 | 0.45 | 0.04 | 1.47 | 3 |
| | P50WC004 | PT6LT | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 6" DIA, 1,300 GPM @ 100' HEAD ,TRAILER MTD (ADD HOSES) | 33 | HP | D-off | | | \$21,130 | 8.37 | 1.21 | 2.08 | 0.17 | 3.04 | 25 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | | |
| | P50XX001 | 6" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 6" DIA, 1,165 GPM, AIR COOLED (ADD HOSES) | 60 | HP | D-off | | | \$52,793 | 18.49 | 3.06 | 5.28 | 0.42 | 5.52 | 22 |
| | P50XX002 | 8" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 8" DIA, 2,085 GPM, WATER COOLED (ADD HOSES) | 70 | HP | D-off | | | \$49,697 | 18.85 | 2.88 | 4.97 | 0.39 | 6.44 | 35 |
| | P50XX003 | 10" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 10" DIA, 2,665 GPM, WATER COOLED (ADD HOSES) | 85 | HP | D-off | | | \$91,865 | 30.09 | 5.33 | 9.19 | 0.73 | 7.82 | 43 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|------------------|----------------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | | | | | | | | | | |
| | | GORMAN-RUPP COMPANY | | | | | | | | | | |
| | P50GR001 | C221-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION, 2" DIA X 20' WITH COUPLING (PER SECTION) | | | \$126 | 0.08 | 0.02 | 0.03 | 0.00 | 0.00 | 1 |
| | P50GR002 | C356-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION, 3" DIA X 20' WITH COUPLING (PER SECTION) | | | \$193 | 0.12 | 0.02 | 0.04 | 0.00 | 0.00 | 1 |
| | P50GR003 | C357-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION, 4" DIA X 20' WITH COUPLING (PER SECTION) | | | \$351 | 0.22 | 0.04 | 0.08 | 0.00 | 0.00 | 1 |
| | P50GR004 | C354-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION, 6" DIA X 20' WITH COUPLING (PER SECTION) | | | \$625 | 0.40 | 0.08 | 0.14 | 0.01 | 0.00 | 1 |
| | P50GR005 | C373-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, DISCH, 2" DIA X 50' WITH COUPLING (PER SECTION) | | | \$106 | 0.06 | 0.01 | 0.02 | 0.00 | 0.00 | 1 |
| | P50GR006 | C374-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, DISCH, 3" DIA X 50' WITH COUPLING (PER SECTION) | | | \$176 | 0.11 | 0.02 | 0.04 | 0.00 | 0.00 | 1 |
| | P50GR007 | C375-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, DISCH, 4" DIA X 50' WITH COUPLING (PER SECTION) | | | \$276 | 0.17 | 0.03 | 0.06 | 0.00 | 0.00 | 2 |
| | P50GR008 | C376-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, DISCH, 6" DIA X 50' WITH COUPLING (PER SECTION) | | | \$507 | 0.31 | 0.06 | 0.11 | 0.00 | 0.00 | 3 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|--------------------------------------|----------|----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| P55 PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.01 ENGINE DRIVE | | | | | | | | | | |
| | | | GRIFFIN DEWATERING CORP. | | | | | | | | | | |
| | P55GF001 | 04MH & 250HPND | PUMP, WATER, SUBMERSIBLE, 4" DIA, 455 GPM MAX FLOW, 59' MAX HEAD (INCLUDES TRAILER MTD POWER UNIT MODEL 250)(ADD HOSES) | 21 | HP | D-off | \$26,876 | 8.73 | 1.53 | 2.64 | 0.21 | 1.93 | 19 |
| | P55GF002 | 06T & 250HPND | PUMP, WATER, SUBMERSIBLE, 6" DIA, 990 GPM MAX FLOW, 72' MAX HEAD (INCLUDES TRAILER MTD HPU MODEL 250HPND)(ADD HOSES) | 21 | HP | D-off | \$29,104 | 9.27 | 1.66 | 2.86 | 0.23 | 1.93 | 31 |
| | | | SUBCATEGORY 0.02 ELECTRIC DRIVE | | | | | | | | | | |
| | | | GORMAN-RUPP COMPANY | | | | | | | | | | |
| | P55GR001 | S2A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 138 GPM @ 20' HEAD (ADD HOSES), 115V 1-PHASE | 2 | HP | E | \$5,012 | 1.22 | 0.31 | 0.53 | 0.04 | 0.17 | 2 |
| | P55GR002 | S3A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 3" DIA, 278 GPM @ 20' HEAD (ADD HOSES), 230V 1-PHASE | 5 | HP | E | \$5,645 | 1.75 | 0.34 | 0.60 | 0.04 | 0.44 | 3 |
| | P55GR003 | S4A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 4" DIA, 860 GPM @ 40' HEAD (ADD HOSES), 460V 3-PHASE | 25 | HP | E | \$14,579 | 6.08 | 0.89 | 1.55 | 0.11 | 2.18 | 7 |
| | P55GR004 | S6A1-E60 460/3 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 6" DIA, 1,950 GPM @ 40' HEAD (ADD HOSES) | 60 | HP | E | \$21,414 | 11.97 | 1.30 | 2.28 | 0.16 | 5.24 | 11 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | WACKER CORPORATION | | | | | | | | | | | |
| | P55WC001 | PS2 500 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 66 GPM @ 39' HEAD (ADD HOSES) | 1 HP | E | \$411 | 0.20 | 0.02 | 0.04 | 0.00 | 0.09 | 1 |
| | P55WC002 | PS2 800 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 82 GPM @ 59' HEAD (ADD HOSES) | 1 HP | E | \$634 | 0.25 | 0.04 | 0.07 | 0.00 | 0.09 | 1 |
| | P60 PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | |
| | SUBCATEGORY 0.11 SKID MOUNTED, ENGINE DRIVE | | | | | | | | | | | |
| | RIVERSIDE PUMP MANUFACTURING | | | | | | | | | | | |
| | P60HO002 | S2B | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 2" DIA, 150 GPM @ 22' HEAD (ADD HOSES) | 4 HP | G | \$1,074 | 0.96 | 0.07 | 0.11 | 0.01 | 0.62 | 1 |
| | P60HO003 | TP3B | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 3" DIA, 293 GPM @ 20' HEAD (ADD HOSES) | 8 HP | G | \$1,992 | 2.07 | 0.12 | 0.20 | 0.02 | 1.41 | 1 |
| | WACKER CORPORATION | | | | | | | | | | | |
| | P60WC001 | PG 2A | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 2" DIA, 159 GPM @ 98' HEAD (ADD HOSES) | 4 HP | G | \$617 | 0.94 | 0.03 | 0.06 | 0.00 | 0.71 | 1 |
| | P60WC002 | PG 3A | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 3" DIA, 264 GPM @ 98' HEAD (ADD HOSES) | 6 HP | G | \$726 | 1.38 | 0.05 | 0.07 | 0.01 | 1.06 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---------------------------------|-----------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| SUBCATEGORY 0.21 WHEEL MOUNTED, ENGINE DRIVE | GRiffin DEWATERING CORP. | | | | | \$37,157 | | | | | | |
| | P60GF003 | 04MHL & 400HPND | PUMP, WATER, SUBMERSIBLE, 4" DIA, 900 GPM MAX FLOW, 112' MAX HEAD (INCLUDES TRAILER MTD HPU MODEL 400HPND)(ADD HOSES) | 72 HP | D-off | | 16.20 | 2.13 | 3.67 | 0.29 | 6.63 | 19 |
| | P60GF008 | 08T & 400HPND | PUMP, WATER, SUBMERSIBLE, 8" DIA, 1490 GPM MAX FLOW, 80' MAX HEAD (INCLUDES TRAILER MTD HPU MODEL 400HPND)(ADD HOSES) | 72 HP | D-off | | 16.66 | 2.25 | 3.87 | 0.31 | 6.63 | 31 |
| | P60GF004 | 06MH & 400HPND | PUMP, WATER, SUBMERSIBLE, 6" DIA, 1500 GPM MAX FLOW, 80' MAX HEAD (INCLUDES TRAILER MTD HPU MODEL 400HPND)(ADD HOSES) | 72 HP | D-off | | 16.52 | 2.21 | 3.81 | 0.30 | 6.63 | 31 |
| | P60GF005 | 06MHL & 600HPND | PUMP, WATER, SUBMERSIBLE, 6" DIA, 1800 GPM MAX FLOW, 119' MAX HEAD (INCLUDES TRAILER MTD HPU MODEL 600HPND)(ADD HOSES) | 113 HP | D-off | | 23.20 | 2.79 | 4.81 | 0.38 | 10.40 | 39 |
| | P60GF006 | 12T & 825HPND | PUMP, WATER, SUBMERSIBLE, 12" DIA, 5000 GPM MAX FLOW, 55' MAX HEAD (INCLUDES TRAILER MTD HPU MODEL 825HPND)(ADD HOSES) | 140 HP | D-off | | 27.61 | 3.18 | 5.47 | 0.44 | 12.88 | 39 |
| | GORMAN-RUPP COMPANY | | | | | | | | | | | |
| | P60GR001 | 14C2-F3L | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 4" DIA, 600 GPM @ 80' HEAD (ADD HOSES) | 47 HP | D-off | | 11.63 | 1.66 | 2.85 | 0.23 | 4.32 | 20 |
| | P60GR002 | 16C2-F4L | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 6" DIA, 1,825 GPM @ 40' HEAD (ADD HOSES) | 73 HP | G | | 22.87 | 2.06 | 3.55 | 0.28 | 12.89 | 26 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------------------------------|---|--------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|---|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| P65 PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | |
| | SUBCATEGORY 0.11 SKID MOUNTED, ENGINE DRIVE | | | | | | | | | | | | |
| | RIVERSIDE PUMP MANUFACTURING | | | | | | | | | | | | |
| | P65HO001 | DP2B | PUMP, WATER, DIAPHRAGM, SKID MTD, 2" DIA, 33 GPM @ 25' HEAD (ADD HOSES) | 4 | HP | G | \$1,803 | 1.12 | 0.10 | 0.18 | 0.01 | 0.62 | 1 |
| | P65HO002 | DP3B | PUMP, WATER, DIAPHRAGM, SKID MTD, 3" DIA, 80 GPM @ 25' HEAD (ADD HOSES) | 4 | HP | G | \$2,135 | 1.20 | 0.13 | 0.21 | 0.02 | 0.62 | 2 |
| | SUBCATEGORY 0.21 WHEEL MOUNTED, ENGINE DRIVE | | | | | | | | | | | | |
| | GORMAN-RUPP COMPANY | | | | | | | | | | | | |
| | P65GR002 | 3D-B | PUMP, WATER, DIAPHRAGM, WHEEL, 3" DIA, 560 GPM @ 25' HEAD (ADD | 2 | HP | G | \$5,201 | 1.44 | 0.25 | 0.42 | 0.04 | 0.26 | 2 |
| | P65GR003 | 4D-B | PUMP, WATER, DIAPHRAGM, WHEEL, 4" DIA, 74 GPM @ 25' HEAD (ADD | 3 | HP | G | \$10,002 | 2.77 | 0.53 | 0.89 | 0.08 | 0.53 | 4 |
| | WACKER CORPORATION | | | | | | | | | | | | |
| | P65WC001 | PDT 2A | PUMP, WATER, DIAPHRAGM, WHEEL, 2" DIA, 50 GPM @ 25' HEAD (ADD | 4 | HP | G | \$2,225 | 1.29 | 0.13 | 0.22 | 0.02 | 0.71 | 1 |
| | P65WC002 | PDT 3A | PUMP, WATER, DIAPHRAGM, WHEEL, 3" DIA, 88 GPM @ 25' HEAD (ADD | 4 | HP | G | \$2,345 | 1.31 | 0.14 | 0.23 | 0.02 | 0.71 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|--|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| P70 | PUMPS, WATER (For core drills) | | | | | | | | | | | |
| | SUBCATEGORY 0.01 | ENGINE DRIVE | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | P70XX001 | 75-7.6 | PUMP, WATER, FOR CORE DRILLS, 7.6 GPM, 75 PSI, MANUAL, SKID (ADD HOSES) | 2 | HP | G | \$4,029 | 1.24 | 0.22 | 0.38 | 0.03 | 0.35 |
| | P70XX002 | 225-17.5 | PUMP, WATER, FOR CORE DRILLS, 17.5 GPM, 225 PSI, MANUAL, SKID (ADD HOSES) | 6 | HP | G | \$10,507 | 3.41 | 0.59 | 0.99 | 0.09 | 1.06 |
| R10 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | | | | | | | | | | | |
| | SUBCATEGORY 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | R10CA006 | D-5C111 | RIPPER, SHANK, EACH (ADD D-5 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | \$349 | 0.07 | 0.02 | 0.03 | 0.00 | 0.00 |
| | R10CA022 | D6RII-174-9198 | RIPPER SHANK, EACH (ADD D6RII TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | \$2,243 | 0.51 | 0.13 | 0.22 | 0.02 | 0.00 |
| | R10CA010 | D-7R | RIPPER, SHANK, EACH (ADD D-7 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | \$2,282 | 0.52 | 0.14 | 0.23 | 0.02 | 0.00 |
| | R10CA013 | D-8R | RIPPER, SHANK, EACH (ADD D-8 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | \$5,879 | 1.34 | 0.35 | 0.59 | 0.05 | 0.00 |
| | R10CA016 | D-9R | RIPPER, SHANK, EACH (ADD D-9 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | \$7,030 | 1.59 | 0.41 | 0.70 | 0.06 | 0.00 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------|---------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R10</i> | | | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | |
| | R10CA019 | D-10R | RIPPER, SHANK, EACH (ADD D-10 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$9,147 | 2.31 | 0.53 | 0.91 | 0.07 | 0.00 | 12 |
| | R10CA001 | D-3 RIPPER | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-3 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$12,452 | 2.91 | 0.73 | 1.25 | 0.10 | 0.00 | 14 |
| | R10CA003 | D-4C RIPPER | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-4 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$12,433 | 2.90 | 0.72 | 1.24 | 0.10 | 0.00 | 14 |
| | R10CA005 | D-5C RIPPER | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-5 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$12,452 | 2.91 | 0.73 | 1.25 | 0.10 | 0.00 | 14 |
| | R10CA007 | D-6RII RIPPER | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-6 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$31,823 | 7.29 | 1.84 | 3.18 | 0.25 | 0.00 | 16 |
| | R10CA009 | D-7R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-7 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$55,707 | 12.71 | 3.23 | 5.57 | 0.44 | 0.00 | 77 |
| | R10CA011 | D-8R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-8 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$68,105 | 15.54 | 3.95 | 6.81 | 0.54 | 0.00 | 91 |
| | R10CA012 | D-8R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-8 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$77,244 | 17.60 | 4.47 | 7.72 | 0.61 | 0.00 | 102 |
| | R10CA014 | D-9R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-9 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$95,871 | 21.89 | 5.56 | 9.59 | 0.76 | 0.00 | 102 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|-------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R10</i> | | | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | |
| | R10CA015 | D-9R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-9 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$91,440 | 20.88 | 5.29 | 9.14 | 0.72 | 0.00 | 91 |
| | R10CA017 | D-10R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-10 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$127,628 | 29.14 | 7.39 | 12.76 | 1.01 | 0.00 | 161 |
| | R10CA018 | D-10R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-10 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$154,261 | 35.19 | 8.94 | 15.43 | 1.22 | 0.00 | 179 |
| | R10CA020 | D-11R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-11 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$151,969 | 34.68 | 8.80 | 15.20 | 1.20 | 0.00 | 72 |
| | R10CA021 | D-11R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-11 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$155,209 | 35.43 | 8.99 | 15.52 | 1.23 | 0.00 | 103 |
| <i>R15</i> | ROLLERS, STATIC, TOWED, PNEUMATIC | | | | | | | | | | | |
| | SUBCATEGORY 0.00 ROLLERS, STATIC, TOWED, PNEUMATIC | | | | | | | | | | | |
| | WRT EQUIPMENT | | | | | | | | | | | |
| | R15WV001 | PT-13 | ROLLER, STATIC, TOWED, PNEUMATIC, 5.9 TON, 10.5' WIDE, 4 TIRE (ADD TOWING UNIT) | | | \$12,360 | 2.07 | 0.53 | 0.85 | 0.10 | 0.00 | 43 |
| | R15WV002 | PT-15 | ROLLER, STATIC, TOWED, PNEUMATIC, 6.7 TON, 10.5' WIDE, 4 TIRE (ADD TOWING UNIT) | | | \$14,033 | 2.34 | 0.60 | 0.98 | 0.11 | 0.00 | 47 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|---|----------|---|---------------------------------|-------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | AVERAGE | STANDBY | DEPR | FCCM | | | |
| R20 ROLLERS, STATIC, TOWED, STEEL DRUM | | | | | | | | | | | | |
| SUBCATEGORY 0.00 ROLLERS, STATIC, TOWED, STEEL DRUM | | | | | | | | | | | | |
| HOLMES | | | | | | | | | | | | |
| R20HJ001 | 60X60 | ROLLER, STATIC, TOWED, 2 STEEL DRUMS, 9-15 TON, 60" WIDE X 60" DIA, SHEEPSFOOT (ADD TOWING UNIT) | | | \$40,840 | 7.41 | 1.96 | 3.27 | 0.32 | 0.00 | 184 | |
| R20HJ002 | 48X48 | ROLLER, STATIC, TOWED, 2 STEEL DRUMS, 3.5-6 TON, 48" WIDE X 48" DIA, SHEEPSFOOT (ADD TOWING UNIT) | | | \$17,156 | 3.25 | 0.82 | 1.37 | 0.13 | 0.00 | 68 | |
| R30 ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | |
| SUBCATEGORY 0.01 PNEUMATIC | | | | | | | | | | | | |
| BOMAG | | | | | | | | | | | | |
| R30B0004 | BW11RH | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 13.50 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 85 HP | D-off | \$83,987 | 25.83 | 4.52 | 7.76 | 0.64 | 6.91 | 100 | |
| R30B0003 | BW24R | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 30.00 TON, 78" WIDE, 8 TIRE, ASPHALT COMPACTOR | 110 HP | D-off | \$157,375 | 43.33 | 9.04 | 15.68 | 1.20 | 8.95 | 290 | |
| CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| R30CA001 | CW14 | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 14.3 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 101 HP | D-off | \$101,420 | 30.41 | 6.10 | 10.64 | 0.78 | 8.17 | 108 | |
| R30CA002 | CW34 | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 17.6 TON, 82" WIDE, 9 TIRE, ASPHALT COMPACTOR | 133 HP | D-off | \$231,511 | 60.56 | 14.00 | 24.46 | 1.77 | 10.82 | 221 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | R30RS003 | TRU-PAC 915 | ROSCO, A LeeBoy COMPANY ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 6-15 TON, 68" WIDE, 9 TIRES, ASPHALT/SOIL COMPACTOR | 85 HP | D-off | \$85,029 | 25.66 | 4.95 | 8.60 | 0.65 | 6.91 | 135 |
| | | | SUBCATEGORY 0.02 SMOOTH DRUM | | | | | | | | | |
| | R30BO005 | BW5AS | BOMAG ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 6 TON, 40" WIDE ASPHALT COMPACTOR | 47 HP | D-off | \$90,771 | 20.54 | 4.54 | 7.72 | 0.68 | 3.82 | 103 |
| | R30BO006 | BW9AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 10 TON, 50" WIDE ASPHALT COMPACTOR | 83 HP | D-off | \$99,619 | 25.38 | 4.99 | 8.47 | 0.75 | 6.75 | 162 |
| | R30BO007 | BW11AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 14 TON, 54" WIDE ASPHALT COMPACTOR | 78 HP | D-off | \$116,286 | 27.90 | 5.81 | 9.88 | 0.87 | 6.34 | 215 |
| | R30RS002 | 400 | ROSCO, A LeeBoy COMPANY ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 2 TON, 40" WIDE, ASPHALT COMPACTOR | 25 HP | D-off | \$48,884 | 11.04 | 2.45 | 4.16 | 0.37 | 2.03 | 59 |
| | R30SI005 | R2H-2 | SAKAI AMERICA, INC. ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, 3 DRUMS, 14 TON, 64" WIDE, ASPHALT COMPACTOR | 75 HP | D-off | \$140,269 | 31.96 | 7.01 | 11.92 | 1.05 | 6.10 | 207 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|---------------------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | R30WG001 | CS1400 | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, 3 DRUMS, 14.5 TON, 83" WIDE, 3X2, ASPHALT COMPACTOR | 74 HP | D-off | \$145,746 | 32.85 | 7.29 | 12.39 | 1.09 | 6.02 | 291 |
| | | SUBCATEGORY 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | | | | | | | | | |
| | R30BO009 | BC672RB | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, SHEEPSFOOT, 4X4, 35 TON, 63" DIA, 19.58' WIDTH PER 2-PASS, W/BLADE | 442 HP | D-off | \$592,082 | 126.77 | 24.27 | 39.47 | 4.53 | 35.94 | 710 |
| | R30BO008 | BC772RB | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, SHEEPSFOOT, 4X4, 40 TON, 63" DIA, 19.58' WIDTH PER 2-PASS, W/BLADE | 442 HP | D-off | \$602,219 | 128.26 | 24.68 | 40.15 | 4.60 | 35.94 | 812 |
| | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | R30CA003 | 815-F II | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, SHEEPSFOOT, 4X4, 23 TON, 56" DIA, 14.25' WIDTH PER 2-PASS, W/BLADE | 240 HP | D-off | \$534,712 | 100.20 | 21.92 | 35.65 | 4.09 | 19.52 | 449 |
| | R30CA012 | 816-F | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, TAMPING FOOT, CHOPPER, 4X4, 25.0 TON, 14.75' WIDTH PER 2-PASS, W/BLADE | 220 HP | D-off | \$532,803 | 98.11 | 21.83 | 35.52 | 4.07 | 17.89 | 509 |
| | R30CA006 | 825-G II | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, SHEEPSFOOT, 4X4, 35 TON, 51" DIA, 16.00' WIDTH PER 2-PASS, W/BLADE | 315 HP | D-off | \$775,625 | 142.37 | 31.79 | 51.71 | 5.93 | 25.62 | 734 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|----------|-----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| R30 | | | CATERPILLAR INC. (MACHINE DIVISION) <i>(continued)</i> | | | \$809,196 | 150.80 | 33.16 | 53.95 | 6.18 | 28.79 | 815 |
| R30CA013 | 826-H | | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, TAMPING FOOT, CHOPPER, 4X4, 36.5 TON, 15.66' WIDTH PER 2-PASS, W/BLADE | 354 HP D-off | | | | | | | | |
| R40 ROLLERS, VIBRATORY, TOWED | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 ROLLERS, VIBRATORY, TOWED | | | | | | | | | |
| | | | BOMAG | | | | | | | | | |
| | R40BO001 | BW6 | ROLLER, VIBRATORY, TOWED, SINGLE DRUM, SMOOTH, 13,000 LB OPER. WT., 26,550 LB (13.3 TONS) CENTRIFUGAL FORCE, 67" WIDE (ADD 180 HP TOWING UNIT) | 50 HP D-off | | \$73,115 | 21.11 | 4.24 | 7.31 | 0.58 | 4.60 | 128 |
| | R40BO002 | BW6S | ROLLER, VIBRATORY, TOWED, SINGLE DRUM, SHEEPSFOOT, 15,000 LB OPER. WT., 26,550 LB (13.3 TONS) CENTRIFUGAL FORCE, 67" WIDE (ADD 180 HP TOWING UNIT) | 50 HP D-off | | \$79,247 | 22.44 | 4.59 | 7.92 | 0.63 | 4.60 | 148 |
| R45 ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | | | | | | | | | |
| | | | BOMAG | | | | | | | | | |
| | R45BO004 | BW120AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.9 TON, 47.2" WIDE, 2X1, ASPHALT COMPACTOR | 33 HP D-off | | \$43,910 | 14.79 | 2.55 | 4.39 | 0.35 | 3.04 | 57 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| R45 | BOMAG (continued) | | | | | | | | | | | |
| | R45BO005 | BW138AD | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 4.6 TON, 54.3" WIDE, 2X1, ASPHALT COMPACTOR | 46 HP | D-off | \$64,591 | 21.49 | 3.74 | 6.46 | 0.51 | 4.23 | 92 |
| | R45BO006 | BW151AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 7.8 TON, 66.1" WIDE, 2X1, ASPHALT COMPACTOR | 108 HP | D-off | \$129,996 | 44.88 | 7.53 | 13.00 | 1.03 | 9.94 | 158 |
| | R45BO007 | BW161AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 10.4 TON, 66.1" WIDE, 2X1, ASPHALT COMPACTOR | 131 HP | D-off | \$148,789 | 52.12 | 8.61 | 14.88 | 1.17 | 12.05 | 209 |
| | R45BO008 | BW190AD-4 HF | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 12.6 TON, 79.0" WIDE, 2X1, ASPHALT COMPACTOR | 205 HP | D-off | \$165,690 | 64.24 | 9.60 | 16.57 | 1.31 | 18.86 | 252 |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | R45CA016 | CB22B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.5 TON, 39" WIDE, 2X1, ASPHALT COMPACTOR | 36 HP | D-off | \$46,089 | 15.66 | 2.67 | 4.61 | 0.36 | 3.31 | 56 |
| | R45CA002 | CB14B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 1.75 TON, 43" WIDE, 2X1, ASPHALT COMPACTOR | 23 HP | D-off | \$36,615 | 11.81 | 2.12 | 3.66 | 0.29 | 2.07 | 307 |
| | R45CA003 | CB32B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 3.3 TON, 51" WIDE, 2X1, ASPHALT COMPACTOR | 36 HP | D-off | \$51,815 | 17.17 | 3.00 | 5.18 | 0.41 | 3.33 | 58 |
| | R45CA004 | CB34B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 4.3 TON, 51" WIDE, 2X1, ASPHALT COMPACTOR | 49 HP | D-off | \$63,644 | 21.53 | 3.68 | 6.36 | 0.50 | 4.49 | 77 |
| | R45CA006 | CB36B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 4.9 TON, 51" WIDE, 2X1, ASPHALT COMPACTOR | 49 HP | D-off | \$74,054 | 24.23 | 4.29 | 7.41 | 0.58 | 4.49 | 93 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R45</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | R45CA007 | CB44B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 10 TON, 59" WIDE, 2X1, ASPHALT COMPACTOR | 110 HP | D-off | \$123,751 | 43.47 | 7.17 | 12.38 | 0.98 | 10.12 | 183 |
| | R45CA008 | CB54B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 13.3 TON, 67" WIDE, 2X1, ASPHALT COMPACTOR | 132 HP | D-off | \$155,477 | 53.97 | 9.01 | 15.55 | 1.23 | 12.15 | 215 |
| | R45CA009 | CB64B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 15.2 TON, 79" WIDE, 2X1, ASPHALT COMPACTOR | 142 HP | D-off | \$172,747 | 59.46 | 10.00 | 17.27 | 1.36 | 13.07 | 225 |
| | R45CA010 | CB66B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 16.3 TON, 84" WIDE, 2X1, ASPHALT COMPACTOR | 144 HP | D-off | \$212,103 | 69.82 | 12.28 | 21.21 | 1.67 | 13.25 | 247 |
| | R45CA014 | CD44B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 10.4 TON, 59" WIDE, 2X1, ASPHALT COMPACTOR | 100 HP | D-off | \$112,719 | 39.56 | 6.53 | 11.27 | 0.89 | 9.20 | 185 |
| | R45CA015 | CD54B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 12.6 TON, 74" WIDE, 2X1, ASPHALT COMPACTOR | 100 HP | D-off | \$191,032 | 59.77 | 11.06 | 19.10 | 1.51 | 9.20 | 223 |
| | R45CA005 | CB-434D | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 6.6 TON, 56" WIDE, 2X1, ASPHALT COMPACTOR | 83 HP | D-off | \$133,370 | 43.12 | 7.72 | 13.34 | 1.05 | 7.64 | 167 |
| | R45CA011 | CB-24 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.7 TON, 47" WIDE, 2X1, ASPHALT COMPACTOR | 33 HP | D-off | \$43,435 | 14.66 | 2.51 | 4.34 | 0.34 | 3.04 | 60 |
| | R45CA012 | CB-54 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 12.0 TON, 67" WIDE, 2X1, ASPHALT COMPACTOR | 137 HP | D-off | \$152,892 | 53.82 | 8.86 | 15.29 | 1.21 | 12.61 | 238 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| R45 | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | 137 HP D-off | | \$202,339 | 66.58 | 11.72 | 20.23 | 1.60 | 12.61 | 286 |
| | R45CA013 | CB-64 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 15.5 TON, 84" WIDE, 2X1, ASPHALT COMPACTOR | | | | | | | | | |
| | SAKAI AMERICA, INC. | | | 35 HP D-off | | \$43,713 | 14.95 | 2.54 | 4.37 | 0.35 | 3.22 | 28 |
| | R45SI008 | SW320-1 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 3.0 TON, 47" WIDE, 2X1, ASPHALT COMPACTOR | | | | | | | | | |
| | R45SI009 | SW652 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 7.8 TON, 58" WIDE, 2X1, ASPHALT COMPACTOR | 78 HP D-off | | \$119,062 | 38.90 | 6.90 | 11.91 | 0.94 | 7.18 | 157 |
| | R45SI010 | SW850-3 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 14.0 TON, 79" WIDE, 2X1, ASPHALT COMPACTOR | | | | | | | | | |
| | ATLAS COPCO WAGNER | | | 127 HP D-off | | \$159,588 | 54.50 | 9.24 | 15.96 | 1.26 | 11.69 | 124 |
| | R45WG001 | CC1200 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 3.0 TON, 47" WIDE, 2X1, ASPHALT COMPACTOR | | | | | | | | | |
| | R45WG002 | CC2200 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 9.9 TON, 59" WIDE, 2X1, ASPHALT COMPACTOR | 35 HP D-off | | \$47,471 | 15.92 | 2.75 | 4.75 | 0.37 | 3.22 | 60 |
| | R45WG003 | CC5200 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 14.0 TON, 77" WIDE, 2X1, ASPHALT COMPACTOR | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|--|-------------|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| R50 ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | | | | | | | | | | | | | | |
| SUBCATEGORY 0.00 ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | | | | | | | | | | | | | | |
| BOMAG | | | | | | | | | | | | | | |
| R50B0005 | BW124DH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 2.9 TON, 47.2" WIDE, 3X2, SOIL COMPACTOR | 50 HP | D-off | | \$63,214 | 18.94 | 3.40 | 5.78 | 0.51 | 3.32 | 70 | | |
| R50B0010 | BW124PDH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 2.9 TON, 47.2" WIDE, 3X2, SOIL COMPACTOR | 50 HP | D-off | | \$65,100 | 19.38 | 3.51 | 5.95 | 0.53 | 3.32 | 60 | | |
| R50B0006 | BW145D-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 5.5 TON, 56.1" WIDE, 3X2, SOIL COMPACTOR | 75 HP | D-off | | \$92,848 | 27.90 | 5.04 | 8.56 | 0.76 | 4.98 | 110 | | |
| R50B0011 | BW145PDH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 5.8 TON, 56.1" WIDE, 3X2, SOIL COMPACTOR | 75 HP | D-off | | \$97,947 | 29.12 | 5.32 | 9.04 | 0.80 | 4.98 | 118 | | |
| R50B0007 | BW177D-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.9 TON, 66.4" WIDE, 3X2, SOIL COMPACTOR | 75 HP | D-off | | \$108,194 | 31.64 | 5.82 | 9.87 | 0.88 | 4.98 | 159 | | |
| R50B0012 | BW177PDH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 8.3 TON, 66.4" WIDE, 3X2, SOIL COMPACTOR | 101 HP | D-off | | \$127,188 | 38.13 | 6.87 | 11.65 | 1.04 | 6.70 | 166 | | |
| R50B0008 | BW213DH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.5 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 155 HP | D-off | | \$184,650 | 55.85 | 10.07 | 17.13 | 1.50 | 10.28 | 269 | | |
| R50B0013 | BW213PDH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 14.1 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 131 HP | D-off | | \$193,936 | 56.25 | 10.58 | 18.00 | 1.58 | 8.69 | 283 | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|-----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R50</i> | <i>BOMAG (continued)</i> | | | 195 HP D-off | | \$169,160 | 55.19 | 9.22 | 15.67 | 1.38 | 12.94 | 412 |
| | R50BO009 | BW219DH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 20.6 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | 74 HP D-off | | \$120,358 | 34.29 | 6.62 | 11.28 | 0.98 | 4.91 | 109 |
| | R50CA003 | CP34 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 5.5 TON, 50" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50CA004 | CP44 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 7.6 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | \$165,750 | 47.21 | 9.02 | 15.33 | 1.35 | 6.63 | 153 |
| | R50CA009 | CP68B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 16.2 TON, 84" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50CA010 | CP74B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 18 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 174 HP D-off | | \$258,614 | 75.19 | 13.91 | 23.59 | 2.11 | 11.52 | 355 |
| | R50CA012 | CS34 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 5 TON, 50" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50CA017 | CS54B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 12 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 131 HP D-off | | \$171,203 | 51.07 | 9.12 | 15.46 | 1.39 | 8.69 | 239 |
| | R50CA018 | CS78B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 20.6 TON, 84" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50CA001 | CS-323C | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.6 TON, 50" WIDE, 3X2, SOIL COMPACTOR | 70 HP D-off | | \$97,686 | 28.67 | 5.32 | 9.03 | 0.80 | 4.64 | 97 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R50</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | R50CA005 | CS-433E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.1 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | \$137,480 | 40.49 | 7.44 | 12.64 | 1.12 | 6.63 | 147 |
| | R50CA011 | Cs68B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SHEEPSFOOT, 16.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 157 HP | D-off | \$205,037 | 61.11 | 10.99 | 18.63 | 1.67 | 10.42 | 324 |
| | R50CA002 | CP-323C (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 4.6 TON, 50" WIDE, 3X2, SOIL COMPACTOR | 70 HP | D-off | \$108,130 | 31.16 | 5.89 | 10.01 | 0.88 | 4.64 | 105 |
| | R50CA006 | CS-423E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.4 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 83 HP | D-off | \$112,021 | 33.14 | 6.04 | 10.26 | 0.91 | 5.51 | 137 |
| | R50CA007 | CS-64 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 15.7 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 156 HP | D-off | \$180,040 | 55.23 | 9.50 | 16.06 | 1.47 | 10.35 | 254 |
| | R50CA008 | CS-74 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 17.0 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 156 HP | D-off | \$210,156 | 62.40 | 11.15 | 18.88 | 1.71 | 10.35 | 340 |
| | R50CA013 | CS44 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.9 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | \$149,774 | 43.43 | 8.12 | 13.80 | 1.22 | 6.63 | 152 |
| | R50CA014 | CP44 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 7.9 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | \$165,750 | 47.23 | 9.00 | 15.29 | 1.35 | 6.63 | 153 |
| | R50CA015 | CS56B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 12.2 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 157 HP | D-off | \$200,162 | 59.96 | 10.72 | 18.18 | 1.63 | 10.42 | 254 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R50</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | 157 HP D-off | | \$197,996 | 59.43 | 10.60 | 17.97 | 1.61 | 10.42 | 253 |
| | R50CA016 | CP56B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 12.2 TON, 84" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | SAKAI AMERICA, INC. | | | 60 HP D-off | | \$90,214 | 26.43 | 4.65 | 7.83 | 0.73 | 3.98 | 41 |
| | R50SI006 | SV201D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.8 TON, 54" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50SI007 | SV201T (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.9 TON, 54" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | \$96,613 | 27.97 | 5.01 | 8.43 | 0.79 | 3.98 | 43 |
| | R50SI022 | SV400D-2 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.7 TON, 67" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50SI023 | SV400TB-2 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 9.6 TON, 67" WIDE, 3X2, SOIL COMPACTOR | 148 HP D-off | | \$137,994 | 40.62 | 7.46 | 12.67 | 1.12 | 6.63 | 72 |
| | R50SI013 | SV510D-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |
| | R50SI016 | SV510T-3 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.9 TON, 60" WIDE, 3X2, SOIL COMPACTOR | 148 HP D-off | | \$159,102 | 49.53 | 8.43 | 14.26 | 1.30 | 9.82 | 110 |
| | R50SI017 | SV510TF-3 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 14.3 TON, 85" WIDE, 3X2, SOIL COMPACTOR | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------|----------------|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| ATLAS COPCO WAGNER | | | | | | | | | | | | |
| R50WG001 | CA2500PD (4.5) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PADFOOT, 12.1 TON, 83" WIDE, 3X2, SOIL COMPACTOR | 132 HP | D-off | | \$150,161 | 46.19 | 7.94 | 13.43 | 1.22 | 8.76 | 243 |
| R50WG002 | CA4000D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 14.4 TON, 83" WIDE, 3X2, SOIL COMPACTOR | 160 HP | D-off | | \$164,979 | 51.83 | 8.75 | 14.82 | 1.34 | 10.61 | 289 |
| R50WG003 | CC1100C | ROLLER, VIBRATORY, SELF-PROPELLED, PNEUMATIC/SINGLE DRUM, SMOOTH, 2.7 TON, 42" WIDE, 5X4, ASPHALT COMPACTOR | 35 HP | D-off | | \$51,924 | 15.14 | 2.76 | 4.68 | 0.42 | 2.32 | 54 |
| R50WG004 | CC1300C | ROLLER, VIBRATORY, SELF-PROPELLED, PNEUMATIC/SINGLE DRUM, SMOOTH, 4.3 TON, 51" WIDE, 5X4, ASPHALT COMPACTOR | 45 HP | D-off | | \$66,499 | 19.38 | 3.56 | 6.04 | 0.54 | 2.99 | 86 |
| R50WG005 | CC2200C | ROLLER, VIBRATORY, SELF-PROPELLED, PNEUMATIC/SINGLE DRUM, SMOOTH, 9.1 TON, 59" WIDE, 5X4, ASPHALT COMPACTOR | 100 HP | D-off | | \$158,210 | 45.40 | 8.61 | 14.64 | 1.29 | 6.63 | 181 |
| R50WG006 | CA1300D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 5 TON, 53" WIDE, 3X2, SOIL COMPACTOR | 75 HP | D-off | | \$82,329 | 26.14 | 4.38 | 7.41 | 0.67 | 4.98 | 100 |
| R50WG007 | CA1300PD | ROLLER, VIBRATORY, SELF-PROPELLED, PADFOOT DRUM, 5 TON, 53" WIDE, 3X2, SOIL COMPACTOR | 75 HP | D-off | | \$88,093 | 28.04 | 4.57 | 7.70 | 0.72 | 4.98 | 105 |
| R50WG008 | CA1500D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.5 TON, 65" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | | \$107,925 | 33.44 | 5.82 | 9.87 | 0.88 | 6.63 | 150 |
| R50WG009 | CA1500PD | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PADFOOT DRUM, 7.5 TON, 65" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | | \$116,321 | 35.45 | 6.28 | 10.66 | 0.95 | 6.63 | 150 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------------------------|------------------------------------|--------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | Main | Carrier | | Average | Standby | Depr | FCCM | Fuel | |
| R50 | | | ATLAS COPCO WAGNER (continued) | | | \$128,238 | 39.03 | 6.94 | 11.79 | 1.04 | 7.30 | 220 |
| | R50WG010 | CA2500D (3.3) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.0 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 110 HP | D-off | | | | | | | |
| R55 ROOFING EQUIPMENT | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 ROOFING EQUIPMENT | | | | | | | | | | | |
| | GARLOCK EQUIPMENT CO. | | | | | | | | | | | |
| | R55GL026 | GS-36 | ROOFING EQUIPMENT, POWER SWEEPER, 36" WIDE, WALK BEHIND | 6 HP | G | \$4,245 | 2.01 | 0.33 | 0.60 | 0.03 | 0.71 | 3 |
| | R55GL027 | RAM 150 | ROOFING EQUIPMENT, ASPHALT KETTLE, 150 GAL, TRAILER MTD | 6 HP | D-off | \$31,939 | 10.20 | 2.50 | 4.49 | 0.25 | 0.37 | 10 |
| | R55GL028 | RAM 230 | ROOFING EQUIPMENT, ASPHALT KETTLE, 230 GAL, W/PUMP, TRAILER MTD | 5 HP | G | \$36,094 | 11.67 | 2.83 | 5.08 | 0.29 | 0.59 | 17 |
| | R55GL029 | RAM 410 | ROOFING EQUIPMENT, ASPHALT KETTLE, 410 GAL, W/PUMP, TRAILER MTD | 9 HP | G | \$42,172 | 14.20 | 3.30 | 5.94 | 0.33 | 1.06 | 25 |
| | R55GL020 | MUSTANG WORKHORSE | ROOFING EQUIPMENT, MATERIAL BUGGY, 36" WIDE, WALK BEHIND GRAVEL SPREADER, HOPPER 800 LBS, 8 CF, 4X2 | 5 HP | G | \$5,444 | 2.24 | 0.43 | 0.77 | 0.04 | 0.59 | 4 |
| | R55GL021 | Ultracutter 300645 | ROOFING EQUIPMENT, 1-BLADE CUTTER, 3.75" DEEP, WALK BEHIND 11 HP (ADD BLADE COST) | 9 HP | G | \$3,185 | 2.10 | 0.26 | 0.45 | 0.03 | 1.06 | 2 |
| | R55GL022 | GENESIS 1012 | ROOFING EQUIPMENT, KETTLE, 1,012 GAL, W/PUMP, TRAILER MTD | 8 HP | G | \$32,234 | 17.30 | 2.45 | 4.39 | 0.25 | 0.94 | 54 |
| | R55GL023 | ROOF WARRIOR | ROOFING EQUIPMENT, ROOF PEELER, 16" WIDE, WALK BEHIND, POWERED WHEEL 2X2, STD W/ 18" FLAT BLADE | 8 HP | G | \$9,169 | 3.72 | 0.72 | 1.30 | 0.07 | 0.94 | 6 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R55</i> | <i>GARLOCK EQUIPMENT CO. (continued)</i> | | | | | | | | | | | |
| | R55GL024 | NO. 78 | 1-ply graveler | 6 HP | G | \$6,409 | 2.59 | 0.51 | 0.91 | 0.05 | 0.65 | 4 |
| | R55GL025 | Garlock 3610 | ROOFING EQUIPMENT, POWER BROOM W/ STEEL BRUSH, 36" WIDE | 7 HP | G | \$4,578 | 2.19 | 0.37 | 0.65 | 0.04 | 0.77 | 4 |
| | R55GL017 | SUPER MINI SAW | ROOFING EQUIPMENT, 1-BLADE CUTTER, 18" HEIGHT & 2" WALL CLEARANCE | 5 HP | G | \$2,725 | 1.45 | 0.22 | 0.39 | 0.02 | 0.59 | 2 |
| | R55GL016 | DUST MASTER ULTRA CU | ROOFING EQUIPMENT, 1-BLADE CUTTER, W/WATER DAMPENING SYSTEM AND H.E.P.A. VACUUM SYSTEM | 9 HP | G | \$6,206 | 2.98 | 0.49 | 0.88 | 0.05 | 1.06 | 3 |
| | R55GL011 | ENFORCER TWIN CUTTER | ROOFING EQUIPMENT, 2-BLADE CUTTER, 25" WIDE, SELF PROPELLED (ADD BLADE COST) | 16 HP | G | \$9,185 | 4.76 | 0.72 | 1.30 | 0.07 | 1.88 | 4 |
| | R55GL018 | NO.12 | ROOFING EQUIPMENT, SCRATCHER, 4.5" WIDE | 5 HP | G | \$3,194 | 1.59 | 0.26 | 0.45 | 0.03 | 0.59 | 1 |
| | R55GL019 | NO. 30 | ROOFING EQUIPMENT, SCRATCHER, 13" WIDE | 8 HP | G | \$6,072 | 2.82 | 0.48 | 0.86 | 0.05 | 0.94 | 3 |
| | R55GL009 | ROTARY PLANER | ROOFING EQUIPMENT, ROTARY PLANER, 12" WIDE | 11 HP | G | \$3,835 | 2.49 | 0.30 | 0.54 | 0.03 | 1.24 | 2 |
| | R55GL015 | MODEL 1000 | ROOFING EQUIPMENT, HYDRAULIC HOIST, W/175' CABLE, 1,000 LB CAP | 9 HP | G | \$14,755 | 5.48 | 1.17 | 2.09 | 0.12 | 1.06 | 8 |
| | R55GL007 | SUPER MAX HYDR HOIST | ROOFING EQUIPMENT, HYDRAULIC SWING HOIST, W/225' CABLE, 1,400 LB CAP | 18 HP | G | \$17,445 | 7.44 | 1.38 | 2.47 | 0.14 | 2.12 | 10 |
| | R55GL013 | MODEL 30 | ROOFING EQUIPMENT, KETTLE, 30 GAL, WHEEL MTD | | | \$2,118 | 0.74 | 0.10 | 0.15 | 0.02 | 0.00 | 3 |
| | R55GL014 | MODEL 90 | ROOFING EQUIPMENT, KETTLE, 90 GAL, SKID MTD | | | \$4,720 | 1.73 | 0.38 | 0.67 | 0.04 | 0.00 | 7 |
| | R55GL001 | MODEL 115 | ROOFING EQUIPMENT, KETTLE, 115 GAL, TRAILER MTD | | | \$5,536 | 2.09 | 0.42 | 0.76 | 0.04 | 0.00 | 8 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----------------------------------|--|-------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>R55</i> | <i>GARLOCK EQUIPMENT CO. (continued)</i> | | | | | | | | | | | |
| | R55GL002 | MODEL 175 | ROOFING EQUIPMENT, KETTLE, 175 GAL, W/PUMP, TRAILER MTD | 5 HP | G | \$7,661 | 3.35 | 0.58 | 1.04 | 0.06 | 0.59 | 17 |
| | R55GL012 | MODEL 300 | ROOFING EQUIPMENT, KETTLE, 300 GAL, W/PUMP, TRAILER MTD | 9 HP | G | \$14,354 | 6.08 | 1.11 | 1.99 | 0.11 | 1.06 | 23 |
| | R55GL003 | GENESIS 412 | ROOFING EQUIPMENT, KETTLE, 412 GAL, W/PUMP, TRAILER MTD | 9 HP | G | \$20,329 | 7.82 | 1.58 | 2.83 | 0.16 | 1.06 | 30 |
| | R55GL004 | GENESIS 612 | ROOFING EQUIPMENT, KETTLE, 612 GAL, W/PUMP, TRAILER MTD | 9 HP | G | \$24,753 | 9.37 | 1.94 | 3.47 | 0.20 | 1.06 | 40 |
| S10 SCRAPERS, ELEVATING | | | | | | | | | | | | |
| | SUBCATEGORY 0.02 OVER 200 HP | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | S10CA003 | 623-K | SCRAPER, ELEVATING LOADING, 23 CY, 25 TON, 10.3' CUT WIDTH, 4X2 - SINGLE POWERED | 407 HP | D-off | \$859,551 | 170.00 | 29.88 | 46.23 | 6.76 | 27.00 | 810 |
| S15 SCRAPERS, CONVENTIONAL | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 SCRAPERS, CONVENTIONAL | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | S15CA001 | 621-K | SCRAPER, CONVENTIONAL, STANDARD LOADING, 21 CY, 24 TON, 9.1' CUT WIDTH, 4X2 - SINGLE POWERED | 407 HP | D-off | \$764,880 | 135.69 | 24.71 | 37.88 | 5.77 | 25.26 | 714 |
| | S15CA002 | 631-G | SCRAPER, CONVENTIONAL, STANDARD LOADING, 34 CY, 37.5 TON, 11.5' CUT WIDTH, 4X2 - SINGLE POWERED | 450 HP | D-off | \$1,043,405 | 169.76 | 34.44 | 53.11 | 7.88 | 27.93 | 1,020 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-------------------------------------|---|------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | S15JU001 | 4206DTIS28 | ATI-BELL SCRAPER, CONVENTIONAL, STANDARD LOADING, 28 CY, 32 TON, 14' CUT WIDTH, 4X4 - SINGLE POWERED, TRACTOR EQUIPPED WITH ATI RUBBER TRACKS | 422 HP | D-off | \$608,934 | 102.21 | 20.84 | 32.48 | 4.60 | 26.19 | 940 |
| | S15JU002 | 4206DTIS33 | SCRAPER, CONVENTIONAL, STANDARD LOADING, 33 CY, 37 TON, 14' CUT WIDTH, 4X4 - SINGLE POWERED, TRACTOR EQUIPPED WITH ATI RUBBER TRACKS | 422 HP | D-off | \$637,712 | 105.61 | 21.82 | 34.01 | 4.81 | 26.19 | 953 |
| S20 SCRAPERS, TANDEM POWERED | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 SCRAPERS, TANDEM POWERED | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | S20CA001 | 627-K | SCRAPER, TANDEM POWERED, STANDARD LOADING, 21 CY, 24 TON, 9.1' CUT WIDTH, 4X4, D-9 ASSISTED LOADING | 407 HP | D-off | 290 HP D-off | \$764,768 | 163.85 | 24.71 | 37.88 | 5.77 | 44.75 |
| | S20CA002 | 627-HQ | SCRAPER, TANDEM POWERED, STANDARD LOADING, 20 CY, 24 TON, 9.1' CUT WIDTH, 4X4, PUSH-PULL | 407 HP | D-off | 290 HP D-off | \$892,249 | 179.46 | 29.07 | 44.68 | 6.73 | 44.75 |
| | S20CA003 | 637-G | SCRAPER, TANDEM POWERED, STANDARD LOADING, 34 CY, 37.5 TON, 11.5' CUT WIDTH, 4X4, D-10 ASSISTED LOADING | 450 HP | D-off | 250 HP D-off | \$1,334,875 | 231.30 | 44.41 | 68.66 | 10.08 | 44.94 |
| | S20CA004 | 637-G PP | SCRAPER, TANDEM POWERED, STANDARD LOADING, 34 CY, 37.5 TON, 11.5' CUT WIDTH, 4X4, PUSH-PULL | 450 HP | D-off | 250 HP D-off | \$1,390,248 | 238.08 | 46.30 | 71.61 | 10.49 | 44.94 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|------------|---|---------------------------------|--------------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S20 | | | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | |
| | S20CA005 | 657-G | SCRAPER, TANDEM POWERED, STANDARD LOADING, 44 CY, 52 TON, 12.6' CUT WIDTH, 4X4, D-11 ASSISTED LOADING | 550 HP D-off | 400 HP D-off | \$1,710,673 | 305.52 | 56.52 | 87.22 | 12.91 | 60.99 | 1,516 |
| | S20CA006 | 657-G PP | SCRAPER, TANDEM POWERED, STANDARD LOADING, 44 CY, 52 TON, 12.6' CUT WIDTH, 4X4, PUSH-PULL | 550 HP D-off | 400 HP D-off | \$1,814,875 | 318.29 | 60.09 | 92.78 | 13.70 | 60.99 | 1,550 |
| S25 | SCRAPERS, TRACTOR DRAWN | | | | | | | | | | | |
| | SUBCATEGORY 0.00 SCRAPERS, TRACTOR DRAWN | | | | | | | | | | | |
| | JOHN DEERE | | | | | | | | | | | |
| | S25JD001 | 1510C | SCRAPER, TOWED, STANDARD LOADING, 11 CY, 17 TON, 10' CUT WIDTH (ADD 460 HP TRACTOR) | | | \$67,113 | 11.65 | 2.51 | 4.00 | 0.51 | 0.00 | 168 |
| | S25JD002 | 1814C | SCRAPER, TOWED, STANDARD LOADING, 14 CY, 23 TON, 14' CUT WIDTH (ADD 460HP TRACTOR) | | | \$86,749 | 14.35 | 3.32 | 5.31 | 0.66 | 0.00 | 213 |
| | REYNOLDS INTERNATIONAL, L.P. | | | | | | | | | | | |
| | S25RI001 | 14CS10 | SCRAPER, TOWED, PIVOT DUMP, 10.7-14 CY, 15 TON, 10' CUT WIDTH (ADD 250 - 300 HP TRACTOR) | | | \$57,177 | 10.29 | 2.11 | 3.34 | 0.44 | 0.00 | 136 |
| | S25RI002 | 17C12 (RG) | SCRAPER, TOWED, PIVOT DUMP, 13-17 CY, 17 TON, 12' CUT WIDTH (ADD 350 - 400 HP TRACTOR) | | | \$64,856 | 11.75 | 2.32 | 3.64 | 0.50 | 0.00 | 170 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|-----------------------------------|---------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|------|------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | ROME PLOW CO. | | | | | | | | | | | |
| | S25RM003 | R56H | SCRAPER, TOWED, 9-12 CY, 12.5 TON, 8.5' CUT WIDTH (ADD 104-200 HP TRACTOR) | | | \$109,604 | 18.75 | 3.97 | 6.25 | 0.84 | 0.00 | 203 |
| | S25RM001 | R67H | SCRAPER, TOWED, 12-17 CY, 17 TON, 9.9' CUT WIDTH (ADD 150-240 HP TRACTOR) | | | \$138,211 | 22.69 | 5.14 | 8.16 | 1.06 | 0.00 | 238 |
| | S25RM002 | R89H | SCRAPER, TOWED, 18-26 CY, 25 TON, 10.8' CUT WIDTH (ADD 310-410 HP TRACTOR) | | | \$187,077 | 32.61 | 6.49 | 10.12 | 1.43 | 0.00 | 372 |
| | S25RM004 | R89HD | SCRAPER, TOWED, 18-26 CY, 25 TON, 10.8' CUT WIDTH (ADD 310-410 HP TRACTOR) | | | \$191,846 | 33.26 | 6.69 | 10.43 | 1.47 | 0.00 | 419 |
| S30 SCREENING & CRUSHING PLANTS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 CONVEYORS | | | | | | | | | | | |
| | KOLBERG - PIONEER, INC | | | | | | | | | | | |
| | S30KB034 | 12-3050 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 30" WIDE X 50' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 500 TPH | 15 | HP | E | | | \$65,642 | 12.65 | 3.18 | 5.42 |
| | S30KB036 | 12-3650 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 36" WIDE X 50' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 750 TPH | 20 | HP | E | | | \$70,369 | 13.93 | 3.41 | 5.80 |
| | S30KB007 | 31-2480 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 80' LONG, WHEEL MTD, 750 TPH | 10 | HP | E | | | \$49,727 | 9.44 | 2.43 | 4.14 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>S30</i> | <i>KOLBERG - PIONEER, INC (continued)</i> | | | 15 HP E | | \$61,121 | 11.88 | 3.01 | 5.13 | 0.44 | 0.95 | 27 |
| | S30KB008 | 31-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 100' LONG, PORTABLE, 250 TPH | | | | | | | | | |
| | S30KB009 | 31-24125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 125' LONG, PORTABLE, 250 TPH | | | | | | | | | |
| | S30KB012 | 31-30125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 125' LONG, PORTABLE, 500 TPH | | | | | | | | | |
| | S30KB013 | 31-3680 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 80' LONG, PORTABLE, 750 TPH | | | | | | | | | |
| | S30KB014 | 31-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 100' LONG, PORTABLE, 750 TPH | | | | | | | | | |
| | S30KB015 | 31-36125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 125' LONG, PORTABLE, 750 TPH | | | | | | | | | |
| | S30KB018 | 35-24150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 24" WIDE X 150' LONG, PORTABLE, 750 TPH | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S30 | <i>KOLBERG - PIONEER, INC (continued)</i> | | | 40 HP E | | \$144,771 | 28.59 | 7.26 | 12.41 | 1.05 | 2.52 | 56 |
| | S30KB021 | 35-30150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 30" WIDE X 150' LONG, PORTABLE, 1,500 TPH | | | | 36.10 | 10.31 | 17.70 | 1.46 | 0.95 | |
| | S30KB044 | 1936-4 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 40' LONG CONVEYOR, PORTABLE, 2,000 TPH | 15 HP E | | \$201,930 | 38.21 | 8.95 | 15.27 | 1.31 | 4.73 | 125 |
| | KPI-JCI | | | 75 HP E | | \$181,066 | 25.44 | 6.35 | 10.87 | 0.91 | 2.52 | 65 |
| | S30KJ060 | 13-42150 | SCREENING & CRUSHING PLANTS, CONVEYOR, 42" WIDE, 125' LONG CONVEYOR WITH 36" DEEP LATTICE FRAME, SINGLE AXLE, TELESCOPING UNDERCARRIAGE FOR RAISE & LOWER, CAPABLE OF RADIAL TRAVEL, HEAD AND TAIL FOLD FOR TRAVEL, UP TO 1000 TONS PER HOUR | | | | | | | | | |
| | S30KJ062 | 13-4280 | SCREENING & CRUSHING PLANTS, CONVEYOR, 42" WIDE, 80' LONG CONVEYOR WITH 36" DEEP LATTICE FRAME, SINGLE AXLE, TELESCOPING UNDERCARRIAGE FOR RAIS AND LOWER, CAPABLE OF RADIAL TRAVEL, HEAD AND TAIL FOLD FOR TRAVEL, 1000 TONS PER HOUR | 40 HP E | | \$126,469 | 28.59 | 7.26 | 12.41 | 1.05 | 2.52 | 56 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>S30</i> | <i>KPI-JCI (continued)</i> | | | | | | | | | | | |
| | S30KJ063 | 13-42100 | SCREENING & CRUSHING PLANTS, CONVEYOR, 42" WIDE, 100' LONG CONVEYOR WITH 34" DEEP LATTICE FRAME, SINGLE AXLE, TELESCOPING UNDERCARRIAGE FOR RAISE AND LOWER, CAPABLE OF RADIAL TRAVEL, HEAD AND TAIL FOLD FOR TRAVEL, 1000 TONS PER HOUR | 58 HP | E | \$157,126 | 32.37 | 7.96 | 13.63 | 1.14 | 3.63 | 82 |
| | S30KJ064 | 13-42125 | SCREENING & CRUSHING PLANTS, CONVEYOR, 42" WIDE, 125' LONG CONVEYOR WITH 36" DEEP LATTICE FRAME, SINGLE AXLE, TELESCOPING UNDERCARRIAGE FOR RAISE AND LOWER, CAPABLE OF RADIAL TRAVEL, HEAD AND TAIL FOLD FOR TRAVEL, 1000 TONS PER HOUR | 60 HP | E | \$179,942 | 36.60 | 8.89 | 15.17 | 1.30 | 3.78 | 103 |
| | S30KJ065 | 13-30150 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 150' LONG, PORTABLE, 500 TPH | 58 HP | E | \$182,058 | 36.74 | 8.95 | 15.25 | 1.32 | 3.63 | 82 |
| | S30KJ066 | 13-36125 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 125' LONG, PORTABLE, 750 TPH | 68 HP | E | \$161,013 | 34.05 | 7.84 | 13.36 | 1.16 | 4.26 | 93 |
| | S30KJ067 | 13-36150 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 150' LONG, PORTABLE, 750 TPH | 83 HP | E | \$186,696 | 39.88 | 9.19 | 15.67 | 1.35 | 5.20 | 110 |
| | S30KJ070 | 13-24125 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 125' LONG, PORTABLE, 250 TPH | 23 HP | E | \$98,324 | 18.97 | 4.89 | 8.36 | 0.71 | 1.42 | 57 |
| | S30KJ071 | 13-24150 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 150' LONG, PORTABLE, 250 TPH | 23 HP | E | \$165,687 | 30.51 | 8.31 | 14.21 | 1.20 | 1.42 | 65 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S30 | <i>KPI-JCI (continued)</i> | | | | | | | | | | | |
| | S30KJ072 | 13-30125 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 125' LONG, PORTABLE, 500 TPH | 33 HP | E | \$140,050 | 27.16 | 6.81 | 11.60 | 1.01 | 2.05 | 71 |
| | S30KJ081 | 11-2450 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 24" WIDE X 50' LONG, WHEEL MTD, 250 TPH | 10 HP | E | \$44,736 | 8.60 | 2.16 | 3.68 | 0.32 | 0.63 | 78 |
| | S30KJ082 | 11-2470 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 24" WIDE X 70' LONG, WHEEL MTD, 250 TPH | 10 HP | E | \$60,895 | 11.35 | 2.92 | 4.96 | 0.44 | 0.63 | 115 |
| | S30KJ083 | 11-3050 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 30" WIDE X 50' LONG, WHEEL MTD, 500 TPH | 15 HP | E | \$46,621 | 9.38 | 2.20 | 3.71 | 0.34 | 0.95 | 97 |
| | S30KJ084 | 11-3070 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 30" WIDE X 70' LONG, WHEEL MTD, 1,000 TPH | 20 HP | E | \$62,988 | 12.65 | 3.00 | 5.08 | 0.46 | 1.26 | 124 |
| | S30KJ085 | 11-3650 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 36" WIDE X 50' LONG, WHEEL MTD, 750 TPH | 20 HP | E | \$48,943 | 10.24 | 2.29 | 3.87 | 0.35 | 1.26 | 101 |
| | S30KJ086 | 11-3670 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 36" WIDE X 70' LONG, WHEEL MTD, 750 TPH | 25 HP | E | \$66,226 | 13.69 | 3.13 | 5.30 | 0.48 | 1.58 | 137 |
| | S30KJ087 | 11-4250 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 42" WIDE X 50' LONG, WHEEL MTD, 1,000 TPH | 30 HP | E | \$58,387 | 12.80 | 2.76 | 4.67 | 0.42 | 1.89 | 116 |
| | S30KJ088 | 11-4270 | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 42" WIDE X 70' LONG, WHEEL MTD, 1,000 TPH | 40 HP | E | \$97,812 | 20.51 | 4.75 | 8.07 | 0.71 | 2.52 | 161 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------|------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S30 | <i>KPI-JCI (continued)</i> | | | | | | | | | | | |
| | S30KJ035 | 12-3070 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 30" WIDE X 70' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 500 TPH | 20 HP | E | \$101,831 | 19.33 | 5.03 | 8.57 | 0.74 | 1.26 | 18 |
| | S30KJ041 | 12-3670 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 36" WIDE X 70' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 750 TPH | 20 HP | E | \$120,237 | 22.50 | 5.95 | 10.16 | 0.87 | 1.26 | 19 |
| | S30KJ002 | 13-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 100' LONG, PORTABLE, 250 TPH | 15 HP | E | \$97,976 | 18.21 | 4.90 | 8.38 | 0.71 | 0.95 | 18 |
| | S30KJ004 | 13-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 100' LONG, PORTABLE, 500 TPH | 15 HP | E | \$113,141 | 20.83 | 5.67 | 9.70 | 0.82 | 0.95 | 64 |
| | S30KJ006 | 13-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 100' LONG, PORTABLE, 750 TPH | 30 HP | E | \$113,952 | 22.36 | 5.68 | 9.72 | 0.82 | 1.89 | 38 |
| | S30KJ010 | 31-3080 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 80' LONG, PORTABLE, 500 TPH | 20 HP | E | \$84,704 | 16.39 | 4.19 | 7.16 | 0.61 | 1.26 | 32 |
| | S30KJ011 | 31-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 100' LONG, PORTABLE, 550 TPH | 25 HP | E | \$95,066 | 18.65 | 4.71 | 8.04 | 0.69 | 1.58 | 39 |
| | S30KJ042 | 1430-60-20 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 30" WIDE X 60' LONG CONVEYOR, PORTABLE, 1,500 TPH | 30 HP | E | \$211,123 | 39.08 | 10.81 | 18.56 | 1.53 | 1.89 | 18 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------|-----------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S30 | <i>KPI-JCI (continued)</i> | | | | | | | | | | | |
| | S30KJ054 | 1936-2 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 30" WIDE X 40' LONG CONVEYOR, PORTABLE, 1,500 TPH | 15 HP | E | \$137,578 | 25.02 | 6.97 | 11.95 | 0.99 | 0.95 | 18 |
| | S30KJ053 | 1436-60-20 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 60' LONG CONVEYOR, PORTABLE, 2,000 TPH | 40 HP | E | \$118,479 | 24.09 | 5.96 | 10.19 | 0.86 | 2.52 | 20 |
| | S30KJ043 | 1936-3 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 40' LONG CONVEYOR, PORTABLE, 2,000 TPH | 15 HP | E | \$191,320 | 34.26 | 9.75 | 16.74 | 1.38 | 0.95 | 20 |
| | PUTZMEISTER INC. | | | | | | | | | | | |
| | S30PU004 | TELEBELT TB 130 | SCREENING & CRUSHING PLANTS, CONVEYOR, 18" WIDE X 126' LONG, 3 CY HOPPER & TREMIE, 4X8, TRUCK MTD, 360 CY/HR | 400 HP | D-off | \$895,866 | 184.04 | 46.47 | 79.99 | 6.47 | 26.54 | 763 |
| | S30PU002 | TELEBELT TB 80 | SCREENING & CRUSHING PLANTS, CONVEYOR, 18" WIDE X 80' LONG, 3 CY HOPPER & TREMIE, 4X6, TRUCK MTD, 360 CY/HR | 400 HP | D-off | \$606,961 | 134.36 | 31.44 | 54.09 | 4.39 | 26.54 | 520 |
| | S30PU003 | TELEBELT TB 110 | SCREENING & CRUSHING PLANTS, CONVEYOR, 18" WIDE X 106' LONG, 3 CY HOPPER & TREMIE, 4X8, TRUCK MTD, 360 CY/HR | 400 HP | D-off | \$763,245 | 161.29 | 39.55 | 68.05 | 5.52 | 26.54 | 615 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|---|---------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.20 CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | | | | | | | | | | | |
| | | | KPI-JCI | | | | | | | | | |
| | S30KJ045 | CS-4250 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 42" X 52", 500 TPH, W/18" X 42" VIBRATORY FEEDER/ ADJUSTABLE GRIZZLY/ & BYPASS FEED/ TRAILER MTD | 360 HP | D-off | \$570,942 | 76.10 | 14.04 | 20.30 | 3.89 | 23.88 | 548 |
| | | | TELSMITH INC. | | | | | | | | | |
| | S30TS009 | 4246 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 46" X 59", 600 TPH | 300 HP | E | \$364,186 | 62.38 | 9.04 | 13.11 | 2.48 | 18.92 | 595 |
| | S30TS010 | 4856 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 56" X 85", 1,100 TPH | 400 HP | E | \$531,737 | 87.12 | 13.20 | 19.14 | 3.63 | 25.22 | 942 |
| | S30TS011 | 6071 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 71" X 100", 2,100 TPH | 800 HP | E | \$805,904 | 152.19 | 20.01 | 29.01 | 5.50 | 50.44 | 1,950 |
| | SUBCATEGORY 0.21 CRUSHERS - CONE | | | | | | | | | | | |
| | | | KOLBERG - PIONEER, INC | | | | | | | | | |
| | S30KB046 | 1200 LS | SCREENING & CRUSHING PLANTS, CRUSHERS - CONE, SECONDARY, 120 TPH @ 3/8" -> 250 TPH @ 1", 42" X 50" IMPACT CRUSHER, W/HOPPER/ & 36" X 32' END DELIVERY CONVEYOR, TRAILER MTD (ADD 210KW GENERATOR) | 272 HP | E | \$468,497 | 70.24 | 11.47 | 16.53 | 3.20 | 17.15 | 810 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------------|--|---------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| KPI-JCI | S30KJ068 | K200PM | SCREENING & CRUSHING PLANTS, CONE CRUSHER, 385 TPH, HOPPER FEED, 42" WIDE DISCHARGE CONVEYOR, TRAILER MTD (ADD 210KW GENERATOR) | 215 HP | E | \$499,626 | 67.69 | 12.27 | 17.72 | 3.41 | 13.56 | 340 |
| | S30KJ069 | K300PM | SCREENING & CRUSHING PLANTS, CONE CRUSHER, 460 TPH, HOPPER FEED, 42" WIDE DISCHARGE CONVEYOR, TRAILER MTD (ADD 210KW GENERATOR) | 315 HP | E | | 88.60 | 15.23 | 21.99 | 4.23 | 19.86 | 825 |
| | SUBCATEGORY 0.22 CRUSHERS - JAW | | | | | | | | | | | |
| | S30KJ056 | CS2650 | SCREENING & CRUSHING PLANTS, JAW CRUSHER, TRIPLE AXLE CHASSIS, 2650 VANGUARD JAW CRUSHER, 50" WIDE X 20' LONG VIBRATING GRIZZLY FEEDER WITH BYPASS CHUTE, ELECTRIC MOTOR WITH V-BELT DRIVE, 165 TONS PER HOUR (ADD 150 KW GENERATOR) | 175 HP | D-off | \$593,561 | 55.66 | 14.57 | 21.04 | 4.05 | 11.61 | 590 |
| | S30KJ059 | DUPLEX III PORTABLE | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 20" X 36", 270 TPH @ 1/4" -> 320 TPH @ 7", W/36" X 14' RECIPROCATING PLATE FEEDER/ 12' LONG ADJUSTABLE GRIZZLY & BYPASS/ HOPPER/ & 18" X 15' SCREEN CONVEYOR, TRAILER MTD (ADD 300KW GENERATOR) | 300 HP | E | | 122.28 | 32.48 | 46.97 | 8.99 | 18.92 | 5 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|---|----------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|--|--|--|--|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| S30 | <i>KPI-JCI (continued)</i> | | | 212 HP D-off | | \$589,146 | 57.92 | 14.51 | 20.97 | 4.02 | 14.06 | 701 | | | | | | | | | |
| | S30KJ057 | CS2742 | SCREENING & CRUSHING PLANTS, JAW CRUSHER, TRIPLE AXLE CHASSIS, 2742 VANGUARD JAW CRUSHER, 42" WIDE END DELIVERY CONVEYOR, 42" WIDE X 18' LONG VIBRATING GRIZZLY FEEDER WITH BYPASS CHUTE, ELECTRIC MOTOR WITH V-BELT DRIVE, 165 TONS PER HOUR (ADD 150 KW GENER | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.30 SCREENING PLANT | | | 10 HP E | | \$434,257 | 80.01 | 22.18 | 38.08 | 3.14 | 0.63 | 527 | | | | | | | | | |
| | KPI-JCI | | | | | | | | | | | | | | | | | | | | |
| | S30KJ061 | 7110-40P | SCREENING & CRUSHING PLANTS, 10' WIDE X 40' LONG CLASSIFYING TANK WITH FEED BOX, OVERFLOW COLLECTING FLUME AND ADJUSTABLE OVERFLOW WEIR BOARDS, WALKWAY, COLLECTING FLUME WITH DISCHARGE BOX, WINDOWS BASED CONTROL SYSTEM | | | | | | | | | | | | | | | | | | |
| | S30KJ048 | 616 E-3 | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 6' X 16', VIBRATORY SLOPE TRIPLE DECK SCREENS, W/HOPPER/ 36" X 28.5' FEEDER CONVEYOR/ 48" X27' UNDER SCREEN CONVEYOR/ & 24" X 20' SIDE DELIVERY CONVEYOR, TRAILER MTD | | | | | | | | | | | | | | | | | | |
| | S30KJ049 | 620 E-3 | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 6' X 20' VIBRATORY SLOPE TRIPLE DECK SCREENS, W/HOPPER/ 42" X 34' FEEDER CONVEYOR/ 60" X 25' UNDER SCREEN CONVEYOR/ & 30" X 15' SIDE DELIVERY CONVEYOR, TRAILER MTD | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------------------------|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S30 | <i>KPI-JCI (continued)</i> | | | | | | | | | | | |
| | S30KJ050 | 1822P | SCREENING & CRUSHING PLANTS, WASHING/SCREENING PLANT, 6' X 16' TRIPLE DECK INCLINE SCREEN WITH SPRAY BARS, CHUTEWORK AND FINES COLLECTION, 5036-25 TWIN SAND PREP, TANDEM AXLE PORTABLE CHASSIS | 40 HP | E | \$430,088 | 82.21 | 22.25 | 38.28 | 3.11 | 2.52 | 530 |
| | S30KJ051 | 1830P | SCREENING & CRUSHING PLANTS, WASHING/SCREENING PLANT, 6' X 20' TRIPLE DECK INCLINE SCREEN WITH SPRAY BARS, CHUTEWORK AND FINES COLLECTION, 5044-32 TWIN SAND PREP, TRIPLE AXLE PORTABLE CHASSIS | 40 HP | E | \$531,342 | 100.63 | 27.43 | 47.18 | 3.84 | 2.52 | 752 |
| | S30KJ052 | 7208-32 S/P | SCREENING & CRUSHING PLANTS, CLASSIFYING PLANT, 8'W X 32'L TANK WITH FEED BOX, OVERFLOW COLLECTING FLUME AND ADJUSTABLE OVERFLOW WEIR BOARDS, WALKWAY, COLLECTING FLUME WITH DISCHARGE BOX, SPEC-SELECT WBSM CONTROL AND MONITORING SYSTEM | 3 HP | E | \$492,143 | 90.21 | 25.71 | 44.29 | 3.56 | 0.19 | 423 |
| | METSO MINERALS | | | | | | | | | | | |
| | S30RA003 | CV 100 | SCREENING & CRUSHING PLANTS, GRIZZLY-SINGLE SCREEN, 200 CY/HR, TRAILER MTD | 44 HP | D-off | \$149,382 | 30.52 | 7.73 | 13.29 | 1.08 | 2.92 | 244 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----------------------------------|--|---|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S35 SNOW REMOVAL EQUIPMENT | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 SNOW REMOVAL EQUIPMENT | | | | | | | | | | | |
| | AMERICAN ROAD MACHINERY, INC. | | | | | | | | | | | |
| S35AR001 | 112 | SNOW REMOVAL EQUIPMENT, SNOW PLOW, REVERSIBLE (ADD DUMP TRUCK) | | | | \$5,837 | 1.25 | 0.34 | 0.58 | 0.05 | 0.00 | 15 |
| S35AR002 | 713 | SNOW REMOVAL EQUIPMENT, SNOW PLOW, 1-WAY TRIP (ADD DUMP TRUCK) | | | | \$8,292 | 1.79 | 0.49 | 0.83 | 0.07 | 0.00 | 20 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| S35XX001 | EX1270 | SNOW REMOVAL EQUIPMENT, HIGHWAY/MUNICIPAL SNOW PLOW, 10' CUTTING WIDTH, 6' DISCHARGE HEIGHT, REVERSIBLE (ADD 45K GVW TRUCK) | | | | \$11,964 | 2.57 | 0.69 | 1.20 | 0.09 | 0.00 | 24 |
| S35XX002 | MP BLOWER | SNOW REMOVAL EQUIPMENT, LOADER MOUNTED SNOW BLOWER, 114" CUTTING WIDTH, 1800 TPH (ADD 3-3.5 CY FRONT END WHEEL LOADER) | 300 HP | D-off | | \$152,236 | 55.03 | 8.81 | 15.22 | 1.20 | 19.90 | 100 |
| S35XX003 | TOMCAT | SNOW REMOVAL EQUIPMENT, RUNWAY SNOW PLOW, 24' WIDE, 20' CUTTING WIDTH, 6' DISCHARGE HEIGHT, REVERSIBLE (ADD 55K GVW TRUCK) | | | | \$97,848 | 21.01 | 5.66 | 9.78 | 0.77 | 0.00 | 90 |
| S35XX004 | TU3 BLOWER | SNOW REMOVAL EQUIPMENT, TRUCK MOUNTED SNOW BLOWER, 102" CUTTING WIDTH, 2500 TPH (ADD 45K GVW TRUCK) | 425 HP | D-off | | \$267,748 | 89.14 | 15.50 | 26.77 | 2.11 | 28.19 | 140 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|-----------------------|---|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S40 SOIL & ROAD STABILIZERS | | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 SOIL & ROAD STABILIZERS | | | | | | | | | |
| | | | BOMAG | | | | | | | | | |
| S40BO002 | MPH-362 R RECYCLER | SOIL & ROAD STABILIZER, 12" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP D-off | | | \$426,117 | 107.12 | 19.93 | 33.26 | 3.30 | 26.19 | 390 |
| S40BO003 | MPH-362 S | SOIL & ROAD STABILIZER, 14" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP D-off | | | \$401,980 | 102.77 | 18.78 | 31.33 | 3.11 | 26.19 | 390 |
| S40BO004 | MPH-362 SDM | SOIL & ROAD STABILIZER, 21" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP D-off | | | \$408,962 | 104.03 | 19.11 | 31.89 | 3.16 | 26.19 | 390 |
| | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | |
| S40CA003 | RM-300 | SOIL & ROAD STABILIZER, 18" DEEP X 96" WIDE, HYDROSTATIC ROAD RECLAIMER/ SOIL STABILIZER, 4X4 | 350 HP D-off | | | \$399,185 | 101.71 | 18.35 | 30.51 | 3.09 | 25.47 | 518 |
| S40CA004 | RM-500 | SOIL & ROAD STABILIZER, 16" DEEP X 96" WIDE, HYDROSTATIC ROAD RECLAIMER/ SOIL STABILIZER, 4X4 | 540 HP D-off | | | \$643,168 | 162.75 | 29.75 | 49.54 | 4.98 | 39.29 | 599 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|--|--------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| S45 SPLITTERS, ROCK & CONCRETE | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 SPLITTERS, ROCK & CONCRETE | | | | | | | | | | | |
| | ELCO INTERNATIONAL INC. | | | | | | | | | | | |
| | S45DA004 | 02-2 | SPLITTER, ROCK & CONCRETE, 220 TON SFORCE, 1.75" DIA, SIZE 2, 5 GAL, 12" DEEP HOLE REQ'D (ADD 80 CFM COMPRESSOR) | 80 | CFM | A | \$17,003 | 5.69 | 1.28 | 2.27 | 0.14 | 0.00 |
| | S45DA005 | 02-9 | SPLITTER, ROCK & CONCRETE, 220 TON SFORCE, 1.75" DIA, SIZE 9, 5 GAL, 18" DEEP HOLE REQ'D (ADD 80 CFM COMPRESSOR) | 80 | CFM | A | \$18,461 | 6.15 | 1.38 | 2.46 | 0.15 | 0.00 |
| | S45DA007 | 02-12 | SPLITTER, ROCK & CONCRETE, 385 TON SFORCE, 1.75" DIA, SIZE 12, 5 GAL, 26" DEEP HOLE REQ'D (ADD 80 CFM COMPRESSOR) | 80 | CFM | A | \$20,466 | 6.80 | 1.54 | 2.73 | 0.17 | 0.00 |
| T10 TRACTOR BLADES & ATTACHMENTS (including agricultural) | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 TRACTOR BLADES & ATTACHMENTS (including agricultural) | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | T10CA001 | D3 ACCUGRADE BLADE | TRACTOR ATTACHMENTS, BLADE, LGP, ACCUGRADE, HYDRAULIC, 2.17 CY (ADD D3 TRACTOR) | | | | \$9,647 | 1.74 | 0.46 | 0.77 | 0.07 | 0.00 |
| | T10CA002 | D3-PA 30B | TRACTOR ATTACHMENTS, POWER WINCH, W/250' CABLE, FOR D3 (ADD D3 TRACTOR) | | | | \$20,002 | 3.52 | 0.95 | 1.60 | 0.15 | 0.00 |
| | | | | | | | | | | | | 15 |
| | | | | | | | | | | | | 21 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------|--------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T10</i> | | | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | |
| | T10CA004 | D4 ACCUGRADE BLADE | TRACTOR ATTACHMENTS, BLADE, LGP, ACCUGRADE, HYDRAULIC, 2.42 CY (ADD D4 TRACTOR) | | | \$10,257 | 1.85 | 0.49 | 0.82 | 0.08 | 0.00 | 16 |
| | T10CA005 | D4-PA 30B | TRACTOR ATTACHMENTS, POWER WINCH, W/250' CABLE, FOR D4 (ADD D4 TRACTOR) | | | \$20,002 | 3.52 | 0.95 | 1.60 | 0.15 | 0.00 | 21 |
| | T10CA007 | D5 ACCUGRADE BLADE | TRACTOR ATTACHMENTS, BLADE, ACCUGRADE, HYDRAULIC, 3.06 CY (ADD D5 TRACTOR) | | | \$10,596 | 1.91 | 0.51 | 0.85 | 0.08 | 0.00 | 18 |
| | T10CA008 | D5-PA 50 | TRACTOR ATTACHMENTS, POWER WINCH, FOR D5 (ADD D5 TRACTOR) | | | \$30,413 | 5.32 | 1.46 | 2.43 | 0.24 | 0.00 | 26 |
| | T10CA009 | D6 SU BLADE XL | TRACTOR ATTACHMENTS, BLADE, SEMI-UNIVERSAL, HYDRAULIC, 6.94 CY (ADD D6 TRACTOR) | | | \$30,992 | 5.42 | 1.48 | 2.48 | 0.24 | 0.00 | 57 |
| | T10CA010 | D6 VPAT BLADE | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, 6.55 CY (ADD D6 TRACTOR) | | | \$43,462 | 7.57 | 2.08 | 3.48 | 0.34 | 0.00 | 82 |
| | T10CA011 | D6-PA56 WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D6 (ADD D6 TRACTOR) | | | \$51,184 | 8.90 | 2.45 | 4.09 | 0.40 | 0.00 | 27 |
| | T10CA012 | D7 STRAIGHT BLADE | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D7, 6.75 CY (ADD D7 TRACTOR) | | | \$58,849 | 10.22 | 2.82 | 4.71 | 0.46 | 0.00 | 77 |
| | T10CA013 | D7 UNIVERSAL BLADE | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D7, 10.09 CY (ADD D7 TRACTOR) | | | \$59,123 | 10.27 | 2.83 | 4.73 | 0.46 | 0.00 | 86 |
| | T10CA014 | D7 ANGLE BLADE | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D7, 5.08 CY (ADD D7 TRACTOR) | | | \$49,241 | 8.56 | 2.35 | 3.94 | 0.38 | 0.00 | 78 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T10</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | T10CA015 | D7 PA90 POWER WINCH | TRACTOR ATTACHMENTS, POWER WINCH, VARIABLE SPEED (ADD D7 TRACTOR) | | | \$57,700 | 10.05 | 2.76 | 4.62 | 0.45 | 0.00 | 5 |
| | T10CA016 | D8-SU | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D8, 6.09 CY (ADD D8 TRACTOR) | | | \$62,717 | 10.93 | 3.00 | 5.02 | 0.49 | 0.00 | 107 |
| | T10CA017 | D8-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D8, 15.30 CY (ADD D8 TRACTOR) | | | \$68,320 | 11.90 | 3.27 | 5.47 | 0.53 | 0.00 | 124 |
| | T10CA018 | D8-A | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D8, 6.09 CY (ADD D8 TRACTOR) | | | \$74,245 | 12.91 | 3.54 | 5.94 | 0.57 | 0.00 | 123 |
| | T10CA019 | D8 SU PP | TRACTOR ATTACHMENTS, BLADE, PUSH PLATE, FOR D8 (ADD D8 TRACTOR) | | | \$63,529 | 10.99 | 3.03 | 5.08 | 0.49 | 0.00 | 5 |
| | T10CA020 | D8, PA140VS WINCH | TRACTOR ATTACHMENTS, POWER WINCH, (ADD D8 TRACTOR) | | | \$76,473 | 13.32 | 3.65 | 6.12 | 0.59 | 0.00 | 5 |
| | T10CA021 | D9-SU | TRACTOR ATTACHMENTS, BLADE, SEMI-U, HYDRAULIC, FOR D9, 17.70 CY (ADD D9 TRACTOR) | | | \$109,990 | 19.13 | 5.25 | 8.80 | 0.85 | 0.00 | 143 |
| | T10CA022 | D9-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D9, 21.40 CY (ADD D9 TRACTOR) | | | \$113,709 | 19.78 | 5.43 | 9.10 | 0.88 | 0.00 | 137 |
| | T10CA023 | D9, PA140VS WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D9 (ADD D9 TRACTOR) | | | \$108,198 | 18.84 | 5.17 | 8.66 | 0.84 | 0.00 | 6 |
| | T10CA024 | D10-SU ABRASION | TRACTOR ATTACHMENTS, BLADE, SEMI-U, HYDRAULIC, FOR D10, 24.20 CY (ADD D10 TRACTOR) | | | \$67,720 | 11.94 | 3.23 | 5.42 | 0.52 | 0.00 | 357 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|----------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T10 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | T10CA025 | D10-U ABRASION | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D10, 28.70 CY (ADD D10 TRACTOR) | | | \$81,688 | 14.36 | 3.90 | 6.54 | 0.63 | 0.00 | 251 |
| | T10CA026 | D11-SU | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D11, 35.50 CY (ADD D11 TRACTOR) | | | \$127,847 | 22.42 | 6.11 | 10.23 | 0.99 | 0.00 | 367 |
| | T10CA027 | D11-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D11, 45.00 CY (ADD D11 TRACTOR) | | | \$169,002 | 29.53 | 8.07 | 13.52 | 1.31 | 0.00 | 423 |
| | | | JOHN DEERE | | | | | | | | | |
| | T10JD001 | 915 V-RIPPER | TRACTOR ATTACHMENTS, DEEP TILLER, 5x7 V SHAPED, 175" WIDE, 7 SHANKS (ADD 200HP TRACTOR W/PTO) | | | \$14,081 | 2.68 | 0.64 | 1.06 | 0.11 | 0.00 | 17 |
| T15 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | |
| | SUBCATEGORY 0.01 0 THRU 225 HP | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | T15CA002 | D-3K LGP | TRACTOR, CRAWLER (DOZER), 70 HP, LOW GROUND PRESSURE, W/2.0 CY SEMI-U BLADE (ADD ATTACHMENTS) | 70 HP | D-off | | | | | | | |
| | T15CA020 | D-4K XL | TRACTOR, CRAWLER (DOZER), 80 HP, POWERSHIFT, W/2.18 CY SEMI-U BLADE (ADD ATTACHMENTS) | 80 HP | D-off | | | | | | | |
| | T15CA005 | D-4K LGP | TRACTOR, CRAWLER (DOZER), 80 HP, LOW GROUND PRESSURE, W/2.39 CY SEMI-U BLADE (ADD ATTACHMENTS) | 80 HP | D-off | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T15</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | T15CA021 | D-5G X | TRACTOR, CRAWLER (DOZER), 90 HP, POWERSHIFT, W/2.85 CY POWER ANGLE BLADE (ADD ATTACHMENTS) | 90 HP | D-off | \$145,877 | 35.94 | 6.32 | 10.21 | 1.21 | 6.55 | 195 |
| | T15CA022 | D-5K LGP | TRACTOR, CRAWLER (DOZER), 90 HP, LOW GROUND PRESSURE, W/3.04 CY POWER ANGLE BLADE (ADD ATTACHMENTS) | 90 HP | D-off | \$153,481 | 37.41 | 6.64 | 10.74 | 1.27 | 6.55 | 203 |
| | T15CA024 | D-5K XL | TRACTOR, CRAWLER (DOZER), 110 HP, POWERSHIFT, W/3.37 CY SEMI-U BLADE (ADD ATTACHMENTS) | 110 HP | D-off | \$148,048 | 38.03 | 6.40 | 10.36 | 1.22 | 8.00 | 277 |
| | T15CA008 | D-6N PS XL FTC | TRACTOR, CRAWLER (DOZER), 145 HP, POWERSHIFT, W/5.60 CY SEMI-U BLADE (ADD ATTACHMENTS) | 145 HP | D-off | \$289,829 | 68.54 | 12.54 | 20.29 | 2.39 | 10.55 | 321 |
| | T15CA023 | D-6T | TRACTOR, CRAWLER (DOZER), 165 HP, LOW GROUND PRESSURE, POWERSHIFT, W/5.09 CY SEMI-U BLADE (ADD ATTACHMENTS) | 165 HP | D-off | \$394,818 | 90.64 | 17.08 | 27.64 | 3.26 | 12.01 | 519 |
| | T15CA009 | D-6T WHA | TRACTOR, CRAWLER (DOZER), 165 HP, W/14.3 CY BLADE, TRASH/WASTE HANDLING ARRANGEMENT | 165 HP | D-off | \$438,945 | 99.22 | 19.00 | 30.73 | 3.63 | 12.01 | 519 |
| | T15CA011 | D-6T LGP | TRACTOR, CRAWLER (DOZER), 165 HP, LOW GROUND PRESSURE, W/5.09 CY SEMI-U BLADE (ADD ATTACHMENTS) | 185 HP | D-off | \$429,091 | 98.99 | 18.57 | 30.04 | 3.55 | 13.46 | 461 |
| | CASE CORPORATION | | | | | | | | | | | |
| | T15CS008 | 1150M | TRACTOR, CRAWLER (DOZER), 138 HP, 3.75 CY UNIVERSAL BLADE, REAR RIPPER | 138 HP | D-off | \$264,318 | 62.99 | 11.43 | 18.50 | 2.18 | 10.04 | 311 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | JOHN DEERE | | | | | | | | | |
| | T15JD005 | 450J LT | TRACTOR, CRAWLER (DOZER), 70 HP, HYDROSTATIC, W/2.00 CY ANGLE BLADE (ADD ATTACHMENTS) | 70 HP | D-off | \$106,630 | 26.61 | 4.61 | 7.46 | 0.88 | 5.09 | 155 |
| | T15JD006 | 450J LGP | TRACTOR, CRAWLER (DOZER), 70 HP, HYDROSTATIC, LOW GROUND PRESSURE, W/2.15 CY ANGLE BLADE (ADD ATTACHMENTS) | 70 HP | D-off | \$108,864 | 27.05 | 4.71 | 7.62 | 0.90 | 5.09 | 165 |
| | T15JD007 | 650K | TRACTOR, CRAWLER (DOZER), 101 HP, HYDROSTATIC, W/2.60 CY POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 101 HP | D-off | \$166,377 | 40.85 | 7.20 | 11.65 | 1.37 | 7.35 | 185 |
| | T15JD008 | 750K XLT | TRACTOR, CRAWLER (DOZER), 155 HP, HYDROSTATIC, W/5.60 CY POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 155 HP | D-off | \$268,708 | 65.29 | 11.63 | 18.81 | 2.22 | 11.28 | 317 |
| | T15JD009 | 750K LGP | TRACTOR, CRAWLER (DOZER), 165 HP, HYDROSTATIC, LOW GROUND PRESSURE, W/4.84 CY POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 165 HP | D-off | \$279,920 | 68.30 | 12.11 | 19.59 | 2.31 | 12.01 | 365 |
| | T15JD010 | 850K XLT | TRACTOR, CRAWLER (DOZER), 187 HP, HYDROSTATIC, W/7.44 CY SEMI-U POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 187 HP | D-off | \$379,270 | 89.46 | 16.41 | 26.55 | 3.13 | 13.61 | 404 |
| | T15JD011 | 850K LGP | TRACTOR, CRAWLER (DOZER), 205 HP, HYDROSTATIC LOW GROUND PRESSURE, W/7.14 CY SEMI-U POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 205 HP | D-off | \$404,593 | 95.90 | 17.50 | 28.32 | 3.34 | 14.92 | 420 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|-----|--|----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| | SUBCATEGORY 0.02 226 HP THRU 425 HP | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | T15CA012 | D-7R SERIES II | TRACTOR, CRAWLER (DOZER), 240 HP, POWERSHIFT, W/8.98 CY SEMI-U BLADE (ADD ATTACHMENTS) | 240 HP | D-off | | \$403,065 | 87.81 | 15.27 | 24.18 | 3.18 | 17.46 | 563 |
| | T15CA014 | D-7R II LGP | TRACTOR, CRAWLER (DOZER), 240 HP, LOW GROUND PRESSURE, W/7.70 CY STRAIGHT BLADE (ADD ATTACHMENTS) | 240 HP | D-off | | \$456,057 | 96.79 | 17.28 | 27.36 | 3.60 | 17.46 | 530 |
| | T15CA016 | D-8T | TRACTOR, CRAWLER (DOZER), 310 HP, POWERSHIFT, W/15.3 CY SEMI-U BLADE (ADD ATTACHMENTS) | 310 HP | D-off | | \$686,813 | 141.58 | 26.03 | 41.21 | 5.42 | 22.56 | 898 |
| | T15CA017 | D-9T | TRACTOR, CRAWLER (DOZER), 410 HP, POWERSHIFT, W/17.7 CY SEMI-U BLADE (ADD ATTACHMENTS) | 410 HP | D-off | | \$797,600 | 168.49 | 30.23 | 47.86 | 6.30 | 29.83 | 1,033 |
| | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | | |
| | T15KM008 | D155AX-8 | TRACTOR, CRAWLER (DOZER), 354 HP, POWERSHIFT, W/15.6 CY FULL-U BLADE | 354 HP | D-off | | \$614,352 | 132.90 | 23.28 | 36.86 | 4.85 | 25.76 | 893 |
| | SUBCATEGORY 0.03 OVER 425 HP | | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | | |
| | T15CA018 | D-10TQ | TRACTOR, CRAWLER (DOZER), 580 HP, POWERSHIFT, W/28.7 CY SEMI-U BLADE (ADD ATTACHMENTS) | 580 HP | D-off | \$1,325,712 | 231.13 | 45.36 | 70.70 | 10.01 | 35.99 | 1,421 | |
| | T15CA019 | D-11TQ | TRACTOR, CRAWLER (DOZER), 850 HP, POWERSHIFT, W/44.0 CY SEMI-U BLADE (ADD ATTACHMENTS) | 850 HP | D-off | \$2,152,810 | 369.25 | 73.66 | 114.82 | 16.25 | 52.75 | 2,029 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T20 TRACTORS, WHEEL TYPE (DOZER) | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 TRACTORS, WHEEL TYPE (DOZER) | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | T20CA001 | 814-FS | TRACTOR, WHEEL (DOZER), 240 HP, ARTICULATING, 4X4, W/3.77 CY STRAIGHT BLADE | 240 HP | D-off | \$549,782 | 85.48 | 20.10 | 32.18 | 4.01 | 14.89 | 479 |
| | T20CA002 | 824-HQ | TRACTOR, WHEEL (DOZER), 339 HP, ARTICULATING, 4X4, W/6.70 CY STRAIGHT BLADE | 339 HP | D-off | \$819,241 | 130.11 | 29.53 | 47.09 | 5.98 | 21.04 | 633 |
| | T20CA003 | 834-HQ | TRACTOR, WHEEL (DOZER), 481 HP, ARTICULATING, 4X4, W/10.33 CY STRAIGHT BLADE | 481 HP | D-off | \$1,253,404 | 189.83 | 44.63 | 70.95 | 9.15 | 29.85 | 902 |
| T25 TRACTORS, AGRICULTURAL | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 CRAWLER | | | | | | | | | | | |
| | JOHN DEERE | | | | | | | | | | | |
| | T25JD001 | 8320RT | TRACTOR, AGRICULTURAL, CRAWLER-RUBBER TRACK, 320 HP, 3 POINT HITCH | 320 HP | D-off | \$321,631 | 83.43 | 16.08 | 27.34 | 2.41 | 21.23 | 345 |
| | T25JD002 | 8345RT | TRACTOR, AGRICULTURAL, CRAWLER-RUBBER TRACK, 345 HP, 3 POINT HITCH | 345 HP | D-off | \$337,615 | 88.26 | 16.88 | 28.70 | 2.53 | 22.89 | 345 |
| | T25JD003 | 8370RT | TRACTOR, AGRICULTURAL, CRAWLER-RUBBER TRACK, 370 HP, 3 POINT HITCH | 370 HP | D-off | \$353,570 | 93.07 | 17.68 | 30.05 | 2.65 | 24.55 | 366 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|-------------------|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.20 | WHEEL | | | | | | | | | | |
| | | | JOHN DEERE | | | | | | | | | |
| T25JD021 | 6115R | TRACTOR, AGRICULTURAL, WHEEL, 115 HP, 4X4, PTO, 3 POINT HITCH | 115 HP | D-off | | \$101,134 | 29.91 | 5.25 | 8.96 | 0.77 | 7.63 | 55 |
| T25JD022 | 6170R | TRACTOR, AGRICULTURAL, WHEEL, 170HP, 4X4, PTO, 3 POINT HITCH | 170 HP | D-off | | \$144,662 | 42.99 | 7.73 | 13.24 | 1.11 | 11.28 | 74 |
| T25JD023 | 8235R | TRACTOR, AGRICULTURAL, WHEEL, 235 HP, 4X4, PTO, 3 POINT HITCH | 235 HP | D-off | | \$204,680 | 60.69 | 11.47 | 19.81 | 1.56 | 15.59 | 272 |
| T25JD024 | 8285R | TRACTOR, AGRICULTURAL, WHEEL, 285 HP, 4X4, PTO, 3 POINT HITCH | 285 HP | D-off | | \$236,554 | 71.10 | 13.41 | 23.20 | 1.81 | 18.91 | 211 |
| T25JD025 | 9360R | TRACTOR, AGRICULTURAL, WHEEL, 360 HP, 4X4, PTO, 3 POINT HITCH | 360 HP | D-off | | \$266,495 | 83.73 | 13.92 | 23.75 | 2.04 | 23.88 | 329 |
| T25JD026 | 9460R | TRACTOR, AGRICULTURAL, WHEEL, 460 HP, 4X4, PTO, 3 POINT HITCH | 460 HP | D-off | | \$319,352 | 102.24 | 17.12 | 29.36 | 2.44 | 30.52 | 349 |
| T25JD027 | 5045D | TRACTOR, AGRICULTURAL, WHEEL, 45 HP, 4X2, PTO, 3 POINT HITCH | 45 HP | D-off | | \$16,492 | 6.86 | 0.88 | 1.49 | 0.13 | 2.99 | 42 |
| T25JD028 | 5055D | TRACTOR, AGRICULTURAL, WHEEL, 55 HP, 4X2, PTO, 3 POINT HITCH | 55 HP | D-off | | \$17,815 | 7.88 | 0.96 | 1.63 | 0.14 | 3.65 | 39 |
| T25JD029 | 5055D W/MX6 MOWER | TRACTOR, AGRICULTURAL, WHEEL, 55 HP, 4X2, PTO, 3 POINT HITCH, WITH 60" HEAVY DUTY ROTARY MOWER | 55 HP | D-off | | \$24,187 | 9.21 | 1.34 | 2.31 | 0.18 | 3.65 | 51 |
| T25JD030 | 5065E | TRACTOR, AGRICULTURAL, WHEEL, 65 HP, 4X2, PTO, 3 POINT HITCH | 65 HP | D-off | | \$36,254 | 12.48 | 2.08 | 3.59 | 0.28 | 4.31 | 27 |
| T25JD031 | 5083E | TRACTOR, AGRICULTURAL, WHEEL, 83 HP, 4X2, PTO, 3 POINT HITCH | 83 HP | D-off | | \$37,441 | 14.08 | 2.12 | 3.66 | 0.29 | 5.51 | 54 |
| T25JD032 | 5101E | TRACTOR, AGRICULTURAL, WHEEL, 101 HP, 4X2, PTO, 3 POINT HITCH | 101 HP | D-off | | \$44,947 | 17.16 | 2.21 | 3.74 | 0.34 | 6.70 | 73 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T30 TRENCHERS, CHAIN TYPE CUTTER | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 | TRENCHERS, CHAIN TYPE CUTTER | | | | | | | | | | |
| | DITCH WITCH (THE CHARLES MACHINE WORKS) | | | | | | | | | | | |
| T30DW019 | C12 | TRENCHER, CHAIN TYPE CUTTER, 24" MAX DEPTH X 3.5" - 6" WIDTH, WALK BEHIND, WHEELED | 12 | HP | G | \$11,256 | 4.32 | 0.64 | 1.09 | 0.09 | 1.54 | 15 |
| T30DW020 | C16 | TRENCHER, CHAIN TYPE CUTTER, 30" MAX DEPTH X 3.5"-6" WIDTH, WALK BEHIND, WHEELED | 16 | HP | G | \$10,888 | 4.83 | 0.62 | 1.06 | 0.09 | 2.06 | 15 |
| T30DW021 | C16X | TRENCHER, CHAIN TYPE CUTTER, 36" MAX DEPTH X 3.5"-6" WIDTH, WALK BEHIND, CRAWLER | 16 | HP | G | \$12,155 | 5.12 | 0.71 | 1.22 | 0.10 | 2.06 | 19 |
| T30DW022 | C30X | TRENCHER, CHAIN TYPE CUTTER, 48" MAX DEPTH X 3.5"-6" WIDTH, WALK BEHIND, CRAWLER | 31 | HP | G | \$16,049 | 8.18 | 0.93 | 1.60 | 0.13 | 3.99 | 21 |
| T30DW023 | RT100 | TRENCHER, CHAIN TYPE CUTTER, 94" MAX DEPTH X 24" WIDTH, RIDE-ON, 4X4 | 100 | HP | D-off | \$130,705 | 37.26 | 6.70 | 11.33 | 1.03 | 6.63 | 89 |
| T30DW024 | RT30 | TRENCHER, CHAIN TYPE CUTTER, 42" MAX DEPTH X 4"-8" WIDTH, RIDE-ON, WHEELED, 4X4 | 25 | HP | D-off | \$28,703 | 8.45 | 1.64 | 2.81 | 0.23 | 1.65 | 31 |
| T30DW025 | RT45 | TRENCHER, CHAIN TYPE CUTTER, 63" MAX DEPTH X 6"-12" WIDTH, RIDE-ON, 4X4 | 49 | HP | D-off | \$52,276 | 15.69 | 2.99 | 5.16 | 0.41 | 3.24 | 54 |
| T30DW026 | RT80 | TRENCHER, CHAIN TYPE CUTTER, 93" MAX DEPTH X 24" WIDTH, RIDE-ON, 4X4 | 74 | HP | D-off | \$103,757 | 29.36 | 5.81 | 9.98 | 0.82 | 4.91 | 77 |
| T30DW012 | RT12 | TRENCHER, CHAIN TYPE CUTTER, 36" DEEP X 10" WIDE, WALK BEHIND | 16 | HP | G | \$10,341 | 4.69 | 0.58 | 1.00 | 0.08 | 2.06 | 10 |
| T30DW013 | RT24 | TRENCHER, CHAIN TYPE CUTTER, 48" DEEP X 8" WIDE, WALK BEHIND | 22 | HP | G | \$13,524 | 6.30 | 0.79 | 1.35 | 0.11 | 2.83 | 11 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|----------|---------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T30</i> | | | <i>DITCH WITCH (THE CHARLES MACHINE WORKS) (continued)</i> | | | | | | | | | |
| | T30DW014 | RT115 | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 16" WIDE, 4X4 (W/BLADE, BHOE) | 102 HP | D-off | \$138,178 | 39.15 | 7.13 | 12.08 | 1.09 | 6.77 | 80 |
| | T30DW005 | RT45 | TRENCHER, CHAIN TYPE CUTTER, 63" DEEP X 12" WIDE, 4X4 (W/DBL PIVOT & H313 TRENCHER) | 42 HP | D-on | \$41,289 | 13.40 | 2.29 | 3.92 | 0.33 | 3.48 | 42 |
| | T30DW015 | RT45 | TRENCHER, CHAIN TYPE CUTTER, 52" DEEP X 12" WIDE, 4X4 (W/BLADE) | 42 HP | D-on | \$43,813 | 13.99 | 2.44 | 4.18 | 0.35 | 3.48 | 42 |
| | T30DW016 | RT55 | TRENCHER, CHAIN TYPE CUTTER, 62" DEEP X 12" WIDE, 4X4 (W/BLADE) | 60 HP | D-off | \$74,569 | 21.34 | 3.45 | 5.72 | 0.59 | 3.98 | 95 |
| | T30DW017 | RT80 | TRENCHER, CHAIN TYPE CUTTER, 62" DEEP X 12" WIDE, 4X4 (W/BLADE) | 78 HP | D-off | \$89,027 | 26.01 | 4.29 | 7.17 | 0.70 | 5.17 | 69 |
| | T30DW018 | RT95M | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 24" WIDE, 4X4 (W/BLADE) | 99 HP | D-off | \$119,427 | 34.60 | 6.05 | 10.21 | 0.94 | 6.57 | 77 |
| | T30DW011 | HT220 | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 12"-24" WIDE, CRAWLER (W/BLADE) | 220 HP | D-off | \$571,966 | 148.37 | 33.11 | 57.20 | 4.51 | 14.59 | 430 |
| | T30DW010 | RT95H | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 24" WIDE, 4X4 (W/BLADE) | 99 HP | D-off | \$120,862 | 34.92 | 6.13 | 10.35 | 0.95 | 6.57 | 77 |
| | | | TESMEC USA, INC. | | | | | | | | | |
| | T30TM007 | TRS 775 | TRENCHER, CHAIN TYPE CUTTER, 4' DEEP X 12" WIDE, CRAWLER (W/CRUMBSHOE) SELF LEVEL, OFFSET | 220 HP | D-off | \$530,315 | 138.76 | 30.71 | 53.03 | 4.19 | 14.59 | 450 |
| | T30TM008 | TRS 775 | TRENCHER, CHAIN TYPE CUTTER, 6' DEEP X 18" WIDE, CRAWLER (W/CRUMBSHOE) SELF LEVEL, OFFSET | 220 HP | D-off | \$533,768 | 139.56 | 30.90 | 53.38 | 4.21 | 14.59 | 470 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|-------------------------------------|--------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T30</i> | <i>TESMEC USA, INC. (continued)</i> | | | | | | | | | | | |
| | T30TM012 | TRS 1100 | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 26" WIDE, CRAWLER (W/CRUMBSHOE) | 385 HP | D-off | \$910,245 | 238.72 | 52.69 | 91.02 | 7.18 | 25.54 | 850 |
| | T30TM014 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 10' DEEP X 26" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | \$1,427,638 | 368.54 | 82.65 | 142.76 | 11.27 | 34.83 | 1,680 |
| | T30TM013 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 14' DEEP X 42" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | \$1,491,263 | 383.23 | 86.34 | 149.13 | 11.77 | 34.83 | 1,680 |
| | T30TM015 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 16' DEEP X 42" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | \$1,522,554 | 390.45 | 88.15 | 152.26 | 12.02 | 34.83 | 1,680 |
| | VERMEER MANUFACTURING CO. | | | | | | | | | | | |
| | T30VE007 | T 455 | TRENCHER, CHAIN TYPE CUTTER, 6' DEEP X 8"-24" WIDE, CRAWLER, HYDROSTATIC | 125 HP | D-off | \$210,260 | 57.83 | 12.18 | 21.03 | 1.66 | 8.29 | 180 |
| | T30VE008 | T 555 III | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 8"-24" WIDE, CRAWLER, HYDROSTATIC | 185 HP | D-off | \$267,165 | 75.43 | 15.47 | 26.72 | 2.11 | 12.27 | 225 |
| | T30VE009 | T 655 III | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 10.5"-26" WIDE, CRAWLER, HYDROSTATIC | 250 HP | D-off | \$431,583 | 118.22 | 24.99 | 43.16 | 3.41 | 16.59 | 500 |
| | T30VE010 | T 755 III | TRENCHER, CHAIN TYPE CUTTER, 10' DEEP X 14"-36" WIDE, CRAWLER, HYDROSTATIC | 275 HP | D-off | \$528,628 | 142.46 | 30.60 | 52.86 | 4.17 | 18.24 | 660 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---|---|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T35 TRENCHERS, WHEEL TYPE CUTTER | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 TRENCHERS, WHEEL TYPE CUTTER | | | | | | | | | | | |
| | CLEVELAND PACIFIC TRENCHER CO | | | | | | | | | | | |
| T35CT001 | 9624 | TRENCHER, WHEEL TYPE CUTTER, 72" DEEP X 21.5" WIDE, ROUND BUCKET, CRAWLER | 140 HP | D-off | | \$279,153 | 74.85 | 16.16 | 27.92 | 2.20 | 9.29 | 170 |
| T35CT002 | 9600-S | TRENCHER, WHEEL TYPE CUTTER, 72" DEEP X 24" WIDE, ROUND BUCKET, CRAWLER | 140 HP | D-off | | \$343,799 | 89.76 | 19.90 | 34.38 | 2.71 | 9.29 | 228 |
| | PORT INDUSTRIES | | | | | | | | | | | |
| T35PZ001 | 2600 | TRENCHER, WHEEL TYPE CUTTER, 87" DEEP X 18"-32" WIDE, ROUND BUCKET, WHEELED | 350 HP | D-off | | \$401,115 | 117.62 | 22.00 | 37.65 | 3.17 | 23.22 | 460 |
| T35PZ002 | 2700 | TRENCHER, WHEEL TYPE CUTTER, 87" DEEP X 18"-35" WIDE, ROUND BUCKET, WHEELED | 425 HP | D-off | | \$442,838 | 132.83 | 24.41 | 41.82 | 3.50 | 28.19 | 485 |
| T35PZ003 | 2710 | TRENCHER, WHEEL TYPE CUTTER, 87" DEEP X 18"-40" WIDE, ROUND BUCKET, WHEELED | 425 HP | D-off | | \$461,314 | 137.09 | 25.48 | 43.67 | 3.64 | 28.19 | 490 |
| T35PZ004 | 2800 | TRENCHER, CRAWLER TYPE CUTTER, 108" DEEP X 26"-48" WIDE, ROUND BUCKET, CRAWLER | 425 HP | D-off | | \$637,171 | 178.68 | 36.89 | 63.72 | 5.03 | 28.19 | 820 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--------------------------|------------------|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T40 TRUCK OPTIONS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | | | | | | | | | |
| | | | FISCHER CRANE | | | | | | | | | |
| | T40FA001 | 808N | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 3.25 TON, 29' BOOM (ADD 21,000 GVW TRUCK & FLATBED) | | | \$32,618 | 7.26 | 1.89 | 3.26 | 0.26 | 0.00 | 24 |
| | T40FA002 | 815 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 5.6 TON, 33' BOOM (ADD 32,500 GVW TRUCK & FLATBED) | | | \$41,580 | 9.18 | 2.41 | 4.16 | 0.33 | 0.00 | 32 |
| | T40FA003 | 820 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 9.4 TON, 33' BOOM (ADD 45,000 GVW TRUCK & FLATBED) | | | \$57,152 | 12.53 | 3.31 | 5.72 | 0.45 | 0.00 | 32 |
| | | | PALFINGER INC. | | | | | | | | | |
| | T40PA007 | PK 22002-EH | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 8.3 TON, 70' BOOM (ADD 30,000 GVW TRUCK & FLATBED) | | | \$67,217 | 14.69 | 3.89 | 6.72 | 0.53 | 0.00 | 53 |
| | T40PA001 | PC 2700 | TRUCK OPTIONS, CRANE, HYDRAULIC, 2-ARM ARTICULATING, 2.4 TON, 21' BOOM (ADD 25,000 GVW TRUCK & FLATBED) | | | \$8,476 | 2.07 | 0.50 | 0.85 | 0.07 | 0.00 | 9 |
| | T40PA002 | PK 14002-EH | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 6.2 TON, 62' BOOM (ADD 28,000 GVW TRUCK & FLATBED) | | | \$53,720 | 11.77 | 3.11 | 5.37 | 0.42 | 0.00 | 40 |
| | T40PA004 | PK 30002 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 10 TON, 69' BOOM (ADD 52,000 GVW TRUCK & FLATBED) | | | \$78,999 | 17.22 | 4.57 | 7.90 | 0.62 | 0.00 | 64 |
| | T40PA005 | PK 50002-EH | TRUCK OPTIONS, CRANE, HYDRAULIC, 2-ARM ARTICULATING, 12.5 TON, 82' BOOM (ADD 60,000 GVW TRUCK & FLATBED) | | | \$125,182 | 27.16 | 7.25 | 12.52 | 0.99 | 0.00 | 107 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|------------|--|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|----|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| T40 | <i>PALFINGER INC. (continued)</i> | | | | | \$156,717 | 33.93 | 9.08 | 15.67 | 1.24 | 0.00 | 126 | | |
| | T40PA006 | PK 65002-SH | TRUCK OPTIONS, CRANE, HYDRAULIC, 2-ARM ARTICULATING, 22 TON, 82' BOOM (ADD 62,000 GVW TRUCK & FLATBED) | | | | | | | | | | | |
| | SUBCATEGORY 0.20 DUMP BODY, REAR | | | | | | | | | | | | | |
| | OX BODIES | | | | | | \$9,531 | 2.03 | 0.61 | 1.07 | 0.07 | 0.00 | 33 | |
| | T400X001 | MAVERICK | TRUCK OPTIONS, DUMP BODY, REAR, 10.0 CY, AIR GATE (W/HOIST) (ADD 35,000 GVW TRUCK) | | | | \$9,058 | 1.94 | 0.58 | 1.02 | 0.07 | 0.00 | 21 | |
| | T400X002 | MAVERICK | TRUCK OPTIONS, DUMP BODY, REAR, 8 CY, AIR GATE (W/HOIST) (ADD 30,000 GVW TRUCK) | | | | \$17,375 | 3.70 | 1.11 | 1.95 | 0.13 | 0.00 | 35 | |
| | T400X003 | STAMPEDE | TRUCK OPTIONS, DUMP BODY, REAR, 16 CY, AIR GATE (W/HOIST) (ADD 50,000 GVW TRUCK) | | | | \$19,947 | 4.26 | 1.27 | 2.24 | 0.15 | 0.00 | 40 | |
| | SUBCATEGORY 0.30 FLATBEDS, WITH SIDES | | | | | | | | | | | | | |
| | KNAPHEIDE MANUFACTURING CO. | | | | | | \$5,767 | 1.09 | 0.34 | 0.58 | 0.05 | 0.00 | 11 | |
| | T40KF011 | PVMXT-83C | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 8' | | | | \$6,132 | 1.15 | 0.36 | 0.61 | 0.05 | 0.00 | 14 | |
| | T40KF013 | PVMXT-103C | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 10' | | | | \$6,918 | 1.29 | 0.40 | 0.69 | 0.05 | 0.00 | 16 | |
| | T40KF014 | PVMXT-123C | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 12' | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|------------|--|-------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|--|--|--|--|--|--|--|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| T40 | <i>KNAPHEIDE MANUFACTURING CO. (continued)</i> | | | | | \$8,632 | 1.62 | 0.50 | 0.86 | 0.07 | 0.00 | 16 | | | | | | | | | |
| | T40KF016 | PVMXT-163C | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 16' | | | | | | | | | | | | | | | | | | |
| | T40KF018 | PVMXT-203C | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 20' | | | | | | | | | | | | | | | | | | |
| | T40KF020 | PVMXT-243 | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 24' | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.41 HOIST, ELECTRIC DRIVE | | | | | \$12,180 | 2.30 | 0.71 | 1.22 | 0.10 | 0.00 | 20 | | | | | | | | | |
| | <i>KNAPHEIDE MANUFACTURING CO.</i> | | | | | | | | | | | | | | | | | | | | |
| | T40KF021 | KH-1416L | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, PTO, 10' TO 14', 7-16 TON | | | | | | | | | | | | | | | | | | |
| | T40KF023 | KH-1416-EE | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, 10' TO 14', 7-16 TON | | | | | | | | | | | | | | | | | | |
| | T40KF024 | KH-1627L-EE | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, 15' TO 20', 14-37 TON | | | | | | | | | | | | | | | | | | |
| | T40KF022 | KH-2538L | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, PTO, 20' TO 24', 20-45 TON | | | \$8,444 | 1.80 | 0.49 | 0.84 | 0.07 | 0.00 | 15 | | | | | | | | | |
| | SUBCATEGORY 0.50 TRANSIT MIXERS | | | | | | | | | | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | | | | | | | | |
| | T40XX034 | RDTM-8 | TRANSIT MIXER, 8 CY, HYDROSTATIC, (INCLUDES 60,000 GVW TRUCK) | 235 HP | D-on | \$173,643 | 58.19 | 10.56 | 18.45 | 1.33 | 19.45 | 266 | | | | | | | | | |
| | T40XX035 | 9CY MIXER | TRANSIT MIXER, 9 CY, HYDROSTATIC, (INCLUDES 66,000 GVW TRUCK) | 380 HP | D-on | | | | | | | | | | | | | | | | |
| | T40XX036 | 10CY MIXER | TRANSIT MIXER, 10 CY, HYDROSTATIC, (INCLUDES 66,000 GVW TRUCK) | 285 HP | D-on | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T40 | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | T40XX037 | 11CY MIXER | TRANSIT MIXER, 11 CY, HYDROSTATIC, (INCLUDES 70,000 GVW TRUCK) | 410 HP | D-on | \$159,616 | 72.14 | 9.17 | 15.89 | 1.22 | 33.94 | 285 |
| | T40XX038 | 12CY MIXER | TRANSIT MIXER, 12 CY, HYDROSTATIC, (INCLUDES 75,000 GVW TRUCK) | 470 HP | D-on | \$202,453 | 86.63 | 11.86 | 20.61 | 1.55 | 38.90 | 295 |
| | SUBCATEGORY 0.60 WATER TANKS | | | | | | | | | | | |
| | ROSCO, A LeeBoy COMPANY | | | | | | | | | | | |
| | T40RS001 | DS 2000 | TRUCK OPTIONS, WATER TANK, 2,000 GAL (ADD 28,000 GVW TRUCK) | | | \$34,120 | 6.21 | 1.88 | 3.20 | 0.28 | 0.00 | 38 |
| | T40RS002 | DS 3000 | TRUCK OPTIONS, WATER TANK, 3,000 GAL (ADD 40,000 GVW TRUCK) | | | \$33,167 | 6.04 | 1.83 | 3.11 | 0.27 | 0.00 | 45 |
| | T40RS003 | DS 4000 | TRUCK OPTIONS, WATER TANK, 4,000 GAL (ADD 50,000 GVW TRUCK) | | | \$43,270 | 7.88 | 2.38 | 4.06 | 0.35 | 0.00 | 55 |
| | SUBCATEGORY 0.70 ALL OTHER OPTIONS | | | | | | | | | | | |
| | ARROW-MASTER, INC. | | | | | | | | | | | |
| | T40AG001 | 1350T | TRUCK OPTIONS, GUILLOTINE CONCRETE BREAKER, W/8" DIA BREAKING TOOL AND CAB | 80 HP | D-off | \$100,132 | 26.20 | 5.74 | 9.89 | 0.79 | 5.31 | 100 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------|-------------------------------------|-------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T45 TRUCK TRAILERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 BOTTOM DUMP | | | | | | | | | | | |
| | MIDLAND MANUFACTURING INC. | | | | | | | | | | | |
| | T45MY004 | 40' MC 2000 | TRUCK TRAILER, BOTTOM DUMP, 21 CY, 28 TON, 40' - 2 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$36,894 | 6.99 | 1.71 | 2.87 | 0.27 | 0.00 | 152 |
| | T45MY005 | 40' TC 3000 | TRUCK TRAILER, BOTTOM DUMP, 21 CY, 30 TON, 40' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$49,800 | 9.39 | 2.27 | 3.81 | 0.36 | 0.00 | 138 |
| | T45MY006 | 38' MC 3000 | TRUCK TRAILER, BOTTOM DUMP, 23 CY, 30 TON, 38' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$51,144 | 9.62 | 2.34 | 3.93 | 0.37 | 0.00 | 145 |
| | T45MY007 | 40' MC 3000 | TRUCK TRAILER, BOTTOM DUMP, 23 CY, 30 TON, 40' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$49,592 | 9.35 | 2.26 | 3.79 | 0.36 | 0.00 | 152 |
| | TRAIL KING INDUSTRIES, INC. | | | | | | | | | | | |
| | T45TT001 | TK BD22-362 | TRUCK TRAILER, BOTTOM DUMP, 22 CY, 37' - 2 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$42,715 | 7.97 | 2.02 | 3.42 | 0.31 | 0.00 | 122 |
| | T45TT002 | TK BD22-402 | TRUCK TRAILER, BOTTOM DUMP, 22 CY, 40' - 2 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$39,101 | 7.34 | 1.83 | 3.09 | 0.28 | 0.00 | 126 |
| | T45TT003 | TK BD22-403 | TRUCK TRAILER, BOTTOM DUMP, 22 CY, 40' - 2 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$43,729 | 8.14 | 2.08 | 3.51 | 0.32 | 0.00 | 146 |
| | T45TT004 | TK BD22-433 | TRUCK TRAILER, BOTTOM DUMP, 22 CY, 43' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$44,872 | 8.50 | 2.02 | 3.40 | 0.32 | 0.00 | 149 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|----------|-----------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | | | NO SPECIFIC MANUFACTURER | | | | | | | | | |
| | T45XX001 | BD22.5-27 | TRUCK TRAILER, BOTTOM DUMP, 22.5 CY, 27 TON (ADD TOWING TRUCK) | | | \$46,347 | 8.69 | 2.21 | 3.75 | 0.33 | 0.00 | 122 |
| | T45XX003 | BD25-30 | TRUCK TRAILER, BOTTOM DUMP, 25 CY, 30 TON (ADD TOWING TRUCK) | | | \$55,904 | 10.33 | 2.71 | 4.61 | 0.40 | 0.00 | 160 |
| | | | SUBCATEGORY 0.20 END DUMP | | | | | | | | | |
| | | | CANCADE | | | | | | | | | |
| | T45C6003 | 29' TANDEM | TRUCK TRAILER, END DUMP, 25 CY, DOUBLE AXLE, (W/HOIST) (ADD TOWING TRUCK) | | | \$50,782 | 9.24 | 2.43 | 4.12 | 0.37 | 0.00 | 150 |
| | T45C6004 | 33' TRIDEM | TRUCK TRAILER, END DUMP, 30 CY, 36 TON, 32' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$58,152 | 10.65 | 2.70 | 4.56 | 0.42 | 0.00 | 172 |
| | | | MIDLAND MANUFACTURING INC. | | | | | | | | | |
| | T45MY015 | 28' SK2000 | TRUCK TRAILER, END DUMP, 28 CY, 36 TON, 28' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$39,440 | 7.35 | 1.84 | 3.10 | 0.29 | 0.00 | 115 |
| | T45MY016 | 32' ST 2400 | TRUCK TRAILER, END DUMP, 28 CY, 36 TON, 32' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$40,198 | 7.47 | 1.88 | 3.17 | 0.29 | 0.00 | 130 |
| | T45MY017 | 39' SK 2300 | TRUCK TRAILER, END DUMP, 39 CY, 50 TON, 39' - 3 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$44,586 | 8.39 | 1.99 | 3.34 | 0.32 | 0.00 | 170 |
| | | | NO SPECIFIC MANUFACTURER | | | | | | | | | |
| | T45XX008 | 25CY END DUMP TRAILER | TRUCK TRAILER, END DUMP, 25 CY, 30 TON (ADD TOWING TRUCK) | | | \$50,814 | 9.22 | 2.45 | 4.15 | 0.37 | 0.00 | 150 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|------------------|----------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.30 | PUP TRAILER | | | | | | | | | | |
| | | CASCADE | | | | | | | | | | |
| | T45C6001 | 14' PUP | TRUCK TRAILER, PUP TRAILER, 13 CY, 14', DOUBLE AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$33,377 | 7.26 | 1.86 | 3.22 | 0.25 | 0.00 | 100 |
| | T45C6002 | 17' PUP | TRUCK TRAILER, PUP TRAILER, 15 CY, 17', TRIPLE AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$39,923 | 8.71 | 2.13 | 3.65 | 0.30 | 0.00 | 130 |
| | | MIDLAND MANUFACTURING INC. | | | | | | | | | | |
| | T45MY018 | 14' SK 2100 | TRUCK TRAILER, PUP TRAILER, 10 CY, 13 TON, 14' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$26,536 | 5.92 | 1.41 | 2.42 | 0.20 | 0.00 | 80 |
| | T45MY019 | 14' SL 2100 | TRUCK TRAILER, PUP TRAILER, 12 CY, 15 TON, 14' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$26,323 | 5.87 | 1.39 | 2.40 | 0.19 | 0.00 | 80 |
| | | NO SPECIFIC MANUFACTURER | | | | | | | | | | |
| | T45XX009 | PUP8CY | TRUCK TRAILER, PUP TRAILER, 13 CY, LONG TONGUE (ADD TOWING TRUCK) | | | \$33,101 | 7.20 | 1.84 | 3.19 | 0.24 | 0.00 | 86 |
| | T45XX010 | 15CY BELLY DUMP PUP | TRUCK TRAILER, PUP TRAILER, 15 CY, LONG TONGUE, BELLY DUMP (ADD TOWING TRUCK) | | | \$72,674 | 15.14 | 4.34 | 7.60 | 0.54 | 0.00 | 130 |
| | T45XX032 | 12CY PUP | TRUCK TRAILER, PUP TRAILER, 12 CY, 14.5 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$45,620 | 9.83 | 2.63 | 4.57 | 0.34 | 0.00 | 130 |
| | T45XX033 | 14CY PUP | TRUCK TRAILER, PUP TRAILER, 14 CY, 18.0 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$54,936 | 11.87 | 3.12 | 5.41 | 0.41 | 0.00 | 100 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|------------------|-------------------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.41 | LOWBOY, RIGID NECK, DROP DECK | | | | | | | | | | |
| | | EAGER BEAVER | | | | | | | | | | |
| | T45EA006 | 35GSL-BR | TRUCK TRAILER, LOWBOY, 35 TON, 2 AXLE, DETATCHABLE GOOSENECK (ADD TOWING TRUCK) | | | \$49,324 | 8.39 | 2.35 | 3.97 | 0.36 | 0.00 | 171 |
| | T45EA007 | 50GSL-3 | TRUCK TRAILER, LOWBOY, 50 TON, 3 AXLE , DETATCHABLE GOOSENECK (ADD TOWING TRUCK) | | | \$72,320 | 12.07 | 3.43 | 5.81 | 0.52 | 0.00 | 205 |
| | | NO SPECIFIC MANUFACTURER | | | | | | | | | | |
| | T45XX011 | LBY-25 | TRUCK TRAILER, LOWBOY, 25 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$18,132 | 3.42 | 0.79 | 1.32 | 0.13 | 0.00 | 109 |
| | T45XX013 | LBY-35 | TRUCK TRAILER, LOWBOY, 35 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$37,393 | 6.33 | 1.80 | 3.06 | 0.27 | 0.00 | 135 |
| | T45XX015 | LBY-40 | TRUCK TRAILER, LOWBOY, 40 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$74,089 | 12.29 | 3.56 | 6.03 | 0.54 | 0.00 | 136 |
| | T45XX016 | LBY-55 | TRUCK TRAILER, LOWBOY, 55 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$82,186 | 13.61 | 3.92 | 6.65 | 0.59 | 0.00 | 145 |
| | T45XX017 | LBY-60 | TRUCK TRAILER, LOWBOY, 60 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$155,248 | 24.38 | 7.85 | 13.46 | 1.12 | 0.00 | 175 |
| | T45XX018 | LBY-65 | TRUCK TRAILER, LOWBOY, 65 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$169,745 | 26.58 | 8.62 | 14.77 | 1.23 | 0.00 | 213 |
| | T45XX019 | 75T LOWBOY TRAILER | TRUCK TRAILER, LOWBOY, 75 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$311,252 | 48.73 | 15.58 | 26.66 | 2.25 | 0.00 | 220 |
| | T45XX020 | 80T LOWBOY TRAILER | TRUCK TRAILER, LOWBOY, 80 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$199,421 | 31.65 | 9.91 | 16.93 | 1.44 | 0.00 | 268 |
| | T45XX023 | 120T LOWBOY TRAILER | TRUCK TRAILER, LOWBOY, 120 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$412,049 | 64.36 | 20.68 | 35.39 | 2.98 | 0.00 | 350 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | |
|--------------------------------|---|-----------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|-----|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | |
| | SUBCATEGORY 0.50 FLATBED TRAILER | | | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | |
| | T45XX025 | 25T FLATBED TRAILER | TRUCK TRAILER, FLATBED, 25 TON, 2 AXLE (ADD TOWING TRUCK) | | | | \$24,679 | 4.13 | 1.14 | 1.91 | 0.18 | 0.00 | 110 | |
| | T45XX035 | 40T FLATBED TRAILER | TRUCK TRAILER, FLATBED, 40 TON, 2 AXLE (ADD TOWING TRUCK) | | | | \$29,596 | 5.17 | 1.38 | 2.33 | 0.21 | 0.00 | 110 | |
| | SUBCATEGORY 0.60 MISCELLANEOUS / UTILITY | | | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | |
| | T45XX026 | 10T TILT BED TRAILER | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 10 TON, 2 AXLE (ADD TOWING TRUCK) | | | | \$14,698 | 2.74 | 0.71 | 1.20 | 0.11 | 0.00 | 57 | |
| | T45XX027 | 15T TILT BED TRAILER | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 15 TON, 2 AXLE (ADD TOWING TRUCK) | | | | \$13,387 | 2.73 | 0.55 | 0.89 | 0.10 | 0.00 | 65 | |
| | T45XX028 | TILT BED, 20T TRAILER | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 20 TON, 2 AXLE (ADD TOWING TRUCK) | | | | \$22,315 | 4.08 | 1.01 | 1.70 | 0.16 | 0.00 | 83 | |
| | T45XX024 | 50T UTILITY TRAILER | TRUCK TRAILER, MISCELLANEOUS/UTILITY, 50 TON TRAILER MAX (ADD TOWING TRUCK) | | | | \$41,584 | 6.70 | 2.00 | 3.39 | 0.30 | 0.00 | 80 | |
| | SUBCATEGORY 0.70 WATER TANKER TRAILER | | | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | \$61,045 | 9.34 | 2.57 | 4.15 | 0.49 | 0.00 | 170 | |
| T45XX029 4K GAL, WATER TRAILER | | | TRUCK TRAILER, WATER TANKER, 4,000 GAL (ADD TOWING TRUCK) | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|-----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T45 | | | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | |
| | T45XX030 | 5K GAL, WATER TRAILER | TRUCK TRAILER, WATER TANKER, 5,000 GAL (ADD TOWING TRUCK) | | | \$63,370 | 9.69 | 2.68 | 4.33 | 0.51 | 0.00 | 240 |
| | T45XX031 | 6K GAL, WATER TRAILER | TRUCK TRAILER, WATER TANKER, 6,000 GAL (ADD TOWING TRUCK) | | | \$65,205 | 9.95 | 2.75 | 4.46 | 0.52 | 0.00 | 250 |
| | SUBCATEGORY 0.90 | | TANK TRAILERS | | | | | | | | | |
| | GRACO, INC. | | | | | | | | | | | |
| | T45G1001 | REACTOR 2H-30 | FOAM SPRAY RIG, UP TO 52 LB/MIN, 40KW GENERATOR & 100 CFM COMPRESSOR INCLUDED, MOUNTED WITHIN ENCLOSED TRAILER | 75 HP | D-on | \$74,089 | 18.59 | 3.34 | 5.50 | 0.59 | 6.21 | 160 |
| | T45G1002 | REACTOR 2E-30 | FOAM SPRAY RIG, UP TO 30 LB/MIN, 40 KW GENERATOR & 60 CFM COMPRESSOR INCLUDED, MOUNTED WITHIN ENCLOSED TRAILER | 75 HP | D-on | \$67,074 | 17.49 | 3.03 | 4.97 | 0.54 | 6.21 | 140 |
| T50 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | |
| | SUBCATEGORY 0.01 | | | 0 THRU 10,000 GVW | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | GENERAL MOTORS | | | | | | | | |
| | T50GM001 | SILVERADO 1500 | TRUCK, HIGHWAY, 6,500 GVW, 4X2 | 285 HP | G | \$24,855 | 14.86 | 1.41 | 2.42 | 0.20 | 8.70 | 26 |
| | T50GM004 | SUBURBAN 2500 | TRUCK, HIGHWAY, 8,600 GVW, 4X2 (SUBURBAN) | 355 HP | G | \$41,137 | 20.66 | 2.29 | 3.94 | 0.32 | 10.83 | 50 |
| | T50GM005 | SUBURBAN 2500 | TRUCK, HIGHWAY, 8,600 GVW, 4X4 (SUBURBAN) | 355 HP | G | \$43,723 | 21.21 | 2.45 | 4.20 | 0.35 | 10.83 | 52 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|---------------------------------|----------------------|---|--------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| NO SPECIFIC MANUFACTURER | | | | | | | | | | | | |
| T50XX001 | 4X2 1/2 TON CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X2 | 385 HP | G | | \$26,085 | 18.54 | 1.48 | 2.54 | 0.21 | 11.75 | 43 |
| T50XX002 | 4X2 3/4 TON CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X2 | 385 HP | G | | \$29,749 | 19.28 | 1.69 | 2.91 | 0.23 | 11.75 | 60 |
| T50XX003 | 4X2 1 TON CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X2 | 385 HP | G | | \$30,829 | 19.50 | 1.75 | 3.02 | 0.24 | 11.75 | 66 |
| T50XX004 | 4X4 1/2 TON CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X4 | 385 HP | G | | \$31,066 | 19.57 | 1.77 | 3.04 | 0.25 | 11.75 | 45 |
| T50XX005 | 4X4 3/4 TON CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X4 | 385 HP | G | | \$32,587 | 19.87 | 1.86 | 3.19 | 0.26 | 11.75 | 64 |
| T50XX006 | 4X4 1 TON CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X4 | 385 HP | G | | \$33,620 | 20.09 | 1.92 | 3.30 | 0.27 | 11.75 | 65 |
| T50XX007 | 4X2 1/2 TON CREW GAS | TRUCK, HIGHWAY, CREW, 1/2 TON PICKUP, 4X2 | 385 HP | G | | \$32,942 | 19.94 | 1.88 | 3.23 | 0.26 | 11.75 | 47 |
| T50XX008 | 4X2 3/4 TON CREW GAS | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X2 | 385 HP | G | | \$34,796 | 20.30 | 1.98 | 3.41 | 0.27 | 11.75 | 66 |
| T50XX009 | 4X2 1 TON CREW GAS | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X2 | 385 HP | G | | \$34,619 | 20.28 | 1.97 | 3.40 | 0.27 | 11.75 | 66 |
| T50XX010 | 4X4 1/2 TON CREW GAS | TRUCK, HIGHWAY, CREW, 1/2 TON PICKUP, 4X4 | 385 HP | G | | \$36,783 | 20.77 | 2.08 | 3.58 | 0.29 | 11.75 | 50 |
| T50XX011 | 4X4 3/4 TON CREW GAS | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X4 | 385 HP | G | | \$37,177 | 20.80 | 2.12 | 3.65 | 0.29 | 11.75 | 70 |
| T50XX012 | 4X4 1 TON CREW GAS | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X4 | 385 HP | G | | \$37,949 | 20.96 | 2.17 | 3.73 | 0.30 | 11.75 | 70 |
| T50XX014 | 4X2 3/4 TON CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X2 | 440 HP | D-on | | \$38,720 | 17.01 | 2.22 | 3.81 | 0.31 | 8.22 | 66 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|----------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T50</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | T50XX015 | 4X2 1 TON CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X2 | 440 HP | D-on | \$39,904 | 17.25 | 2.26 | 3.89 | 0.31 | 8.22 | 67 |
| | T50XX017 | 4X4 3/4 TON CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X4 | 440 HP | D-on | \$41,606 | 17.60 | 2.38 | 4.10 | 0.33 | 8.22 | 70 |
| | T50XX018 | 4X4 1 TON CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X4 | 440 HP | D-on | \$42,561 | 17.80 | 2.44 | 4.19 | 0.34 | 8.22 | 71 |
| | T50XX019 | 4X2 3/4 TON CREW DSL | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X2 | 440 HP | D-on | \$40,781 | 17.44 | 2.31 | 3.98 | 0.32 | 8.22 | 73 |
| | T50XX020 | 4X4 3/4 TON CREW DSL | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP 4X4 | 440 HP | D-on | \$44,813 | 18.25 | 2.56 | 4.42 | 0.35 | 8.22 | 77 |
| | T50XX021 | 4X2 1 TON CREW DSL | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X2 | 440 HP | D-on | \$42,670 | 17.81 | 2.44 | 4.20 | 0.34 | 8.22 | 74 |
| | SUBCATEGORY 0.02 OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | T50XX023 | 4X2 20KGVW GAS | TRUCK, HIGHWAY, 20,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 362 HP | G | \$36,883 | 34.61 | 1.67 | 2.76 | 0.29 | 25.25 | 70 |
| | T50XX024 | 4X2 26KGVW GAS | TRUCK, HIGHWAY, 26,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 320 HP | G | \$59,946 | 34.97 | 2.76 | 4.59 | 0.46 | 22.32 | 72 |
| | T50XX022 | 4X2 25KGVW DSL | TRUCK, HIGHWAY, 25,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 270 HP | D-on | \$70,330 | 25.12 | 3.20 | 5.31 | 0.54 | 12.26 | 88 |
| | T50XX025 | 4X4 30KGVW DSL | TRUCK, HIGHWAY, 30,000 LBS GVW, 2 AXLE, 4X4 (CHASSIS ONLY-ADD OPTIONS) | 170 HP | D-on | \$84,781 | 22.29 | 3.95 | 6.58 | 0.66 | 7.72 | 97 |
| | T50XX026 | 4X2 32KGVW DSL | TRUCK, HIGHWAY, 32,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 270 HP | D-on | \$69,382 | 24.97 | 3.16 | 5.23 | 0.54 | 12.26 | 105 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | |
|------------|--|----------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|-----|--|--|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | |
| <i>T50</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | 270 HP D-on | | \$107,750 | 31.05 | 4.98 | 8.30 | 0.83 | 12.26 | 135 | | | |
| | T50XX035 | 4X2 32KGVW DSL | TRUCK, HIGHWAY, 32,000 LBS GVW, 2 AXLE, 4X2, WITH A QT-EQUIPMENT ARTICULATING CRANE, 3.5 TON, 32' BOOM, WITH 8' X 20' FLATBED | | | | | | | | | | | | |
| | SUBCATEGORY 0.03 OVER 30,000 GVW (Chassis only - Add options) | | | | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | | | | |
| | T50XX027 | 4X2 35KGVW DSL | TRUCK, HIGHWAY, 35,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | | | | \$93,697 | 31.92 | 3.71 | 5.98 | 0.72 | 16.98 | 126 | | |
| | T50XX032 | 4X2 35KGVW DSL | DUMP TRUCK, HIGHWAY, 35,000 LBS GVW, 2 AXLE, 4X2 WITH REAR 10 - 13 CY DUMP BODY | | | | \$84,901 | 30.74 | 3.35 | 5.39 | 0.65 | 16.98 | 160 | | |
| | T50XX028 | 6X4 45KGVW DSL | TRUCK, HIGHWAY, 45,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | | | | \$105,061 | 31.15 | 4.08 | 6.56 | 0.80 | 14.74 | 135 | | |
| | T50XX029 | 6X4 55KGVW DSL | TRUCK, HIGHWAY, 50,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | | | | \$114,704 | 38.19 | 4.48 | 7.20 | 0.88 | 19.86 | 144 | | |
| | T50XX030 | 6X6 70KGVW DSL | TRUCK, HIGHWAY, 70,000 LBS GVW, 3 AXLE, 6X6 (CHASSIS ONLY-ADD OPTIONS) | | | | \$158,439 | 46.91 | 6.27 | 10.12 | 1.21 | 22.43 | 180 | | |
| | T50XX031 | 6X4 75KGVW DSL | TRUCK, HIGHWAY, 75,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | | | | \$128,656 | 46.53 | 5.05 | 8.13 | 0.98 | 25.63 | 197 | | |
| | T50XX033 | 6X4 75KGVW DSL | DUMP TRUCK, HIGHWAY, 75,000 LBS GVW, 3 AXLE, 6X4 WITH REAR 16 - 20 CY DUMP BODY | | | | \$159,621 | 50.67 | 6.32 | 10.20 | 1.22 | 25.63 | 240 | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|----------|--|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T55 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | |
| | SUBCATEGORY 0.10 RIGID FRAME | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| T55CA007 | 770 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 31.7 CY, 41.6 TON, 4X4, REAR DUMP | 487 HP | D-off | | \$704,158 | 101.55 | 19.10 | 28.10 | 5.05 | 17.72 | 668 |
| T55CA002 | 773F | TRUCK, OFF-HIGHWAY, RIGID FRAME, 46.9 CY, 57.7 TON, 4X4, REAR DUMP | 650 HP | D-off | | \$920,637 | 125.24 | 24.81 | 36.42 | 6.60 | 23.65 | 872 |
| T55CA003 | 777G | TRUCK, OFF-HIGHWAY, RIGID FRAME, 78.6 CY, 100 TON, 4X4, REAR DUMP | 938 HP | D-off | | \$1,346,773 | 185.98 | 35.70 | 52.10 | 9.65 | 34.12 | 1,419 |
| | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | |
| T55KM009 | HD325-7 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 31.4 CY, 44 TON, 4X4, REAR DUMP | 518 HP | D-off | | \$684,180 | 101.58 | 18.53 | 27.25 | 4.90 | 18.84 | 1,547 |
| T55KM012 | HD785-7 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 78.5 CY, 100 TON, 4X4, REAR DUMP | 1,200 HP | D-off | | \$1,230,684 | 186.66 | 32.41 | 47.17 | 8.82 | 43.66 | 3,660 |
| T55KM014 | 730E | TRUCK, OFF-HIGHWAY, RIGID FRAME, 145 CY, 205 TON, 4X4, REAR DUMP | 2,000 HP | D-off | | \$2,887,763 | 415.84 | 74.08 | 106.75 | 20.70 | 72.76 | 7,150 |
| | WACKER CORPORATION | | | | | | | | | | | |
| T55WC001 | DUMPER 3001 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 1.7 CY, 3.3 TON, 4X4, REAR DUMP | 34 HP | D-off | | \$48,450 | 6.36 | 1.35 | 2.00 | 0.35 | 1.24 | 56 |
| | SUBCATEGORY 0.20 ARTICULATED FRAME | | | | | | | | | | | |
| | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| T55CA001 | 725C | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 19.6 CY, 26 TON, 6X6, REAR DUMP | 320 HP | D-off | | \$428,335 | 82.61 | 16.48 | 26.68 | 3.14 | 16.44 | 512 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T55</i> | <i>CATERPILLAR INC. (MACHINE DIVISION) (continued)</i> | | | | | | | | | | | |
| | T55CA004 | 730C | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 23 CY, 31 TON, 6X6, REAR DUMP | 375 HP | D-off | \$499,049 | 95.52 | 19.32 | 31.31 | 3.66 | 19.26 | 531 |
| | T55CA005 | 735C | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 26.8 CY, 36 TON, 6X6, REAR DUMP | 452 HP | D-off | \$692,525 | 130.35 | 26.60 | 43.04 | 5.08 | 23.21 | 693 |
| | T55CA006 | 740B | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 31.4 CY, 43.5 TON, 6X6, REAR DUMP | 484 HP | D-off | \$688,847 | 133.52 | 26.21 | 42.32 | 5.05 | 24.86 | 753 |
| | T55CA008 | 745C | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 32.7 CY, 45.2 TON, 6X6, REAR DUMP | 511 HP | D-off | \$739,258 | 142.01 | 28.23 | 45.61 | 5.42 | 26.24 | 737 |
| | T55CA014 | 725 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 6X6, REAR DUMP | 214 HP | D-off | \$397,046 | 70.94 | 15.26 | 24.69 | 2.91 | 10.99 | 424 |
| | T55CA015 | 730 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 30 TON, 4X4, REAR DUMP | 285 HP | D-off | \$454,196 | 81.47 | 17.76 | 28.85 | 3.33 | 14.64 | 473 |
| | T55CA016 | 735 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 30 TON, 6X6, REAR DUMP | 260 HP | D-off | \$549,433 | 99.20 | 20.87 | 33.68 | 4.03 | 13.35 | 488 |
| | T55CA017 | 735B | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 25 CY, 35 TON, 6X6, REAR DUMP | 355 HP | D-off | \$624,234 | 114.88 | 23.87 | 38.57 | 4.58 | 18.23 | 667 |
| | T55CA018 | 740 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 28 CY, 40 TON, 6X6, REAR DUMP | 405 HP | D-off | \$641,252 | 129.95 | 23.21 | 37.01 | 4.70 | 20.80 | 698 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|-----------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | JOHN DEERE | | | | | | | | | | | |
| | T55JD001 | 250D-II | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 6X6, REAR DUMP | 265 HP | D-off | \$396,099 | 74.73 | 15.19 | 24.57 | 2.90 | 13.61 | 355 |
| | T55JD002 | 300D-II | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 29 TON, 6X6, REAR DUMP | 285 HP | D-off | \$439,779 | 81.94 | 16.95 | 27.43 | 3.23 | 14.64 | 401 |
| | T55JD003 | 370E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 26.8 CY, 37 TON, 6X6, REAR DUMP | 380 HP | D-off | \$591,296 | 111.71 | 22.55 | 36.42 | 4.34 | 19.52 | 571 |
| | T55JD004 | 410E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 29.7 CY, 41 TON, 6X6, REAR DUMP | 413 HP | D-off | \$641,702 | 122.32 | 24.33 | 39.23 | 4.71 | 21.21 | 635 |
| | KOMATSU AMERICA INTERNATIONAL COMPANY | | | | | | | | | | | |
| | T55KM015 | HM300-5 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22.4 CY, 31 TON, 6 X 6, REAR DUMP | 332 HP | D-off | \$549,000 | 99.73 | 21.32 | 34.57 | 4.03 | 17.05 | 1,179 |
| | T55KM016 | HM400-5 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 31.4 CY, 44.1 TON, 6 X 6, REAR DUMP | 473 HP | D-off | \$774,424 | 144.11 | 29.64 | 47.91 | 5.68 | 24.29 | 1,626 |
| | VOLVO CONSTRUCTION EQUIPMENT GROUP | | | | | | | | | | | |
| | T55VO002 | A-25E 4X4 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 14-18 CY, 25 TON, 4X4, REAR DUMP | 299 HP | D-off | \$403,488 | 75.37 | 15.79 | 25.65 | 2.96 | 15.36 | 429 |
| | T55VO003 | A-25E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 14-18 CY, 25 TON, 6X6, REAR DUMP | 299 HP | D-off | \$425,550 | 79.89 | 16.49 | 26.73 | 3.12 | 15.36 | 475 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T55</i> | <i>VOLVO CONSTRUCTION EQUIPMENT GROUP (continued)</i> | | | | | | | | | | | |
| | T55VO005 | A-30E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 17-22 CY, 30 TON, 6X6, REAR DUMP | 336 HP | D-off | \$503,508 | 101.80 | 18.39 | 29.39 | 3.69 | 17.26 | 508 |
| | T55VO004 | A-35E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 19-25 CY, 35 TON, 6X6, REAR DUMP | 414 HP | D-off | \$622,716 | 117.95 | 23.81 | 38.47 | 4.57 | 21.26 | 620 |
| | T55VO006 | A-40E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 21-29 CY, 40 TON, 6X6, REAR DUMP | 464 HP | D-off | \$691,109 | 140.17 | 25.21 | 40.27 | 5.07 | 23.83 | 666 |
| T57 | TRUCKS, VACUUM | | | | | | | | | | | |
| | SUBCATEGORY 0.00 TRUCKS, VACUUM | | | | | | | | | | | |
| | WASTEQUIP CUSCO INDUSTRIES | | | | | | | | | | | |
| | T57CU001 | INDUSTRIAL VAC 130 | TRAILER, VACUUM, 5,500 GAL, 750 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM | 76 HP | D-on | \$136,399 | 30.99 | 6.49 | 10.86 | 1.06 | 6.29 | 76 |
| | T57CU002 | SS INDUST. VAC 130 | TRAILER, VACUUM, 5,500 GAL, 750 CFM, STAINLESS STEEL, REAR DOOR & HYDRAULIC DUMP SYSTEM | 76 HP | D-on | \$167,432 | 36.37 | 7.97 | 13.34 | 1.30 | 6.29 | 76 |
| | T57CU003 | TVAC3600TPMB US | TRUCK, VACUUM, 3,600 GAL, 2,600 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM, INCLUDES TRUCK CHASSIS | 300 HP | D-on | \$339,370 | 88.29 | 16.12 | 26.98 | 2.63 | 24.83 | 230 |
| | T57CU004 | TV3600721TPM U | TRUCK, VACUUM, 3,600 GAL, 3,000 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM, INCLUDES TRUCK CHASSIS | 300 HP | D-on | \$316,461 | 84.32 | 15.03 | 25.15 | 2.45 | 24.83 | 200 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|-----------------------------------|-----------------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-------|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| T57 | | | <i>WASTEQUIP CUSCO INDUSTRIES (continued)</i> | | | \$295,677 | 75.18 | 14.03 | 23.48 | 2.29 | 19.90 | 190 |
| | T57CU005 | TV3200721TPM U | TRUCK, VACUUM, 3,200 GAL, 3,000 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM, INCLUDES TRUCK CHASSIS | 300 HP | D-off | | | | | | | |
| T60 | TRUCKS, WATER, OFF-HIGHWAY | | | | | | | | | | | |
| | | | SUBCATEGORY 0.00 TRUCKS, WATER, OFF-HIGHWAY | | | | | | | | | |
| | | | CATERPILLAR INC. (MACHINE DIVISION) | | | | | | | | | |
| | T60CA001 | 725C2 & 6K TANK | TRUCK, WATER, OFF-HIGHWAY, 6K GAL, W/CAT 725C2 TRUCK | 320 HP | D-off | \$507,664 | 98.88 | 20.09 | 32.41 | 3.88 | 21.23 | 512 |
| | T60CA002 | 740B & 8K TANK | TRUCK, WATER, OFF-HIGHWAY, 8K GAL, W/CAT 740B TRUCK | 489 HP | D-off | \$769,941 | 152.91 | 30.07 | 48.38 | 5.88 | 32.44 | 758 |
| | T60CA003 | 745C & 9K TANK | TRUCK, WATER, OFF-HIGHWAY, 9K GAL, W/ CAT 745C ARTICULATED TRUCK | 511 HP | D-off | \$656,411 | 140.30 | 25.43 | 40.81 | 5.02 | 33.90 | 736 |
| | T60CA004 | 770G & 10K TANK | TRUCK, WATER, OFF-HIGHWAY, 10K GAL, W/CAT 770G TRUCK | 511 HP | D-off | \$732,747 | 149.79 | 28.51 | 45.81 | 5.60 | 33.90 | 722 |
| | T60CA005 | 773G & 12K TANK | TRUCK, WATER, OFF-HIGHWAY, 12K GAL, W/CAT 773G TRUCK | 775 HP | D-off | \$1,032,251 | 205.57 | 40.05 | 64.31 | 7.89 | 51.41 | 1,005 |
| | T60CA006 | 775G & 14K TANK | TRUCK, WATER, OFF-HIGHWAY, 14K GAL, W/CAT 775G TRUCK | 825 HP | D-off | \$1,084,742 | 216.55 | 42.20 | 67.81 | 8.29 | 54.73 | 1,040 |
| | | | KLEIN PRODUCTS, INC. | | | | | | | | | |
| | T60KI001 | KT-50 | TRUCK, WATER, OFF-HIGHWAY, 5,000 GAL, W/CAT 621G TRACTOR | 330 HP | D-off | \$482,242 | 102.23 | 17.95 | 28.51 | 3.69 | 21.89 | 320 |
| | T60KI002 | KT-60 | TRUCK, WATER, OFF-HIGHWAY, 6,000 GAL, W/CAT 621G TRACTOR | 330 HP | D-off | \$354,159 | 84.65 | 12.70 | 19.97 | 2.71 | 21.89 | 580 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|--|---|---|---------------------------------|-------------|--------------------------|----------------------------|---------|---------------------|-------|-------|-------|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>T60</i> | <i>KLEIN PRODUCTS, INC. (continued)</i> | | | | | | | | | | | |
| | T60KI003 | KT-80 | TRUCK, WATER, OFF-HIGHWAY, 8,000 GAL, W/CAT 631G TRACTOR | 462 HP D-off | | \$496,149 | 112.69 | 18.75 | 29.91 | 3.79 | 30.65 | 751 |
| | T60KI004 | KT-100 | TRUCK, WATER, OFF-HIGHWAY, 10,000 GAL, W/CAT 631G TRACTOR | 462 HP D-off | | \$694,813 | 139.95 | 26.89 | 43.15 | 5.31 | 30.65 | 811 |
| | T60KI006 | KT-140 | TRUCK, WATER, OFF-HIGHWAY, 14,000 GAL, W/CAT 651G TRACTOR | 564 HP D-off | | \$1,021,349 | 192.49 | 40.27 | 64.92 | 7.81 | 37.42 | 1,097 |
| T65 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | |
| | SUBCATEGORY 0.10 DRIFTING & TUNNELING DRILLS | | | | | | | | | | | |
| | ATLAS COPCO WAGNER | | | | | | | | | | | |
| | T65WG015 E2C | TUNNELING DRILL, 2 BOOM, 1,205 SF CROSS SECTION, RUBBER TIRED (ADD DRILL BITS AND DRILL STEEL COST) | 212 HP E | 161 HP D-off | \$1,203,897 | 194.67 | 44.97 | 72.35 | 8.79 | 18.52 | 816 | |
| | T65WG016 WE3 C | TUNNELING DRILL, 4 BOOM, 700-2,015 SF CROSS SECTION, RUBBER TIRED (ADD DRILL BITS AND DRILL STEEL COST) | 313 HP E | 241 HP D-off | \$1,647,594 | 268.85 | 61.67 | 99.29 | 12.02 | 27.38 | 981 | |
| | T65WG017 XE3C | TUNNELING DRILL, 4 BOOM, 2,130 SF CROSS SECTION, RUBBER TIRED (ADD DRILL BITS AND DRILL STEEL COST) | 313 HP E | 241 HP D-off | \$1,652,291 | 269.50 | 61.85 | 99.57 | 12.06 | 27.38 | 981 | |
| | T65WG012 L2C | TUNNELING DRILL, 2 BOOM, 560-1,120 SF CROSS SECTION, RUBBER TIRED (ADD DRILL BITS AND DRILL STEEL COST) | 158 HP E | 156 HP D-off | \$1,906,169 | 284.53 | 71.41 | 114.99 | 13.91 | 14.26 | 520 | |
| | T65WG013 WL2C | TUNNELING DRILL, 4 BOOM, 700-1,600 SF CROSS SECTION, RUBBER TIRED (ADD DRILL BITS AND DRILL STEEL COST) | 158 HP E | 156 HP D-off | \$2,866,194 | 416.35 | 107.56 | 173.28 | 20.92 | 14.26 | 728 | |
| | T65WG014 WL4C | TUNNELING DRILL, 4 BOOM, 700-1,650 SF CROSS SECTION, RUBBER TIRED (ADD DRILL BITS AND DRILL STEEL COST) | 380 HP E | 224 HP D-off | \$3,120,093 | 478.83 | 117.12 | 188.69 | 22.77 | 32.37 | 1,058 | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--|--|--|-----------------------|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| W25 WATER & CO₂ BLASTERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | LOW PRESSURE, (< 5,000 PSI) | | | | | | | | | | |
| | SIOUX STEAM CLEANER CORPORATION | | | | | | | | | | | |
| W25SD006 | S1.7 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 100 GPH, 250 PSI, 1.7 GPM | 1 | HP | E | \$6,577 | 7.44 | 0.72 | 1.32 | 0.06 | 0.09 | 4 |
| W25SD007 | S2 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 120 GPH, 250 PSI, 2.0 GPM | 1 | HP | E | \$7,010 | 8.65 | 0.76 | 1.40 | 0.06 | 0.09 | 5 |
| W25SD008 | S2.7 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 160 GPH, 250 PSI, 2.7 GPM | 1 | HP | E | \$7,626 | 9.97 | 0.84 | 1.53 | 0.07 | 0.09 | 6 |
| W25SD001 | C-4-E 2000 | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,000 PSI, 4 GPM | 5 | HP | E | \$6,173 | 3.75 | 0.67 | 1.23 | 0.05 | 0.46 | 4 |
| W25SD005 | C-4-G 2800 | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,800 PSI, 4 GPM | 12 | HP | G | \$7,224 | 6.11 | 0.78 | 1.44 | 0.06 | 2.25 | 4 |
| W25SD003 | C-5-G 3400 | WATER BLASTER, LOW PRESSURE, COLD WATER, 3,400 PSI, 5 GPM | 18 | HP | G | \$9,573 | 8.52 | 1.04 | 1.91 | 0.08 | 3.37 | 5 |
| W25SD004 | H3.5*3000 | WATER BLASTER, LOW PRESSURE, HOT WATER, 3,000 PSI, 3.5 GPM, TRAILER MTD | 8 | HP | G | \$14,022 | 8.64 | 1.50 | 2.76 | 0.12 | 1.50 | 6 |
| W25SD009 | SF11 | WATER BLASTER, LOW PRESSURE, STEAM GENERATOR, 15 PSI, 355 LB/HR STEAM, 55 GAL BOILER | 11 | HP | E | \$16,894 | 15.95 | 1.84 | 3.38 | 0.15 | 1.01 | 9 |
| W25SD002 | EN-140-H4-1800 | WATER BLASTER, LOW PRESSURE, HOT WATER, 1,800 PSI, 2.3 GPM | 3 | HP | E | \$15,935 | 8.41 | 1.74 | 3.19 | 0.14 | 0.28 | 7 |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| W25XX005 | ET-301109D | PRESSURE WASHER, LOW PRESSURE, COLD WATER, 1,000 PSI, 3 GPM | 2 | HP | E | \$1,610 | 1.06 | 0.17 | 0.32 | 0.01 | 0.18 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|------------|---|--------|--|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|-------|-----|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| <i>W25</i> | <i>NO SPECIFIC MANUFACTURER (continued)</i> | | | | | | | | | | | |
| | W25XX006 | 1710 | PRESSURE WASHER, LOW PRESSURE, COLD WATER, 1,000 PSI, 2.75 GPM | 2 HP | E | \$2,511 | 1.52 | 0.27 | 0.50 | 0.02 | 0.18 | 2 |
| | W25XX007 | 1720 | PRESSURE WASHER, LOW PRESSURE, COLD WATER, 2,000 PSI, 3.9 GPM | 6 HP | E | \$3,308 | 2.45 | 0.36 | 0.66 | 0.03 | 0.55 | 3 |
| | W25XX008 | 1745 | PRESSURE WASHER, LOW PRESSURE, COLD WATER, 3,000 PSI, 4.8 GPM | 10 HP | E | \$3,684 | 3.17 | 0.40 | 0.74 | 0.03 | 0.92 | 3 |
| | W25XX009 | 680SS | PRESSURE WASHER, LOW PRESSURE, HOT WATER/STEAM, 1,000 PSI, 3 GPM (OIL FIRED) | 2 HP | E | \$4,110 | 6.41 | 0.45 | 0.82 | 0.04 | 0.18 | 4 |
| | W25XX010 | 1833SS | PRESSURE WASHER, LOW PRESSURE, HOT WATER/STEAM, 3,000 PSI, 6 GPM (OIL FIRED) | 15 HP | E | \$11,801 | 11.99 | 1.28 | 2.36 | 0.10 | 1.38 | 10 |
| | SUBCATEGORY 0.20 | | HIGH PRESSURE, (>= 5,000 PSI) | | | | | | | | | |
| | NLB CORPORATION | | | | | | | | | | | |
| | W25NL001 | 6205E | WATER BLASTER, HIGH PRESSURE, 6,000 PSI, 55 GPM, SKID MTD, W/MODEL 225 PUMP | 200 HP | E | \$96,632 | 77.64 | 10.51 | 19.33 | 0.84 | 18.43 | 76 |
| | W25NL003 | 20145D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 10 GPM, SKID MTD, W/MODEL 125 PUMP | 152 HP | D-off | \$74,351 | 55.79 | 8.08 | 14.87 | 0.64 | 14.64 | 78 |
| | W25NL002 | 20350D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 26 GPM, TRAILER MTD W/MODEL 225 PUMP | 400 HP | D-off | \$127,031 | 110.49 | 13.81 | 25.41 | 1.10 | 38.52 | 140 |
| | W25NL005 | 20755D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 56 GPM, SKID MTD | 750 HP | D-off | \$375,809 | 280.02 | 40.83 | 75.16 | 3.25 | 72.23 | 200 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|-----|--|--------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| | SUBCATEGORY 0.30 STEAM CLEANERS | | | | | | | | | | | |
| | ALKOTA CLEANING SYSTEMS, INC. | | | | | | | | | | | |
| | W25AO002 | 122 | WATER BLASTER, OIL FIRED, STEAM CLEANER, 400 PSI, 1.7 GPM (ADD COST FOR HEATING OIL) | 1 | HP | | 3.19 | 0.50 | 0.92 | 0.04 | 0.09 | 4 |
| | W25AO003 | 181 | WATER BLASTER, LP FIRED, STEAM CLEANER, 250 PSI, 3.0 GPM (ADD COST FOR HEATING LP) | 2 | HP | | 5.15 | 0.90 | 1.65 | 0.07 | 0.18 | 6 |
| | W25AO004 | 240 | WATER BLASTER, OIL FIRED, STEAM CLEANER, 350 PSI, 4.0 GPM (ADD COST FOR HEATING OIL) | 2 | HP | | 4.75 | 0.76 | 1.39 | 0.06 | 0.18 | 7 |
| | W25AO005 | 301 | WATER BLASTER, LP FIRED, STEAM CLEANER, 400 PSI, 5.0 GPM (ADD COST FOR HEATING LP) | 4 | HP | | 9.14 | 1.54 | 2.83 | 0.12 | 0.37 | 14 |
| | W25AO006 | 241 | WATER BLASTER, LP FIRED, STEAM GENERATOR, 100 PSI, 1.0 GPM (ADD COST FOR HEATING LP) | 2 | HP | | 5.99 | 1.08 | 1.98 | 0.09 | 0.18 | 8 |
| | SUBCATEGORY 0.40 CO2 BLASTERS | | | | | | | | | | | |
| | COLD JET | | | | | | | | | | | |
| | W25CJ001 | P750B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 600 LBS/HR, SINGLE HOSE DELIVERY (ADD 65-100 CFM COMPRESSOR) | 20 | HP | | 30.68 | 6.69 | 11.92 | 0.73 | 1.36 | 34 |
| | W25CJ002 | P1500B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 1,200 LBS/HR, SINGLE HOSE DELIVERY (ADD 65-150 CFM COMPRESSOR) | 24 | HP | | 45.74 | 10.12 | 18.03 | 1.10 | 1.63 | 37 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | | | | | | | | | |
|-----|--|-------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|-----|--|--|--|--|--|--|--|--|--|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | | | | | | | | | |
| W25 | <i>COLD JET (continued)</i> | | | 24 HP E | | \$218,589 | 72.40 | 16.36 | 29.15 | 1.78 | 1.63 | 66 | | | | | | | | | |
| | W25CJ003 | P3000B | CARBON DIOXIDE (CO ₂) BLASTER/PELLETIZER, 1,200 LBS/HR, DUAL HOSE DELIVERY (ADD 65-200 CFM COMPRESSOR) | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.50 WET ABRASIVE BLASTING SYSTEM (TORBO) | | | A | | \$21,704 | 2.78 | 0.90 | 1.41 | 0.19 | 0.00 | 4 | | | | | | | | | |
| | KEIZER TECHNOLOGIES AMERICAS, INC | | | | | | | | | | | | | | | | | | | | |
| | W25KZ001 | TORBO M120 | WATER BLASTER, WET ABRASIVE BLASTER, 4.2 CF TANK CAP, 170 PSI, (INCLUDES HOSES & NOZZLE, ADD 350 CFM AIR COMPRESSOR) | | | | | | | | | | | | | | | | | | |
| | W25KZ006 | TORBO XL320 | WATER BLASTER, WET ABRASIVE BLASTER, 19.0 CF TANK CAP, 170 PSI, (INCLUDES HOSES & NOZZLE, ADD 385 CFM AIR COMPRESSOR) | | | | | | | | | | | | | | | | | | |
| W30 | WATER TANKS | | | | | | | | | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 PORTABLE WITH WHEELS | | | 6 HP G | | \$53,386 | 7.87 | 2.10 | 3.38 | 0.41 | 0.71 | 170 | | | | | | | | | |
| | KLEIN PRODUCTS, INC. | | | | | | | | | | | | | | | | | | | | |
| | W30KI007 | KPT-100 | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 10,000 GAL, 10" PIPE | | | | | | | | | | | | | | | | | | |
| | W30KI008 | KPT-120 | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 12,000 GAL, 10" PIPE | | | | | | | | | | | | | | | | | | |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT |
|--------------------|---|---------------------|--|---------------------------------|----------|--------------------------|----------------------------|---------|---------------------|------|------|-----|
| | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | |
| W35 WELDERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 ENGINE DRIVEN | | | | | | | | | | | |
| | NO SPECIFIC MANUFACTURER | | | | | | | | | | | |
| | W35XX020 | GAS 140 AC-CC | WELDER, ENGINE DRIVEN, GAS, AC, 140 AMP, 4 KW, PORTABLE, SKID MTD | 9 | HP G | \$1,646 | 1.89 | 0.09 | 0.15 | 0.01 | 1.41 | 2 |
| | W35XX021 | GAS 225 DC-CC/CV | WELDER, ENGINE DRIVEN, GAS, AC/DC-CC, 225 AMP, 10.5 KW, PORTABLE, SKID MTD | 23 | HP G | \$3,523 | 4.70 | 0.20 | 0.33 | 0.03 | 3.61 | 6 |
| | W35XX022 | GAS 250 AC/DC-CC/CV | WELDER, ENGINE DRIVEN, GAS, AC/DC-CC/CV, 250 AMP, 11 KW, TRAILER MTD | 23 | HP G | \$6,094 | 5.21 | 0.33 | 0.55 | 0.05 | 3.61 | 6 |
| | W35XX023 | DIESEL 300 DC-CC | WELDER, ENGINE DRIVEN, DIESEL, DC-CC, 300 AMP, 3 KW, TRAILER MTD | 25 | HP D-off | \$18,675 | 5.98 | 1.02 | 1.73 | 0.15 | 2.01 | 19 |
| | W35XX024 | DIESEL 450 DC-CC/CV | WELDER, ENGINE DRIVEN, DIESEL, DC-CC/CV, 450 AMP, 12 KW, TRAILER MTD | 33 | HP D-off | \$18,447 | 6.65 | 1.01 | 1.71 | 0.15 | 2.66 | 17 |
| | W35XX025 | DIESEL 500 DC-CC/CV | WELDER, ENGINE DRIVEN, DIESEL, DC-CC/CV, 500 AMP, 13 KW, TRAILER MTD | 45 | HP D-off | \$22,651 | 8.60 | 1.23 | 2.10 | 0.18 | 3.66 | 18 |
| | SUBCATEGORY 0.20 ELECTRIC DRIVEN | | | | | | | | | | | |
| | LINCOLN ELECTRIC COMPANY | | | | | | | | | | | |
| | W35LC021 | Tomahawk 1000 | WELDER, ELECTRIC DRIVEN, 60 AMP, PLASMA CUTTER WITH 25' HAND TORCH | 20 | HP E | \$3,144 | 1.56 | 0.24 | 0.42 | 0.03 | 0.58 | 1 |
| | W35LC018 | SP-180T | WELDER, ELECTRIC DRIVEN, 30-180 AMP, WIRE FEEDER | 5 | HP E | \$881 | 0.43 | 0.07 | 0.12 | 0.01 | 0.15 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 4 | | | ENGINE HORSEPOWER AND FUEL TYPE | | VALUE (TEV) 2013 (\$) | TOTAL HOURLY RATES (\$/HR) | | ADJUSTABLE ELEMENTS | | | CWT | |
|------------|---|-------------------|---|---------------------------------|---------|--------------------------|----------------------------|---------|---------------------|------|------|------|---|
| | | | | MAIN | CARRIER | | AVERAGE | STANDBY | DEPR | FCCM | FUEL | | |
| <i>W35</i> | <i>LINCOLN ELECTRIC COMPANY (continued)</i> | | | | | | | | | | | | |
| | W35LC012 | IDEAL ARC R3R-400 | WELDER, ELECTRIC DRIVEN, 400 AMP, STICK | 35 | HP | E | \$5,017 | 2.63 | 0.38 | 0.67 | 0.04 | 1.02 | 5 |
| | W35LC013 | IDEAL ARC R3R-500 | WELDER, ELECTRIC DRIVEN, 500 AMP, STICK | 41 | HP | E | \$5,382 | 2.95 | 0.40 | 0.72 | 0.04 | 1.19 | 5 |

Table 2-2. Hourly Rate Elements

This Table Contains All Hourly Rate Elements as

Described in Chapter 2

for

Average and Severe Operating Conditions

Refer to Chapter 2, Section II. Operating Condition

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A10 | | | | | | | | | | | | | | | | | |
| | A10AR001 | 0.47 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.88 | | | | | | | | |
| | A10AR002 | 2.30 | 0.14 | 0.00 | 0.20 | 0.00 | 0.00 | 1.85 | 4.49 | | | | | | | | |
| | A10PV001 | 0.52 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.97 | | | | | | | | |
| | A10RS003 | 14.64 | 1.18 | 11.64 | 1.22 | 0.47 | 0.07 | 14.79 | 44.01 | | | | | | | | |
| | A10RS004 | 14.77 | 1.19 | 11.64 | 1.22 | 0.47 | 0.07 | 14.91 | 44.27 | | | | | | | | |
| | A10RS005 | 14.83 | 1.19 | 11.64 | 1.22 | 0.47 | 0.07 | 14.97 | 44.39 | | | | | | | | |
| | A10RS006 | 14.85 | 1.19 | 11.64 | 1.22 | 0.47 | 0.07 | 15.00 | 44.44 | | | | | | | | |
| | A10RS007 | 15.04 | 1.21 | 11.64 | 1.22 | 0.47 | 0.07 | 15.19 | 44.84 | | | | | | | | |
| | A10SE001 | 1.81 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 3.38 | | | | | | | | |
| | A10SE002 | 2.13 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.72 | 3.98 | | | | | | | | |
| | A10SE003 | 2.95 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 5.51 | | | | | | | | |
| A15 | | | | | | | | | | | | | | | | | |
| | A15DP001 | 2.39 | 0.23 | 4.71 | 0.58 | 0.04 | 0.01 | 2.40 | 10.36 | | | | | | | | |
| | A15DP002 | 5.41 | 0.53 | 13.46 | 1.65 | 0.04 | 0.01 | 5.43 | 26.53 | | | | | | | | |
| | A15DP003 | 6.66 | 0.65 | 16.63 | 2.03 | 0.06 | 0.01 | 6.69 | 32.73 | | | | | | | | |
| | A15DP004 | 6.66 | 0.65 | 16.63 | 2.03 | 0.06 | 0.01 | 6.69 | 32.73 | | | | | | | | |
| | A15DP010 | 16.45 | 1.60 | 38.45 | 4.70 | 0.24 | 0.04 | 16.54 | 78.02 | | | | | | | | |
| | A15DP011 | 6.96 | 0.68 | 16.63 | 2.03 | 0.09 | 0.01 | 6.99 | 33.39 | | | | | | | | |
| | A15DP012 | 10.23 | 1.00 | 25.95 | 3.18 | 0.12 | 0.02 | 10.28 | 50.78 | | | | | | | | |
| | A15DP013 | 10.23 | 1.00 | 25.95 | 3.18 | 0.12 | 0.02 | 10.28 | 50.78 | | | | | | | | |
| | A15DP014 | 12.59 | 1.22 | 29.32 | 3.59 | 0.12 | 0.02 | 12.65 | 59.51 | | | | | | | | |
| | A15DP015 | 12.59 | 1.22 | 29.32 | 3.59 | 0.12 | 0.02 | 12.65 | 59.51 | | | | | | | | |
| | A15DP016 | 22.87 | 2.22 | 44.68 | 5.47 | 0.11 | 0.02 | 22.97 | 98.34 | | | | | | | | |
| | A15DP017 | 2.97 | 0.29 | 5.70 | 0.70 | 0.05 | 0.01 | 2.98 | 12.70 | | | | | | | | |
| | A15SR002 | 26.92 | 2.61 | 41.60 | 5.09 | 0.21 | 0.03 | 27.04 | 103.50 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A15 | cont. | | | | | | | | | | | | | | | | |
| | A15SR004 | 2.11 | 0.21 | 4.70 | 0.58 | 0.03 | 0.00 | 2.13 | 9.76 | | | | | | | | |
| | A15SR005 | 2.79 | 0.27 | 5.70 | 0.70 | 0.05 | 0.01 | 2.81 | 12.33 | | | | | | | | |
| | A15SR006 | 1.01 | 0.10 | 5.86 | 0.72 | 0.06 | 0.01 | 1.02 | 8.78 | | | | | | | | |
| | A15SR007 | 1.01 | 0.10 | 5.93 | 0.73 | 0.06 | 0.01 | 1.02 | 8.86 | | | | | | | | |
| | A15SR008 | 5.26 | 0.51 | 9.40 | 1.15 | 0.14 | 0.02 | 5.29 | 21.77 | | | | | | | | |
| | A15SR009 | 5.26 | 0.51 | 9.40 | 1.15 | 0.14 | 0.02 | 5.29 | 21.77 | | | | | | | | |
| | A15SR010 | 14.22 | 1.39 | 23.11 | 2.83 | 0.34 | 0.05 | 14.31 | 56.25 | | | | | | | | |
| | A15SR011 | 15.20 | 1.49 | 23.11 | 2.83 | 0.34 | 0.05 | 15.29 | 58.31 | | | | | | | | |
| | A15SR012 | 15.20 | 1.49 | 23.11 | 2.83 | 0.34 | 0.05 | 15.29 | 58.31 | | | | | | | | |
| | A15SR013 | 24.86 | 2.41 | 36.59 | 4.48 | 0.14 | 0.02 | 24.96 | 93.46 | | | | | | | | |
| | A15SR014 | 24.84 | 2.41 | 41.60 | 5.09 | 0.21 | 0.03 | 24.95 | 99.13 | | | | | | | | |
| | A15XX019 | 1.09 | 0.11 | 3.11 | 0.43 | 0.00 | 0.00 | 1.10 | 5.84 | | | | | | | | |
| | A15XX020 | 0.74 | 0.07 | 2.67 | 0.37 | 0.00 | 0.00 | 0.75 | 4.60 | | | | | | | | |
| | A15XX021 | 1.08 | 0.11 | 1.62 | 0.20 | 0.04 | 0.01 | 1.09 | 4.15 | | | | | | | | |
| | A15XX022 | 1.94 | 0.19 | 2.70 | 0.33 | 0.06 | 0.01 | 1.95 | 7.18 | | | | | | | | |
| | A15XX023 | 1.38 | 0.14 | 9.64 | 1.35 | 0.06 | 0.01 | 1.39 | 13.97 | | | | | | | | |
| | A15XX024 | 2.19 | 0.21 | 3.85 | 0.47 | 0.06 | 0.01 | 2.20 | 8.99 | | | | | | | | |
| | A15XX025 | 1.51 | 0.15 | 8.89 | 1.24 | 0.06 | 0.01 | 1.52 | 13.38 | | | | | | | | |
| | A15XX026 | 2.45 | 0.24 | 5.39 | 0.66 | 0.06 | 0.01 | 2.47 | 11.28 | | | | | | | | |
| | A15XX027 | 1.57 | 0.15 | 13.34 | 1.86 | 0.06 | 0.01 | 1.58 | 18.57 | | | | | | | | |
| | A15XX028 | 2.38 | 0.23 | 3.77 | 0.46 | 0.06 | 0.01 | 2.40 | 9.31 | | | | | | | | |
| | A15XX029 | 1.70 | 0.17 | 10.38 | 1.45 | 0.06 | 0.01 | 1.71 | 15.48 | | | | | | | | |
| | A15XX030 | 2.96 | 0.29 | 5.70 | 0.70 | 0.06 | 0.01 | 2.98 | 12.70 | | | | | | | | |
| | A15XX031 | 5.98 | 0.58 | 9.40 | 1.15 | 0.07 | 0.01 | 6.01 | 23.20 | | | | | | | | |
| | A15XX032 | 5.40 | 0.53 | 10.79 | 1.32 | 0.06 | 0.01 | 5.43 | 23.54 | | | | | | | | |
| | A15XX033 | 6.65 | 0.65 | 13.33 | 1.63 | 0.07 | 0.01 | 6.68 | 29.02 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A15 | cont. | | | | | | | | | | | | | | | | |
| | A15XX034 | 15.07 | 1.47 | 23.11 | 2.83 | 0.34 | 0.05 | 15.16 | 58.03 | | | | | | | | |
| | A15XX035 | 10.25 | 1.00 | 20.80 | 2.55 | 0.09 | 0.01 | 10.29 | 44.99 | | | | | | | | |
| | A15XX036 | 10.25 | 1.00 | 20.80 | 2.55 | 0.09 | 0.01 | 10.29 | 44.99 | | | | | | | | |
| | A15XX037 | 12.49 | 1.22 | 23.88 | 2.92 | 0.34 | 0.05 | 12.57 | 53.47 | | | | | | | | |
| | A15XX038 | 16.07 | 1.57 | 23.11 | 2.83 | 0.34 | 0.05 | 16.16 | 60.13 | | | | | | | | |
| | A15XX039 | 24.83 | 2.41 | 36.59 | 4.48 | 0.28 | 0.04 | 24.95 | 93.58 | | | | | | | | |
| | A15XX040 | 22.71 | 2.21 | 38.52 | 4.71 | 0.34 | 0.05 | 22.83 | 91.37 | | | | | | | | |
| | A15XX041 | 0.14 | 0.01 | 0.58 | 0.07 | 0.00 | 0.00 | 0.12 | 0.92 | | | | | | | | |
| | A15XX042 | 0.17 | 0.02 | 0.58 | 0.07 | 0.00 | 0.00 | 0.14 | 0.98 | | | | | | | | |
| | A15XX043 | 0.20 | 0.02 | 0.77 | 0.09 | 0.00 | 0.00 | 0.16 | 1.24 | | | | | | | | |
| | A15XX044 | 0.66 | 0.07 | 1.16 | 0.14 | 0.00 | 0.00 | 0.54 | 2.57 | | | | | | | | |
| | A15XX045 | 0.84 | 0.09 | 1.93 | 0.24 | 0.00 | 0.00 | 0.69 | 3.79 | | | | | | | | |
| | A15XX046 | 0.92 | 0.10 | 2.31 | 0.28 | 0.00 | 0.00 | 0.75 | 4.36 | | | | | | | | |
| A20 | | | | | | | | | | | | | | | | | |
| | A20B1001 | 3.54 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 6.33 | 10.05 | | | | | | | | |
| | A20CK001 | 0.25 | 0.01 | 0.00 | 0.12 | 0.00 | 0.00 | 0.45 | 0.83 | | | | | | | | |
| | A20CK002 | 0.14 | 0.01 | 0.00 | 0.10 | 0.00 | 0.00 | 0.26 | 0.51 | | | | | | | | |
| | A20CK003 | 0.28 | 0.01 | 0.00 | 0.17 | 0.00 | 0.00 | 0.50 | 0.96 | | | | | | | | |
| | A20CK005 | 0.39 | 0.02 | 0.00 | 0.19 | 0.00 | 0.00 | 0.70 | 1.30 | | | | | | | | |
| | A20CK006 | 0.15 | 0.01 | 0.00 | 0.15 | 0.00 | 0.00 | 0.27 | 0.58 | | | | | | | | |
| | A20CK008 | 0.21 | 0.01 | 0.00 | 0.20 | 0.00 | 0.00 | 0.38 | 0.80 | | | | | | | | |
| | A20CK010 | 0.23 | 0.01 | 0.00 | 0.25 | 0.00 | 0.00 | 0.41 | 0.90 | | | | | | | | |
| | A20CM010 | 0.84 | 0.04 | 0.00 | 0.06 | 0.00 | 0.00 | 1.49 | 2.43 | | | | | | | | |
| | A20CM011 | 0.91 | 0.05 | 0.00 | 0.06 | 0.00 | 0.00 | 1.63 | 2.65 | | | | | | | | |
| | A20CM012 | 1.03 | 0.05 | 0.00 | 0.13 | 0.00 | 0.00 | 1.83 | 3.04 | | | | | | | | |
| | A20CM013 | 4.15 | 0.22 | 0.00 | 0.28 | 0.11 | 0.02 | 7.43 | 12.21 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A20 | cont. | | | | | | | | | | | | | | | | |
| | A20CM014 | 4.59 | 0.24 | 0.00 | 0.41 | 0.11 | 0.02 | 8.21 | 13.58 | | | | | | | | |
| | A20CM015 | 4.90 | 0.26 | 0.00 | 0.50 | 0.11 | 0.02 | 8.77 | 14.56 | | | | | | | | |
| | A20CM017 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.55 | | | | | | | | |
| | A20CM018 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.55 | | | | | | | | |
| | A20CM019 | 0.26 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.74 | | | | | | | | |
| | A20CM020 | 0.20 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.59 | | | | | | | | |
| | A20WC002 | 0.22 | 0.01 | 0.13 | 0.20 | 0.00 | 0.00 | 0.40 | 0.96 | | | | | | | | |
| | A20WC004 | 0.64 | 0.03 | 0.51 | 0.07 | 0.00 | 0.00 | 1.15 | 2.40 | | | | | | | | |
| | A20XX001 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.51 | | | | | | | | |
| | A20XX002 | 0.22 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.60 | | | | | | | | |
| | A20XX003 | 0.27 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.73 | | | | | | | | |
| | A20XX004 | 0.35 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.59 | 0.95 | | | | | | | | |
| | A20XX005 | 0.49 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 1.33 | | | | | | | | |
| | A20XX006 | 0.86 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 1.45 | 2.34 | | | | | | | | |
| | A20XX007 | 0.73 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 1.99 | | | | | | | | |
| | A20XX008 | 2.63 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 4.45 | 7.16 | | | | | | | | |
| | A20XX021 | 0.24 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.68 | | | | | | | | |
| | A20XX022 | 0.20 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.57 | | | | | | | | |
| | A20XX023 | 0.25 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.71 | | | | | | | | |
| | A20XX024 | 0.27 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.75 | | | | | | | | |
| | A20XX025 | 0.40 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 1.13 | | | | | | | | |
| | A20XX026 | 0.14 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.40 | | | | | | | | |
| A25 | | | | | | | | | | | | | | | | | |
| | A25RS006 | 13.75 | 0.70 | 0.00 | 1.16 | 0.00 | 0.00 | 13.93 | 29.54 | | | | | | | | |
| | A25RS008 | 14.87 | 0.76 | 0.00 | 1.80 | 0.00 | 0.00 | 15.07 | 32.50 | | | | | | | | |
| | A25XX001 | 11.47 | 0.59 | 0.00 | 0.64 | 0.00 | 0.00 | 11.62 | 24.32 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A25 | cont. | | | | | | | | | | | | | | | | |
| | A25XX002 | 13.81 | 0.71 | 0.00 | 1.51 | 0.00 | 0.00 | 13.99 | 30.02 | | | | | | | | |
| | A25XX003 | 14.89 | 0.76 | 0.00 | 2.09 | 0.00 | 0.00 | 15.09 | 32.83 | | | | | | | | |
| A30 | | | | | | | | | | | | | | | | | |
| | A30BG003 | 39.27 | 3.08 | 16.30 | 3.49 | 5.25 | 0.81 | 50.24 | 118.44 | | | | | | | | |
| | A30BG004 | 42.09 | 3.03 | 8.15 | 2.50 | 0.00 | 0.00 | 53.13 | 108.90 | | | | | | | | |
| | A30BG005 | 44.78 | 3.22 | 16.30 | 3.49 | 0.00 | 0.00 | 56.53 | 124.32 | | | | | | | | |
| | A30BK018 | 45.39 | 3.26 | 13.39 | 1.64 | 0.00 | 0.00 | 57.30 | 120.98 | | | | | | | | |
| | A30BK023 | 38.75 | 2.79 | 10.55 | 1.29 | 0.00 | 0.00 | 48.91 | 102.29 | | | | | | | | |
| | A30CA001 | 33.95 | 2.47 | 10.33 | 1.26 | 1.41 | 0.22 | 42.95 | 92.59 | | | | | | | | |
| | A30CA002 | 29.83 | 2.30 | 12.66 | 1.55 | 4.29 | 0.66 | 38.07 | 89.36 | | | | | | | | |
| | A30CA003 | 38.15 | 2.78 | 10.33 | 1.26 | 1.41 | 0.22 | 48.24 | 102.39 | | | | | | | | |
| | A30CA007 | 21.95 | 2.17 | 7.10 | 0.87 | 0.80 | 0.12 | 23.67 | 56.68 | | | | | | | | |
| | A30CA008 | 39.71 | 3.02 | 16.30 | 1.99 | 4.46 | 0.69 | 50.57 | 116.74 | | | | | | | | |
| | A30CA013 | 37.67 | 2.71 | 12.66 | 1.55 | 0.00 | 0.00 | 47.56 | 102.15 | | | | | | | | |
| | A30CA016 | 54.04 | 3.89 | 16.37 | 2.00 | 0.00 | 0.00 | 68.21 | 144.51 | | | | | | | | |
| | A30GC002 | 4.63 | 0.33 | 1.82 | 0.22 | 0.00 | 0.00 | 5.85 | 12.85 | | | | | | | | |
| | A30GC004 | 6.65 | 0.48 | 2.98 | 0.36 | 0.00 | 0.00 | 8.39 | 18.86 | | | | | | | | |
| | A30JP001 | 0.56 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 1.21 | | | | | | | | |
| | A30JP002 | 1.63 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 3.54 | | | | | | | | |
| | A30LD001 | 15.57 | 1.54 | 8.62 | 1.05 | 1.13 | 0.17 | 16.79 | 44.87 | | | | | | | | |
| | A30MP001 | 18.80 | 1.38 | 5.82 | 0.71 | 0.48 | 0.07 | 23.80 | 51.06 | | | | | | | | |
| | A30MP002 | 20.24 | 1.49 | 7.28 | 0.89 | 0.63 | 0.10 | 25.63 | 56.26 | | | | | | | | |
| | A30RT001 | 33.70 | 3.46 | 19.90 | 2.44 | 6.98 | 1.08 | 36.64 | 104.20 | | | | | | | | |
| | A30RT007 | 38.31 | 3.78 | 19.90 | 2.44 | 2.35 | 0.36 | 41.31 | 108.45 | | | | | | | | |
| | A30WR001 | 12.92 | 1.26 | 7.63 | 0.93 | 0.15 | 0.02 | 13.90 | 36.81 | | | | | | | | |
| | A30WR002 | 35.09 | 3.58 | 19.90 | 2.44 | 6.43 | 0.99 | 38.09 | 106.52 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A30 | cont. | | | | | | | | | | | | | | | | |
| | A30XX001 | 12.92 | 1.51 | 6.83 | 0.70 | 0.58 | 0.09 | 9.57 | 32.20 | | | | | | | | |
| | A30XX002 | 17.68 | 2.03 | 6.83 | 0.70 | 0.00 | 0.00 | 13.04 | 40.28 | | | | | | | | |
| A35 | | | | | | | | | | | | | | | | | |
| | A35AE001 | 0.60 | 0.04 | 0.64 | 2.04 | 0.09 | 0.01 | 0.66 | 4.08 | | | | | | | | |
| | A35AE002 | 0.75 | 0.05 | 0.64 | 2.74 | 0.03 | 0.00 | 0.82 | 5.03 | | | | | | | | |
| | A35AE003 | 1.00 | 0.06 | 0.64 | 3.09 | 0.03 | 0.00 | 1.08 | 5.90 | | | | | | | | |
| | A35AE004 | 1.23 | 0.08 | 0.64 | 3.99 | 0.03 | 0.00 | 1.33 | 7.30 | | | | | | | | |
| | A35AE005 | 1.45 | 0.09 | 0.64 | 6.19 | 0.07 | 0.01 | 1.58 | 10.03 | | | | | | | | |
| A40 | | | | | | | | | | | | | | | | | |
| | A40CA001 | 54.77 | 3.34 | 21.67 | 2.65 | 0.00 | 0.00 | 73.46 | 155.89 | | | | | | | | |
| | A40CA008 | 89.91 | 5.49 | 55.37 | 6.78 | 0.00 | 0.00 | 120.60 | 278.15 | | | | | | | | |
| | A40CA009 | 105.13 | 6.42 | 62.60 | 7.66 | 0.00 | 0.00 | 141.00 | 322.81 | | | | | | | | |
| | A40CW001 | 123.50 | 7.54 | 91.49 | 11.20 | 0.00 | 0.00 | 165.64 | 399.37 | | | | | | | | |
| | A40RT008 | 56.60 | 3.46 | 31.30 | 3.83 | 0.00 | 0.00 | 75.92 | 171.11 | | | | | | | | |
| | A40RT009 | 57.67 | 3.52 | 31.30 | 3.83 | 0.00 | 0.00 | 77.35 | 173.67 | | | | | | | | |
| | A40RT010 | 71.84 | 4.39 | 59.71 | 7.31 | 0.00 | 0.00 | 96.35 | 239.60 | | | | | | | | |
| | A40RT011 | 83.81 | 5.12 | 67.41 | 8.25 | 0.00 | 0.00 | 112.41 | 277.00 | | | | | | | | |
| | A40RT012 | 100.27 | 6.12 | 67.41 | 8.25 | 0.00 | 0.00 | 134.49 | 316.54 | | | | | | | | |
| A45 | | | | | | | | | | | | | | | | | |
| | A45AE001 | 2.10 | 0.11 | 0.00 | 7.10 | 0.04 | 0.01 | 2.55 | 11.91 | | | | | | | | |
| | A45AE002 | 3.21 | 0.17 | 0.00 | 14.25 | 0.07 | 0.01 | 3.90 | 21.61 | | | | | | | | |
| | A45AE003 | 7.44 | 0.39 | 0.00 | 16.85 | 0.07 | 0.01 | 9.02 | 33.78 | | | | | | | | |
| | A45RS001 | 12.56 | 0.66 | 4.91 | 1.10 | 0.06 | 0.01 | 15.19 | 34.49 | | | | | | | | |
| | A45RS002 | 33.04 | 1.72 | 20.13 | 2.96 | 0.00 | 0.00 | 39.89 | 97.74 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A45 | cont. | | | | | | | | | | | | | | | | |
| | A45SE003 | 7.58 | 0.40 | 1.99 | 2.24 | 0.08 | 0.01 | 9.17 | 21.47 | | | | | | | | |
| | A45SE004 | 4.45 | 0.25 | 1.67 | 0.73 | 0.18 | 0.03 | 5.45 | 12.76 | | | | | | | | |
| B10 | | | | | | | | | | | | | | | | | |
| | B10CC007 | 7.09 | 0.57 | 2.32 | 3.32 | 0.17 | 0.03 | 9.56 | 23.06 | | | | | | | | |
| | B10CC008 | 5.94 | 0.52 | 20.97 | 6.43 | 1.11 | 0.17 | 8.14 | 43.28 | | | | | | | | |
| | B10CC009 | 7.20 | 0.63 | 25.72 | 7.34 | 1.35 | 0.21 | 9.88 | 52.33 | | | | | | | | |
| | B10CC010 | 8.17 | 0.70 | 25.72 | 7.59 | 1.11 | 0.17 | 11.14 | 54.60 | | | | | | | | |
| | B10CC012 | 2.56 | 0.20 | 2.32 | 1.07 | 0.00 | 0.00 | 3.44 | 9.59 | | | | | | | | |
| | B10CC013 | 3.36 | 0.26 | 2.32 | 1.12 | 0.00 | 0.00 | 4.50 | 11.56 | | | | | | | | |
| | B10CC014 | 0.59 | 0.05 | 0.32 | 0.66 | 0.00 | 0.00 | 0.79 | 2.41 | | | | | | | | |
| | B10CC015 | 1.74 | 0.18 | 1.01 | 1.50 | 0.56 | 0.09 | 2.47 | 7.55 | | | | | | | | |
| | B10CL006 | 24.66 | 2.01 | 7.57 | 5.72 | 0.88 | 0.14 | 33.28 | 74.26 | | | | | | | | |
| | B10CL015 | 28.32 | 2.29 | 1.89 | 3.43 | 0.80 | 0.12 | 38.18 | 75.03 | | | | | | | | |
| | B10CL021 | 9.44 | 0.78 | 2.21 | 1.09 | 0.51 | 0.08 | 12.79 | 26.90 | | | | | | | | |
| | B10CL025 | 50.07 | 3.97 | 12.61 | 6.20 | 0.18 | 0.03 | 67.20 | 140.26 | | | | | | | | |
| | B10CL027 | 4.67 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.27 | 11.31 | | | | | | | | |
| | B10CL032 | 0.61 | 0.05 | 0.63 | 0.31 | 0.00 | 0.00 | 0.81 | 2.41 | | | | | | | | |
| | B10CL034 | 1.21 | 0.10 | 1.26 | 0.62 | 0.00 | 0.00 | 1.63 | 4.82 | | | | | | | | |
| | B10CL036 | 0.51 | 0.04 | 0.50 | 0.25 | 0.00 | 0.00 | 0.68 | 1.98 | | | | | | | | |
| | B10CL040 | 0.70 | 0.06 | 1.26 | 0.62 | 0.00 | 0.00 | 0.94 | 3.58 | | | | | | | | |
| | B10CL042 | 0.46 | 0.04 | 0.32 | 0.16 | 0.00 | 0.00 | 0.62 | 1.60 | | | | | | | | |
| | B10CL045 | 0.62 | 0.05 | 0.63 | 0.31 | 0.00 | 0.00 | 0.84 | 2.45 | | | | | | | | |
| | B10EM001 | 49.16 | 3.99 | 3.22 | 2.95 | 1.50 | 0.23 | 66.30 | 127.35 | | | | | | | | |
| | B10EM002 | 3.30 | 0.27 | 0.63 | 1.31 | 0.07 | 0.01 | 4.45 | 10.04 | | | | | | | | |
| | B10EM003 | 3.56 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 4.77 | 8.61 | | | | | | | | |
| | B10KJ001 | 27.78 | 2.75 | 8.20 | 4.03 | 0.95 | 0.15 | 37.45 | 81.31 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B10 | cont. | | | | | | | | | | | | | | | | |
| | B10KJ002 | 27.39 | 2.72 | 13.87 | 6.81 | 1.04 | 0.16 | 36.94 | 88.93 | | | | | | | | |
| | B10RC006 | 21.62 | 1.77 | 2.87 | 5.91 | 0.85 | 0.13 | 29.20 | 62.35 | | | | | | | | |
| | B10RC007 | 16.25 | 1.30 | 0.95 | 2.97 | 0.28 | 0.04 | 21.87 | 43.66 | | | | | | | | |
| | B10RC008 | 28.32 | 2.28 | 1.89 | 3.43 | 0.57 | 0.09 | 38.13 | 74.71 | | | | | | | | |
| | B10RC016 | 26.77 | 2.18 | 4.73 | 7.82 | 0.89 | 0.14 | 36.12 | 78.65 | | | | | | | | |
| | B10RC027 | 17.13 | 1.35 | 2.52 | 3.24 | 0.00 | 0.00 | 22.97 | 47.21 | | | | | | | | |
| | B10RC028 | 19.24 | 1.52 | 3.78 | 4.11 | 0.00 | 0.00 | 25.80 | 54.45 | | | | | | | | |
| | B10RC029 | 21.74 | 1.72 | 5.04 | 4.98 | 0.00 | 0.00 | 29.16 | 62.64 | | | | | | | | |
| | B10RC030 | 23.69 | 1.87 | 6.31 | 6.85 | 0.00 | 0.00 | 31.78 | 70.50 | | | | | | | | |
| | B10RC031 | 25.01 | 1.97 | 7.57 | 7.72 | 0.00 | 0.00 | 33.55 | 75.82 | | | | | | | | |
| | B10RC032 | 23.88 | 1.95 | 3.15 | 6.05 | 0.89 | 0.14 | 32.24 | 68.30 | | | | | | | | |
| | B10SN031 | 7.94 | 0.69 | 1.58 | 2.13 | 0.83 | 0.13 | 10.86 | 24.16 | | | | | | | | |
| | B10SN032 | 18.79 | 1.54 | 2.84 | 3.15 | 0.85 | 0.13 | 25.41 | 52.71 | | | | | | | | |
| | B10SN033 | 16.00 | 1.32 | 1.89 | 2.43 | 0.81 | 0.13 | 21.66 | 44.24 | | | | | | | | |
| | B10SN034 | 17.86 | 1.47 | 1.26 | 2.12 | 0.85 | 0.13 | 24.16 | 47.85 | | | | | | | | |
| | B10SN035 | 18.84 | 1.55 | 1.89 | 2.58 | 0.85 | 0.13 | 25.48 | 51.32 | | | | | | | | |
| B15 | | | | | | | | | | | | | | | | | |
| | B15BM001 | 6.52 | 0.43 | 6.62 | 0.81 | 0.00 | 0.00 | 6.19 | 20.57 | | | | | | | | |
| | B15EC001 | 31.57 | 2.10 | 5.97 | 0.73 | 0.72 | 0.11 | 30.03 | 71.23 | | | | | | | | |
| | B15EC002 | 21.41 | 1.42 | 6.63 | 0.81 | 0.37 | 0.06 | 20.36 | 51.06 | | | | | | | | |
| | B15EC003 | 30.47 | 2.03 | 19.04 | 2.33 | 0.72 | 0.11 | 28.98 | 83.68 | | | | | | | | |
| | B15EC004 | 32.63 | 2.14 | 13.20 | 1.61 | 0.00 | 0.00 | 31.00 | 80.58 | | | | | | | | |
| | B15LS001 | 2.89 | 0.19 | 2.05 | 0.25 | 0.09 | 0.01 | 2.75 | 8.23 | | | | | | | | |
| | B15LS002 | 5.71 | 0.38 | 6.12 | 0.75 | 0.12 | 0.02 | 5.43 | 18.53 | | | | | | | | |
| | B15MB001 | 0.89 | 0.06 | 0.00 | 0.10 | 0.00 | 0.00 | 0.84 | 1.89 | | | | | | | | |
| | B15MB002 | 0.86 | 0.06 | 0.00 | 0.14 | 0.00 | 0.00 | 0.81 | 1.87 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B15 | cont. | | | | | | | | | | | | | | | | |
| | B15MB003 | 1.86 | 0.12 | 0.00 | 0.24 | 0.00 | 0.00 | 1.77 | 3.99 | | | | | | | | |
| | B15MB004 | 2.75 | 0.18 | 3.09 | 0.32 | 0.04 | 0.01 | 2.62 | 9.01 | | | | | | | | |
| | B15RS001 | 5.96 | 0.39 | 6.12 | 0.75 | 0.09 | 0.01 | 5.66 | 18.98 | | | | | | | | |
| | B15RS005 | 7.53 | 0.50 | 6.12 | 0.75 | 0.13 | 0.02 | 7.16 | 22.21 | | | | | | | | |
| | B15TB001 | 2.69 | 0.18 | 2.45 | 0.30 | 0.16 | 0.02 | 2.57 | 8.37 | | | | | | | | |
| B20 | B15TB002 | 2.71 | 0.18 | 2.45 | 0.30 | 0.16 | 0.02 | 2.58 | 8.40 | | | | | | | | |
| | B20BN001 | 1.51 | 0.10 | 3.47 | 0.48 | 0.03 | 0.00 | 1.62 | 7.21 | | | | | | | | |
| | B20BN002 | 2.52 | 0.17 | 3.25 | 0.40 | 0.03 | 0.00 | 2.70 | 9.07 | | | | | | | | |
| | B20BN003 | 4.69 | 0.31 | 10.93 | 1.53 | 0.03 | 0.00 | 5.02 | 22.51 | | | | | | | | |
| | B20BN005 | 4.96 | 0.33 | 16.72 | 2.34 | 0.03 | 0.00 | 5.31 | 29.69 | | | | | | | | |
| | B20BN006 | 7.36 | 0.49 | 14.13 | 1.73 | 0.03 | 0.00 | 7.87 | 31.61 | | | | | | | | |
| | B20BN007 | 7.53 | 0.50 | 11.48 | 1.40 | 0.10 | 0.02 | 8.06 | 29.09 | | | | | | | | |
| | B20MQ001 | 5.55 | 0.37 | 10.76 | 1.32 | 0.04 | 0.01 | 5.94 | 23.99 | | | | | | | | |
| | B20MQ003 | 6.75 | 0.45 | 11.54 | 1.41 | 0.13 | 0.02 | 7.22 | 27.52 | | | | | | | | |
| | B20MQ004 | 8.40 | 0.56 | 18.24 | 2.23 | 0.26 | 0.04 | 9.00 | 38.73 | | | | | | | | |
| B25 | B20MQ005 | 17.81 | 1.18 | 26.54 | 4.75 | 0.26 | 0.04 | 19.06 | 69.64 | | | | | | | | |
| | B25HB001 | 2.94 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 2.43 | 5.56 | 3.62 | 0.20 | 0.00 | 0.00 | 0.00 | 3.42 | 7.24 | |
| | B25HB003 | 3.19 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.64 | 6.04 | 3.93 | 0.22 | 0.00 | 0.00 | 0.00 | 3.71 | 7.86 | |
| | B25HB005 | 3.36 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 2.77 | 6.35 | 4.13 | 0.23 | 0.00 | 0.00 | 0.00 | 3.90 | 8.26 | |
| | B25HB007 | 4.01 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 3.32 | 7.59 | 4.94 | 0.27 | 0.00 | 0.00 | 0.00 | 4.67 | 9.88 | |
| | B25HB008 | 4.15 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 3.43 | 7.85 | 5.10 | 0.28 | 0.00 | 0.00 | 0.00 | 4.82 | 10.20 | |
| | B25HB009 | 4.35 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 3.59 | 8.23 | 5.35 | 0.29 | 0.00 | 0.00 | 0.00 | 5.05 | 10.69 | |
| | B25HB010 | 5.03 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 4.16 | 9.52 | 6.19 | 0.34 | 0.00 | 0.00 | 0.00 | 5.85 | 12.38 | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|-------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B25 | cont. | | | | | | | | | | | | | | | | |
| | B25HB011 | 5.25 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.34 | 9.94 | 6.46 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 6.11 | 12.92 |
| | B25HB012 | 5.35 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.42 | 10.12 | 6.58 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 6.22 | 13.16 |
| | B25HB013 | 5.47 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.52 | 10.35 | 6.73 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.36 | 13.46 |
| | B25HB014 | 6.01 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 4.97 | 11.38 | 7.40 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 6.99 | 14.80 |
| | B25HB015 | 6.21 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 5.14 | 11.76 | 7.65 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 7.22 | 15.29 |
| | B25XX001 | 2.11 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.74 | 3.99 | 2.60 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 5.19 |
| | B25XX002 | 2.28 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.88 | 4.31 | 2.80 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.65 | 5.60 |
| | B25XX003 | 2.45 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 4.64 | 3.02 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.85 | 6.04 |
| | B25XX004 | 2.63 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 4.97 | 3.24 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 6.48 |
| | B25XX005 | 2.76 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 5.22 | 3.40 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 3.21 | 6.80 |
| | B25XX006 | 3.21 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.66 | 6.08 | 3.96 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.74 | 7.92 |
| | B25XX007 | 3.34 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 2.76 | 6.32 | 4.11 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.88 | 8.22 |
| | B25XX008 | 3.72 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.07 | 7.03 | 4.57 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 9.14 |
| | B25XX009 | 4.38 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 3.62 | 8.29 | 5.39 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 5.09 | 10.78 |
| | B25XX010 | 4.63 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 8.76 | 5.69 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 5.38 | 11.38 |
| | B25XX011 | 5.03 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 4.16 | 9.52 | 6.20 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 5.85 | 12.39 |
| | B25XX012 | 5.48 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 10.37 | 6.74 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.36 | 13.47 |
| | B25XX013 | 6.50 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 5.37 | 12.30 | 8.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 7.55 | 15.99 |
| | B25XX014 | 6.85 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 12.96 | 8.43 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 7.96 | 16.85 |
| | B25XX015 | 7.01 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 5.79 | 13.26 | 8.62 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 8.14 | 17.23 |
| | B25XX016 | 7.29 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 6.03 | 13.80 | 8.98 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.48 | 17.95 |
| | B25XX017 | 7.74 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 6.40 | 14.65 | 9.52 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 | 19.04 |
| | B25XX018 | 8.13 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 6.72 | 15.38 | 10.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 9.45 | 20.00 |
| | B25XX019 | 8.40 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 6.94 | 15.89 | 10.33 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 9.76 | 20.66 |
| B30 | B30CR001 | 0.42 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.83 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B30 | cont. | | | | | | | | | | | | | | | | |
| | B30CR002 | 0.47 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.92 | | | | | | | | |
| | B30CR003 | 0.51 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 1.00 | | | | | | | | |
| | B30CR004 | 0.56 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 1.09 | | | | | | | | |
| | B30CR005 | 0.70 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 1.37 | | | | | | | | |
| | B30CR006 | 0.83 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.74 | 1.62 | | | | | | | | |
| | B30CR009 | 0.86 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 1.68 | | | | | | | | |
| | B30CR010 | 1.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 2.01 | | | | | | | | |
| | B30CR011 | 1.19 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.07 | 2.33 | | | | | | | | |
| | B30CR012 | 1.45 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 2.84 | | | | | | | | |
| | B30GB001 | 0.55 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 1.01 | | | | | | | | |
| | B30GB002 | 0.71 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 1.31 | | | | | | | | |
| | B30GB003 | 0.88 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 1.62 | | | | | | | | |
| | B30GB004 | 1.27 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 2.34 | | | | | | | | |
| | B30GB005 | 1.51 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.18 | 2.78 | | | | | | | | |
| | B30GB006 | 3.45 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.89 | 6.55 | | | | | | | | |
| | B30GB007 | 3.73 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 7.08 | | | | | | | | |
| | B30GB008 | 4.13 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 3.47 | 7.85 | | | | | | | | |
| | B30GB009 | 4.59 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.85 | 8.72 | | | | | | | | |
| | B30GB010 | 5.81 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.87 | 11.03 | | | | | | | | |
| | B30GB011 | 2.23 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 4.36 | | | | | | | | |
| | B30GB012 | 2.32 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.07 | 4.53 | | | | | | | | |
| | B30GB013 | 2.40 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.15 | 4.69 | | | | | | | | |
| | B30GB014 | 3.16 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 2.83 | 6.18 | | | | | | | | |
| | B30GB015 | 3.27 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 6.40 | | | | | | | | |
| | B30GB016 | 5.46 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 4.89 | 10.68 | | | | | | | | |
| | B30GB017 | 5.93 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 5.30 | 11.59 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|-------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B30 | cont. B30GB018 | 0.45 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.83 | | | | | | | | |
| B35 | B35HE001 | 0.96 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 1.81 | 1.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.11 | 2.35 |
| | B35HE002 | 1.12 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 2.12 | 1.38 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 2.76 |
| | B35HE003 | 1.59 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.31 | 3.00 | 1.96 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 3.92 |
| | B35HE004 | 1.92 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 3.64 | 2.36 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 4.72 |
| | B35HE005 | 2.20 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.82 | 4.16 | 2.70 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 5.40 |
| | B35HE006 | 2.74 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 5.18 | 3.37 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 6.73 |
| | B35HE007 | 2.98 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.46 | 5.64 | 3.67 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 7.33 |
| | B35HE008 | 3.91 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 7.40 | 4.82 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 9.63 |
| | B35HE009 | 4.10 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 3.39 | 7.76 | 5.05 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 4.77 | 10.10 |
| | B35HE010 | 4.75 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 3.92 | 8.98 | 5.84 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5.52 | 11.68 |
| | B35HE011 | 5.14 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.25 | 9.73 | 6.32 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 12.64 |
| | B35HE012 | 5.62 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 4.65 | 10.64 | 6.92 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.53 | 13.83 |
| | B35HE013 | 6.23 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 11.79 | 7.67 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 7.24 | 15.33 |
| | B35HE014 | 7.13 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 5.89 | 13.49 | 8.77 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 8.28 | 17.53 |
| | B35HE015 | 7.75 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 6.40 | 14.66 | 9.54 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 9.01 | 19.07 |
| | B35HE016 | 9.25 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 7.65 | 17.51 | 11.39 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 10.76 | 22.77 |
| | B35HE017 | 10.65 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 8.80 | 20.15 | 13.10 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 12.37 | 26.19 |
| | B35HE018 | 0.92 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 1.75 | 1.18 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.12 | 2.37 |
| | B35HE019 | 1.05 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 2.00 | 1.35 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 2.71 |
| | B35HE020 | 1.50 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 2.85 | 1.93 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.83 | 3.87 |
| | B35HE021 | 1.90 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.57 | 3.61 | 2.44 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.30 | 4.88 |
| | B35HE022 | 2.19 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.81 | 4.16 | 2.81 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 2.66 | 5.63 |
| | B35HE023 | 2.61 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 4.96 | 3.36 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 6.73 |
| | B35HE024 | 2.88 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 5.47 | 3.71 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 7.43 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|-------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B35 | cont. | | | | | | | | | | | | | | | | |
| B35HE025 | | 3.74 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 7.10 | 4.80 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 4.54 | 9.62 |
| B35HE026 | | 3.82 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 7.25 | 4.91 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 9.83 |
| B35HE027 | | 4.62 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 3.82 | 8.78 | 5.95 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 5.61 | 11.91 |
| B35HE028 | | 4.78 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 3.95 | 9.08 | 6.15 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 5.81 | 12.32 |
| B35HE029 | | 5.51 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 | 10.47 | 7.09 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 14.19 |
| B35HE030 | | 6.08 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 5.02 | 11.54 | 7.81 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 | 15.65 |
| B35HE031 | | 7.39 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 6.11 | 14.04 | 9.50 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 8.98 | 19.04 |
| B35HE032 | | 7.88 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 6.51 | 14.96 | 10.13 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 9.56 | 20.28 |
| B35HE033 | | 10.04 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 8.30 | 19.07 | 12.90 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 12.19 | 25.84 |
| B35HE034 | | 11.18 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 9.24 | 21.24 | 14.38 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 13.58 | 28.80 |
| B35HE035 | | 3.09 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 5.89 | 3.86 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 3.65 | 7.76 |
| B35HE036 | | 3.22 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 2.67 | 6.15 | 4.03 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 8.10 |
| B35HE037 | | 3.63 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 6.92 | 4.53 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 4.28 | 9.11 |
| B35HE038 | | 4.93 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 4.07 | 9.40 | 6.16 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5.82 | 12.38 |
| B35HE039 | | 5.51 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 10.50 | 6.89 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 13.84 |
| B35HE040 | | 5.69 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 4.70 | 10.85 | 7.11 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 6.72 | 14.30 |
| B35HE041 | | 6.09 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 11.62 | 7.61 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 7.19 | 15.30 |
| B35HE042 | | 7.84 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 6.48 | 14.95 | 9.80 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 9.25 | 19.69 |
| B35HE043 | | 8.06 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.66 | 15.37 | 10.08 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 9.52 | 20.26 |
| B35HE044 | | 10.48 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 8.66 | 19.98 | 13.10 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 12.37 | 26.33 |
| B35HE045 | | 10.78 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 8.91 | 20.56 | 13.47 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 12.73 | 27.09 |
| B35HE046 | | 12.82 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 10.60 | 24.45 | 16.02 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 15.13 | 32.20 |
| B35HE047 | | 13.64 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 11.28 | 26.02 | 17.05 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 16.10 | 34.27 |
| B35SA001 | | 6.89 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 5.69 | 13.03 | 8.48 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 8.01 | 16.95 |
| B35SA003 | | 10.33 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 8.54 | 19.55 | 12.71 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 12.01 | 25.42 |
| B35SA004 | | 15.50 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 12.82 | 29.34 | 19.08 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 18.02 | 38.15 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|-------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B35 | cont. | | | | | | | | | | | | | | | | |
| B35SA005 | | 20.67 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 17.09 | 39.12 | 25.44 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 24.03 | 50.86 |
| B35SA006 | | 25.87 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 21.38 | 48.95 | 31.84 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 30.07 | 63.65 |
| B35SA007 | | 31.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 25.63 | 58.67 | 38.15 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 36.03 | 76.27 |
| B35SA008 | | 41.33 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 34.16 | 78.21 | 50.86 | 2.79 | 0.00 | 0.00 | 0.00 | 0.00 | 48.04 | 101.69 |
| B35SA009 | | 51.65 | 3.39 | 0.00 | 0.00 | 0.00 | 0.00 | 42.70 | 97.74 | 63.57 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 | 60.04 | 127.09 |
| B35SA010 | | 61.99 | 4.07 | 0.00 | 0.00 | 0.00 | 0.00 | 51.24 | 117.30 | 76.29 | 4.18 | 0.00 | 0.00 | 0.00 | 0.00 | 72.06 | 152.53 |
| B35XX001 | | 3.81 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 7.21 | 4.68 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 4.42 | 9.36 |
| B35XX002 | | 4.28 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.54 | 8.10 | 5.27 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 4.97 | 10.53 |
| B35XX003 | | 4.73 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 8.95 | 5.82 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 | 11.64 |
| B35XX004 | | 5.40 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.46 | 10.21 | 6.64 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 6.27 | 13.27 |
| B35XX005 | | 6.06 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5.01 | 11.47 | 7.46 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 7.04 | 14.91 |
| B35XX006 | | 7.45 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.16 | 14.10 | 9.17 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 8.66 | 18.33 |
| B35XX007 | | 3.82 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 7.26 | 4.91 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 4.64 | 9.84 |
| B35XX008 | | 4.37 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 3.61 | 8.30 | 5.62 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 5.31 | 11.26 |
| B35XX009 | | 4.71 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 3.89 | 8.94 | 6.05 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 5.71 | 12.11 |
| B35XX010 | | 5.60 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 10.64 | 7.20 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 6.80 | 14.42 |
| B35XX011 | | 6.19 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 5.12 | 11.76 | 7.96 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 7.52 | 15.95 |
| B35XX012 | | 7.85 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 14.91 | 10.09 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 9.53 | 20.21 |
| B35XX013 | | 0.87 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 1.66 | 1.08 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.02 | 2.17 |
| B35XX014 | | 0.97 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 1.85 | 1.22 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 2.45 |
| B35XX015 | | 1.45 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 | 2.77 | 1.81 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.71 | 3.64 |
| B35XX016 | | 1.65 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.37 | 3.15 | 2.07 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 4.16 |
| B35XX017 | | 1.81 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.49 | 3.45 | 2.26 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.13 | 4.54 |
| B35XX018 | | 3.86 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 7.36 | 4.83 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 | 9.71 |
| B35XX019 | | 4.12 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 3.41 | 7.86 | 5.16 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.87 | 10.37 |
| B35XX020 | | 4.65 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 3.85 | 8.87 | 5.82 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 5.49 | 11.69 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| B35 | cont. | | | | | | | | | | | | | | | | |
| | B35XX021 | 5.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 9.67 | 6.33 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 12.73 |
| | B35XX022 | 6.39 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 5.28 | 12.18 | 7.99 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 7.55 | 16.07 |
| | B35XX023 | 6.85 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 13.06 | 8.56 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 8.09 | 17.21 |
| C05 | | | | | | | | | | | | | | | | | |
| | C05S7001 | 0.25 | 0.01 | 0.55 | 0.08 | 0.00 | 0.00 | 0.75 | 1.64 | | | | | | | | |
| | C05S7002 | 0.32 | 0.01 | 0.83 | 0.12 | 0.00 | 0.00 | 0.95 | 2.23 | | | | | | | | |
| | C05S7003 | 0.42 | 0.01 | 0.99 | 0.14 | 0.00 | 0.00 | 1.26 | 2.82 | | | | | | | | |
| | C05S7004 | 0.81 | 0.02 | 1.52 | 0.21 | 0.00 | 0.00 | 2.41 | 4.97 | | | | | | | | |
| C10 | | | | | | | | | | | | | | | | | |
| | C10BO001 | 1.06 | 0.04 | 0.53 | 0.06 | 0.00 | 0.00 | 1.43 | 3.12 | | | | | | | | |
| | C10BO003 | 0.41 | 0.01 | 0.71 | 0.07 | 0.00 | 0.00 | 0.55 | 1.75 | | | | | | | | |
| | C10BO004 | 0.48 | 0.02 | 1.06 | 0.11 | 0.00 | 0.00 | 0.64 | 2.31 | | | | | | | | |
| | C10BO008 | 4.19 | 0.14 | 0.83 | 0.09 | 0.00 | 0.00 | 5.66 | 10.91 | | | | | | | | |
| | C10BO009 | 1.94 | 0.08 | 0.71 | 0.07 | 0.00 | 0.00 | 2.92 | 5.72 | | | | | | | | |
| | C10BO011 | 5.11 | 0.20 | 0.92 | 0.10 | 0.00 | 0.00 | 7.71 | 14.04 | | | | | | | | |
| | C10BO013 | 11.67 | 0.46 | 2.18 | 0.23 | 0.00 | 0.00 | 17.61 | 32.15 | | | | | | | | |
| | C10BO015 | 4.54 | 0.18 | 0.46 | 0.05 | 0.00 | 0.00 | 6.85 | 12.08 | | | | | | | | |
| | C10BO016 | 5.69 | 0.23 | 0.83 | 0.09 | 0.00 | 0.00 | 8.60 | 15.44 | | | | | | | | |
| | C10MU001 | 3.97 | 0.16 | 1.01 | 0.11 | 0.00 | 0.00 | 5.99 | 11.24 | | | | | | | | |
| | C10MU002 | 8.68 | 0.34 | 1.84 | 0.19 | 0.00 | 0.00 | 13.10 | 24.15 | | | | | | | | |
| | C10MU003 | 4.02 | 0.16 | 1.93 | 0.20 | 0.00 | 0.00 | 6.07 | 12.38 | | | | | | | | |
| | C10WC003 | 1.34 | 0.05 | 0.37 | 0.04 | 0.00 | 0.00 | 1.81 | 3.61 | | | | | | | | |
| | C10WC006 | 1.33 | 0.04 | 0.97 | 0.10 | 0.00 | 0.00 | 1.79 | 4.23 | | | | | | | | |
| | C10WC007 | 2.03 | 0.07 | 1.41 | 0.15 | 0.00 | 0.00 | 2.75 | 6.41 | | | | | | | | |
| | C10WC008 | 5.49 | 0.19 | 1.24 | 0.13 | 0.00 | 0.00 | 7.41 | 14.46 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C10 | cont. | | | | | | | | | | | | | | | | |
| | C10WC010 | 3.22 | 0.13 | 1.94 | 0.20 | 0.00 | 0.00 | 4.86 | 10.35 | | | | | | | | |
| | C10WC016 | 10.09 | 0.40 | 2.27 | 0.24 | 0.00 | 0.00 | 15.23 | 28.23 | | | | | | | | |
| | C10WC017 | 4.28 | 0.17 | 0.83 | 0.09 | 0.00 | 0.00 | 6.45 | 11.82 | | | | | | | | |
| C15 | | | | | | | | | | | | | | | | | |
| | C15BL001 | 1.99 | 0.09 | 0.14 | 0.58 | 0.00 | 0.00 | 2.40 | 5.20 | | | | | | | | |
| | C15BL003 | 8.49 | 0.37 | 0.68 | 1.87 | 0.00 | 0.00 | 10.20 | 21.61 | | | | | | | | |
| | C15BL004 | 9.46 | 0.41 | 1.02 | 2.31 | 0.00 | 0.00 | 11.37 | 24.57 | | | | | | | | |
| | C15BL005 | 12.70 | 0.55 | 2.04 | 3.11 | 0.00 | 0.00 | 15.27 | 33.67 | | | | | | | | |
| | C15BL006 | 45.32 | 3.58 | 42.05 | 5.15 | 0.00 | 0.00 | 54.50 | 150.60 | | | | | | | | |
| | C15ED001 | 1.67 | 0.07 | 1.51 | 0.21 | 0.00 | 0.00 | 2.01 | 5.47 | | | | | | | | |
| | C15ED002 | 0.97 | 0.04 | 1.24 | 0.17 | 0.00 | 0.00 | 1.17 | 3.59 | | | | | | | | |
| | C15XX001 | 61.22 | 4.87 | 19.57 | 2.39 | 1.00 | 0.15 | 73.74 | 162.94 | | | | | | | | |
| C20 | | | | | | | | | | | | | | | | | |
| | C20XX001 | 1.40 | 0.08 | 1.65 | 0.23 | 0.48 | 0.07 | 1.40 | 5.31 | | | | | | | | |
| | C20XX002 | 2.41 | 0.10 | 1.10 | 0.15 | 0.00 | 0.00 | 2.25 | 6.01 | | | | | | | | |
| C25 | | | | | | | | | | | | | | | | | |
| | C25AJ001 | 0.88 | 0.05 | 0.82 | 0.11 | 0.00 | 0.00 | 0.94 | 2.80 | | | | | | | | |
| | C25AJ003 | 1.48 | 0.08 | 0.82 | 0.11 | 0.00 | 0.00 | 1.59 | 4.08 | | | | | | | | |
| | C25AJ004 | 1.68 | 0.09 | 1.24 | 0.17 | 0.00 | 0.00 | 1.79 | 4.97 | | | | | | | | |
| | C25AJ005 | 1.87 | 0.10 | 1.51 | 0.21 | 0.00 | 0.00 | 2.00 | 5.69 | | | | | | | | |
| | C25AJ006 | 2.12 | 0.11 | 1.51 | 0.21 | 0.00 | 0.00 | 2.26 | 6.21 | | | | | | | | |
| | C25AJ007 | 2.24 | 0.12 | 1.51 | 0.21 | 0.00 | 0.00 | 2.39 | 6.47 | | | | | | | | |
| | C25AJ008 | 1.80 | 0.17 | 0.71 | 0.13 | 0.00 | 0.00 | 1.65 | 4.46 | | | | | | | | |
| | C25AJ009 | 1.95 | 0.19 | 0.71 | 0.13 | 0.00 | 0.00 | 1.78 | 4.76 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C25 | cont. | | | | | | | | | | | | | | | | |
| | C25AJ010 | 2.08 | 0.20 | 0.71 | 0.13 | 0.00 | 0.00 | 1.90 | 5.02 | | | | | | | | |
| | C25AJ011 | 2.20 | 0.21 | 0.71 | 0.13 | 0.00 | 0.00 | 2.02 | 5.27 | | | | | | | | |
| | C25AJ012 | 2.33 | 0.22 | 0.71 | 0.13 | 0.00 | 0.00 | 2.14 | 5.53 | | | | | | | | |
| | C25AJ013 | 2.46 | 0.24 | 0.71 | 0.13 | 0.00 | 0.00 | 2.25 | 5.79 | | | | | | | | |
| | C25AJ015 | 2.16 | 0.11 | 2.75 | 0.38 | 0.00 | 0.00 | 2.30 | 7.70 | | | | | | | | |
| | C25AJ016 | 2.42 | 0.13 | 3.30 | 0.46 | 0.00 | 0.00 | 2.58 | 8.89 | | | | | | | | |
| | C25AJ018 | 2.51 | 0.13 | 3.30 | 0.46 | 0.00 | 0.00 | 2.68 | 9.08 | | | | | | | | |
| | C25AJ019 | 3.45 | 0.18 | 4.67 | 0.65 | 0.00 | 0.00 | 3.68 | 12.63 | | | | | | | | |
| | C25AJ020 | 1.99 | 0.10 | 3.02 | 0.42 | 0.00 | 0.00 | 2.13 | 7.66 | | | | | | | | |
| | C25AJ021 | 2.33 | 0.12 | 3.02 | 0.42 | 0.00 | 0.00 | 2.49 | 8.38 | | | | | | | | |
| | C25AJ022 | 3.11 | 0.16 | 5.49 | 0.77 | 0.00 | 0.00 | 3.32 | 12.85 | | | | | | | | |
| | C25AJ023 | 4.30 | 0.22 | 3.20 | 0.39 | 0.00 | 0.00 | 4.59 | 12.70 | | | | | | | | |
| | C25AJ024 | 1.53 | 0.08 | 0.00 | 0.05 | 0.00 | 0.00 | 1.64 | 3.30 | | | | | | | | |
| | C25MU001 | 0.42 | 0.02 | 1.10 | 0.15 | 0.00 | 0.00 | 0.45 | 2.14 | | | | | | | | |
| | C25MU002 | 0.49 | 0.03 | 1.24 | 0.17 | 0.00 | 0.00 | 0.53 | 2.46 | | | | | | | | |
| | C25SV004 | 6.16 | 0.63 | 2.70 | 0.50 | 0.70 | 0.11 | 5.76 | 16.56 | | | | | | | | |
| | C25SV005 | 5.98 | 0.62 | 2.70 | 0.50 | 0.70 | 0.11 | 5.60 | 16.21 | | | | | | | | |
| | C25SV006 | 10.27 | 1.03 | 2.32 | 0.38 | 0.71 | 0.11 | 9.53 | 24.35 | | | | | | | | |
| | C25SV007 | 5.76 | 0.58 | 1.80 | 0.33 | 0.37 | 0.06 | 5.34 | 14.24 | | | | | | | | |
| | C25SV008 | 2.85 | 0.30 | 0.77 | 0.14 | 0.37 | 0.06 | 2.68 | 7.17 | | | | | | | | |
| | C25SV009 | 24.28 | 2.37 | 2.32 | 0.38 | 0.71 | 0.11 | 22.37 | 52.54 | | | | | | | | |
| | C25SV010 | 27.20 | 2.65 | 2.32 | 0.38 | 0.71 | 0.11 | 25.03 | 58.40 | | | | | | | | |
| | C25SV011 | 32.21 | 3.13 | 4.91 | 0.81 | 0.71 | 0.11 | 29.62 | 71.50 | | | | | | | | |
| | C25WC002 | 0.50 | 0.03 | 0.98 | 0.14 | 0.00 | 0.00 | 0.53 | 2.18 | | | | | | | | |
| | C25XX001 | 0.80 | 0.04 | 1.24 | 0.17 | 0.00 | 0.00 | 0.86 | 3.11 | | | | | | | | |
| | C25XX002 | 1.02 | 0.05 | 1.24 | 0.17 | 0.00 | 0.00 | 1.09 | 3.57 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------------------------|----------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C25 <i>cont.</i> | C25XX003 | 1.10 | 0.06 | 1.24 | 0.17 | 0.00 | 0.00 | 1.17 | 3.74 | | | | | | | | |
| | C25XX004 | 1.24 | 0.06 | 1.24 | 0.17 | 0.00 | 0.00 | 1.32 | 4.03 | | | | | | | | |
| | C25XX005 | 1.39 | 0.07 | 1.24 | 0.17 | 0.00 | 0.00 | 1.49 | 4.36 | | | | | | | | |
| | C25XX006 | 1.56 | 0.08 | 1.51 | 0.21 | 0.00 | 0.00 | 1.67 | 5.03 | | | | | | | | |
| | C25XX007 | 0.23 | 0.01 | 0.27 | 0.04 | 0.00 | 0.00 | 0.25 | 0.80 | | | | | | | | |
| | C25XX008 | 1.72 | 0.09 | 1.51 | 0.21 | 0.00 | 0.00 | 1.83 | 5.36 | | | | | | | | |
| | C25XX009 | 1.86 | 0.10 | 1.51 | 0.21 | 0.00 | 0.00 | 1.99 | 5.67 | | | | | | | | |
| | C25XX010 | 2.01 | 0.10 | 1.51 | 0.21 | 0.00 | 0.00 | 2.15 | 5.98 | | | | | | | | |
| | C25XX011 | 2.15 | 0.11 | 1.51 | 0.21 | 0.00 | 0.00 | 2.30 | 6.28 | | | | | | | | |
| | C25XX012 | 0.24 | 0.01 | 0.27 | 0.04 | 0.00 | 0.00 | 0.25 | 0.81 | | | | | | | | |
| | C25XX013 | 2.31 | 0.12 | 1.51 | 0.21 | 0.00 | 0.00 | 2.47 | 6.62 | | | | | | | | |
| | C25XX014 | 2.45 | 0.13 | 1.51 | 0.21 | 0.00 | 0.00 | 2.62 | 6.92 | | | | | | | | |
| | C25XX015 | 0.24 | 0.01 | 0.27 | 0.04 | 0.00 | 0.00 | 0.26 | 0.82 | | | | | | | | |
| C35 | C35AF001 | 8.42 | 0.65 | 2.31 | 2.68 | 0.03 | 0.00 | 10.80 | 24.89 | | | | | | | | |
| | C35AF002 | 1.34 | 0.11 | 0.00 | 2.00 | 0.03 | 0.00 | 1.73 | 5.21 | | | | | | | | |
| | C35AF004 | 6.89 | 0.53 | 2.31 | 2.28 | 0.03 | 0.00 | 8.85 | 20.89 | | | | | | | | |
| | C35AF005 | 7.95 | 0.62 | 4.16 | 2.51 | 0.09 | 0.01 | 10.22 | 25.56 | | | | | | | | |
| | C35AV006 | 11.10 | 0.86 | 1.46 | 2.72 | 0.10 | 0.02 | 14.26 | 30.52 | | | | | | | | |
| | C35EN001 | 24.08 | 1.85 | 2.91 | 3.93 | 0.00 | 0.00 | 30.89 | 63.66 | | | | | | | | |
| | C35PU001 | 4.69 | 0.37 | 2.70 | 1.33 | 0.08 | 0.01 | 6.04 | 15.22 | | | | | | | | |
| | C35PU002 | 1.90 | 0.15 | 0.36 | 0.37 | 0.00 | 0.00 | 2.43 | 5.21 | | | | | | | | |
| | C35PU003 | 3.07 | 0.24 | 0.00 | 0.30 | 0.00 | 0.00 | 3.93 | 7.54 | | | | | | | | |
| | C35PU004 | 1.52 | 0.12 | 0.00 | 0.40 | 0.00 | 0.00 | 1.95 | 3.99 | | | | | | | | |
| | C35PU005 | 5.44 | 0.42 | 4.70 | 1.08 | 0.03 | 0.00 | 6.99 | 18.66 | | | | | | | | |
| | C35RQ001 | 1.33 | 0.10 | 0.36 | 1.18 | 0.00 | 0.00 | 1.71 | 4.68 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C35 | cont. C35RQ002 | 2.15 | 0.17 | 0.65 | 2.32 | 0.00 | 0.00 | 2.75 | 8.04 | | | | | | | | |
| C40 | | | | | | | | | | | | | | | | | |
| | C40CC001 | 6.82 | 0.36 | 0.68 | 0.37 | 0.00 | 0.00 | 7.29 | 15.52 | | | | | | | | |
| | C40MU001 | 0.57 | 0.03 | 1.10 | 0.15 | 0.03 | 0.00 | 0.62 | 2.50 | | | | | | | | |
| | C40MU002 | 1.23 | 0.07 | 1.79 | 0.25 | 0.03 | 0.00 | 1.32 | 4.69 | | | | | | | | |
| | C40MU003 | 0.58 | 0.03 | 1.10 | 0.15 | 0.03 | 0.00 | 0.63 | 2.52 | | | | | | | | |
| | C40MU004 | 0.67 | 0.04 | 1.10 | 0.15 | 0.03 | 0.00 | 0.72 | 2.71 | | | | | | | | |
| | C40MU005 | 0.35 | 0.02 | 0.03 | 0.22 | 0.03 | 0.00 | 0.38 | 1.03 | | | | | | | | |
| | C40MU006 | 0.41 | 0.02 | 0.76 | 0.11 | 0.03 | 0.00 | 0.45 | 1.78 | | | | | | | | |
| | C40MU007 | 0.52 | 0.03 | 0.14 | 0.33 | 0.03 | 0.00 | 0.56 | 1.61 | | | | | | | | |
| | C40MU008 | 0.66 | 0.04 | 0.10 | 0.35 | 0.03 | 0.00 | 0.71 | 1.89 | | | | | | | | |
| | C40XX001 | 0.47 | 0.02 | 0.37 | 0.40 | 0.00 | 0.00 | 0.50 | 1.76 | | | | | | | | |
| | C40XX002 | 0.53 | 0.03 | 0.76 | 0.11 | 0.00 | 0.00 | 0.57 | 2.00 | | | | | | | | |
| | C40XX003 | 0.53 | 0.03 | 0.10 | 0.25 | 0.00 | 0.00 | 0.57 | 1.48 | | | | | | | | |
| | C40XX004 | 0.75 | 0.04 | 1.10 | 0.15 | 0.00 | 0.00 | 0.80 | 2.84 | | | | | | | | |
| | C40XX005 | 0.77 | 0.04 | 0.34 | 0.44 | 0.00 | 0.00 | 0.82 | 2.41 | | | | | | | | |
| | C40XX006 | 1.37 | 0.07 | 0.34 | 0.44 | 0.00 | 0.00 | 1.46 | 3.68 | | | | | | | | |
| | C40XX007 | 1.35 | 0.07 | 1.61 | 0.22 | 0.00 | 0.00 | 1.44 | 4.69 | | | | | | | | |
| C45 | | | | | | | | | | | | | | | | | |
| | C45GO011 | 41.75 | 2.55 | 17.78 | 2.18 | 0.00 | 0.00 | 55.99 | 120.25 | | | | | | | | |
| | C45GO012 | 63.30 | 3.87 | 13.02 | 1.59 | 0.00 | 0.00 | 84.90 | 166.68 | | | | | | | | |
| | C45GO013 | 27.48 | 1.68 | 8.84 | 1.08 | 0.00 | 0.00 | 36.85 | 75.93 | | | | | | | | |
| | C45GO014 | 31.26 | 1.91 | 9.42 | 1.15 | 0.00 | 0.00 | 41.92 | 85.66 | | | | | | | | |
| | C45GO016 | 101.05 | 6.17 | 17.72 | 2.17 | 0.00 | 0.00 | 135.53 | 262.64 | | | | | | | | |
| | C45GO18 | 110.40 | 6.74 | 25.81 | 3.16 | 0.00 | 0.00 | 148.08 | 294.19 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------------------------|----------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C45 <i>cont.</i> | C45GO020 | 137.59 | 8.40 | 34.67 | 4.24 | 0.00 | 0.00 | 184.55 | 369.45 | | | | | | | | |
| | C45GO026 | 13.42 | 0.82 | 5.34 | 0.75 | 0.00 | 0.00 | 18.00 | 38.33 | | | | | | | | |
| | C45GO027 | 15.53 | 0.95 | 3.85 | 0.47 | 0.00 | 0.00 | 20.83 | 41.63 | | | | | | | | |
| | C45GO028 | 21.99 | 1.34 | 3.85 | 0.47 | 0.00 | 0.00 | 29.49 | 57.14 | | | | | | | | |
| | C45GO029 | 21.64 | 1.32 | 5.34 | 0.75 | 0.00 | 0.00 | 29.03 | 58.08 | | | | | | | | |
| | C45GO031 | 68.78 | 4.20 | 29.66 | 3.63 | 0.00 | 0.00 | 92.25 | 198.52 | | | | | | | | |
| | C45MJ001 | 1.15 | 0.07 | 2.22 | 0.31 | 0.00 | 0.00 | 1.54 | 5.29 | | | | | | | | |
| | C45MW002 | 7.76 | 0.48 | 2.50 | 0.31 | 0.08 | 0.01 | 10.42 | 21.56 | | | | | | | | |
| | C45MW003 | 10.03 | 0.62 | 2.50 | 0.31 | 0.11 | 0.02 | 13.48 | 27.07 | | | | | | | | |
| C55 | | | | | | | | | | | | | | | | | |
| | C55MU001 | 3.30 | 0.22 | 7.97 | 1.11 | 0.03 | 0.00 | 3.92 | 16.55 | | | | | | | | |
| | C55MU002 | 6.77 | 0.44 | 5.75 | 0.70 | 0.00 | 0.00 | 8.04 | 21.70 | | | | | | | | |
| | C55MU003 | 8.16 | 0.54 | 7.86 | 0.96 | 0.00 | 0.00 | 9.69 | 27.21 | | | | | | | | |
| | C55OE011 | 9.14 | 0.60 | 13.17 | 1.61 | 0.00 | 0.00 | 10.86 | 35.38 | | | | | | | | |
| | C55OE013 | 6.04 | 0.40 | 3.49 | 0.43 | 0.04 | 0.01 | 7.18 | 17.59 | | | | | | | | |
| | C55RQ003 | 5.86 | 0.39 | 5.97 | 0.73 | 0.04 | 0.01 | 6.96 | 19.96 | | | | | | | | |
| | C55SC001 | 9.02 | 0.60 | 7.28 | 0.89 | 0.11 | 0.02 | 10.72 | 28.64 | | | | | | | | |
| | C55SC002 | 13.16 | 0.87 | 12.66 | 1.55 | 0.08 | 0.01 | 15.64 | 43.97 | | | | | | | | |
| | C55SC005 | 38.11 | 2.55 | 19.06 | 2.33 | 0.90 | 0.14 | 45.34 | 108.43 | | | | | | | | |
| C60 | C55SC006 | 49.04 | 3.26 | 19.06 | 2.33 | 0.90 | 0.14 | 58.32 | 133.05 | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | C60HG008 | 0.17 | 0.01 | 0.35 | 0.05 | 0.00 | 0.00 | 0.20 | 0.78 | | | | | | | | |
| | C60HG010 | 0.32 | 0.02 | 1.94 | 0.27 | 0.00 | 0.00 | 0.39 | 2.94 | | | | | | | | |
| | C60HG011 | 4.34 | 0.22 | 7.58 | 1.26 | 0.00 | 0.00 | 5.15 | 18.55 | | | | | | | | |
| | C60HG012 | 4.56 | 0.23 | 7.58 | 1.26 | 0.00 | 0.00 | 5.41 | 19.04 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C60 | cont. | | | | | | | | | | | | | | | | |
| | C60HG013 | 4.59 | 0.24 | 7.58 | 1.26 | 0.00 | 0.00 | 5.46 | 19.13 | | | | | | | | |
| | C60HG014 | 2.40 | 0.12 | 2.62 | 1.29 | 0.00 | 0.00 | 2.85 | 9.28 | | | | | | | | |
| | C60HG015 | 0.99 | 0.05 | 3.53 | 0.49 | 0.00 | 0.00 | 1.17 | 6.23 | | | | | | | | |
| | C60HG016 | 5.68 | 0.29 | 9.64 | 1.60 | 0.00 | 0.00 | 6.74 | 23.95 | | | | | | | | |
| | C60HG020 | 3.41 | 0.17 | 8.48 | 1.18 | 0.00 | 0.00 | 4.05 | 17.29 | | | | | | | | |
| | C60HG021 | 4.12 | 0.21 | 8.48 | 1.18 | 0.00 | 0.00 | 4.89 | 18.88 | | | | | | | | |
| | C60HG023 | 2.42 | 0.12 | 2.62 | 1.29 | 0.00 | 0.00 | 2.88 | 9.33 | | | | | | | | |
| | C60HG024 | 4.11 | 0.21 | 8.48 | 1.18 | 0.00 | 0.00 | 4.88 | 18.86 | | | | | | | | |
| | C60HG025 | 0.26 | 0.01 | 1.59 | 0.22 | 0.00 | 0.00 | 0.31 | 2.39 | | | | | | | | |
| | C60HG026 | 0.65 | 0.03 | 2.30 | 0.32 | 0.00 | 0.00 | 0.77 | 4.07 | | | | | | | | |
| | C60HG027 | 1.06 | 0.05 | 3.71 | 0.52 | 0.00 | 0.00 | 1.26 | 6.60 | | | | | | | | |
| | C60HG028 | 4.04 | 0.21 | 2.36 | 1.16 | 0.00 | 0.00 | 4.80 | 12.57 | | | | | | | | |
| | C60HG029 | 8.23 | 0.42 | 1.52 | 0.75 | 0.00 | 0.00 | 9.77 | 20.69 | | | | | | | | |
| | C60HG030 | 10.45 | 0.53 | 2.18 | 1.07 | 0.00 | 0.00 | 12.41 | 26.64 | | | | | | | | |
| C65 | | | | | | | | | | | | | | | | | |
| | C65MU001 | 0.13 | 0.00 | 0.06 | 0.03 | 0.00 | 0.00 | 0.39 | 0.61 | | | | | | | | |
| | C65MU002 | 0.14 | 0.01 | 0.13 | 0.06 | 0.00 | 0.00 | 0.43 | 0.77 | | | | | | | | |
| | C65MU003 | 0.17 | 0.01 | 0.19 | 0.09 | 0.00 | 0.00 | 0.51 | 0.97 | | | | | | | | |
| | C65MU004 | 0.35 | 0.01 | 0.71 | 0.10 | 0.00 | 0.00 | 1.05 | 2.22 | | | | | | | | |
| | C65WC003 | 0.64 | 0.02 | 0.19 | 0.23 | 0.00 | 0.00 | 1.90 | 2.98 | | | | | | | | |
| | C65WC004 | 0.34 | 0.01 | 0.19 | 0.23 | 0.00 | 0.00 | 1.02 | 1.79 | | | | | | | | |
| | C65WC005 | 0.48 | 0.02 | 0.71 | 0.10 | 0.00 | 0.00 | 1.42 | 2.73 | | | | | | | | |
| | C65WC006 | 0.78 | 0.03 | 0.77 | 0.25 | 0.00 | 0.00 | 2.31 | 4.14 | | | | | | | | |
| C75 | | | | | | | | | | | | | | | | | |
| | C75BD005 | 6.99 | 0.85 | 10.23 | 1.43 | 0.32 | 0.05 | 7.00 | 26.87 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C75 | cont. | | | | | | | | | | | | | | | | |
| | C75BD006 | 10.05 | 1.23 | 16.31 | 2.28 | 0.78 | 0.12 | 10.08 | 40.85 | | | | | | | | |
| | C75BD009 | 7.22 | 0.88 | 10.23 | 1.43 | 0.32 | 0.05 | 7.23 | 27.36 | | | | | | | | |
| | C75BD012 | 6.17 | 0.75 | 3.77 | 0.49 | 0.14 | 0.02 | 6.18 | 17.52 | | | | | | | | |
| | C75BD013 | 5.14 | 0.62 | 3.77 | 0.49 | 0.14 | 0.02 | 5.15 | 15.33 | | | | | | | | |
| | C75BD014 | 9.42 | 1.14 | 5.70 | 0.75 | 0.34 | 0.05 | 9.44 | 26.84 | | | | | | | | |
| | C75BD015 | 14.33 | 1.75 | 7.70 | 1.01 | 0.82 | 0.13 | 14.36 | 40.10 | | | | | | | | |
| | C75BD016 | 18.61 | 2.31 | 12.56 | 1.65 | 2.40 | 0.37 | 18.71 | 56.61 | | | | | | | | |
| | C75BD017 | 5.82 | 0.80 | 3.77 | 0.49 | 3.01 | 0.47 | 5.94 | 20.30 | | | | | | | | |
| | C75BD018 | 12.44 | 1.52 | 7.70 | 1.01 | 0.82 | 0.13 | 12.47 | 36.09 | | | | | | | | |
| | C75BD019 | 19.85 | 2.42 | 12.33 | 1.62 | 1.76 | 0.27 | 19.89 | 58.14 | | | | | | | | |
| | C75GV016 | 90.40 | 11.24 | 23.11 | 3.03 | 20.95 | 3.24 | 90.87 | 242.84 | | | | | | | | |
| | C75GV023 | 27.02 | 3.30 | 12.33 | 1.62 | 2.39 | 0.37 | 27.08 | 74.11 | | | | | | | | |
| | C75GV024 | 34.83 | 4.33 | 13.33 | 1.75 | 7.06 | 1.09 | 35.01 | 97.40 | | | | | | | | |
| | C75GV029 | 11.04 | 1.34 | 11.86 | 1.66 | 0.39 | 0.06 | 11.05 | 37.40 | | | | | | | | |
| | C75GV030 | 16.32 | 2.02 | 14.82 | 2.07 | 1.95 | 0.30 | 16.40 | 53.88 | | | | | | | | |
| | C75GV031 | 40.62 | 5.25 | 18.49 | 2.42 | 20.47 | 3.16 | 41.08 | 131.49 | | | | | | | | |
| | C75GV032 | 50.41 | 6.35 | 21.19 | 2.78 | 16.29 | 2.52 | 50.78 | 150.32 | | | | | | | | |
| | C75TD001 | 28.35 | 3.41 | 13.33 | 1.75 | 0.00 | 0.00 | 28.35 | 75.19 | | | | | | | | |
| | C75TD002 | 41.65 | 5.01 | 15.87 | 2.08 | 0.00 | 0.00 | 41.65 | 106.26 | | | | | | | | |
| | C75TD009 | 22.92 | 2.75 | 13.87 | 1.82 | 0.00 | 0.00 | 22.92 | 64.28 | | | | | | | | |
| | C75TD010 | 29.50 | 3.55 | 19.03 | 2.49 | 0.00 | 0.00 | 29.50 | 84.07 | | | | | | | | |
| | C75TD011 | 38.82 | 4.67 | 19.03 | 2.49 | 0.00 | 0.00 | 38.82 | 103.83 | | | | | | | | |
| | C75TE001 | 25.04 | 3.08 | 10.02 | 1.31 | 3.42 | 0.53 | 25.13 | 68.53 | | | | | | | | |
| | C75TE002 | 32.53 | 4.00 | 11.71 | 1.53 | 4.61 | 0.71 | 32.65 | 87.74 | | | | | | | | |
| | C75TE006 | 30.93 | 3.79 | 13.33 | 1.75 | 2.40 | 0.37 | 31.02 | 83.59 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C80 | | | | | | | | | | | | | | | | | |
| | C80GV006 | 46.87 | 6.44 | 26.54 | 3.02 | 1.73 | 0.27 | 41.08 | 125.95 | 53.57 | 6.50 | 35.10 | 3.99 | 6.77 | 1.05 | 50.30 | 157.28 |
| | C80GV016 | 132.09 | 22.64 | 28.63 | 3.26 | 20.44 | 3.16 | 149.09 | 359.31 | 146.77 | 22.76 | 36.93 | 4.20 | 81.72 | 12.63 | 174.83 | 479.84 |
| | C80GV029 | 48.43 | 6.68 | 17.11 | 1.95 | 2.57 | 0.40 | 42.47 | 119.61 | 55.35 | 6.74 | 22.17 | 2.52 | 10.25 | 1.58 | 52.00 | 150.61 |
| | C80GV030 | 48.54 | 6.70 | 25.66 | 2.92 | 2.57 | 0.40 | 42.57 | 129.36 | 55.47 | 6.75 | 33.94 | 3.86 | 10.25 | 1.58 | 52.11 | 163.96 |
| | C80GV033 | 56.60 | 7.90 | 29.38 | 3.34 | 10.22 | 1.58 | 49.72 | 158.74 | 64.69 | 7.96 | 38.86 | 4.42 | 40.86 | 6.31 | 60.88 | 223.98 |
| | C80GV034 | 72.31 | 11.21 | 33.27 | 3.78 | 10.22 | 1.58 | 72.49 | 204.86 | 81.35 | 11.27 | 44.01 | 5.00 | 40.86 | 6.31 | 86.73 | 275.53 |
| | C80GV035 | 47.33 | 7.30 | 33.27 | 3.78 | 2.57 | 0.40 | 47.41 | 142.06 | 53.24 | 7.34 | 44.01 | 5.00 | 10.25 | 1.58 | 56.72 | 178.14 |
| | C80LB009 | 33.94 | 4.68 | 30.21 | 3.44 | 1.79 | 0.28 | 29.76 | 104.10 | 38.78 | 4.72 | 39.96 | 4.54 | 7.00 | 1.08 | 36.44 | 132.52 |
| | C80LB011 | 34.35 | 4.74 | 30.21 | 3.44 | 1.79 | 0.28 | 30.12 | 104.93 | 39.25 | 4.78 | 39.96 | 4.54 | 7.00 | 1.08 | 36.87 | 133.48 |
| | C80TD003 | 54.04 | 8.24 | 15.49 | 1.76 | 0.00 | 0.00 | 54.04 | 133.57 | 60.79 | 8.28 | 19.87 | 2.26 | 0.00 | 0.00 | 64.65 | 155.85 |
| | C80TD004 | 55.76 | 9.59 | 18.84 | 2.15 | 5.80 | 0.90 | 62.97 | 156.01 | 61.96 | 9.64 | 24.01 | 2.73 | 23.02 | 3.56 | 73.84 | 198.76 |
| | C80TD006 | 38.33 | 6.04 | 14.37 | 1.63 | 6.02 | 0.93 | 38.51 | 105.83 | 43.12 | 6.07 | 18.29 | 2.08 | 24.40 | 3.77 | 46.08 | 143.81 |
| | C80TD007 | 51.66 | 8.08 | 17.42 | 1.98 | 6.32 | 0.98 | 51.86 | 138.30 | 58.12 | 8.12 | 22.32 | 2.54 | 25.66 | 3.96 | 62.05 | 182.77 |
| | C80TD008 | 55.29 | 9.59 | 18.84 | 2.15 | 8.38 | 1.29 | 62.51 | 158.05 | 61.43 | 9.64 | 24.01 | 2.73 | 33.62 | 5.19 | 73.31 | 209.93 |
| | C80TE001 | 30.25 | 4.70 | 40.14 | 4.56 | 2.59 | 0.40 | 30.33 | 112.97 | 34.03 | 4.72 | 53.09 | 6.04 | 10.36 | 1.60 | 36.29 | 146.13 |
| | C80TE007 | 27.03 | 3.73 | 24.83 | 2.82 | 1.57 | 0.24 | 23.71 | 83.93 | 30.89 | 3.76 | 32.84 | 3.73 | 6.33 | 0.98 | 29.02 | 107.55 |
| | C80TE008 | 18.63 | 2.33 | 8.62 | 1.36 | 2.67 | 0.41 | 14.07 | 48.09 | 21.74 | 2.36 | 11.41 | 1.80 | 10.47 | 1.62 | 17.78 | 67.18 |
| | C80TE009 | 37.02 | 5.11 | 37.25 | 4.24 | 1.99 | 0.31 | 32.47 | 118.39 | 42.31 | 5.15 | 49.26 | 5.60 | 7.85 | 1.21 | 39.75 | 151.13 |
| | C80XX001 | 10.49 | 1.29 | 16.25 | 2.56 | 0.84 | 0.13 | 7.90 | 39.46 | 12.23 | 1.30 | 21.50 | 3.38 | 3.35 | 0.52 | 9.98 | 52.26 |
| | C80XX002 | 13.16 | 1.63 | 28.97 | 4.56 | 1.57 | 0.24 | 9.92 | 60.05 | 15.35 | 1.65 | 38.31 | 6.03 | 6.33 | 0.98 | 12.54 | 81.19 |
| C85 | | | | | | | | | | | | | | | | | |
| | C85KC001 | 32.88 | 4.95 | 15.86 | 2.35 | 0.00 | 0.00 | 37.16 | 93.20 | 40.47 | 5.00 | 20.74 | 3.08 | 0.00 | 0.00 | 51.10 | 120.39 |
| | C85KC005 | 27.97 | 4.72 | 8.66 | 0.83 | 0.00 | 0.00 | 29.75 | 71.93 | 34.97 | 4.76 | 11.40 | 1.09 | 0.00 | 0.00 | 39.37 | 91.59 |
| | C85KC008 | 54.60 | 10.08 | 12.85 | 1.34 | 0.00 | 0.00 | 64.87 | 143.74 | 66.73 | 10.18 | 16.91 | 1.77 | 0.00 | 0.00 | 83.45 | 179.04 |
| | C85KC009 | 33.78 | 5.70 | 11.59 | 1.11 | 0.00 | 0.00 | 35.92 | 88.10 | 42.22 | 5.75 | 15.25 | 1.46 | 0.00 | 0.00 | 47.54 | 112.22 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C85 | cont. | | | | | | | | | | | | | | | | |
| | C85KC010 | 54.56 | 9.20 | 14.76 | 1.42 | 0.00 | 0.00 | 58.02 | 137.96 | 68.19 | 9.29 | 19.42 | 1.86 | 0.00 | 0.00 | 76.78 | 175.54 |
| | C85KC011 | 71.53 | 13.20 | 14.76 | 1.54 | 0.00 | 0.00 | 84.99 | 186.02 | 87.42 | 13.33 | 19.42 | 2.03 | 0.00 | 0.00 | 109.33 | 231.53 |
| | C85LB001 | 35.10 | 5.92 | 10.08 | 0.97 | 0.00 | 0.00 | 37.33 | 89.40 | 43.87 | 5.98 | 13.27 | 1.27 | 0.00 | 0.00 | 49.39 | 113.78 |
| | C85LB014 | 45.84 | 7.73 | 11.55 | 1.11 | 0.00 | 0.00 | 48.75 | 114.98 | 57.30 | 7.81 | 15.19 | 1.46 | 0.00 | 0.00 | 64.51 | 146.27 |
| | C85LB015 | 63.45 | 10.70 | 11.55 | 1.11 | 0.00 | 0.00 | 67.48 | 154.29 | 79.31 | 10.81 | 15.19 | 1.46 | 0.00 | 0.00 | 89.29 | 196.06 |
| | C85LB016 | 73.56 | 13.58 | 11.55 | 1.21 | 0.00 | 0.00 | 87.41 | 187.31 | 89.91 | 13.71 | 15.19 | 1.59 | 0.00 | 0.00 | 112.44 | 232.84 |
| | C85LB019 | 45.13 | 6.79 | 15.80 | 2.34 | 0.00 | 0.00 | 51.00 | 121.06 | 55.54 | 6.87 | 20.66 | 3.06 | 0.00 | 0.00 | 70.12 | 156.25 |
| | C85LB021 | 63.53 | 10.69 | 15.80 | 1.52 | 0.00 | 0.00 | 80.21 | 171.75 | 76.23 | 10.79 | 20.66 | 1.98 | 0.00 | 0.00 | 106.35 | 216.01 |
| | C85LB024 | 28.89 | 4.86 | 8.01 | 0.70 | 0.00 | 0.00 | 28.78 | 71.24 | 34.66 | 4.91 | 10.54 | 0.92 | 0.00 | 0.00 | 36.83 | 87.86 |
| | C85LB025 | 39.45 | 5.23 | 10.96 | 1.53 | 0.00 | 0.00 | 41.92 | 99.09 | 46.03 | 5.28 | 14.33 | 2.00 | 0.00 | 0.00 | 55.06 | 122.70 |
| | C85MA002 | 69.39 | 11.67 | 18.92 | 1.82 | 0.00 | 0.00 | 87.60 | 189.40 | 83.27 | 11.78 | 24.74 | 2.37 | 0.00 | 0.00 | 116.16 | 238.32 |
| | C85MA003 | 90.67 | 16.87 | 22.26 | 2.33 | 0.00 | 0.00 | 126.49 | 258.62 | 113.34 | 17.06 | 29.10 | 3.05 | 0.00 | 0.00 | 173.13 | 335.68 |
| | C85MA005 | 55.35 | 9.33 | 13.82 | 1.33 | 0.00 | 0.00 | 58.86 | 138.69 | 69.18 | 9.43 | 18.19 | 1.75 | 0.00 | 0.00 | 77.89 | 176.44 |
| | C85MA006 | 60.94 | 11.25 | 13.82 | 1.45 | 0.00 | 0.00 | 72.41 | 159.87 | 74.49 | 11.36 | 18.19 | 1.90 | 0.00 | 0.00 | 93.15 | 199.09 |
| | C85MA007 | 82.73 | 15.27 | 15.25 | 1.60 | 0.00 | 0.00 | 98.31 | 213.16 | 101.12 | 15.42 | 20.06 | 2.10 | 0.00 | 0.00 | 126.46 | 265.16 |
| | C85MA008 | 55.42 | 9.34 | 13.82 | 1.33 | 0.00 | 0.00 | 58.94 | 138.85 | 69.27 | 9.44 | 18.19 | 1.75 | 0.00 | 0.00 | 77.99 | 176.64 |
| | C85MA011 | 88.31 | 14.85 | 33.38 | 3.20 | 0.00 | 0.00 | 111.49 | 251.23 | 105.97 | 15.00 | 43.66 | 4.19 | 0.00 | 0.00 | 147.82 | 316.64 |
| | C85MA012 | 83.04 | 14.00 | 24.40 | 2.34 | 0.00 | 0.00 | 88.32 | 212.10 | 103.80 | 14.14 | 32.10 | 3.08 | 0.00 | 0.00 | 116.87 | 269.99 |
| | C85TE004 | 34.49 | 5.19 | 10.29 | 1.53 | 0.00 | 0.00 | 38.98 | 90.48 | 42.45 | 5.25 | 13.46 | 2.00 | 0.00 | 0.00 | 53.60 | 116.76 |
| | C85TE005 | 39.31 | 6.61 | 13.35 | 1.28 | 0.00 | 0.00 | 49.63 | 110.18 | 47.17 | 6.68 | 17.46 | 1.68 | 0.00 | 0.00 | 65.80 | 138.79 |
| | C85TE006 | 61.60 | 10.36 | 17.25 | 1.66 | 0.00 | 0.00 | 77.77 | 168.64 | 73.92 | 10.46 | 22.56 | 2.17 | 0.00 | 0.00 | 103.12 | 212.23 |
| | C85TE008 | 29.32 | 4.94 | 7.52 | 0.72 | 0.00 | 0.00 | 31.18 | 73.68 | 36.65 | 4.99 | 9.90 | 0.95 | 0.00 | 0.00 | 41.26 | 93.75 |
| | C85TE009 | 37.59 | 6.34 | 9.76 | 0.94 | 0.00 | 0.00 | 39.98 | 94.61 | 46.99 | 6.40 | 12.84 | 1.23 | 0.00 | 0.00 | 52.90 | 120.36 |
| | C85TE016 | 72.06 | 13.30 | 12.20 | 1.28 | 0.00 | 0.00 | 85.62 | 184.46 | 88.07 | 13.43 | 16.05 | 1.68 | 0.00 | 0.00 | 110.14 | 229.37 |
| | C85TE017 | 61.60 | 10.36 | 17.25 | 1.66 | 0.00 | 0.00 | 77.77 | 168.64 | 73.92 | 10.46 | 22.56 | 2.17 | 0.00 | 0.00 | 103.12 | 212.23 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|-------|-------|-------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C90 | | | | | | | | | | | | | | | | | |
| | C90LB001 | 66.44 | 12.56 | 16.21 | 1.85 | 10.10 | 1.56 | 79.74 | 188.46 | 73.83 | 12.62 | 20.40 | 2.32 | 40.39 | 6.24 | 93.51 | 249.31 |
| | C90LB003 | 122.55 | 23.23 | 28.80 | 3.28 | 12.28 | 1.90 | 147.16 | 339.20 | 136.16 | 23.34 | 36.65 | 4.17 | 49.08 | 7.58 | 172.56 | 429.54 |
| | C90MX001 | 33.62 | 5.72 | 16.82 | 1.91 | 1.77 | 0.27 | 35.80 | 95.91 | 37.82 | 5.75 | 21.42 | 2.43 | 7.14 | 1.10 | 42.83 | 118.49 |
| C95 | | | | | | | | | | | | | | | | | |
| | C95LH024 | 33.02 | 5.56 | 3.78 | 7.06 | 0.00 | 0.00 | 37.32 | 86.74 | | | | | | | | |
| | C95LH025 | 41.18 | 6.93 | 9.27 | 10.06 | 0.00 | 0.00 | 46.54 | 113.98 | | | | | | | | |
| | C95LH026 | 67.75 | 11.40 | 9.27 | 10.06 | 0.00 | 0.00 | 76.56 | 175.04 | | | | | | | | |
| | C95LH027 | 76.95 | 12.94 | 9.27 | 10.06 | 0.00 | 0.00 | 86.95 | 196.17 | | | | | | | | |
| | C95LH028 | 83.08 | 13.98 | 9.27 | 12.06 | 0.00 | 0.00 | 93.88 | 212.27 | | | | | | | | |
| | C95LH029 | 95.26 | 16.02 | 13.56 | 15.40 | 0.00 | 0.00 | 107.64 | 247.88 | | | | | | | | |
| D10 | | | | | | | | | | | | | | | | | |
| | D10CA001 | 46.21 | 4.93 | 24.40 | 3.78 | 0.00 | 0.00 | 66.36 | 145.68 | | | | | | | | |
| | D10CA002 | 36.04 | 3.84 | 24.40 | 3.78 | 0.00 | 0.00 | 51.76 | 119.82 | | | | | | | | |
| | D10S2001 | 66.57 | 9.75 | 47.17 | 5.77 | 0.00 | 0.00 | 95.59 | 224.85 | | | | | | | | |
| | D10S2002 | 118.44 | 17.34 | 73.59 | 9.00 | 0.00 | 0.00 | 170.08 | 388.45 | | | | | | | | |
| | D10S2003 | 81.33 | 11.98 | 61.80 | 7.56 | 1.19 | 0.18 | 116.97 | 281.01 | | | | | | | | |
| | D10WG001 | 4.69 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 6.73 | 12.11 | | | | | | | | |
| | D10WG002 | 7.44 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 10.68 | 19.21 | | | | | | | | |
| | D10WG003 | 4.76 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 6.84 | 12.30 | | | | | | | | |
| | D10WG004 | 7.36 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 10.57 | 19.01 | | | | | | | | |
| D15 | | | | | | | | | | | | | | | | | |
| | D15BI001 | 1.29 | 0.14 | 1.88 | 0.26 | 0.00 | 0.00 | 1.66 | 5.23 | | | | | | | | |
| | D15BI002 | 2.48 | 0.26 | 1.63 | 0.20 | 0.00 | 0.00 | 3.21 | 7.78 | | | | | | | | |
| | D15BI003 | 3.62 | 0.39 | 2.44 | 0.30 | 0.00 | 0.00 | 4.68 | 11.43 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| D15 | cont. | | | | | | | | | | | | | | | | |
| | D15BI004 | 5.51 | 0.59 | 3.66 | 0.45 | 0.00 | 0.00 | 7.13 | 17.34 | | | | | | | | |
| | D15BI005 | 7.39 | 0.79 | 5.04 | 0.62 | 0.00 | 0.00 | 9.56 | 23.40 | | | | | | | | |
| | D15BI006 | 11.82 | 1.26 | 9.68 | 1.18 | 0.00 | 0.00 | 15.29 | 39.23 | | | | | | | | |
| | D15BI007 | 14.57 | 1.55 | 15.37 | 1.88 | 0.00 | 0.00 | 18.84 | 52.21 | | | | | | | | |
| | D15BI008 | 16.26 | 1.73 | 15.37 | 1.88 | 0.00 | 0.00 | 21.03 | 56.27 | | | | | | | | |
| | D15VE001 | 4.12 | 0.44 | 2.03 | 0.25 | 0.00 | 0.00 | 5.33 | 12.17 | | | | | | | | |
| | D15VE002 | 6.83 | 0.73 | 3.58 | 0.44 | 0.00 | 0.00 | 8.84 | 20.42 | | | | | | | | |
| | D15VE003 | 9.60 | 1.02 | 5.12 | 0.63 | 0.00 | 0.00 | 12.42 | 28.79 | | | | | | | | |
| | D15VE004 | 9.92 | 1.06 | 6.02 | 0.74 | 0.00 | 0.00 | 12.83 | 30.57 | | | | | | | | |
| | D15VE005 | 17.33 | 1.85 | 10.17 | 1.24 | 0.00 | 0.00 | 22.41 | 53.00 | | | | | | | | |
| | D15VE006 | 25.73 | 2.74 | 11.38 | 1.39 | 0.00 | 0.00 | 33.27 | 74.51 | | | | | | | | |
| | D15VE007 | 42.56 | 4.54 | 16.26 | 1.99 | 0.00 | 0.00 | 55.04 | 120.39 | | | | | | | | |
| | D15VE008 | 47.48 | 5.06 | 18.30 | 2.24 | 0.00 | 0.00 | 61.41 | 134.49 | | | | | | | | |
| | D15VE009 | 0.56 | 0.06 | 0.86 | 0.12 | 0.00 | 0.00 | 0.72 | 2.32 | | | | | | | | |
| | D15VE010 | 1.11 | 0.12 | 1.79 | 0.22 | 0.00 | 0.00 | 1.43 | 4.67 | | | | | | | | |
| | D15VE011 | 1.68 | 0.18 | 1.79 | 0.22 | 0.00 | 0.00 | 2.17 | 6.04 | | | | | | | | |
| | D15VE012 | 3.48 | 0.37 | 2.24 | 0.27 | 0.00 | 0.00 | 4.50 | 10.86 | | | | | | | | |
| | D15XX001 | 0.80 | 0.09 | 0.98 | 0.12 | 0.00 | 0.00 | 1.04 | 3.03 | | | | | | | | |
| | D15XX002 | 1.82 | 0.19 | 1.63 | 0.20 | 0.00 | 0.00 | 2.35 | 6.19 | | | | | | | | |
| | D15XX003 | 6.90 | 0.76 | 2.44 | 0.30 | 0.35 | 0.05 | 9.01 | 19.81 | | | | | | | | |
| D20 | | | | | | | | | | | | | | | | | |
| | D20AD007 | 1.67 | 0.15 | 0.62 | 1.10 | 0.00 | 0.00 | 2.04 | 5.58 | | | | | | | | |
| | D20DN001 | 0.20 | 0.02 | 0.27 | 0.13 | 0.00 | 0.00 | 0.25 | 0.87 | | | | | | | | |
| | D20DN002 | 0.29 | 0.03 | 0.17 | 0.08 | 0.00 | 0.00 | 0.36 | 0.93 | | | | | | | | |
| | D20DN003 | 1.20 | 0.10 | 2.83 | 0.20 | 0.00 | 0.00 | 1.46 | 5.79 | | | | | | | | |
| | D20DN004 | 2.19 | 0.19 | 0.97 | 0.48 | 0.00 | 0.00 | 2.67 | 6.50 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------------------|------------------------------|-------|-------|-------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| D20 | cont. D20HG022 | 1.41 | 0.12 | 2.83 | 0.20 | 0.00 | 0.00 | 1.72 | 6.28 | | | | | | | | |
| D25 | D25AD003 | 12.70 | 1.35 | 5.61 | 0.59 | 0.00 | 0.00 | 18.24 | 38.49 | | | | | | | | |
| | D25AD004 | 6.72 | 0.72 | 2.28 | 0.24 | 0.00 | 0.00 | 9.65 | 19.61 | | | | | | | | |
| | D25EZ002 | 0.58 | 0.06 | 0.00 | 0.50 | 0.00 | 0.00 | 0.84 | 1.98 | | | | | | | | |
| | D25EZ003 | 0.64 | 0.07 | 0.00 | 0.50 | 0.00 | 0.00 | 0.92 | 2.13 | | | | | | | | |
| | D25EZ005 | 2.43 | 0.26 | 0.00 | 1.25 | 0.00 | 0.00 | 3.50 | 7.44 | | | | | | | | |
| D30 | D30HD001 | 14.58 | 1.55 | 17.08 | 4.09 | 0.00 | 0.00 | 20.93 | 58.23 | | | | | | | | |
| | D30HD002 | 18.11 | 1.93 | 21.96 | 5.69 | 0.00 | 0.00 | 26.01 | 73.70 | | | | | | | | |
| | D30HD003 | 21.90 | 2.34 | 27.24 | 7.33 | 0.00 | 0.00 | 31.45 | 90.26 | | | | | | | | |
| | D30MR001 | 1.23 | 0.13 | 1.26 | 0.18 | 0.00 | 0.00 | 1.76 | 4.56 | | | | | | | | |
| | D30MR003 | 9.92 | 1.08 | 9.23 | 1.21 | 0.33 | 0.05 | 14.32 | 36.14 | | | | | | | | |
| | D30MR005 | 21.69 | 2.33 | 12.64 | 1.62 | 0.33 | 0.05 | 31.22 | 69.88 | | | | | | | | |
| | D30MR006 | 30.09 | 3.24 | 12.13 | 1.48 | 0.54 | 0.08 | 43.32 | 90.88 | | | | | | | | |
| | D30MR007 | 24.64 | 2.65 | 12.82 | 1.56 | 0.36 | 0.06 | 35.46 | 77.55 | | | | | | | | |
| D35 | D35DT001 | 48.35 | 6.41 | 36.59 | 6.08 | 0.00 | 0.00 | 65.09 | 162.52 | | | | | | | | |
| | D35DT002 | 48.22 | 6.39 | 36.59 | 6.08 | 0.00 | 0.00 | 64.92 | 162.20 | | | | | | | | |
| | D35DT003 | 53.67 | 7.11 | 36.59 | 6.08 | 0.00 | 0.00 | 72.25 | 175.70 | | | | | | | | |
| | D35DT004 | 57.95 | 7.68 | 42.69 | 7.09 | 0.00 | 0.00 | 78.01 | 193.42 | | | | | | | | |
| | D35DT005 | 85.87 | 11.38 | 61.80 | 10.26 | 0.00 | 0.00 | 115.60 | 284.91 | | | | | | | | |
| | D35DT006 | 60.06 | 10.10 | 61.80 | 8.63 | 0.00 | 0.00 | 80.86 | 221.45 | | | | | | | | |
| | D35RL007 | 44.23 | 5.91 | 50.65 | 8.41 | 0.96 | 0.15 | 59.64 | 169.95 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|--------|-------|-----------|-------------|--------|-----------------------------|-------|------|--------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| D35 | cont. | | | | | | | | | | | | | | | | |
| | D35WG001 | 34.94 | 5.93 | 43.12 | 6.02 | 1.03 | 0.16 | 47.12 | 138.32 | | | | | | | | |
| | D35WG002 | 35.61 | 6.04 | 60.88 | 8.50 | 1.03 | 0.16 | 48.02 | 160.24 | | | | | | | | |
| | D35WG003 | 38.51 | 6.53 | 60.88 | 8.50 | 1.03 | 0.16 | 51.93 | 167.54 | | | | | | | | |
| | D35WG004 | 36.44 | 6.18 | 38.55 | 5.38 | 1.03 | 0.16 | 49.15 | 136.89 | | | | | | | | |
| | D35WG005 | 39.53 | 6.70 | 38.55 | 5.38 | 1.03 | 0.16 | 53.31 | 144.66 | | | | | | | | |
| F10 | | | | | | | | | | | | | | | | | |
| | F10JC001 | 6.19 | 0.63 | 4.91 | 0.51 | 1.03 | 0.16 | 6.27 | 19.70 | | | | | | | | |
| | F10JC002 | 6.93 | 0.70 | 4.91 | 0.51 | 1.03 | 0.16 | 7.02 | 21.26 | | | | | | | | |
| G10 | | | | | | | | | | | | | | | | | |
| | G10CA012 | 7.39 | 0.59 | 31.84 | 3.33 | 0.00 | 0.00 | 6.02 | 49.17 | 9.23 | 0.61 | 42.12 | 4.41 | 0.00 | 0.00 | 8.60 | 64.97 |
| | G10CA013 | 7.92 | 0.64 | 31.84 | 3.33 | 0.00 | 0.00 | 6.45 | 50.18 | 9.90 | 0.65 | 42.12 | 4.41 | 0.00 | 0.00 | 9.21 | 66.29 |
| | G10CA014 | 8.77 | 0.70 | 45.71 | 4.78 | 0.00 | 0.00 | 7.14 | 67.10 | 10.96 | 0.72 | 60.45 | 6.33 | 0.00 | 0.00 | 10.20 | 88.66 |
| | G10CA015 | 11.44 | 0.92 | 45.58 | 4.77 | 0.00 | 0.00 | 9.32 | 72.03 | 14.30 | 0.94 | 60.28 | 6.31 | 0.00 | 0.00 | 13.32 | 95.15 |
| | G10CA017 | 18.03 | 1.45 | 80.54 | 8.43 | 0.00 | 0.00 | 14.68 | 123.13 | 22.54 | 1.48 | 106.52 | 11.15 | 0.00 | 0.00 | 20.98 | 162.67 |
| | G10CA018 | 17.48 | 1.40 | 97.79 | 10.23 | 0.00 | 0.00 | 14.23 | 141.13 | 21.85 | 1.44 | 129.33 | 13.53 | 0.00 | 0.00 | 20.34 | 186.49 |
| | G10CA019 | 39.26 | 3.15 | 139.31 | 14.58 | 0.00 | 0.00 | 31.97 | 228.27 | 49.07 | 3.22 | 184.25 | 19.28 | 0.00 | 0.00 | 45.69 | 301.51 |
| | G10CA021 | 12.06 | 0.97 | 59.71 | 6.25 | 0.00 | 0.00 | 9.83 | 88.82 | 15.08 | 0.99 | 78.97 | 8.26 | 0.00 | 0.00 | 14.04 | 117.34 |
| | G10CA022 | 4.22 | 0.34 | 20.03 | 2.10 | 0.00 | 0.00 | 3.43 | 30.12 | 5.27 | 0.35 | 26.50 | 2.77 | 0.00 | 0.00 | 4.91 | 39.80 |
| | G10WC001 | 0.25 | 0.02 | 1.03 | 0.11 | 0.00 | 0.00 | 0.18 | 1.59 | 0.29 | 0.02 | 1.34 | 0.14 | 0.00 | 0.00 | 0.23 | 2.02 |
| | G10WC002 | 0.29 | 0.02 | 1.41 | 0.15 | 0.00 | 0.00 | 0.20 | 2.07 | 0.33 | 0.02 | 1.85 | 0.19 | 0.00 | 0.00 | 0.27 | 2.66 |
| | G10WC003 | 0.47 | 0.03 | 2.06 | 0.22 | 0.00 | 0.00 | 0.33 | 3.11 | 0.53 | 0.03 | 2.69 | 0.28 | 0.00 | 0.00 | 0.44 | 3.97 |
| | G10WC004 | 0.53 | 0.04 | 2.32 | 0.24 | 0.00 | 0.00 | 0.37 | 3.50 | 0.61 | 0.04 | 3.02 | 0.32 | 0.00 | 0.00 | 0.50 | 4.49 |
| | G10WC005 | 0.55 | 0.04 | 1.74 | 0.18 | 0.00 | 0.00 | 0.39 | 2.90 | 0.63 | 0.04 | 2.27 | 0.24 | 0.00 | 0.00 | 0.52 | 3.70 |
| | G10XX001 | 0.12 | 0.01 | 0.77 | 0.08 | 0.00 | 0.00 | 0.08 | 1.06 | 0.14 | 0.01 | 1.01 | 0.11 | 0.00 | 0.00 | 0.11 | 1.38 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|-------|------|--------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| G10 | cont. | | | | | | | | | | | | | | | | |
| | G10XX002 | 0.18 | 0.01 | 2.06 | 0.22 | 0.00 | 0.00 | 0.13 | 2.60 | 0.20 | 0.01 | 2.69 | 0.28 | 0.00 | 0.00 | 0.17 | 3.35 |
| | G10XX004 | 0.41 | 0.03 | 1.29 | 0.14 | 0.00 | 0.00 | 0.28 | 2.15 | 0.46 | 0.03 | 1.68 | 0.18 | 0.00 | 0.00 | 0.38 | 2.73 |
| | G10XX005 | 1.41 | 0.11 | 3.25 | 0.34 | 0.00 | 0.00 | 1.15 | 6.26 | 1.77 | 0.12 | 4.30 | 0.45 | 0.00 | 0.00 | 1.64 | 8.28 |
| | G10XX006 | 1.37 | 0.11 | 3.18 | 0.33 | 0.00 | 0.00 | 1.11 | 6.10 | 1.71 | 0.11 | 4.21 | 0.44 | 0.00 | 0.00 | 1.59 | 8.06 |
| | G10XX007 | 1.44 | 0.12 | 5.64 | 0.59 | 0.00 | 0.00 | 1.17 | 8.96 | 1.80 | 0.12 | 7.46 | 0.78 | 0.00 | 0.00 | 1.67 | 11.83 |
| | G10XX008 | 3.90 | 0.31 | 8.36 | 0.87 | 0.00 | 0.00 | 3.18 | 16.62 | 4.88 | 0.32 | 11.06 | 1.16 | 0.00 | 0.00 | 4.54 | 21.96 |
| | G10XX009 | 4.44 | 0.36 | 10.48 | 1.10 | 0.00 | 0.00 | 3.62 | 20.00 | 5.55 | 0.36 | 13.86 | 1.45 | 0.00 | 0.00 | 5.17 | 26.39 |
| | G10XX010 | 2.99 | 0.24 | 13.07 | 1.37 | 0.00 | 0.00 | 2.44 | 20.11 | 3.74 | 0.25 | 17.28 | 1.81 | 0.00 | 0.00 | 3.48 | 26.56 |
| | G10XX011 | 4.46 | 0.36 | 24.08 | 2.52 | 0.00 | 0.00 | 3.63 | 35.05 | 5.58 | 0.37 | 31.85 | 3.33 | 0.00 | 0.00 | 5.19 | 46.32 |
| | G10XX012 | 7.98 | 0.64 | 28.39 | 2.97 | 0.00 | 0.00 | 6.50 | 46.48 | 9.98 | 0.66 | 37.55 | 3.93 | 0.00 | 0.00 | 9.29 | 61.41 |
| | G10XX013 | 9.66 | 0.78 | 45.71 | 4.78 | 0.00 | 0.00 | 7.87 | 68.80 | 12.07 | 0.79 | 60.45 | 6.33 | 0.00 | 0.00 | 11.24 | 90.88 |
| | G10XX014 | 12.06 | 0.97 | 59.71 | 6.25 | 0.00 | 0.00 | 9.83 | 88.82 | 15.08 | 0.99 | 78.97 | 8.26 | 0.00 | 0.00 | 14.04 | 117.34 |
| | G10XX015 | 17.96 | 1.44 | 80.54 | 8.43 | 0.00 | 0.00 | 14.62 | 122.99 | 22.44 | 1.47 | 106.52 | 11.15 | 0.00 | 0.00 | 20.90 | 162.48 |
| | G10XX016 | 17.33 | 1.39 | 97.79 | 10.23 | 0.00 | 0.00 | 14.12 | 140.86 | 21.67 | 1.42 | 129.33 | 13.53 | 0.00 | 0.00 | 20.17 | 186.12 |
| G15 | | | | | | | | | | | | | | | | | |
| | G15CA001 | 16.07 | 2.49 | 9.00 | 1.33 | 2.15 | 0.33 | 17.57 | 48.94 | 17.26 | 2.50 | 11.48 | 1.70 | 7.08 | 1.09 | 21.39 | 62.50 |
| | G15CA003 | 19.26 | 3.01 | 11.11 | 1.65 | 3.67 | 0.57 | 21.10 | 60.37 | 20.69 | 3.02 | 14.17 | 2.10 | 12.11 | 1.87 | 25.69 | 79.65 |
| | G15CA004 | 20.47 | 3.19 | 12.41 | 1.84 | 3.67 | 0.57 | 22.41 | 64.56 | 21.98 | 3.20 | 15.84 | 2.35 | 12.11 | 1.87 | 27.29 | 84.64 |
| | G15CA005 | 28.68 | 4.41 | 16.07 | 2.38 | 2.47 | 0.38 | 31.28 | 85.67 | 30.81 | 4.42 | 20.51 | 3.04 | 8.14 | 1.26 | 38.09 | 106.27 |
| | G15CA006 | 48.35 | 7.49 | 18.43 | 2.73 | 6.68 | 1.03 | 52.84 | 137.55 | 51.93 | 7.52 | 23.52 | 3.49 | 22.04 | 3.41 | 64.35 | 176.26 |
| | G15CA009 | 21.70 | 3.40 | 13.22 | 1.96 | 2.80 | 0.43 | 23.78 | 67.29 | 23.30 | 3.41 | 16.87 | 2.50 | 9.24 | 1.43 | 28.96 | 85.71 |
| | G15CA010 | 20.63 | 3.22 | 15.64 | 2.32 | 4.15 | 0.64 | 22.59 | 69.19 | 22.16 | 3.23 | 19.95 | 2.96 | 14.01 | 2.16 | 27.51 | 91.98 |
| | G15CA011 | 20.58 | 3.21 | 12.41 | 1.84 | 3.67 | 0.57 | 22.53 | 64.81 | 22.10 | 3.22 | 15.84 | 2.35 | 12.11 | 1.87 | 27.43 | 84.92 |
| | G15CA012 | 26.70 | 4.14 | 18.18 | 2.70 | 4.15 | 0.64 | 29.19 | 85.70 | 28.68 | 4.15 | 23.20 | 3.44 | 14.01 | 2.16 | 35.54 | 111.18 |
| | G15JD008 | 14.02 | 2.22 | 9.37 | 1.39 | 3.67 | 0.57 | 15.41 | 46.65 | 15.06 | 2.23 | 11.96 | 1.77 | 12.11 | 1.87 | 18.76 | 63.76 |
| | G15JD009 | 14.88 | 2.35 | 9.68 | 1.44 | 4.15 | 0.64 | 16.34 | 49.48 | 15.99 | 2.36 | 12.35 | 1.83 | 14.01 | 2.16 | 19.90 | 68.60 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| G15 | cont. | | | | | | | | | | | | | | | | |
| | G15JD010 | 15.20 | 2.40 | 11.48 | 1.70 | 3.67 | 0.57 | 16.68 | 51.70 | 16.32 | 2.40 | 14.65 | 2.17 | 12.11 | 1.87 | 20.31 | 69.83 |
| | G15JD011 | 17.64 | 2.77 | 12.72 | 1.89 | 4.15 | 0.64 | 19.33 | 59.14 | 18.94 | 2.77 | 16.23 | 2.41 | 14.01 | 2.16 | 23.54 | 80.06 |
| H10 | | | | | | | | | | | | | | | | | |
| | H10NP019 | 0.94 | 0.06 | 0.00 | 0.80 | 0.00 | 0.00 | 1.26 | 3.06 | | | | | | | | |
| | H10NP020 | 0.98 | 0.06 | 0.00 | 0.80 | 0.00 | 0.00 | 1.31 | 3.15 | | | | | | | | |
| | H10NP021 | 1.15 | 0.07 | 0.00 | 1.20 | 0.00 | 0.00 | 1.54 | 3.96 | | | | | | | | |
| | H10NP022 | 1.43 | 0.09 | 0.00 | 1.20 | 0.00 | 0.00 | 1.91 | 4.63 | | | | | | | | |
| | H10NP023 | 1.87 | 0.11 | 0.00 | 1.60 | 0.00 | 0.00 | 2.49 | 6.07 | | | | | | | | |
| | H10NP024 | 2.97 | 0.18 | 0.00 | 1.60 | 0.00 | 0.00 | 3.97 | 8.72 | | | | | | | | |
| | H10NP025 | 5.30 | 0.32 | 0.00 | 2.00 | 0.00 | 0.00 | 7.08 | 14.70 | | | | | | | | |
| | H10NP026 | 6.77 | 0.41 | 0.00 | 2.00 | 0.00 | 0.00 | 9.04 | 18.22 | | | | | | | | |
| | H10NP027 | 7.95 | 0.49 | 0.00 | 2.00 | 0.00 | 0.00 | 10.62 | 21.06 | | | | | | | | |
| | H10NP028 | 11.09 | 0.68 | 0.00 | 2.40 | 0.00 | 0.00 | 14.82 | 28.99 | | | | | | | | |
| | H10NP029 | 14.49 | 0.88 | 0.00 | 2.40 | 0.00 | 0.00 | 19.36 | 37.13 | | | | | | | | |
| | H10NP030 | 35.49 | 2.17 | 0.00 | 2.40 | 0.00 | 0.00 | 47.43 | 87.49 | | | | | | | | |
| H13 | | | | | | | | | | | | | | | | | |
| | H13BC003 | 5.17 | 0.22 | 0.32 | 0.17 | 0.00 | 0.00 | 4.83 | 10.71 | | | | | | | | |
| | H13BC006 | 3.45 | 0.15 | 0.19 | 0.10 | 0.00 | 0.00 | 3.23 | 7.12 | | | | | | | | |
| | H13BC008 | 7.02 | 0.30 | 0.32 | 0.17 | 0.00 | 0.00 | 6.57 | 14.38 | | | | | | | | |
| | H13BC011 | 5.17 | 0.22 | 0.32 | 0.17 | 0.00 | 0.00 | 4.83 | 10.71 | | | | | | | | |
| | H13BC012 | 3.64 | 0.16 | 0.19 | 0.10 | 0.00 | 0.00 | 3.40 | 7.49 | | | | | | | | |
| | H13BC013 | 2.88 | 0.12 | 0.19 | 0.10 | 0.00 | 0.00 | 2.69 | 5.98 | | | | | | | | |
| | H13CB001 | 2.43 | 0.21 | 0.32 | 0.42 | 0.00 | 0.00 | 2.44 | 5.82 | | | | | | | | |
| | H13CB002 | 2.63 | 0.23 | 0.63 | 0.59 | 0.00 | 0.00 | 2.64 | 6.72 | | | | | | | | |
| | H13CO002 | 1.32 | 0.12 | 0.32 | 0.42 | 0.00 | 0.00 | 1.33 | 3.51 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H13 | cont. | | | | | | | | | | | | | | | | |
| | H13CO003 | 2.84 | 0.33 | 0.19 | 0.35 | 0.00 | 0.00 | 3.42 | 7.13 | | | | | | | | |
| | H13CO004 | 3.69 | 0.42 | 0.19 | 0.60 | 0.00 | 0.00 | 4.44 | 9.34 | | | | | | | | |
| | H13CO005 | 5.23 | 0.60 | 0.19 | 0.60 | 0.00 | 0.00 | 6.29 | 12.91 | | | | | | | | |
| | H13CO006 | 5.00 | 0.57 | 0.19 | 0.45 | 0.00 | 0.00 | 6.01 | 12.22 | | | | | | | | |
| | H13DC001 | 4.38 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 5.27 | 10.07 | | | | | | | | |
| | H13DC002 | 10.75 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 12.93 | 24.72 | | | | | | | | |
| | H13DC003 | 14.69 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 17.67 | 33.78 | | | | | | | | |
| | H13DC004 | 16.69 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 20.07 | 38.37 | | | | | | | | |
| | H13DC005 | 13.05 | 1.18 | 0.00 | 0.10 | 0.68 | 0.11 | 13.18 | 28.30 | | | | | | | | |
| | H13DC006 | 17.25 | 1.55 | 0.00 | 0.60 | 0.68 | 0.11 | 17.40 | 37.59 | | | | | | | | |
| | H13DC007 | 6.35 | 0.59 | 0.00 | 0.60 | 0.68 | 0.11 | 6.43 | 14.76 | | | | | | | | |
| | H13DC008 | 19.31 | 1.73 | 0.00 | 0.60 | 0.68 | 0.11 | 19.47 | 41.90 | | | | | | | | |
| | H13EP001 | 2.92 | 0.26 | 0.32 | 0.42 | 0.00 | 0.00 | 2.94 | 6.86 | | | | | | | | |
| | H13EP002 | 3.06 | 0.35 | 0.47 | 0.56 | 0.00 | 0.00 | 3.68 | 8.12 | | | | | | | | |
| | H13EV001 | 5.42 | 0.52 | 0.09 | 0.05 | 0.00 | 0.00 | 6.52 | 12.60 | | | | | | | | |
| | H13EV002 | 48.48 | 4.27 | 0.19 | 1.60 | 0.00 | 0.00 | 48.76 | 103.30 | | | | | | | | |
| | H13EV003 | 11.38 | 1.10 | 0.09 | 0.05 | 0.00 | 0.00 | 13.68 | 26.30 | | | | | | | | |
| | H13EV004 | 22.27 | 2.15 | 0.19 | 0.10 | 0.00 | 0.00 | 26.79 | 51.50 | | | | | | | | |
| | H13EV005 | 25.26 | 2.44 | 0.63 | 0.34 | 0.00 | 0.00 | 30.38 | 59.05 | | | | | | | | |
| | H13EV006 | 7.47 | 0.69 | 0.09 | 0.65 | 0.68 | 0.11 | 7.56 | 17.25 | | | | | | | | |
| | H13EV007 | 13.84 | 1.25 | 0.09 | 0.65 | 0.68 | 0.11 | 13.97 | 30.59 | | | | | | | | |
| | H13EV008 | 25.34 | 2.26 | 0.19 | 0.70 | 0.68 | 0.11 | 25.53 | 54.81 | | | | | | | | |
| | H13I2001 | 11.13 | 0.44 | 0.19 | 0.09 | 0.00 | 0.00 | 14.00 | 25.85 | | | | | | | | |
| | H13MN001 | 35.12 | 3.12 | 9.46 | 7.65 | 0.43 | 0.07 | 39.80 | 95.65 | | | | | | | | |
| | H13MN002 | 40.95 | 3.64 | 12.61 | 10.20 | 0.50 | 0.08 | 46.42 | 114.40 | | | | | | | | |
| | H13MN003 | 48.32 | 4.29 | 12.61 | 11.20 | 0.50 | 0.08 | 54.76 | 131.76 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H13 | cont. | | | | | | | | | | | | | | | | |
| | H13MN004 | 53.74 | 4.77 | 18.92 | 15.30 | 0.50 | 0.08 | 60.88 | 154.19 | | | | | | | | |
| | H13S5001 | 5.58 | 0.49 | 0.19 | 0.10 | 0.00 | 0.00 | 5.62 | 11.98 | | | | | | | | |
| | H13S5002 | 8.75 | 0.77 | 0.32 | 0.17 | 0.00 | 0.00 | 8.80 | 18.81 | | | | | | | | |
| | H13S5003 | 10.39 | 0.92 | 0.32 | 0.17 | 0.00 | 0.00 | 10.45 | 22.25 | | | | | | | | |
| | H13SH001 | 3.62 | 0.32 | 1.26 | 0.62 | 0.00 | 0.00 | 4.10 | 9.92 | | | | | | | | |
| | H13SH002 | 3.39 | 0.30 | 1.26 | 0.62 | 0.00 | 0.00 | 3.84 | 9.41 | | | | | | | | |
| | H13SH005 | 16.01 | 1.41 | 6.31 | 3.10 | 0.00 | 0.00 | 18.12 | 44.95 | | | | | | | | |
| | H13SH006 | 21.47 | 1.89 | 12.61 | 6.20 | 0.00 | 0.00 | 24.30 | 66.47 | | | | | | | | |
| | H13SH007 | 25.91 | 2.28 | 12.61 | 6.20 | 0.00 | 0.00 | 29.32 | 76.32 | | | | | | | | |
| | H13TH001 | 1.14 | 0.10 | 0.32 | 0.17 | 0.00 | 0.00 | 1.15 | 2.88 | | | | | | | | |
| | H13TH002 | 1.94 | 0.17 | 0.60 | 0.06 | 0.05 | 0.01 | 1.96 | 4.79 | | | | | | | | |
| | H13TH003 | 2.07 | 0.19 | 0.60 | 0.06 | 0.05 | 0.01 | 2.09 | 5.07 | | | | | | | | |
| | H13XX001 | 4.84 | 0.19 | 0.63 | 0.31 | 0.00 | 0.00 | 6.09 | 12.06 | | | | | | | | |
| | H13XX002 | 27.06 | 1.07 | 0.09 | 0.04 | 0.00 | 0.00 | 34.04 | 62.30 | | | | | | | | |
| | H13XX003 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.22 | | | | | | | | |
| | H13XX004 | 0.20 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.46 | | | | | | | | |
| | H13YB004 | 0.56 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 1.17 | | | | | | | | |
| H20 | | | | | | | | | | | | | | | | | |
| | H20IR002 | 3.89 | 0.34 | 0.00 | 0.20 | 0.00 | 0.00 | 4.16 | 8.59 | | | | | | | | |
| | H20IR003 | 4.11 | 0.36 | 0.00 | 0.30 | 0.00 | 0.00 | 4.40 | 9.17 | | | | | | | | |
| | H20IR004 | 6.70 | 0.59 | 0.00 | 0.40 | 0.00 | 0.00 | 7.16 | 14.85 | | | | | | | | |
| H25 | | | | | | | | | | | | | | | | | |
| | H25AU007 | 0.97 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 2.24 | | | | | | | | |
| | H25AU008 | 1.32 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 3.05 | | | | | | | | |
| | H25AU009 | 1.88 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 4.34 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H25 | cont. | | | | | | | | | | | | | | | | |
| | H25AU010 | 2.80 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 3.52 | 6.48 | | | | | | | | |
| | H25AU011 | 0.82 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 1.90 | | | | | | | | |
| | H25AX001 | 1.31 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 3.02 | | | | | | | | |
| | H25AX002 | 1.48 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 3.42 | | | | | | | | |
| | H25AX003 | 1.62 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | 3.75 | | | | | | | | |
| | H25AX004 | 1.90 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 4.40 | | | | | | | | |
| | H25AX005 | 2.03 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 4.69 | | | | | | | | |
| | H25AX006 | 2.44 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 3.07 | 5.65 | | | | | | | | |
| | H25BS001 | 1.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.11 | 2.21 | | | | | | | | |
| | H25BS002 | 1.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 2.24 | | | | | | | | |
| | H25BS003 | 1.38 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.48 | 2.94 | | | | | | | | |
| | H25BS004 | 1.83 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 3.90 | | | | | | | | |
| | H25BS005 | 2.48 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.65 | 5.28 | | | | | | | | |
| | H25CA001 | 24.77 | 3.13 | 20.10 | 3.08 | 0.00 | 0.00 | 28.07 | 79.15 | 29.73 | 3.17 | 26.59 | 4.08 | 0.00 | 0.00 | 40.03 | 103.60 |
| | H25CA002 | 24.98 | 4.16 | 28.19 | 1.36 | 0.00 | 0.00 | 35.40 | 94.09 | 29.61 | 4.19 | 37.29 | 1.81 | 0.00 | 0.00 | 46.14 | 119.04 |
| | H25CA003 | 26.32 | 4.38 | 27.66 | 1.34 | 0.00 | 0.00 | 37.31 | 97.01 | 31.20 | 4.41 | 36.59 | 1.77 | 0.00 | 0.00 | 48.63 | 122.60 |
| | H25CA004 | 39.54 | 6.58 | 31.31 | 1.52 | 0.00 | 0.00 | 56.04 | 134.99 | 46.86 | 6.63 | 41.41 | 2.00 | 0.00 | 0.00 | 73.04 | 169.94 |
| | H25CA005 | 44.71 | 8.76 | 34.76 | 1.83 | 0.00 | 0.00 | 69.68 | 159.74 | 56.63 | 8.86 | 45.98 | 2.42 | 0.00 | 0.00 | 100.34 | 214.23 |
| | H25CA020 | 16.30 | 1.50 | 4.64 | 0.71 | 0.00 | 0.00 | 16.17 | 39.32 | 19.79 | 1.52 | 6.14 | 0.94 | 0.00 | 0.00 | 23.85 | 52.24 |
| | H25CA021 | 17.89 | 1.64 | 6.04 | 0.93 | 0.00 | 0.00 | 17.75 | 44.25 | 21.73 | 1.67 | 7.98 | 1.22 | 0.00 | 0.00 | 26.19 | 58.79 |
| | H25CA022 | 15.78 | 2.00 | 10.15 | 1.56 | 0.00 | 0.00 | 17.88 | 47.37 | 18.94 | 2.02 | 13.42 | 2.06 | 0.00 | 0.00 | 25.50 | 61.94 |
| | H25CA023 | 21.09 | 2.67 | 8.49 | 1.30 | 0.00 | 0.00 | 23.90 | 57.45 | 25.31 | 2.70 | 11.23 | 1.72 | 0.00 | 0.00 | 34.08 | 75.04 |
| | H25CA034 | 3.45 | 0.30 | 1.19 | 0.18 | 0.00 | 0.00 | 3.42 | 8.54 | 3.94 | 0.30 | 1.58 | 0.24 | 0.00 | 0.00 | 4.47 | 10.53 |
| | H25CA035 | 5.46 | 0.47 | 2.12 | 0.33 | 0.00 | 0.00 | 5.41 | 13.79 | 6.24 | 0.48 | 2.81 | 0.43 | 0.00 | 0.00 | 7.07 | 17.03 |
| | H25CA036 | 6.80 | 0.59 | 2.79 | 0.43 | 0.00 | 0.00 | 6.75 | 17.36 | 7.77 | 0.60 | 3.69 | 0.57 | 0.00 | 0.00 | 8.81 | 21.44 |
| | H25CA038 | 12.08 | 1.11 | 4.31 | 0.66 | 0.00 | 0.00 | 11.98 | 30.14 | 14.67 | 1.13 | 5.70 | 0.87 | 0.00 | 0.00 | 17.68 | 40.05 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H25 | cont. | | | | | | | | | | | | | | | | |
| | H25CA040 | 16.83 | 2.13 | 7.50 | 1.15 | 0.00 | 0.00 | 19.08 | 46.69 | 20.20 | 2.15 | 9.91 | 1.52 | 0.00 | 0.00 | 27.20 | 60.98 |
| | H25CA055 | 3.30 | 0.18 | 0.00 | 0.40 | 0.00 | 0.00 | 3.74 | 7.62 | | | | | | | | |
| | H25CA057 | 13.21 | 0.74 | 0.00 | 0.80 | 0.00 | 0.00 | 14.95 | 29.70 | | | | | | | | |
| | H25CA065 | 40.23 | 7.89 | 34.70 | 1.82 | 0.00 | 0.00 | 62.70 | 147.34 | 50.95 | 7.97 | 45.89 | 2.41 | 0.00 | 0.00 | 90.29 | 197.51 |
| | H25CA066 | 16.79 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 19.01 | 36.74 | | | | | | | | |
| | H25CA067 | 19.81 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 22.42 | 43.34 | | | | | | | | |
| | H25CA068 | 7.77 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 9.78 | 17.98 | | | | | | | | |
| | H25CA069 | 9.38 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 11.79 | 21.69 | | | | | | | | |
| | H25CA070 | 13.16 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 16.55 | 30.44 | | | | | | | | |
| | H25FU001 | 5.37 | 0.30 | 0.00 | 0.50 | 0.00 | 0.00 | 6.75 | 12.92 | | | | | | | | |
| | H25FU002 | 7.74 | 0.43 | 0.00 | 0.50 | 0.00 | 0.00 | 9.74 | 18.41 | | | | | | | | |
| | H25FU003 | 17.64 | 0.98 | 0.00 | 1.00 | 0.00 | 0.00 | 22.18 | 41.80 | | | | | | | | |
| | H25FU004 | 0.92 | 0.05 | 0.00 | 0.15 | 0.00 | 0.00 | 1.16 | 2.28 | | | | | | | | |
| | H25FU005 | 1.87 | 0.10 | 0.00 | 0.15 | 0.00 | 0.00 | 2.35 | 4.47 | | | | | | | | |
| | H25FU006 | 2.58 | 0.14 | 0.00 | 0.15 | 0.00 | 0.00 | 3.24 | 6.11 | | | | | | | | |
| | H25KC017 | 9.24 | 0.85 | 3.58 | 0.55 | 0.00 | 0.00 | 9.16 | 23.38 | 11.22 | 0.86 | 4.74 | 0.73 | 0.00 | 0.00 | 13.52 | 31.07 |
| | H25KC019 | 13.16 | 1.66 | 9.49 | 1.46 | 0.00 | 0.00 | 14.91 | 40.68 | 15.79 | 1.68 | 12.55 | 1.93 | 0.00 | 0.00 | 21.26 | 53.21 |
| | H25KC020 | 17.49 | 2.21 | 9.49 | 1.46 | 0.00 | 0.00 | 19.82 | 50.47 | 20.98 | 2.24 | 12.55 | 1.93 | 0.00 | 0.00 | 28.26 | 65.96 |
| | H25KC027 | 14.96 | 1.37 | 6.16 | 0.95 | 0.00 | 0.00 | 14.84 | 38.28 | 18.16 | 1.40 | 8.14 | 1.25 | 0.00 | 0.00 | 21.89 | 50.84 |
| | H25KC028 | 16.23 | 2.05 | 11.68 | 1.79 | 0.00 | 0.00 | 18.40 | 50.15 | 19.48 | 2.08 | 15.44 | 2.37 | 0.00 | 0.00 | 26.23 | 65.60 |
| | H25KC029 | 21.63 | 2.74 | 11.68 | 1.79 | 0.00 | 0.00 | 24.52 | 62.36 | 25.96 | 2.77 | 15.44 | 2.37 | 0.00 | 0.00 | 34.96 | 81.50 |
| | H25KC030 | 21.59 | 2.73 | 15.79 | 2.42 | 0.00 | 0.00 | 24.46 | 66.99 | 25.90 | 2.76 | 20.88 | 3.20 | 0.00 | 0.00 | 34.88 | 87.62 |
| | H25KC031 | 22.51 | 3.74 | 22.89 | 1.11 | 0.00 | 0.00 | 31.90 | 82.15 | 26.68 | 3.77 | 30.27 | 1.47 | 0.00 | 0.00 | 41.58 | 103.77 |
| | H25KM001 | 14.85 | 1.36 | 6.24 | 0.96 | 0.00 | 0.00 | 14.73 | 38.14 | 18.03 | 1.39 | 8.25 | 1.27 | 0.00 | 0.00 | 21.73 | 50.67 |
| | H25KM003 | 15.97 | 1.47 | 7.63 | 1.17 | 0.00 | 0.00 | 15.84 | 42.08 | 19.39 | 1.49 | 10.09 | 1.55 | 0.00 | 0.00 | 23.38 | 55.90 |
| | H25KM009 | 41.14 | 8.07 | 32.31 | 1.70 | 0.00 | 0.00 | 64.13 | 147.35 | 52.11 | 8.15 | 42.73 | 2.24 | 0.00 | 0.00 | 92.35 | 197.58 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H25 | cont. | | | | | | | | | | | | | | | | |
| | H25KM015 | 40.01 | 6.66 | 28.46 | 1.38 | 0.00 | 0.00 | 56.71 | 133.22 | 47.42 | 6.71 | 37.64 | 1.82 | 0.00 | 0.00 | 73.91 | 167.50 |
| | H25KM018 | 4.00 | 0.35 | 1.72 | 0.26 | 0.00 | 0.00 | 3.97 | 10.30 | 4.57 | 0.35 | 2.28 | 0.35 | 0.00 | 0.00 | 5.18 | 12.73 |
| | H25KM021 | 5.77 | 0.50 | 2.52 | 0.39 | 0.00 | 0.00 | 5.73 | 14.91 | 6.60 | 0.51 | 3.33 | 0.51 | 0.00 | 0.00 | 7.48 | 18.43 |
| | H25KM022 | 6.96 | 0.60 | 2.52 | 0.39 | 0.00 | 0.00 | 6.90 | 17.37 | 7.95 | 0.61 | 3.33 | 0.51 | 0.00 | 0.00 | 9.02 | 21.42 |
| | H25KM023 | 10.68 | 0.93 | 4.31 | 0.66 | 0.00 | 0.00 | 10.60 | 27.18 | 12.21 | 0.94 | 5.70 | 0.87 | 0.00 | 0.00 | 13.83 | 33.55 |
| | H25KM033 | 94.98 | 18.62 | 64.75 | 3.40 | 0.00 | 0.00 | 148.05 | 329.80 | 120.31 | 18.82 | 85.63 | 4.50 | 0.00 | 0.00 | 213.19 | 442.45 |
| | H25KM034 | 11.52 | 1.00 | 4.38 | 0.67 | 0.00 | 0.00 | 11.43 | 29.00 | 13.17 | 1.01 | 5.79 | 0.89 | 0.00 | 0.00 | 14.92 | 35.78 |
| | H25LB003 | 15.17 | 1.39 | 6.30 | 0.97 | 0.00 | 0.00 | 15.04 | 38.87 | 18.41 | 1.42 | 8.34 | 1.28 | 0.00 | 0.00 | 22.20 | 51.65 |
| | H25LB005 | 17.73 | 1.63 | 7.96 | 1.22 | 0.00 | 0.00 | 17.59 | 46.13 | 21.53 | 1.66 | 10.53 | 1.62 | 0.00 | 0.00 | 25.95 | 61.29 |
| | H25LU001 | 4.04 | 0.23 | 0.00 | 0.40 | 0.00 | 0.00 | 4.57 | 9.24 | | | | | | | | |
| | H25LU002 | 4.56 | 0.25 | 0.00 | 0.50 | 0.00 | 0.00 | 5.16 | 10.47 | | | | | | | | |
| | H25LU003 | 9.37 | 0.52 | 0.00 | 0.80 | 0.00 | 0.00 | 10.60 | 21.29 | | | | | | | | |
| | H25LU004 | 10.43 | 0.58 | 0.00 | 0.90 | 0.00 | 0.00 | 11.80 | 23.71 | | | | | | | | |
| | H25LU005 | 12.64 | 0.71 | 0.00 | 1.10 | 0.00 | 0.00 | 14.31 | 28.76 | | | | | | | | |
| | H25LU006 | 13.73 | 0.77 | 0.00 | 1.50 | 0.00 | 0.00 | 15.54 | 31.54 | | | | | | | | |
| | H25LU007 | 15.50 | 0.86 | 0.00 | 1.40 | 0.00 | 0.00 | 17.54 | 35.30 | | | | | | | | |
| | H25LU008 | 18.28 | 1.02 | 0.00 | 1.60 | 0.00 | 0.00 | 20.69 | 41.59 | | | | | | | | |
| | H25LU009 | 17.27 | 0.96 | 0.00 | 1.70 | 0.00 | 0.00 | 19.54 | 39.47 | | | | | | | | |
| | H25LU010 | 21.92 | 1.22 | 0.00 | 2.00 | 0.00 | 0.00 | 24.81 | 49.95 | | | | | | | | |
| | H25LU011 | 24.30 | 1.36 | 0.00 | 2.00 | 0.00 | 0.00 | 27.51 | 55.17 | | | | | | | | |
| | H25LU012 | 29.01 | 1.62 | 0.00 | 2.50 | 0.00 | 0.00 | 32.83 | 65.96 | | | | | | | | |
| | H25LU013 | 28.97 | 1.62 | 0.00 | 2.60 | 0.00 | 0.00 | 32.79 | 65.98 | | | | | | | | |
| | H25LU014 | 34.63 | 1.93 | 0.00 | 3.00 | 0.00 | 0.00 | 39.20 | 78.76 | | | | | | | | |
| | H25LU023 | 5.14 | 0.31 | 0.00 | 0.25 | 0.00 | 0.00 | 5.49 | 11.19 | | | | | | | | |
| | H25LU024 | 1.99 | 0.12 | 0.00 | 0.30 | 0.00 | 0.00 | 2.13 | 4.54 | | | | | | | | |
| | H25LU025 | 2.57 | 0.16 | 0.00 | 0.40 | 0.00 | 0.00 | 2.75 | 5.88 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H25 | cont. | | | | | | | | | | | | | | | | |
| | H25LU026 | 3.23 | 0.20 | 0.00 | 0.50 | 0.00 | 0.00 | 3.45 | 7.38 | | | | | | | | |
| | H25LU027 | 3.60 | 0.22 | 0.00 | 0.60 | 0.00 | 0.00 | 3.85 | 8.27 | | | | | | | | |
| | H25LU028 | 6.61 | 0.40 | 0.00 | 0.70 | 0.00 | 0.00 | 7.07 | 14.78 | | | | | | | | |
| | H25LU034 | 9.61 | 0.59 | 0.00 | 0.80 | 0.00 | 0.00 | 10.27 | 21.27 | | | | | | | | |
| | H25LU035 | 11.52 | 0.70 | 0.00 | 0.90 | 0.00 | 0.00 | 12.32 | 25.44 | | | | | | | | |
| | H25LU036 | 13.45 | 0.82 | 0.00 | 1.00 | 0.00 | 0.00 | 14.37 | 29.64 | | | | | | | | |
| | H25LU040 | 22.55 | 1.26 | 0.00 | 0.75 | 0.00 | 0.00 | 28.36 | 52.92 | | | | | | | | |
| | H25LU041 | 27.76 | 1.55 | 0.00 | 0.75 | 0.00 | 0.00 | 34.91 | 64.97 | | | | | | | | |
| | H25LU042 | 32.28 | 1.80 | 0.00 | 1.50 | 0.00 | 0.00 | 40.60 | 76.18 | | | | | | | | |
| | H25LU046 | 4.96 | 0.28 | 0.00 | 0.50 | 0.00 | 0.00 | 6.24 | 11.98 | | | | | | | | |
| | H25LU047 | 6.06 | 0.34 | 0.00 | 0.60 | 0.00 | 0.00 | 7.62 | 14.62 | | | | | | | | |
| | H25LU048 | 6.29 | 0.35 | 0.00 | 0.70 | 0.00 | 0.00 | 7.91 | 15.25 | | | | | | | | |
| | H25LU049 | 7.59 | 0.42 | 0.00 | 0.80 | 0.00 | 0.00 | 9.55 | 18.36 | | | | | | | | |
| | H25LU050 | 11.50 | 0.64 | 0.00 | 0.90 | 0.00 | 0.00 | 14.46 | 27.50 | | | | | | | | |
| | H25LU053 | 22.55 | 1.26 | 0.00 | 0.75 | 0.00 | 0.00 | 28.36 | 52.92 | | | | | | | | |
| | H25LU054 | 27.76 | 1.55 | 0.00 | 0.75 | 0.00 | 0.00 | 34.91 | 64.97 | | | | | | | | |
| | H25LU055 | 21.23 | 1.18 | 0.00 | 2.60 | 0.00 | 0.00 | 24.02 | 49.03 | | | | | | | | |
| | H25LU056 | 25.92 | 1.45 | 0.00 | 2.60 | 0.00 | 0.00 | 29.33 | 59.30 | | | | | | | | |
| | H25LU057 | 4.55 | 0.28 | 0.00 | 0.60 | 0.00 | 0.00 | 4.86 | 10.29 | | | | | | | | |
| | H25ME001 | 2.84 | 0.25 | 0.92 | 0.14 | 0.00 | 0.00 | 2.82 | 6.97 | 3.25 | 0.25 | 1.22 | 0.19 | 0.00 | 0.00 | 3.68 | 8.59 |
| | H25ME002 | 4.78 | 0.42 | 2.22 | 0.34 | 0.00 | 0.00 | 4.74 | 12.50 | 5.47 | 0.42 | 2.94 | 0.45 | 0.00 | 0.00 | 6.19 | 15.47 |
| | H25ME003 | 6.23 | 0.54 | 3.30 | 0.51 | 0.00 | 0.00 | 6.18 | 16.76 | 7.12 | 0.55 | 4.37 | 0.67 | 0.00 | 0.00 | 8.07 | 20.78 |
| | H25RZ001 | 0.97 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 2.07 | | | | | | | | |
| | H25RZ002 | 0.93 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.17 | 2.15 | | | | | | | | |
| | H25RZ003 | 1.11 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.39 | 2.56 | | | | | | | | |
| | H25RZ004 | 1.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.45 | 2.66 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------------------|------------------------------|-------|--------|------|-----------|-------------|--------|-----------------------------|--------|-------|--------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| H25 | cont. H25RZ005 | 1.42 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 3.28 | | | | | | | | |
| H30 | H30CA001 | 22.10 | 2.01 | 8.75 | 1.27 | 2.43 | 0.38 | 15.83 | 52.77 | 27.20 | 2.05 | 11.16 | 1.62 | 8.76 | 1.35 | 21.47 | 73.61 |
| | H30CA002 | 19.78 | 2.20 | 8.75 | 1.27 | 2.43 | 0.38 | 17.00 | 51.81 | 24.73 | 2.24 | 11.16 | 1.62 | 8.76 | 1.35 | 23.02 | 72.88 |
| | H30CA003 | 20.78 | 2.31 | 10.49 | 1.52 | 2.43 | 0.38 | 17.86 | 55.77 | 25.98 | 2.35 | 13.38 | 1.94 | 8.76 | 1.35 | 24.18 | 77.94 |
| | H30CA004 | 22.20 | 2.46 | 10.49 | 1.52 | 2.43 | 0.38 | 19.06 | 58.54 | 27.75 | 2.50 | 13.38 | 1.94 | 8.76 | 1.35 | 25.80 | 81.48 |
| | H30CA005 | 22.76 | 2.07 | 10.80 | 1.57 | 2.43 | 0.38 | 16.30 | 56.31 | 28.01 | 2.11 | 13.78 | 2.00 | 8.76 | 1.35 | 22.10 | 78.11 |
| | H30CA006 | 25.36 | 2.75 | 10.74 | 1.56 | 1.29 | 0.20 | 21.66 | 63.56 | 31.70 | 2.80 | 13.70 | 1.99 | 4.65 | 0.72 | 29.33 | 84.89 |
| | H30CA007 | 19.60 | 1.79 | 9.12 | 1.32 | 2.43 | 0.38 | 14.06 | 48.70 | 24.12 | 1.83 | 11.64 | 1.69 | 8.76 | 1.35 | 19.07 | 68.46 |
| | H30GA009 | 33.24 | 2.95 | 20.29 | 2.95 | 1.61 | 0.25 | 23.67 | 84.96 | 40.91 | 3.01 | 25.88 | 3.76 | 5.73 | 0.89 | 32.09 | 112.27 |
| | H30GA010 | 28.91 | 2.55 | 18.20 | 2.64 | 0.99 | 0.15 | 20.56 | 74.00 | 35.58 | 2.61 | 23.22 | 3.37 | 3.47 | 0.54 | 27.87 | 96.66 |
| | H30GA011 | 29.97 | 3.26 | 21.84 | 3.17 | 1.65 | 0.25 | 25.63 | 85.77 | 37.47 | 3.32 | 27.86 | 4.05 | 5.85 | 0.90 | 34.70 | 114.15 |
| H35 | H35CA001 | 58.57 | 8.81 | 44.12 | 2.32 | 0.00 | 0.00 | 93.42 | 207.24 | 66.94 | 8.87 | 58.35 | 3.07 | 0.00 | 0.00 | 115.64 | 252.87 |
| | H35CA003 | 116.23 | 17.49 | 73.24 | 3.85 | 0.00 | 0.00 | 185.39 | 396.20 | 132.84 | 17.60 | 96.86 | 5.09 | 0.00 | 0.00 | 229.48 | 481.87 |
| | H35CA004 | 193.31 | 29.09 | 101.50 | 5.33 | 0.00 | 0.00 | 308.33 | 637.56 | 220.93 | 29.27 | 134.24 | 7.05 | 0.00 | 0.00 | 381.65 | 773.14 |
| | H35CA005 | 379.94 | 57.17 | 167.18 | 8.78 | 0.00 | 0.00 | 606.01 | 1,219.08 | 434.22 | 57.53 | 221.10 | 11.61 | 0.00 | 0.00 | 750.12 | 1,474.58 |
| | H35HI006 | 87.00 | 13.09 | 42.52 | 2.23 | 0.00 | 0.00 | 138.76 | 283.60 | 99.42 | 13.17 | 56.24 | 2.95 | 0.00 | 0.00 | 171.75 | 343.53 |
| | H35HI007 | 123.51 | 18.58 | 72.05 | 3.78 | 0.00 | 0.00 | 196.99 | 414.91 | 141.15 | 18.70 | 95.29 | 5.01 | 0.00 | 0.00 | 243.84 | 503.99 |
| | L10BS002 | 3.67 | 0.35 | 0.00 | 0.30 | 0.00 | 0.00 | 4.36 | 8.68 | 5.24 | 0.37 | 0.00 | 0.30 | 0.00 | 0.00 | 6.92 | 12.83 |
| L10 | L10BS004 | 2.50 | 0.24 | 0.00 | 0.25 | 0.00 | 0.00 | 2.97 | 5.96 | 3.57 | 0.25 | 0.00 | 0.25 | 0.00 | 0.00 | 4.71 | 8.78 |
| | L10BS005 | 3.68 | 0.36 | 0.00 | 0.30 | 0.00 | 0.00 | 4.36 | 8.70 | 5.25 | 0.37 | 0.00 | 0.30 | 0.00 | 0.00 | 6.93 | 12.85 |
| | L10BS007 | 2.65 | 0.26 | 0.00 | 0.50 | 0.00 | 0.00 | 3.15 | 6.56 | 3.79 | 0.27 | 0.00 | 0.50 | 0.00 | 0.00 | 5.00 | 9.56 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| L10 | cont. | | | | | | | | | | | | | | | | |
| | L10BU005 | 0.93 | 0.09 | 0.00 | 1.10 | 0.00 | 0.00 | 1.11 | 3.23 | 1.33 | 0.09 | 0.00 | 1.10 | 0.00 | 0.00 | 1.76 | 4.28 |
| | L10BU010 | 0.46 | 0.04 | 0.00 | 0.80 | 0.00 | 0.00 | 0.55 | 1.85 | 0.66 | 0.05 | 0.00 | 0.80 | 0.00 | 0.00 | 0.87 | 2.38 |
| | L10BU011 | 0.92 | 0.09 | 0.00 | 1.50 | 0.00 | 0.00 | 1.10 | 3.61 | 1.32 | 0.09 | 0.00 | 1.50 | 0.00 | 0.00 | 1.74 | 4.65 |
| | L10BU012 | 1.54 | 0.15 | 0.00 | 2.00 | 0.00 | 0.00 | 1.83 | 5.52 | 2.20 | 0.15 | 0.00 | 2.00 | 0.00 | 0.00 | 2.91 | 7.26 |
| | L10BU013 | 1.87 | 0.18 | 0.00 | 2.50 | 0.00 | 0.00 | 2.22 | 6.77 | 2.67 | 0.19 | 0.00 | 2.50 | 0.00 | 0.00 | 3.52 | 8.88 |
| | L10BU014 | 1.89 | 0.18 | 0.00 | 2.00 | 0.00 | 0.00 | 2.24 | 6.31 | 2.70 | 0.19 | 0.00 | 2.00 | 0.00 | 0.00 | 3.56 | 8.45 |
| | L10BU015 | 2.20 | 0.21 | 0.00 | 2.50 | 0.00 | 0.00 | 2.61 | 7.52 | 3.14 | 0.22 | 0.00 | 2.50 | 0.00 | 0.00 | 4.15 | 10.01 |
| | L10RM001 | 4.83 | 0.47 | 0.00 | 0.40 | 0.00 | 0.00 | 5.74 | 11.44 | 6.90 | 0.48 | 0.00 | 0.40 | 0.00 | 0.00 | 9.11 | 16.89 |
| | L10RM002 | 5.46 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 6.48 | 12.47 | 7.80 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 10.29 | 18.64 |
| | L10VE002 | 3.11 | 0.30 | 4.12 | 0.54 | 0.00 | 0.00 | 3.69 | 11.76 | 4.44 | 0.31 | 5.34 | 0.70 | 0.00 | 0.00 | 5.86 | 16.65 |
| | L10VE005 | 1.20 | 0.12 | 1.53 | 0.20 | 0.00 | 0.00 | 1.43 | 4.48 | 1.72 | 0.12 | 1.98 | 0.26 | 0.00 | 0.00 | 2.27 | 6.35 |
| | L10VE006 | 3.12 | 0.30 | 2.35 | 0.31 | 0.05 | 0.01 | 3.71 | 9.85 | 4.46 | 0.31 | 3.05 | 0.40 | 0.15 | 0.02 | 5.89 | 14.28 |
| | L10VE007 | 2.71 | 0.26 | 0.00 | 1.50 | 0.00 | 0.00 | 3.21 | 7.68 | 3.87 | 0.27 | 0.00 | 1.50 | 0.00 | 0.00 | 5.10 | 10.74 |
| | L10VE009 | 3.52 | 0.34 | 4.84 | 0.55 | 0.05 | 0.01 | 4.19 | 13.50 | 5.03 | 0.35 | 6.18 | 0.70 | 0.15 | 0.02 | 6.65 | 19.08 |
| | L10VE010 | 1.30 | 0.13 | 3.18 | 0.42 | 0.03 | 0.00 | 1.55 | 6.61 | 1.86 | 0.13 | 4.12 | 0.54 | 0.08 | 0.01 | 2.46 | 9.20 |
| L15 | | | | | | | | | | | | | | | | | |
| | L15BW001 | 5.15 | 0.21 | 3.92 | 0.41 | 0.07 | 0.01 | 4.55 | 14.32 | | | | | | | | |
| | L15BW002 | 8.33 | 0.34 | 5.49 | 0.57 | 0.30 | 0.05 | 7.37 | 22.45 | | | | | | | | |
| | L15BW003 | 9.15 | 0.38 | 7.85 | 0.82 | 0.30 | 0.05 | 8.09 | 26.64 | | | | | | | | |
| | L15BW004 | 14.44 | 0.57 | 7.32 | 0.77 | 0.00 | 0.00 | 12.71 | 35.81 | | | | | | | | |
| | L15BW005 | 5.05 | 0.21 | 3.92 | 0.41 | 0.19 | 0.03 | 4.47 | 14.28 | | | | | | | | |
| | L15FG001 | 19.87 | 0.79 | 16.64 | 1.74 | 0.00 | 0.00 | 17.49 | 56.53 | | | | | | | | |
| | L15FG002 | 10.90 | 0.44 | 11.67 | 1.22 | 0.07 | 0.01 | 9.60 | 33.91 | | | | | | | | |
| | L15HV001 | 0.17 | 0.01 | 0.78 | 0.08 | 0.00 | 0.00 | 0.15 | 1.19 | | | | | | | | |
| | L15HV002 | 0.29 | 0.01 | 1.57 | 0.16 | 0.00 | 0.00 | 0.25 | 2.28 | | | | | | | | |
| | L15HV003 | 0.13 | 0.01 | 1.10 | 0.12 | 0.00 | 0.00 | 0.11 | 1.47 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| L15 | cont. | | | | | | | | | | | | | | | | |
| | L15HV004 | 0.09 | 0.00 | 1.10 | 0.12 | 0.00 | 0.00 | 0.08 | 1.39 | | | | | | | | |
| | L15JD005 | 0.60 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 1.14 | | | | | | | | |
| | L15S7001 | 0.21 | 0.01 | 0.31 | 0.03 | 0.00 | 0.00 | 0.18 | 0.74 | | | | | | | | |
| | L15TO001 | 0.34 | 0.01 | 0.94 | 0.10 | 0.00 | 0.00 | 0.30 | 1.69 | | | | | | | | |
| | L15TO002 | 0.35 | 0.03 | 2.28 | 0.24 | 0.71 | 0.11 | 0.36 | 4.08 | | | | | | | | |
| | L15TO003 | 0.60 | 0.08 | 3.22 | 0.34 | 2.84 | 0.44 | 0.72 | 8.24 | | | | | | | | |
| | L15TO004 | 0.37 | 0.07 | 3.45 | 0.36 | 2.84 | 0.44 | 0.52 | 8.05 | | | | | | | | |
| | L15TO006 | 0.80 | 0.12 | 4.00 | 0.42 | 4.18 | 0.65 | 0.98 | 11.15 | | | | | | | | |
| | L15TO007 | 0.94 | 0.12 | 4.00 | 0.42 | 4.18 | 0.65 | 1.11 | 11.42 | | | | | | | | |
| | L15TO009 | 0.26 | 0.01 | 1.26 | 0.13 | 0.00 | 0.00 | 0.23 | 1.89 | | | | | | | | |
| | L15TO010 | 0.52 | 0.02 | 1.57 | 0.16 | 0.00 | 0.00 | 0.46 | 2.73 | | | | | | | | |
| | L15WI001 | 1.70 | 0.07 | 0.00 | 0.05 | 0.11 | 0.02 | 1.52 | 3.47 | | | | | | | | |
| L20 | | | | | | | | | | | | | | | | | |
| | L20AB017 | 1.71 | 0.14 | 1.03 | 0.11 | 0.04 | 0.01 | 3.43 | 6.47 | | | | | | | | |
| | L20AB018 | 1.72 | 0.14 | 1.17 | 0.12 | 0.04 | 0.01 | 3.46 | 6.66 | | | | | | | | |
| | L20AB019 | 1.90 | 0.15 | 1.65 | 0.17 | 0.04 | 0.01 | 3.82 | 7.74 | | | | | | | | |
| | L20AB021 | 1.23 | 0.10 | 1.17 | 0.12 | 0.03 | 0.00 | 2.48 | 5.13 | | | | | | | | |
| | L20AB023 | 0.53 | 0.04 | 0.00 | 0.00 | 0.03 | 0.00 | 1.07 | 1.67 | | | | | | | | |
| | L20AB024 | 0.57 | 0.05 | 0.00 | 0.00 | 0.03 | 0.00 | 1.15 | 1.80 | | | | | | | | |
| | L20AB025 | 1.25 | 0.10 | 1.03 | 0.11 | 0.03 | 0.00 | 2.52 | 5.04 | | | | | | | | |
| L25 | | | | | | | | | | | | | | | | | |
| | L25JE002 | 16.42 | 1.33 | 20.80 | 2.18 | 0.84 | 0.13 | 26.46 | 68.16 | | | | | | | | |
| | L25JE003 | 0.41 | 0.03 | 0.92 | 0.10 | 0.00 | 0.00 | 0.65 | 2.11 | | | | | | | | |
| | L25MB002 | 1.19 | 0.10 | 0.92 | 1.10 | 0.06 | 0.01 | 1.92 | 5.30 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| L25 | cont. | | | | | | | | | | | | | | | | |
| | L25MB004 | 37.51 | 2.99 | 31.89 | 4.84 | 0.84 | 0.13 | 60.28 | 138.48 | | | | | | | | |
| | L25MB005 | 1.26 | 0.10 | 1.68 | 1.18 | 0.06 | 0.01 | 2.02 | 6.31 | | | | | | | | |
| | L25MB006 | 18.73 | 1.48 | 3.36 | 1.60 | 0.00 | 0.00 | 30.03 | 55.20 | | | | | | | | |
| | L25MB007 | 8.57 | 0.68 | 3.86 | 1.40 | 0.00 | 0.00 | 13.75 | 28.26 | | | | | | | | |
| | L25MB008 | 20.22 | 1.63 | 6.49 | 2.18 | 0.89 | 0.14 | 32.56 | 64.11 | | | | | | | | |
| L30 | | | | | | | | | | | | | | | | | |
| | L30KJ001 | 3.82 | 0.38 | 0.63 | 0.31 | 0.23 | 0.04 | 5.14 | 10.55 | 4.78 | 0.39 | 0.82 | 0.40 | 0.73 | 0.11 | 7.06 | 14.29 |
| | L30KJ002 | 3.77 | 0.37 | 0.63 | 0.31 | 0.23 | 0.04 | 5.06 | 10.41 | 4.71 | 0.38 | 0.82 | 0.40 | 0.73 | 0.11 | 6.96 | 14.11 |
| | L30KJ003 | 3.23 | 0.35 | 0.63 | 0.31 | 0.81 | 0.13 | 4.41 | 9.87 | 4.04 | 0.35 | 0.82 | 0.40 | 2.57 | 0.40 | 6.06 | 14.64 |
| | L30KJ004 | 17.43 | 1.74 | 5.36 | 2.63 | 1.24 | 0.19 | 23.44 | 52.03 | 21.79 | 1.77 | 7.01 | 3.44 | 3.93 | 0.61 | 32.23 | 70.78 |
| | L30RA001 | 7.51 | 0.73 | 1.92 | 0.23 | 0.17 | 0.03 | 10.06 | 20.65 | 9.39 | 0.75 | 2.54 | 0.31 | 0.54 | 0.08 | 13.83 | 27.44 |
| | L30S4001 | 2.17 | 0.21 | 0.95 | 0.47 | 0.00 | 0.00 | 2.90 | 6.70 | 2.72 | 0.21 | 1.24 | 0.61 | 0.00 | 0.00 | 3.99 | 8.77 |
| | L30S4002 | 1.87 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 4.55 | 2.33 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 3.43 | 5.94 |
| | L30S4005 | 0.16 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.39 | 0.20 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.51 |
| | L30S4006 | 0.18 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.44 | 0.22 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.57 |
| L35 | | | | | | | | | | | | | | | | | |
| | L35CA001 | 4.18 | 0.40 | 4.88 | 0.51 | 0.00 | 0.00 | 6.07 | 16.04 | 5.22 | 0.41 | 6.32 | 0.66 | 0.00 | 0.00 | 8.62 | 21.23 |
| | L35CA002 | 4.42 | 0.43 | 4.88 | 0.51 | 0.00 | 0.00 | 6.41 | 16.65 | 5.52 | 0.44 | 6.32 | 0.66 | 0.00 | 0.00 | 9.11 | 22.05 |
| | L35CA003 | 4.91 | 0.47 | 5.41 | 0.56 | 0.00 | 0.00 | 7.12 | 18.47 | 6.13 | 0.48 | 7.00 | 0.73 | 0.00 | 0.00 | 10.12 | 24.46 |
| | L35CA004 | 4.96 | 0.48 | 5.41 | 0.56 | 0.00 | 0.00 | 7.20 | 18.61 | 6.20 | 0.49 | 7.00 | 0.73 | 0.00 | 0.00 | 10.23 | 24.65 |
| | L35CA005 | 20.05 | 1.94 | 10.77 | 1.12 | 0.00 | 0.00 | 29.10 | 62.98 | 25.06 | 1.98 | 13.94 | 1.45 | 0.00 | 0.00 | 41.36 | 83.79 |
| | L35CA006 | 6.61 | 0.64 | 5.41 | 0.56 | 0.00 | 0.00 | 9.59 | 22.81 | 8.26 | 0.65 | 7.00 | 0.73 | 0.00 | 0.00 | 13.63 | 30.27 |
| | L35CA007 | 41.93 | 4.06 | 19.14 | 1.99 | 0.00 | 0.00 | 60.86 | 127.98 | 52.42 | 4.14 | 24.76 | 2.58 | 0.00 | 0.00 | 86.49 | 170.39 |
| | L35CA008 | 6.76 | 0.65 | 5.41 | 0.56 | 0.00 | 0.00 | 9.80 | 23.18 | 8.44 | 0.67 | 7.00 | 0.73 | 0.00 | 0.00 | 13.93 | 30.77 |
| | L35CA009 | 6.20 | 0.60 | 5.41 | 0.56 | 0.00 | 0.00 | 8.99 | 21.76 | 7.75 | 0.61 | 7.00 | 0.73 | 0.00 | 0.00 | 12.78 | 28.87 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| L35 | cont. | | | | | | | | | | | | | | | | |
| | L35CA010 | 6.66 | 0.64 | 5.41 | 0.56 | 0.00 | 0.00 | 9.67 | 22.94 | 8.33 | 0.66 | 7.00 | 0.73 | 0.00 | 0.00 | 13.74 | 30.46 |
| | L35CA011 | 8.03 | 0.78 | 8.00 | 0.83 | 0.00 | 0.00 | 11.66 | 29.30 | 10.04 | 0.79 | 10.36 | 1.08 | 0.00 | 0.00 | 16.57 | 38.84 |
| L40 | L35CA014 | 24.79 | 2.40 | 13.75 | 1.43 | 0.00 | 0.00 | 35.98 | 78.35 | 30.99 | 2.45 | 17.80 | 1.85 | 0.00 | 0.00 | 51.13 | 104.22 |
| | L40CA001 | 5.20 | 0.53 | 2.79 | 0.32 | 0.50 | 0.08 | 5.17 | 14.59 | 5.50 | 0.54 | 3.69 | 0.42 | 1.81 | 0.28 | 6.25 | 18.49 |
| | L40CA002 | 13.34 | 1.58 | 10.28 | 1.18 | 12.38 | 1.91 | 13.77 | 54.44 | 14.10 | 1.58 | 13.60 | 1.55 | 44.57 | 6.89 | 16.65 | 98.94 |
| | L40CA003 | 3.65 | 0.30 | 4.88 | 0.56 | 0.82 | 0.13 | 3.90 | 14.24 | | | | | | | | |
| | L40CA004 | 5.25 | 0.43 | 4.88 | 0.56 | 0.82 | 0.13 | 5.58 | 17.65 | | | | | | | | |
| | L40CA005 | 4.52 | 0.37 | 5.41 | 0.62 | 0.82 | 0.13 | 4.81 | 16.68 | | | | | | | | |
| | L40CA006 | 4.31 | 0.36 | 5.41 | 0.62 | 1.04 | 0.16 | 4.61 | 16.51 | | | | | | | | |
| | L40CA007 | 31.64 | 4.40 | 24.48 | 2.02 | 17.00 | 2.63 | 29.73 | 111.90 | 35.59 | 4.43 | 32.38 | 2.67 | 61.22 | 9.46 | 35.85 | 181.60 |
| | L40CA008 | 4.94 | 0.41 | 5.41 | 0.62 | 1.04 | 0.16 | 5.27 | 17.85 | | | | | | | | |
| | L40CA009 | 118.89 | 16.19 | 53.07 | 4.37 | 18.82 | 2.91 | 111.23 | 325.48 | 133.75 | 16.31 | 70.19 | 5.78 | 67.76 | 10.47 | 134.11 | 438.37 |
| | L40CA010 | 6.84 | 0.56 | 7.13 | 0.82 | 1.04 | 0.16 | 7.27 | 23.82 | | | | | | | | |
| | L40CA011 | 43.78 | 4.67 | 17.78 | 2.03 | 0.00 | 0.00 | 52.37 | 120.63 | 47.33 | 4.70 | 23.51 | 2.69 | 0.00 | 0.00 | 59.96 | 138.19 |
| | L40CA012 | 16.05 | 1.79 | 9.62 | 1.10 | 3.47 | 0.54 | 19.42 | 51.99 | 17.35 | 1.80 | 12.72 | 1.45 | 12.48 | 1.93 | 22.24 | 69.97 |
| | L40CA013 | 10.24 | 1.13 | 5.97 | 0.68 | 1.58 | 0.24 | 12.35 | 32.19 | 11.07 | 1.14 | 7.90 | 0.90 | 5.68 | 0.88 | 14.14 | 41.71 |
| | L40CA015 | 6.53 | 0.72 | 4.91 | 0.56 | 0.56 | 0.09 | 7.86 | 21.23 | 7.06 | 0.72 | 6.49 | 0.74 | 2.02 | 0.31 | 9.00 | 26.34 |
| | L40CA016 | 44.50 | 4.84 | 14.93 | 1.71 | 2.45 | 0.38 | 53.47 | 122.28 | 48.11 | 4.86 | 19.74 | 2.26 | 8.80 | 1.36 | 61.22 | 146.35 |
| | L40CA017 | 54.22 | 5.87 | 19.90 | 2.28 | 2.45 | 0.38 | 65.09 | 150.19 | 58.61 | 5.91 | 26.32 | 3.01 | 8.80 | 1.36 | 74.53 | 178.54 |
| | L40CA018 | 83.21 | 11.72 | 41.60 | 3.43 | 20.82 | 3.22 | 78.42 | 242.42 | 93.61 | 11.82 | 55.01 | 4.53 | 74.96 | 11.58 | 94.55 | 346.06 |
| | L40CA019 | 9.36 | 0.97 | 6.30 | 0.72 | 1.58 | 0.24 | 9.31 | 28.48 | 9.89 | 0.97 | 8.34 | 0.95 | 5.68 | 0.88 | 11.25 | 37.96 |
| | L40CA020 | 65.07 | 7.08 | 21.56 | 2.47 | 3.71 | 0.57 | 78.20 | 178.66 | 70.35 | 7.12 | 28.52 | 3.26 | 13.37 | 2.07 | 89.54 | 214.23 |
| | L40CA021 | 100.68 | 10.74 | 34.76 | 3.97 | 0.00 | 0.00 | 120.41 | 270.56 | 108.84 | 10.80 | 45.98 | 5.26 | 0.00 | 0.00 | 137.86 | 308.74 |
| | L40CA022 | 13.13 | 1.34 | 8.49 | 0.97 | 1.58 | 0.24 | 13.03 | 38.78 | 13.88 | 1.35 | 11.23 | 1.28 | 5.68 | 0.88 | 15.75 | 50.05 |
| | L40CA023 | 19.87 | 2.03 | 11.21 | 1.28 | 2.61 | 0.40 | 19.73 | 57.13 | 21.00 | 2.04 | 14.83 | 1.70 | 9.38 | 1.45 | 23.84 | 74.24 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|-------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| L40 | cont. | | | | | | | | | | | | | | | | |
| L40CA024 | | 25.38 | 2.70 | 14.00 | 1.60 | 7.71 | 1.19 | 25.45 | 78.03 | 26.83 | 2.71 | 18.51 | 2.12 | 27.76 | 4.29 | 30.77 | 112.99 |
| L40CA025 | | 25.09 | 2.67 | 16.25 | 1.86 | 7.71 | 1.19 | 25.17 | 79.94 | 26.53 | 2.68 | 21.50 | 2.46 | 27.76 | 4.29 | 30.43 | 115.65 |
| L40CA026 | | 14.37 | 1.59 | 9.43 | 1.08 | 1.48 | 0.23 | 17.33 | 45.51 | 15.53 | 1.60 | 12.47 | 1.43 | 5.34 | 0.83 | 19.85 | 57.05 |
| L40CA027 | | 15.75 | 1.73 | 9.43 | 1.08 | 1.48 | 0.23 | 18.98 | 48.68 | 17.02 | 1.74 | 12.47 | 1.43 | 5.34 | 0.83 | 21.73 | 60.56 |
| L40CA028 | | 3.29 | 0.27 | 3.71 | 0.42 | 0.82 | 0.13 | 3.52 | 12.16 | | | | | | | | |
| L40CA029 | | 4.01 | 0.33 | 4.07 | 0.47 | 0.82 | 0.13 | 4.27 | 14.10 | | | | | | | | |
| L40CA030 | | 3.57 | 0.30 | 5.38 | 0.62 | 1.04 | 0.16 | 3.83 | 14.90 | | | | | | | | |
| L40CA031 | | 4.47 | 0.37 | 5.38 | 0.62 | 1.04 | 0.16 | 4.77 | 16.81 | | | | | | | | |
| L40CA033 | | 7.72 | 0.80 | 4.58 | 0.52 | 0.87 | 0.13 | 7.68 | 22.30 | 8.16 | 0.80 | 6.05 | 0.69 | 3.12 | 0.48 | 9.29 | 28.59 |
| L40CA034 | | 9.03 | 0.93 | 4.58 | 0.52 | 0.87 | 0.13 | 8.97 | 25.03 | 9.54 | 0.93 | 6.05 | 0.69 | 3.12 | 0.48 | 10.85 | 31.66 |
| L40CA035 | | 46.66 | 6.65 | 35.89 | 2.96 | 21.17 | 3.27 | 44.09 | 160.69 | 52.50 | 6.71 | 47.47 | 3.91 | 76.22 | 11.78 | 53.16 | 251.75 |
| L40CA036 | | 11.09 | 1.22 | 6.63 | 0.76 | 1.81 | 0.28 | 13.38 | 35.17 | 11.98 | 1.23 | 8.77 | 1.00 | 6.51 | 1.01 | 15.31 | 45.81 |
| L40CA037 | | 11.95 | 1.32 | 7.36 | 0.84 | 1.81 | 0.28 | 14.41 | 37.97 | 12.92 | 1.32 | 9.74 | 1.11 | 6.51 | 1.01 | 16.49 | 49.10 |
| L40CA038 | | 13.93 | 1.53 | 6.70 | 0.77 | 1.81 | 0.28 | 16.78 | 41.80 | 15.06 | 1.54 | 8.86 | 1.01 | 6.51 | 1.01 | 19.21 | 53.20 |
| L40CA039 | | 6.80 | 0.76 | 6.70 | 0.77 | 1.58 | 0.24 | 8.24 | 25.09 | 7.35 | 0.77 | 8.86 | 1.01 | 5.68 | 0.88 | 9.43 | 33.98 |
| L40CA040 | | 17.91 | 1.84 | 10.22 | 1.17 | 2.61 | 0.40 | 17.80 | 51.95 | 18.94 | 1.85 | 13.51 | 1.54 | 9.38 | 1.45 | 21.52 | 68.19 |
| L40CS012 | | 20.97 | 2.16 | 10.35 | 1.18 | 3.47 | 0.54 | 20.86 | 59.53 | 22.17 | 2.17 | 13.69 | 1.57 | 12.48 | 1.93 | 25.22 | 79.23 |
| L40CS013 | | 23.29 | 2.39 | 11.68 | 1.34 | 3.47 | 0.54 | 23.15 | 65.86 | 24.62 | 2.40 | 15.44 | 1.77 | 12.48 | 1.93 | 27.99 | 86.63 |
| L40CS014 | | 28.44 | 3.00 | 13.80 | 1.58 | 7.71 | 1.19 | 28.47 | 84.19 | 30.06 | 3.02 | 18.25 | 2.09 | 27.76 | 4.29 | 34.41 | 119.88 |
| L40KM003 | | 15.09 | 1.56 | 8.36 | 0.96 | 2.61 | 0.40 | 15.02 | 44.00 | 15.95 | 1.57 | 11.06 | 1.26 | 9.38 | 1.45 | 18.15 | 58.82 |
| L40KM008 | | 32.60 | 4.52 | 23.42 | 1.93 | 17.00 | 2.63 | 30.62 | 112.72 | 36.68 | 4.56 | 30.97 | 2.55 | 61.22 | 9.46 | 36.92 | 182.36 |
| L40KM009 | | 46.55 | 6.57 | 34.96 | 2.88 | 11.93 | 1.84 | 43.89 | 148.62 | 52.37 | 6.62 | 46.24 | 3.81 | 42.94 | 6.63 | 52.92 | 211.53 |
| L40KM010 | | 52.14 | 7.75 | 45.38 | 3.74 | 20.82 | 3.22 | 49.72 | 182.77 | 58.66 | 7.81 | 60.01 | 4.94 | 74.96 | 11.58 | 59.94 | 277.90 |
| L40KM011 | | 78.86 | 11.06 | 53.60 | 4.42 | 18.82 | 2.91 | 74.25 | 243.92 | 88.71 | 11.15 | 70.89 | 5.84 | 67.76 | 10.47 | 89.52 | 344.34 |
| L40ME012 | | 3.19 | 0.27 | 3.57 | 0.41 | 0.81 | 0.13 | 3.41 | 11.79 | | | | | | | | |
| L40ME016 | | 2.11 | 0.17 | 1.71 | 0.20 | 0.29 | 0.04 | 2.24 | 6.76 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| L40 | cont. | | | | | | | | | | | | | | | | |
| | L40ME017 | 3.12 | 0.26 | 3.57 | 0.41 | 0.81 | 0.13 | 3.33 | 11.63 | | | | | | | | |
| | L40ME021 | 3.29 | 0.27 | 3.57 | 0.41 | 0.81 | 0.13 | 3.52 | 12.00 | | | | | | | | |
| | L40ME022 | 4.17 | 0.35 | 5.38 | 0.62 | 0.94 | 0.15 | 4.46 | 16.07 | | | | | | | | |
| | L40ME023 | 4.86 | 0.40 | 5.38 | 0.62 | 0.94 | 0.15 | 5.18 | 17.53 | | | | | | | | |
| L50 | | | | | | | | | | | | | | | | | |
| | L50CA001 | 6.63 | 0.74 | 4.47 | 2.03 | 0.95 | 0.15 | 7.56 | 22.53 | 11.04 | 0.78 | 6.33 | 2.88 | 3.37 | 0.52 | 13.38 | 38.30 |
| | L50CA002 | 9.79 | 1.09 | 4.78 | 2.17 | 1.20 | 0.19 | 11.16 | 30.38 | 16.32 | 1.15 | 6.77 | 3.08 | 4.25 | 0.66 | 19.74 | 51.97 |
| | L50CA005 | 14.65 | 1.59 | 6.52 | 2.96 | 0.72 | 0.11 | 16.59 | 43.14 | 24.42 | 1.67 | 9.24 | 4.20 | 2.53 | 0.39 | 29.34 | 71.79 |
| | L50CS007 | 12.50 | 1.37 | 4.98 | 2.26 | 0.97 | 0.15 | 14.18 | 36.41 | 20.83 | 1.44 | 7.06 | 3.21 | 3.44 | 0.53 | 25.10 | 61.61 |
| | L50CS008 | 14.02 | 1.55 | 5.65 | 2.57 | 1.40 | 0.22 | 15.94 | 41.35 | 23.36 | 1.63 | 8.00 | 3.63 | 4.94 | 0.76 | 28.21 | 70.53 |
| | L50JC008 | 6.67 | 0.76 | 3.80 | 1.73 | 1.11 | 0.17 | 7.64 | 21.88 | 11.12 | 0.79 | 5.38 | 2.44 | 3.91 | 0.60 | 13.52 | 37.76 |
| | L50JC009 | 8.83 | 0.99 | 4.67 | 2.12 | 1.11 | 0.17 | 10.07 | 27.96 | 14.71 | 1.03 | 6.62 | 3.01 | 3.91 | 0.60 | 17.81 | 47.69 |
| | L50JC010 | 9.71 | 1.08 | 5.60 | 2.54 | 1.11 | 0.17 | 11.06 | 31.27 | 16.18 | 1.13 | 7.93 | 3.60 | 3.91 | 0.60 | 19.56 | 52.91 |
| | L50JC011 | 10.35 | 1.19 | 5.60 | 2.54 | 2.50 | 0.39 | 11.90 | 34.47 | 17.25 | 1.25 | 7.93 | 3.60 | 8.99 | 1.39 | 21.05 | 61.46 |
| | L50JC012 | 13.01 | 1.48 | 5.60 | 2.54 | 2.50 | 0.39 | 14.90 | 40.42 | 21.68 | 1.55 | 7.93 | 3.60 | 8.99 | 1.39 | 26.35 | 71.49 |
| L55 | | | | | | | | | | | | | | | | | |
| | L55FU001 | 1.15 | 0.07 | 0.00 | 0.52 | 0.00 | 0.00 | 1.53 | 3.27 | | | | | | | | |
| | L55FU002 | 2.09 | 0.13 | 0.00 | 1.06 | 0.00 | 0.00 | 2.80 | 6.08 | | | | | | | | |
| | L55FU003 | 1.91 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 4.59 | | | | | | | | |
| | L55FU004 | 2.62 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 6.28 | | | | | | | | |
| L60 | | | | | | | | | | | | | | | | | |
| | L60CA010 | 34.20 | 3.01 | 9.95 | 1.22 | 0.00 | 0.00 | 30.74 | 79.12 | 42.75 | 3.08 | 13.16 | 1.61 | 0.00 | 0.00 | 43.91 | 104.51 |
| | L60CA011 | 37.37 | 3.29 | 9.95 | 1.22 | 0.00 | 0.00 | 33.59 | 85.42 | 46.71 | 3.36 | 13.16 | 1.61 | 0.00 | 0.00 | 47.97 | 112.81 |
| | L60CA013 | 29.04 | 2.76 | 10.61 | 1.30 | 5.68 | 0.88 | 26.41 | 76.68 | 36.30 | 2.82 | 14.04 | 1.72 | 19.82 | 3.06 | 37.73 | 115.49 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | | |
|------------|--------------|------------------------------|-------|------|-------|-----------|-------------|--------|-----------------------------|-------|-------|------|-------|-----------|-------------|--------|------------|--------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | |
| L60 | cont. | L60JD001 | 13.36 | 1.34 | 7.89 | 0.97 | 5.41 | 0.84 | 12.26 | 42.07 | 16.70 | 1.37 | 10.44 | 1.28 | 19.48 | 3.01 | 17.50 | 69.78 |
| | | L60JD002 | 18.06 | 1.75 | 10.02 | 1.23 | 5.41 | 0.84 | 16.48 | 53.79 | 22.58 | 1.79 | 13.25 | 1.62 | 19.48 | 3.01 | 23.54 | 85.27 |
| | | L60JD003 | 14.16 | 1.33 | 7.89 | 0.97 | 2.90 | 0.45 | 12.86 | 40.56 | 17.70 | 1.36 | 10.44 | 1.28 | 10.45 | 1.61 | 18.37 | 61.21 |
| | | L60JD004 | 20.20 | 1.94 | 10.61 | 1.30 | 5.41 | 0.84 | 18.40 | 58.70 | 25.25 | 1.98 | 14.04 | 1.72 | 19.48 | 3.01 | 26.29 | 91.77 |
| | | L60JD006 | 17.20 | 1.68 | 11.28 | 1.38 | 5.41 | 0.84 | 15.70 | 53.49 | 21.49 | 1.71 | 14.92 | 1.83 | 19.48 | 3.01 | 22.43 | 84.87 |
| | | L60JD007 | 18.48 | 1.79 | 13.27 | 1.62 | 5.41 | 0.84 | 16.86 | 58.27 | 23.10 | 1.83 | 17.55 | 2.15 | 19.48 | 3.01 | 24.08 | 91.20 |
| | | L60JD008 | 36.81 | 3.24 | 11.28 | 1.38 | 0.00 | 0.00 | 33.09 | 85.80 | 46.01 | 3.31 | 14.92 | 1.83 | 0.00 | 0.00 | 47.26 | 113.33 |
| | | | | | | | | | | | | | | | | | | |
| M10 | | M10M5001 | 2.76 | 0.38 | 14.79 | 2.07 | 0.00 | 0.00 | 2.44 | 22.44 | 3.40 | 0.38 | 19.30 | 2.70 | 0.00 | 0.00 | 3.21 | 28.99 |
| | | M10M5002 | 3.26 | 0.44 | 19.29 | 2.69 | 0.00 | 0.00 | 2.88 | 28.56 | 4.02 | 0.45 | 25.18 | 3.52 | 0.00 | 0.00 | 3.79 | 36.96 |
| | | M10M5003 | 4.01 | 0.55 | 29.58 | 4.13 | 0.00 | 0.00 | 3.54 | 41.81 | 4.94 | 0.55 | 38.61 | 5.39 | 0.00 | 0.00 | 4.67 | 54.16 |
| | | M10MZ001 | 4.02 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 6.62 | | | | | | | | |
| | | M10MZ003 | 4.71 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 2.81 | 7.76 | | | | | | | | |
| | | M10MZ005 | 1.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 2.09 | | | | | | | | |
| | | M10MZ007 | 1.15 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 2.23 | | | | | | | | |
| | | M10MZ10 | 4.53 | 0.62 | 10.61 | 1.76 | 0.00 | 0.00 | 4.00 | 21.52 | 5.57 | 0.63 | 14.04 | 2.33 | 0.00 | 0.00 | 5.27 | 27.84 |
| | | M10MZ11 | 5.66 | 0.77 | 13.27 | 2.20 | 0.00 | 0.00 | 5.00 | 26.90 | 6.97 | 0.78 | 17.55 | 2.91 | 0.00 | 0.00 | 6.59 | 34.80 |
| | | M10MZ12 | 6.30 | 0.86 | 19.90 | 3.30 | 0.00 | 0.00 | 5.56 | 35.92 | 7.75 | 0.87 | 26.32 | 4.37 | 0.00 | 0.00 | 7.32 | 46.63 |
| | | M10SM001 | 4.58 | 0.62 | 19.29 | 2.69 | 0.00 | 0.00 | 4.04 | 31.22 | 5.64 | 0.63 | 25.18 | 3.52 | 0.00 | 0.00 | 5.33 | 40.30 |
| | | M10SM003 | 5.34 | 0.73 | 25.72 | 3.59 | 0.00 | 0.00 | 4.71 | 40.09 | 6.57 | 0.74 | 33.57 | 4.69 | 0.00 | 0.00 | 6.21 | 51.78 |
| | | M10SM004 | 5.61 | 0.76 | 32.16 | 4.49 | 0.00 | 0.00 | 4.95 | 47.97 | 6.91 | 0.77 | 41.97 | 5.86 | 0.00 | 0.00 | 6.52 | 62.03 |
| | | M10SM005 | 2.07 | 0.28 | 14.79 | 2.07 | 0.00 | 0.00 | 1.82 | 21.03 | 2.54 | 0.29 | 19.30 | 2.70 | 0.00 | 0.00 | 2.40 | 27.23 |
| | | M10SM008 | 3.62 | 0.49 | 25.72 | 3.59 | 0.00 | 0.00 | 3.19 | 36.61 | 4.46 | 0.50 | 33.57 | 4.69 | 0.00 | 0.00 | 4.21 | 47.43 |
| | | M10XX002 | 0.37 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.72 | | | | | | | | |
| | | M10XX003 | 0.82 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 1.58 | | | | | | | | |
| | | M10XX004 | 0.94 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 | 1.82 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|---------------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| M10 | <i>cont.</i> | | | | | | | | | | | | | | | | |
| | M10XX005 | 2.02 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 1.37 | 4.60 | | | | | | | | |
| | M10XX006 | 2.84 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 1.93 | 6.48 | | | | | | | | |
| | M10XX007 | 3.62 | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 8.24 | | | | | | | | |
| | M10XX008 | 5.02 | 3.01 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 11.43 | | | | | | | | |
| | M10XX009 | 0.94 | 0.13 | 5.14 | 0.72 | 0.00 | 0.00 | 0.83 | 7.76 | 1.16 | 0.13 | 6.71 | 0.94 | 0.00 | 0.00 | 1.09 | 10.03 |
| | M10XX010 | 1.17 | 0.16 | 7.72 | 1.08 | 0.00 | 0.00 | 1.03 | 11.16 | 1.44 | 0.16 | 10.07 | 1.41 | 0.00 | 0.00 | 1.36 | 14.44 |
| | M10XX011 | 3.50 | 0.48 | 6.63 | 1.10 | 0.00 | 0.00 | 3.09 | 14.80 | 4.31 | 0.48 | 8.77 | 1.46 | 0.00 | 0.00 | 4.07 | 19.09 |
| | M10XX012 | 3.56 | 0.49 | 6.63 | 1.10 | 0.00 | 0.00 | 3.14 | 14.92 | 4.39 | 0.49 | 8.77 | 1.46 | 0.00 | 0.00 | 4.14 | 19.25 |
| | M10XX013 | 4.62 | 0.63 | 7.63 | 1.27 | 0.00 | 0.00 | 4.07 | 18.22 | 5.68 | 0.64 | 10.09 | 1.68 | 0.00 | 0.00 | 5.37 | 23.46 |
| | M10XX014 | 6.35 | 0.87 | 11.61 | 1.93 | 0.00 | 0.00 | 5.61 | 26.37 | 7.82 | 0.88 | 15.35 | 2.55 | 0.00 | 0.00 | 7.39 | 33.99 |
| | M10XX015 | 7.97 | 1.09 | 16.59 | 2.75 | 0.00 | 0.00 | 7.03 | 35.43 | 9.81 | 1.10 | 21.94 | 3.64 | 0.00 | 0.00 | 9.27 | 45.76 |
| | M10XX016 | 9.06 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 7.15 | 18.07 | | | | | | | | |
| | M10XX017 | 9.58 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 7.56 | 19.10 | | | | | | | | |
| | M10XX018 | 11.93 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 9.42 | 23.79 | | | | | | | | |
| | M10XX019 | 12.19 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 9.62 | 24.31 | | | | | | | | |
| | M10XX020 | 0.83 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.59 | 1.61 | | | | | | | | |
| | M10XX021 | 19.89 | 2.76 | 25.21 | 4.19 | 0.00 | 0.00 | 18.94 | 70.99 | 23.87 | 2.78 | 33.34 | 5.54 | 0.00 | 0.00 | 24.16 | 89.69 |
| | M10XX022 | 22.63 | 3.14 | 28.86 | 4.79 | 0.00 | 0.00 | 21.55 | 80.97 | 27.16 | 3.17 | 38.17 | 6.34 | 0.00 | 0.00 | 27.49 | 102.33 |
| | M10XX023 | 30.31 | 4.20 | 26.54 | 4.41 | 0.00 | 0.00 | 28.86 | 94.32 | 36.37 | 4.24 | 35.10 | 5.83 | 0.00 | 0.00 | 36.82 | 118.36 |
| | M10XX024 | 43.22 | 5.99 | 28.86 | 4.79 | 0.00 | 0.00 | 41.15 | 124.01 | 51.86 | 6.05 | 38.17 | 6.34 | 0.00 | 0.00 | 52.50 | 154.92 |
| | M10XX025 | 24.16 | 14.50 | 0.00 | 0.00 | 0.00 | 0.00 | 16.36 | 55.02 | | | | | | | | |
| | M10XX026 | 25.97 | 15.58 | 0.00 | 0.00 | 0.00 | 0.00 | 17.58 | 59.13 | | | | | | | | |
| | M10XX027 | 3.26 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 6.50 | | | | | | | | |
| | M10XX028 | 15.03 | 4.49 | 53.99 | 8.96 | 0.00 | 0.00 | 16.10 | 98.57 | | | | | | | | |
| | M10XX029 | 5.47 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 10.91 | | | | | | | | |
| | M10XX030 | 3.01 | 0.41 | 28.94 | 4.04 | 0.00 | 0.00 | 2.65 | 39.05 | 3.70 | 0.42 | 37.77 | 5.28 | 0.00 | 0.00 | 3.50 | 50.67 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|---------------------|------------------------------|-------|--------|-------|-----------|-------------|--------|-----------------------------|-------|------|-------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| M10 | <i>cont.</i> | | | | | | | | | | | | | | | | |
| | M10XX031 | 2.51 | 0.34 | 28.94 | 4.04 | 0.00 | 0.00 | 2.21 | 38.04 | 3.09 | 0.35 | 37.77 | 5.28 | 0.00 | 0.00 | 2.92 | 49.41 |
| | M10XX032 | 9.51 | 1.32 | 30.52 | 5.07 | 0.00 | 0.00 | 9.06 | 55.48 | 11.42 | 1.33 | 40.36 | 6.70 | 0.00 | 0.00 | 11.56 | 71.37 |
| | M10XX033 | 12.99 | 5.29 | 65.16 | 10.82 | 0.00 | 0.00 | 15.46 | 109.72 | | | | | | | | |
| | M10XX034 | 23.88 | 9.73 | 83.78 | 13.91 | 0.00 | 0.00 | 28.42 | 159.72 | | | | | | | | |
| | M10XX035 | 12.46 | 1.73 | 43.78 | 7.27 | 0.00 | 0.00 | 11.86 | 77.10 | 14.95 | 1.74 | 57.91 | 9.62 | 0.00 | 0.00 | 15.13 | 99.35 |
| | M10XX036 | 63.86 | 26.02 | 124.12 | 20.61 | 0.00 | 0.00 | 75.99 | 310.60 | | | | | | | | |
| | M10XX037 | 5.33 | 0.74 | 45.02 | 6.29 | 0.00 | 0.00 | 5.07 | 62.45 | 6.39 | 0.75 | 58.75 | 8.21 | 0.00 | 0.00 | 6.47 | 80.57 |
| | M10XX038 | 17.71 | 2.45 | 28.19 | 4.68 | 0.00 | 0.00 | 16.86 | 69.89 | 21.25 | 2.48 | 37.29 | 6.19 | 0.00 | 0.00 | 21.51 | 88.72 |
| | M10XX039 | 40.69 | 5.64 | 53.07 | 8.81 | 0.00 | 0.00 | 38.74 | 146.95 | 48.82 | 5.70 | 70.19 | 11.65 | 0.00 | 0.00 | 49.42 | 185.78 |
| P10 | | | | | | | | | | | | | | | | | |
| | P10AP001 | 4.76 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 6.26 | 11.41 | | | | | | | | |
| | P10AP002 | 8.70 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 11.45 | 20.86 | | | | | | | | |
| | P10AP003 | 9.52 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 12.52 | 22.82 | | | | | | | | |
| | P10AP004 | 11.45 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 15.07 | 27.46 | | | | | | | | |
| | P10AP005 | 16.99 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 22.35 | 40.73 | | | | | | | | |
| | P10AP006 | 2.96 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.89 | 7.09 | | | | | | | | |
| | P10AP007 | 4.77 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 11.44 | | | | | | | | |
| | P10IC002 | 22.19 | 1.81 | 19.90 | 2.78 | 0.00 | 0.00 | 29.19 | 75.87 | | | | | | | | |
| | P10IC010 | 2.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.74 | 4.99 | | | | | | | | |
| | P10IC011 | 4.10 | 0.33 | 0.86 | 0.12 | 0.00 | 0.00 | 5.39 | 10.80 | | | | | | | | |
| | P10IC012 | 2.93 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.86 | 7.03 | | | | | | | | |
| | P10IC013 | 5.09 | 0.42 | 1.67 | 0.23 | 0.00 | 0.00 | 6.69 | 14.10 | | | | | | | | |
| P20 | | | | | | | | | | | | | | | | | |
| | P20IC002 | 14.77 | 0.99 | 0.00 | 1.90 | 0.00 | 0.00 | 23.15 | 40.81 | | | | | | | | |
| | P20IC003 | 15.01 | 1.01 | 0.00 | 2.50 | 0.00 | 0.00 | 23.53 | 42.05 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P20 | cont. | | | | | | | | | | | | | | | | |
| | P20IC004 | 16.02 | 1.07 | 0.00 | 3.15 | 0.00 | 0.00 | 25.12 | 45.36 | | | | | | | | |
| | P20MK001 | 6.31 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 9.28 | 15.98 | | | | | | | | |
| | P20MK002 | 3.97 | 0.24 | 0.00 | 0.50 | 0.00 | 0.00 | 5.84 | 10.55 | | | | | | | | |
| | P20MK003 | 6.38 | 0.39 | 0.00 | 1.00 | 0.00 | 0.00 | 9.38 | 17.15 | | | | | | | | |
| | P20MK004 | 6.29 | 0.38 | 0.00 | 1.25 | 0.00 | 0.00 | 9.24 | 17.16 | | | | | | | | |
| | P20MK005 | 9.70 | 0.59 | 0.00 | 1.25 | 0.00 | 0.00 | 14.25 | 25.79 | | | | | | | | |
| | P20MK006 | 13.18 | 0.80 | 0.00 | 2.50 | 0.00 | 0.00 | 19.37 | 35.85 | | | | | | | | |
| | P20MK007 | 14.93 | 0.91 | 0.00 | 2.50 | 0.00 | 0.00 | 21.95 | 40.29 | | | | | | | | |
| P25 | | | | | | | | | | | | | | | | | |
| | P25DL001 | 3.58 | 0.22 | 1.39 | 1.14 | 0.00 | 0.00 | 4.78 | 11.11 | | | | | | | | |
| | P25DL003 | 4.63 | 0.28 | 3.58 | 1.70 | 0.00 | 0.00 | 6.19 | 16.38 | | | | | | | | |
| | P25DL004 | 5.09 | 0.31 | 4.51 | 2.43 | 0.00 | 0.00 | 6.81 | 19.15 | | | | | | | | |
| | P25DL005 | 8.81 | 0.54 | 6.97 | 3.62 | 0.00 | 0.00 | 11.77 | 31.71 | | | | | | | | |
| | P25DL006 | 8.97 | 0.55 | 7.89 | 4.40 | 0.00 | 0.00 | 11.98 | 33.79 | | | | | | | | |
| | P25DL008 | 11.08 | 0.68 | 13.00 | 7.12 | 0.00 | 0.00 | 14.80 | 46.68 | | | | | | | | |
| | P25DL009 | 21.42 | 1.31 | 16.52 | 8.91 | 0.00 | 0.00 | 28.62 | 76.78 | | | | | | | | |
| | P25DL010 | 30.88 | 1.89 | 19.24 | 10.94 | 0.00 | 0.00 | 41.27 | 104.22 | | | | | | | | |
| | P25DL011 | 30.51 | 1.86 | 24.02 | 13.25 | 0.00 | 0.00 | 40.77 | 110.41 | | | | | | | | |
| | P25MK001 | 5.05 | 0.31 | 2.59 | 2.86 | 0.00 | 0.00 | 6.75 | 17.56 | | | | | | | | |
| | P25MK003 | 8.75 | 0.53 | 5.57 | 4.93 | 0.00 | 0.00 | 11.69 | 31.47 | | | | | | | | |
| | P25VU002 | 8.67 | 0.48 | 0.00 | 2.50 | 0.00 | 0.00 | 10.90 | 22.55 | | | | | | | | |
| | P25VU003 | 10.64 | 0.59 | 0.00 | 2.50 | 0.00 | 0.00 | 13.38 | 27.11 | | | | | | | | |
| | P25VU004 | 10.88 | 0.61 | 0.00 | 2.50 | 0.00 | 0.00 | 13.69 | 27.68 | | | | | | | | |
| | P25VU005 | 14.64 | 0.82 | 0.00 | 2.50 | 0.00 | 0.00 | 18.41 | 36.37 | | | | | | | | |
| | P25VU010 | 15.06 | 0.84 | 0.00 | 0.95 | 0.00 | 0.00 | 18.95 | 35.80 | | | | | | | | |
| | P25VU011 | 15.14 | 0.84 | 0.00 | 1.17 | 0.00 | 0.00 | 19.05 | 36.20 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------|----------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P30 | P30AP001 | 5.26 | 0.32 | 0.66 | 0.09 | 0.00 | 0.00 | 7.03 | 13.36 | | | | | | | | |
| | P30AP002 | 22.68 | 1.39 | 18.24 | 2.55 | 0.00 | 0.00 | 30.31 | 75.17 | | | | | | | | |
| | P30AP003 | 26.11 | 1.59 | 18.24 | 2.55 | 0.00 | 0.00 | 34.88 | 83.37 | | | | | | | | |
| | P30AP004 | 27.96 | 1.71 | 18.24 | 2.55 | 0.00 | 0.00 | 37.36 | 87.82 | | | | | | | | |
| | P30AP005 | 40.63 | 2.48 | 24.88 | 3.47 | 0.00 | 0.00 | 54.29 | 125.75 | | | | | | | | |
| | P30AP006 | 93.31 | 5.70 | 69.66 | 9.73 | 0.00 | 0.00 | 124.69 | 303.09 | | | | | | | | |
| | P30AP007 | 129.59 | 7.91 | 79.61 | 11.12 | 0.00 | 0.00 | 173.16 | 401.39 | | | | | | | | |
| | P30AP008 | 8.68 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 11.60 | 20.81 | | | | | | | | |
| | P30AP009 | 9.58 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 12.80 | 22.97 | | | | | | | | |
| | P30AP010 | 11.22 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 14.99 | 26.90 | | | | | | | | |
| | P30AP011 | 52.15 | 3.18 | 50.75 | 7.09 | 0.00 | 0.00 | 69.69 | 182.86 | | | | | | | | |
| | P30MK001 | 17.72 | 1.08 | 12.27 | 1.71 | 0.00 | 0.00 | 23.68 | 56.46 | | | | | | | | |
| | P30MK003 | 27.35 | 1.67 | 24.21 | 3.38 | 0.00 | 0.00 | 36.54 | 93.15 | | | | | | | | |
| | P30MK004 | 44.44 | 2.71 | 46.44 | 6.49 | 0.00 | 0.00 | 59.39 | 159.47 | | | | | | | | |
| P35 | P35CA010 | 20.23 | 2.68 | 4.55 | 0.80 | 0.00 | 0.00 | 25.36 | 53.62 | 24.63 | 2.71 | 5.89 | 1.03 | 0.00 | 0.00 | 35.74 | 70.00 |
| | P35CA011 | 50.86 | 6.74 | 11.28 | 1.98 | 0.00 | 0.00 | 63.77 | 134.63 | 61.92 | 6.82 | 14.59 | 2.55 | 0.00 | 0.00 | 89.86 | 175.74 |
| | P35CA012 | 60.40 | 8.00 | 13.32 | 2.33 | 0.00 | 0.00 | 75.73 | 159.78 | 73.53 | 8.10 | 17.23 | 3.02 | 0.00 | 0.00 | 106.71 | 208.59 |
| P40 | P40BX001 | 1.64 | 0.11 | 0.00 | 0.05 | 0.00 | 0.00 | 1.55 | 3.35 | | | | | | | | |
| | P40TE016 | 2.51 | 0.16 | 0.05 | 0.07 | 0.00 | 0.00 | 2.37 | 5.16 | | | | | | | | |
| | P40TE018 | 12.88 | 0.89 | 2.47 | 0.30 | 4.19 | 0.65 | 12.22 | 33.60 | | | | | | | | |
| | P40TE019 | 26.56 | 1.84 | 2.98 | 0.36 | 5.79 | 0.89 | 25.23 | 63.65 | | | | | | | | |
| | P40TE020 | 19.18 | 1.36 | 2.47 | 0.30 | 5.79 | 0.89 | 18.26 | 48.25 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P40 | cont. | | | | | | | | | | | | | | | | |
| | P40TE021 | 19.02 | 1.35 | 2.47 | 0.30 | 5.79 | 0.89 | 18.11 | 47.93 | | | | | | | | |
| | P40TE022 | 35.54 | 2.43 | 3.80 | 0.47 | 5.79 | 0.89 | 33.70 | 82.62 | | | | | | | | |
| | P40TE023 | 14.04 | 0.94 | 2.47 | 0.30 | 0.79 | 0.12 | 13.28 | 31.94 | | | | | | | | |
| | P40TE024 | 27.78 | 1.92 | 2.98 | 0.36 | 5.79 | 0.89 | 26.37 | 66.09 | | | | | | | | |
| | P40TE025 | 20.37 | 1.36 | 23.07 | 2.82 | 1.16 | 0.18 | 19.27 | 68.23 | | | | | | | | |
| | P40TE026 | 26.45 | 1.78 | 24.35 | 2.98 | 2.18 | 0.34 | 25.03 | 83.11 | | | | | | | | |
| | P40TE027 | 12.06 | 0.81 | 19.22 | 2.35 | 0.75 | 0.12 | 11.41 | 46.72 | | | | | | | | |
| | P40TE028 | 14.21 | 0.95 | 19.22 | 2.35 | 0.75 | 0.12 | 13.44 | 51.04 | | | | | | | | |
| | P40TE029 | 51.06 | 3.40 | 23.07 | 2.82 | 2.18 | 0.34 | 48.28 | 131.15 | | | | | | | | |
| | P40TE030 | 13.19 | 0.88 | 17.30 | 2.12 | 0.75 | 0.12 | 12.48 | 46.84 | | | | | | | | |
| | P40TE031 | 3.91 | 0.28 | 0.00 | 0.00 | 0.85 | 0.13 | 3.72 | 8.89 | | | | | | | | |
| | P40TE032 | 4.45 | 0.31 | 0.00 | 0.00 | 0.85 | 0.13 | 4.23 | 9.97 | | | | | | | | |
| | P40TE033 | 2.30 | 0.17 | 0.00 | 0.00 | 0.85 | 0.13 | 2.20 | 5.65 | | | | | | | | |
| | P40TE034 | 9.96 | 0.70 | 1.27 | 0.16 | 2.89 | 0.45 | 9.48 | 24.91 | | | | | | | | |
| | P40TE035 | 11.37 | 0.95 | 2.47 | 0.30 | 20.88 | 3.23 | 11.02 | 50.22 | | | | | | | | |
| P45 | | | | | | | | | | | | | | | | | |
| | P45AF002 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.19 | | | | | | | | |
| | P45AF003 | 0.15 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.34 | | | | | | | | |
| | P45AF006 | 1.13 | 0.08 | 2.25 | 0.31 | 0.00 | 0.00 | 1.42 | 5.19 | | | | | | | | |
| | P45AF007 | 1.69 | 0.12 | 4.69 | 0.66 | 0.00 | 0.00 | 2.12 | 9.28 | | | | | | | | |
| | P45AF008 | 0.96 | 0.07 | 0.00 | 0.10 | 0.00 | 0.00 | 1.21 | 2.34 | | | | | | | | |
| | P45AF009 | 2.16 | 0.16 | 1.20 | 0.25 | 0.00 | 0.00 | 2.71 | 6.48 | | | | | | | | |
| | P45AF010 | 7.36 | 0.53 | 4.43 | 0.54 | 0.05 | 0.01 | 9.26 | 22.18 | | | | | | | | |
| | P45AF011 | 6.60 | 0.48 | 5.78 | 0.71 | 0.06 | 0.01 | 8.31 | 21.95 | | | | | | | | |
| | P45AF012 | 3.27 | 0.24 | 6.56 | 0.92 | 0.13 | 0.02 | 4.12 | 15.26 | | | | | | | | |
| | P45AF013 | 1.36 | 0.10 | 2.62 | 0.47 | 0.13 | 0.02 | 1.72 | 6.42 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P45 | cont. | | | | | | | | | | | | | | | | |
| | P45CG001 | 0.50 | 0.04 | 0.00 | 0.05 | 0.00 | 0.00 | 0.63 | 1.22 | | | | | | | | |
| | P45CG002 | 0.79 | 0.06 | 0.00 | 0.10 | 0.00 | 0.00 | 1.00 | 1.95 | | | | | | | | |
| | P45CG003 | 1.87 | 0.13 | 0.00 | 0.15 | 0.00 | 0.00 | 2.35 | 4.50 | | | | | | | | |
| | P45CG006 | 2.75 | 0.20 | 1.93 | 0.24 | 0.06 | 0.01 | 3.47 | 8.66 | | | | | | | | |
| | P45CG007 | 3.34 | 0.24 | 3.18 | 0.39 | 0.06 | 0.01 | 4.20 | 11.42 | | | | | | | | |
| | P45OE002 | 3.52 | 0.26 | 5.30 | 0.65 | 0.05 | 0.01 | 4.44 | 14.23 | | | | | | | | |
| | P45OE003 | 4.66 | 0.34 | 8.09 | 0.99 | 0.05 | 0.01 | 5.87 | 20.01 | | | | | | | | |
| | P45OE004 | 5.48 | 0.40 | 11.56 | 1.41 | 0.05 | 0.01 | 6.89 | 25.80 | | | | | | | | |
| | P45OE005 | 8.73 | 0.63 | 17.43 | 2.13 | 0.09 | 0.01 | 10.98 | 40.00 | | | | | | | | |
| P50 | P45PU001 | 6.06 | 0.44 | 4.43 | 0.54 | 0.06 | 0.01 | 7.63 | 19.17 | | | | | | | | |
| | P50GR001 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.08 | | | | | | | | |
| | P50GR002 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.12 | | | | | | | | |
| | P50GR003 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.22 | | | | | | | | |
| | P50GR004 | 0.14 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.40 | | | | | | | | |
| | P50GR005 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.06 | | | | | | | | |
| | P50GR006 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.11 | | | | | | | | |
| | P50GR007 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.17 | | | | | | | | |
| | P50GR008 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.31 | | | | | | | | |
| | P50WC001 | 0.16 | 0.01 | 1.77 | 0.25 | 0.00 | 0.00 | 0.20 | 2.39 | | | | | | | | |
| | P50WC002 | 0.20 | 0.02 | 1.38 | 0.23 | 0.00 | 0.00 | 0.24 | 2.07 | | | | | | | | |
| | P50WC003 | 0.45 | 0.04 | 1.47 | 0.24 | 0.00 | 0.00 | 0.54 | 2.74 | | | | | | | | |
| | P50WC004 | 2.08 | 0.17 | 3.04 | 0.50 | 0.06 | 0.01 | 2.51 | 8.37 | | | | | | | | |
| | P50XX001 | 5.28 | 0.42 | 5.52 | 0.92 | 0.00 | 0.00 | 6.35 | 18.49 | | | | | | | | |
| | P50XX002 | 4.97 | 0.39 | 6.44 | 1.07 | 0.00 | 0.00 | 5.98 | 18.85 | | | | | | | | |
| | P50XX003 | 9.19 | 0.73 | 7.82 | 1.30 | 0.00 | 0.00 | 11.05 | 30.09 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------|----------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P55 | P55GF001 | 2.64 | 0.21 | 1.93 | 0.32 | 0.08 | 0.01 | 3.54 | 8.73 | | | | | | | | |
| | P55GF002 | 2.86 | 0.23 | 1.93 | 0.32 | 0.08 | 0.01 | 3.84 | 9.27 | | | | | | | | |
| | P55GR001 | 0.53 | 0.04 | 0.17 | 0.08 | 0.00 | 0.00 | 0.40 | 1.22 | | | | | | | | |
| | P55GR002 | 0.60 | 0.04 | 0.44 | 0.22 | 0.00 | 0.00 | 0.45 | 1.75 | | | | | | | | |
| | P55GR003 | 1.55 | 0.11 | 2.18 | 1.07 | 0.00 | 0.00 | 1.17 | 6.08 | | | | | | | | |
| | P55GR004 | 2.28 | 0.16 | 5.24 | 2.57 | 0.00 | 0.00 | 1.72 | 11.97 | | | | | | | | |
| | P55WC001 | 0.04 | 0.00 | 0.09 | 0.04 | 0.00 | 0.00 | 0.03 | 0.20 | | | | | | | | |
| | P55WC002 | 0.07 | 0.00 | 0.09 | 0.04 | 0.00 | 0.00 | 0.05 | 0.25 | | | | | | | | |
| P60 | P60GF003 | 3.67 | 0.29 | 6.63 | 1.10 | 0.08 | 0.01 | 4.42 | 16.20 | | | | | | | | |
| | P60GF004 | 3.81 | 0.30 | 6.63 | 1.10 | 0.08 | 0.01 | 4.59 | 16.52 | | | | | | | | |
| | P60GF005 | 4.81 | 0.38 | 10.40 | 1.73 | 0.08 | 0.01 | 5.79 | 23.20 | | | | | | | | |
| | P60GF006 | 5.47 | 0.44 | 12.88 | 2.14 | 0.08 | 0.01 | 6.59 | 27.61 | | | | | | | | |
| | P60GF008 | 3.87 | 0.31 | 6.63 | 1.10 | 0.08 | 0.01 | 4.66 | 16.66 | | | | | | | | |
| | P60GR001 | 2.85 | 0.23 | 4.32 | 0.72 | 0.06 | 0.01 | 3.44 | 11.63 | | | | | | | | |
| | P60GR002 | 3.55 | 0.28 | 12.89 | 1.80 | 0.06 | 0.01 | 4.28 | 22.87 | | | | | | | | |
| | P60HO002 | 0.11 | 0.01 | 0.62 | 0.09 | 0.00 | 0.00 | 0.13 | 0.96 | | | | | | | | |
| | P60HO003 | 0.20 | 0.02 | 1.41 | 0.20 | 0.00 | 0.00 | 0.24 | 2.07 | | | | | | | | |
| | P60WC001 | 0.06 | 0.00 | 0.71 | 0.10 | 0.00 | 0.00 | 0.07 | 0.94 | | | | | | | | |
| | P60WC002 | 0.07 | 0.01 | 1.06 | 0.15 | 0.00 | 0.00 | 0.09 | 1.38 | | | | | | | | |
| P65 | P65GR002 | 0.42 | 0.04 | 0.26 | 0.04 | 0.18 | 0.03 | 0.47 | 1.44 | | | | | | | | |
| | P65GR003 | 0.89 | 0.08 | 0.53 | 0.07 | 0.20 | 0.03 | 0.97 | 2.77 | | | | | | | | |
| | P65HO001 | 0.18 | 0.01 | 0.62 | 0.09 | 0.00 | 0.00 | 0.22 | 1.12 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|-------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P65 | cont. | | | | | | | | | | | | | | | | |
| | P65HO002 | 0.21 | 0.02 | 0.62 | 0.09 | 0.00 | 0.00 | 0.26 | 1.20 | | | | | | | | |
| | P65WC001 | 0.22 | 0.02 | 0.71 | 0.10 | 0.00 | 0.00 | 0.24 | 1.29 | | | | | | | | |
| P70 | | | | | | | | | | | | | | | | | |
| | P70XX001 | 0.38 | 0.03 | 0.35 | 0.05 | 0.00 | 0.00 | 0.43 | 1.24 | | | | | | | | |
| | P70XX002 | 0.99 | 0.09 | 1.06 | 0.15 | 0.00 | 0.00 | 1.12 | 3.41 | | | | | | | | |
| R10 | | | | | | | | | | | | | | | | | |
| | R10CA001 | 1.25 | 0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 1.48 | 2.91 | 1.53 | 0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 2.02 | 3.73 |
| | R10CA003 | 1.24 | 0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 1.48 | 2.90 | 1.53 | 0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 2.02 | 3.73 |
| | R10CA005 | 1.25 | 0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 1.48 | 2.91 | 1.53 | 0.10 | 0.00 | 0.08 | 0.00 | 0.00 | 2.02 | 3.73 |
| | R10CA006 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.10 |
| | R10CA007 | 3.18 | 0.25 | 0.00 | 0.08 | 0.00 | 0.00 | 3.78 | 7.29 | 3.92 | 0.26 | 0.00 | 0.08 | 0.00 | 0.00 | 5.17 | 9.43 |
| | R10CA009 | 5.57 | 0.44 | 0.00 | 0.08 | 0.00 | 0.00 | 6.62 | 12.71 | 6.86 | 0.45 | 0.00 | 0.08 | 0.00 | 0.00 | 9.05 | 16.44 |
| | R10CA010 | 0.23 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.52 | 0.28 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.67 |
| | R10CA011 | 6.81 | 0.54 | 0.00 | 0.10 | 0.00 | 0.00 | 8.09 | 15.54 | 8.38 | 0.55 | 0.00 | 0.10 | 0.00 | 0.00 | 11.06 | 20.09 |
| | R10CA012 | 7.72 | 0.61 | 0.00 | 0.10 | 0.00 | 0.00 | 9.17 | 17.60 | 9.51 | 0.62 | 0.00 | 0.10 | 0.00 | 0.00 | 12.55 | 22.78 |
| | R10CA013 | 0.59 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.70 | 1.34 | 0.72 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 1.73 |
| | R10CA014 | 9.59 | 0.76 | 0.00 | 0.16 | 0.00 | 0.00 | 11.38 | 21.89 | 11.80 | 0.77 | 0.00 | 0.16 | 0.00 | 0.00 | 15.58 | 28.31 |
| | R10CA015 | 9.14 | 0.72 | 0.00 | 0.16 | 0.00 | 0.00 | 10.86 | 20.88 | 11.25 | 0.74 | 0.00 | 0.16 | 0.00 | 0.00 | 14.86 | 27.01 |
| | R10CA016 | 0.70 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 1.59 | 0.87 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.14 | 2.07 |
| | R10CA017 | 12.76 | 1.01 | 0.00 | 0.21 | 0.00 | 0.00 | 15.16 | 29.14 | 15.71 | 1.03 | 0.00 | 0.21 | 0.00 | 0.00 | 20.73 | 37.68 |
| | R10CA018 | 15.43 | 1.22 | 0.00 | 0.22 | 0.00 | 0.00 | 18.32 | 35.19 | 18.99 | 1.25 | 0.00 | 0.22 | 0.00 | 0.00 | 25.06 | 45.52 |
| | R10CA019 | 0.91 | 0.07 | 0.00 | 0.24 | 0.00 | 0.00 | 1.09 | 2.31 | 1.13 | 0.07 | 0.00 | 0.24 | 0.00 | 0.00 | 1.49 | 2.93 |
| | R10CA020 | 15.20 | 1.20 | 0.00 | 0.23 | 0.00 | 0.00 | 18.05 | 34.68 | 18.70 | 1.23 | 0.00 | 0.23 | 0.00 | 0.00 | 24.69 | 44.85 |
| | R10CA021 | 15.52 | 1.23 | 0.00 | 0.25 | 0.00 | 0.00 | 18.43 | 35.43 | 19.10 | 1.25 | 0.00 | 0.25 | 0.00 | 0.00 | 25.22 | 45.82 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--|--|--|---|--|--|--|--|---|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| R10 | cont. R10CA022 | 0.22 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.51 | 0.28 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.66 |
| R15 | R15WV001 R15WV002 | 0.85 0.98 | 0.10 0.11 | 0.00 0.00 | 0.00 0.00 | 0.24 0.24 | 0.04 0.04 | 0.84 0.97 | 2.07 2.34 | | | | | | | | |
| R20 | R20HJ001 R20HJ002 | 3.27 1.37 | 0.32 0.13 | 0.00 0.00 | 0.25 0.25 | 0.00 0.00 | 0.00 0.00 | 3.57 1.50 | 7.41 3.25 | | | | | | | | |
| R30 | R30BO003 R30BO004 R30BO005 R30BO006 R30BO007 R30BO008 R30BO009 R30CA001 R30CA002 R30CA003 R30CA006 R30CA012 R30CA013 R30RS002 R30RS003 R30SI005 | 15.68 7.76 7.72 8.47 9.88 40.15 39.47 10.64 24.46 35.65 51.71 35.52 53.95 4.16 8.60 11.92 | 1.20 0.64 0.68 0.75 0.87 4.60 4.53 0.78 1.77 4.09 5.93 4.07 6.18 0.37 0.65 1.05 | 8.95 6.91 3.82 6.75 6.34 35.94 35.94 8.17 10.82 19.52 25.62 17.89 28.79 2.03 6.91 6.10 | 0.94 0.72 0.40 0.71 0.66 3.76 3.76 0.86 1.13 2.04 2.68 1.87 3.01 0.21 0.72 0.64 | 2.01 2.31 0.00 0.00 0.00 0.00 0.00 0.33 0.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.31 0.36 0.00 0.00 0.00 0.00 0.00 0.05 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 14.24 7.13 7.92 8.70 10.15 43.81 43.07 9.58 22.00 38.90 56.43 38.76 58.87 4.27 7.79 12.25 | 43.33 25.83 20.54 25.38 27.90 128.26 126.77 30.41 60.56 100.20 142.37 98.11 150.80 11.04 25.66 31.96 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| R30 | cont. R30WG001 | 12.39 | 1.09 | 6.02 | 0.63 | 0.00 | 0.00 | 12.72 | 32.85 | | | | | | | | |
| R40 | R40BO001 | 7.31 | 0.58 | 4.60 | 0.64 | 0.00 | 0.00 | 7.98 | 21.11 | | | | | | | | |
| R45 | R45BO002 | 7.92 | 0.63 | 4.60 | 0.64 | 0.00 | 0.00 | 8.65 | 22.44 | | | | | | | | |
| | R45BO004 | 4.39 | 0.35 | 3.04 | 0.42 | 0.00 | 0.00 | 6.59 | 14.79 | | | | | | | | |
| | R45BO005 | 6.46 | 0.51 | 4.23 | 0.59 | 0.00 | 0.00 | 9.70 | 21.49 | | | | | | | | |
| | R45BO006 | 13.00 | 1.03 | 9.94 | 1.39 | 0.00 | 0.00 | 19.52 | 44.88 | | | | | | | | |
| | R45BO007 | 14.88 | 1.17 | 12.05 | 1.68 | 0.00 | 0.00 | 22.34 | 52.12 | | | | | | | | |
| | R45BO008 | 16.57 | 1.31 | 18.86 | 2.63 | 0.00 | 0.00 | 24.87 | 64.24 | | | | | | | | |
| | R45CA002 | 3.66 | 0.29 | 2.07 | 0.29 | 0.00 | 0.00 | 5.50 | 11.81 | | | | | | | | |
| | R45CA003 | 5.18 | 0.41 | 3.33 | 0.47 | 0.00 | 0.00 | 7.78 | 17.17 | | | | | | | | |
| | R45CA004 | 6.36 | 0.50 | 4.49 | 0.63 | 0.00 | 0.00 | 9.55 | 21.53 | | | | | | | | |
| | R45CA005 | 13.34 | 1.05 | 7.64 | 1.07 | 0.00 | 0.00 | 20.02 | 43.12 | | | | | | | | |
| | R45CA006 | 7.41 | 0.58 | 4.49 | 0.63 | 0.00 | 0.00 | 11.12 | 24.23 | | | | | | | | |
| | R45CA007 | 12.38 | 0.98 | 10.12 | 1.41 | 0.00 | 0.00 | 18.58 | 43.47 | | | | | | | | |
| | R45CA008 | 15.55 | 1.23 | 12.15 | 1.70 | 0.00 | 0.00 | 23.34 | 53.97 | | | | | | | | |
| | R45CA009 | 17.27 | 1.36 | 13.07 | 1.83 | 0.00 | 0.00 | 25.93 | 59.46 | | | | | | | | |
| | R45CA010 | 21.21 | 1.67 | 13.25 | 1.85 | 0.00 | 0.00 | 31.84 | 69.82 | | | | | | | | |
| | R45CA011 | 4.34 | 0.34 | 3.04 | 0.42 | 0.00 | 0.00 | 6.52 | 14.66 | | | | | | | | |
| | R45CA012 | 15.29 | 1.21 | 12.61 | 1.76 | 0.00 | 0.00 | 22.95 | 53.82 | | | | | | | | |
| | R45CA013 | 20.23 | 1.60 | 12.61 | 1.76 | 0.00 | 0.00 | 30.38 | 66.58 | | | | | | | | |
| | R45CA014 | 11.27 | 0.89 | 9.20 | 1.28 | 0.00 | 0.00 | 16.92 | 39.56 | | | | | | | | |
| | R45CA015 | 19.10 | 1.51 | 9.20 | 1.28 | 0.00 | 0.00 | 28.68 | 59.77 | | | | | | | | |
| | R45CA016 | 4.61 | 0.36 | 3.31 | 0.46 | 0.00 | 0.00 | 6.92 | 15.66 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| R45 | cont. | | | | | | | | | | | | | | | | |
| | R45SI008 | 4.37 | 0.35 | 3.22 | 0.45 | 0.00 | 0.00 | 6.56 | 14.95 | | | | | | | | |
| | R45SI009 | 11.91 | 0.94 | 7.18 | 1.00 | 0.00 | 0.00 | 17.87 | 38.90 | | | | | | | | |
| | R45SI010 | 15.96 | 1.26 | 11.69 | 1.63 | 0.00 | 0.00 | 23.96 | 54.50 | | | | | | | | |
| | R45WG001 | 4.75 | 0.37 | 3.22 | 0.45 | 0.00 | 0.00 | 7.13 | 15.92 | | | | | | | | |
| | R45WG002 | 13.84 | 1.09 | 9.20 | 1.28 | 0.00 | 0.00 | 20.77 | 46.18 | | | | | | | | |
| R50 | R45WG003 | 18.81 | 1.48 | 11.96 | 1.67 | 0.00 | 0.00 | 28.24 | 62.16 | | | | | | | | |
| | R50BO005 | 5.78 | 0.51 | 3.32 | 0.46 | 0.35 | 0.05 | 8.47 | 18.94 | | | | | | | | |
| | R50BO006 | 8.56 | 0.76 | 4.98 | 0.70 | 0.33 | 0.05 | 12.52 | 27.90 | | | | | | | | |
| | R50BO007 | 9.87 | 0.88 | 4.98 | 0.70 | 0.64 | 0.10 | 14.47 | 31.64 | | | | | | | | |
| | R50BO008 | 17.13 | 1.50 | 10.28 | 1.44 | 0.43 | 0.07 | 25.00 | 55.85 | | | | | | | | |
| | R50BO009 | 15.67 | 1.38 | 12.94 | 1.81 | 0.43 | 0.07 | 22.89 | 55.19 | | | | | | | | |
| | R50BO010 | 5.95 | 0.53 | 3.32 | 0.46 | 0.35 | 0.05 | 8.72 | 19.38 | | | | | | | | |
| | R50BO011 | 9.04 | 0.80 | 4.98 | 0.70 | 0.33 | 0.05 | 13.22 | 29.12 | | | | | | | | |
| | R50BO012 | 11.65 | 1.04 | 6.70 | 0.94 | 0.64 | 0.10 | 17.06 | 38.13 | | | | | | | | |
| | R50BO013 | 18.00 | 1.58 | 8.69 | 1.21 | 0.43 | 0.07 | 26.27 | 56.25 | | | | | | | | |
| | R50CA001 | 9.03 | 0.80 | 4.64 | 0.65 | 0.31 | 0.05 | 13.19 | 28.67 | | | | | | | | |
| | R50CA002 | 10.01 | 0.88 | 4.64 | 0.65 | 0.31 | 0.05 | 14.62 | 31.16 | | | | | | | | |
| | R50CA003 | 11.28 | 0.98 | 4.91 | 0.69 | 0.00 | 0.00 | 16.43 | 34.29 | | | | | | | | |
| | R50CA004 | 15.33 | 1.35 | 6.63 | 0.93 | 0.50 | 0.08 | 22.39 | 47.21 | | | | | | | | |
| | R50CA005 | 12.64 | 1.12 | 6.63 | 0.93 | 0.58 | 0.09 | 18.50 | 40.49 | | | | | | | | |
| | R50CA006 | 10.26 | 0.91 | 5.51 | 0.77 | 0.58 | 0.09 | 15.02 | 33.14 | | | | | | | | |
| | R50CA007 | 16.06 | 1.47 | 10.35 | 1.45 | 1.92 | 0.30 | 23.68 | 55.23 | | | | | | | | |
| | R50CA008 | 18.88 | 1.71 | 10.35 | 1.45 | 1.92 | 0.30 | 27.79 | 62.40 | | | | | | | | |
| | R50CA009 | 21.26 | 1.90 | 10.42 | 1.46 | 1.53 | 0.24 | 31.19 | 68.00 | | | | | | | | |
| | R50CA010 | 23.59 | 2.11 | 11.52 | 1.61 | 1.53 | 0.24 | 34.59 | 75.19 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| R50 | cont. | | | | | | | | | | | | | | | | |
| | R50CA011 | 18.63 | 1.67 | 10.42 | 1.46 | 1.38 | 0.21 | 27.34 | 61.11 | | | | | | | | |
| | R50CA012 | 9.09 | 0.81 | 4.91 | 0.69 | 0.81 | 0.13 | 13.32 | 29.76 | | | | | | | | |
| | R50CA013 | 13.80 | 1.22 | 6.63 | 0.93 | 0.58 | 0.09 | 20.18 | 43.43 | | | | | | | | |
| | R50CA014 | 15.29 | 1.35 | 6.63 | 0.93 | 0.58 | 0.09 | 22.36 | 47.23 | | | | | | | | |
| | R50CA015 | 18.18 | 1.63 | 10.42 | 1.46 | 1.38 | 0.21 | 26.68 | 59.96 | | | | | | | | |
| | R50CA016 | 17.97 | 1.61 | 10.42 | 1.46 | 1.38 | 0.21 | 26.38 | 59.43 | | | | | | | | |
| | R50CA017 | 15.46 | 1.39 | 8.69 | 1.21 | 1.38 | 0.21 | 22.73 | 51.07 | | | | | | | | |
| | R50CA018 | 24.05 | 2.14 | 11.52 | 1.61 | 1.38 | 0.21 | 35.23 | 76.14 | | | | | | | | |
| | R50SI006 | 7.83 | 0.73 | 3.98 | 0.56 | 1.47 | 0.23 | 11.63 | 26.43 | | | | | | | | |
| | R50SI007 | 8.43 | 0.79 | 3.98 | 0.56 | 1.47 | 0.23 | 12.51 | 27.97 | | | | | | | | |
| | R50SI013 | 13.34 | 1.22 | 9.82 | 1.37 | 1.53 | 0.24 | 19.67 | 47.19 | | | | | | | | |
| | R50SI016 | 14.26 | 1.30 | 9.82 | 1.37 | 1.53 | 0.24 | 21.01 | 49.53 | | | | | | | | |
| | R50SI017 | 15.49 | 1.40 | 9.82 | 1.37 | 1.53 | 0.24 | 22.79 | 52.64 | | | | | | | | |
| | R50SI022 | 11.28 | 1.00 | 6.63 | 0.93 | 0.62 | 0.10 | 16.52 | 37.08 | | | | | | | | |
| | R50SI023 | 12.67 | 1.12 | 6.63 | 0.93 | 0.62 | 0.10 | 18.55 | 40.62 | | | | | | | | |
| | R50WG001 | 13.43 | 1.22 | 8.76 | 1.22 | 1.53 | 0.24 | 19.79 | 46.19 | | | | | | | | |
| | R50WG002 | 14.82 | 1.34 | 10.61 | 1.48 | 1.53 | 0.24 | 21.81 | 51.83 | | | | | | | | |
| | R50WG003 | 4.68 | 0.42 | 2.32 | 0.32 | 0.45 | 0.07 | 6.88 | 15.14 | | | | | | | | |
| | R50WG004 | 6.04 | 0.54 | 2.99 | 0.42 | 0.45 | 0.07 | 8.87 | 19.38 | | | | | | | | |
| | R50WG005 | 14.64 | 1.29 | 6.63 | 0.93 | 0.45 | 0.07 | 21.39 | 45.40 | | | | | | | | |
| | R50WG006 | 7.41 | 0.67 | 4.98 | 0.70 | 1.28 | 0.20 | 10.90 | 26.14 | | | | | | | | |
| | R50WG007 | 7.70 | 0.72 | 4.98 | 0.70 | 2.18 | 0.34 | 11.42 | 28.04 | | | | | | | | |
| | R50WG008 | 9.87 | 0.88 | 6.63 | 0.93 | 0.58 | 0.09 | 14.46 | 33.44 | | | | | | | | |
| | R50WG009 | 10.66 | 0.95 | 6.63 | 0.93 | 0.58 | 0.09 | 15.61 | 35.45 | | | | | | | | |
| | R50WG010 | 11.79 | 1.04 | 7.30 | 1.02 | 0.55 | 0.08 | 17.25 | 39.03 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------|----------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| R55 | R55GL001 | 0.76 | 0.04 | 0.00 | 0.50 | 0.02 | 0.00 | 0.77 | 2.09 | | | | | | | | |
| | R55GL002 | 1.04 | 0.06 | 0.59 | 0.56 | 0.04 | 0.01 | 1.05 | 3.35 | | | | | | | | |
| | R55GL003 | 2.83 | 0.16 | 1.06 | 0.86 | 0.04 | 0.01 | 2.86 | 7.82 | | | | | | | | |
| | R55GL004 | 3.47 | 0.20 | 1.06 | 1.11 | 0.03 | 0.00 | 3.50 | 9.37 | | | | | | | | |
| | R55GL007 | 2.47 | 0.14 | 2.12 | 0.22 | 0.00 | 0.00 | 2.49 | 7.44 | | | | | | | | |
| | R55GL009 | 0.54 | 0.03 | 1.24 | 0.13 | 0.00 | 0.00 | 0.55 | 2.49 | | | | | | | | |
| | R55GL011 | 1.30 | 0.07 | 1.88 | 0.20 | 0.00 | 0.00 | 1.31 | 4.76 | | | | | | | | |
| | R55GL012 | 1.99 | 0.11 | 1.06 | 0.86 | 0.04 | 0.01 | 2.01 | 6.08 | | | | | | | | |
| | R55GL013 | 0.15 | 0.02 | 0.00 | 0.25 | 0.13 | 0.02 | 0.17 | 0.74 | | | | | | | | |
| | R55GL014 | 0.67 | 0.04 | 0.00 | 0.35 | 0.00 | 0.00 | 0.67 | 1.73 | | | | | | | | |
| | R55GL015 | 2.09 | 0.12 | 1.06 | 0.11 | 0.00 | 0.00 | 2.10 | 5.48 | | | | | | | | |
| | R55GL016 | 0.88 | 0.05 | 1.06 | 0.11 | 0.00 | 0.00 | 0.88 | 2.98 | | | | | | | | |
| | R55GL017 | 0.39 | 0.02 | 0.59 | 0.06 | 0.00 | 0.00 | 0.39 | 1.45 | | | | | | | | |
| | R55GL018 | 0.45 | 0.03 | 0.59 | 0.06 | 0.00 | 0.00 | 0.46 | 1.59 | | | | | | | | |
| | R55GL019 | 0.86 | 0.05 | 0.94 | 0.10 | 0.00 | 0.00 | 0.87 | 2.82 | | | | | | | | |
| | R55GL020 | 0.77 | 0.04 | 0.59 | 0.06 | 0.00 | 0.00 | 0.78 | 2.24 | | | | | | | | |
| | R55GL021 | 0.45 | 0.03 | 1.06 | 0.11 | 0.00 | 0.00 | 0.45 | 2.10 | | | | | | | | |
| | R55GL022 | 4.39 | 0.25 | 0.94 | 7.10 | 0.16 | 0.02 | 4.44 | 17.30 | | | | | | | | |
| | R55GL023 | 1.30 | 0.07 | 0.94 | 0.10 | 0.00 | 0.00 | 1.31 | 3.72 | | | | | | | | |
| | R55GL024 | 0.91 | 0.05 | 0.65 | 0.07 | 0.00 | 0.00 | 0.91 | 2.59 | | | | | | | | |
| | R55GL025 | 0.65 | 0.04 | 0.77 | 0.08 | 0.00 | 0.00 | 0.65 | 2.19 | | | | | | | | |
| | R55GL026 | 0.60 | 0.03 | 0.71 | 0.07 | 0.00 | 0.00 | 0.60 | 2.01 | | | | | | | | |
| | R55GL027 | 4.49 | 0.25 | 0.37 | 0.54 | 0.03 | 0.00 | 4.52 | 10.20 | | | | | | | | |
| | R55GL028 | 5.08 | 0.29 | 0.59 | 0.56 | 0.03 | 0.00 | 5.12 | 11.67 | | | | | | | | |
| | R55GL029 | 5.94 | 0.33 | 1.06 | 0.86 | 0.03 | 0.00 | 5.98 | 14.20 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| S10 | S10CA003 | 46.23 | 6.76 | 27.00 | 3.77 | 18.60 | 2.87 | 64.77 | 170.00 | 52.26 | 6.82 | 35.71 | 4.99 | 74.41 | 11.50 | 77.12 | 262.81 |
| S15 | S15CA001 | 37.88 | 5.77 | 25.26 | 3.53 | 18.60 | 2.87 | 41.78 | 135.69 | 45.46 | 5.83 | 32.23 | 4.50 | 74.41 | 11.50 | 53.31 | 227.24 |
| | S15CA002 | 53.11 | 7.88 | 27.93 | 3.90 | 16.20 | 2.50 | 58.24 | 169.76 | 63.73 | 7.95 | 35.63 | 4.98 | 64.85 | 10.02 | 74.32 | 261.48 |
| | S15JU001 | 32.48 | 4.60 | 26.19 | 3.66 | 0.00 | 0.00 | 35.28 | 102.21 | 38.97 | 4.64 | 33.41 | 4.67 | 0.00 | 0.00 | 45.01 | 126.70 |
| | S15JU002 | 34.01 | 4.81 | 26.19 | 3.66 | 0.00 | 0.00 | 36.94 | 105.61 | 40.81 | 4.86 | 33.41 | 4.67 | 0.00 | 0.00 | 47.14 | 130.89 |
| S20 | S20CA001 | 37.88 | 5.77 | 44.75 | 5.09 | 22.47 | 3.47 | 44.42 | 163.85 | 42.09 | 5.80 | 58.17 | 6.61 | 95.07 | 14.69 | 52.24 | 274.67 |
| | S20CA002 | 44.68 | 6.73 | 44.75 | 5.09 | 22.47 | 3.47 | 52.27 | 179.46 | 49.64 | 6.77 | 58.17 | 6.61 | 95.07 | 14.69 | 61.48 | 292.43 |
| | S20CA003 | 68.66 | 10.08 | 44.94 | 5.12 | 19.59 | 3.03 | 79.88 | 231.30 | 76.29 | 10.12 | 58.43 | 6.64 | 82.87 | 12.80 | 93.95 | 341.10 |
| | S20CA004 | 71.61 | 10.49 | 44.94 | 5.12 | 19.59 | 3.03 | 83.30 | 238.08 | 79.57 | 10.54 | 58.43 | 6.64 | 82.87 | 12.80 | 97.96 | 348.81 |
| | S20CA005 | 87.22 | 12.91 | 60.99 | 6.94 | 31.00 | 4.79 | 101.67 | 305.52 | 96.91 | 12.97 | 79.28 | 9.02 | 131.14 | 20.26 | 119.57 | 469.15 |
| | S20CA006 | 92.78 | 13.70 | 60.99 | 6.94 | 31.00 | 4.79 | 108.09 | 318.29 | 103.09 | 13.76 | 79.28 | 9.02 | 131.14 | 20.26 | 127.12 | 483.67 |
| S25 | S25JD001 | 4.00 | 0.51 | 0.00 | 1.50 | 1.51 | 0.23 | 3.90 | 11.65 | 4.80 | 0.52 | 0.00 | 1.50 | 5.63 | 0.87 | 5.01 | 18.33 |
| | S25JD002 | 5.31 | 0.66 | 0.00 | 1.50 | 1.51 | 0.23 | 5.14 | 14.35 | 6.37 | 0.67 | 0.00 | 1.50 | 5.63 | 0.87 | 6.61 | 21.65 |
| | S25RI001 | 3.34 | 0.44 | 0.00 | 1.50 | 1.52 | 0.23 | 3.26 | 10.29 | 4.00 | 0.44 | 0.00 | 1.50 | 5.67 | 0.88 | 4.19 | 16.68 |
| | S25RI002 | 3.64 | 0.50 | 0.00 | 1.50 | 2.17 | 0.34 | 3.60 | 11.75 | 4.37 | 0.50 | 0.00 | 1.50 | 8.08 | 1.25 | 4.62 | 20.32 |
| | S25RM001 | 8.16 | 1.06 | 0.00 | 1.50 | 3.47 | 0.54 | 7.96 | 22.69 | 9.79 | 1.07 | 0.00 | 1.50 | 12.84 | 1.98 | 10.23 | 37.41 |
| | S25RM002 | 10.12 | 1.43 | 0.00 | 1.50 | 8.22 | 1.27 | 10.07 | 32.61 | 12.14 | 1.45 | 0.00 | 1.50 | 30.34 | 4.69 | 12.94 | 63.06 |
| | S25RM003 | 6.25 | 0.84 | 0.00 | 1.50 | 3.47 | 0.54 | 6.15 | 18.75 | 7.51 | 0.85 | 0.00 | 1.50 | 12.84 | 1.98 | 7.90 | 32.58 |
| | S25RM004 | 10.43 | 1.47 | 0.00 | 1.50 | 8.22 | 1.27 | 10.37 | 33.26 | 12.52 | 1.48 | 0.00 | 1.50 | 30.34 | 4.69 | 13.33 | 63.86 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|---------|------------------------------|-------|------|------|-----------|-------------|--------|-----------------------------|------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| S30 | | | | | | | | | | | | | | | | | |
| S30KB007 | 4.14 | 0.36 | 0.63 | 0.31 | 0.46 | 0.07 | 3.47 | 9.44 | 5.18 | 0.37 | 0.76 | 0.45 | 0.52 | 0.08 | 5.27 | 12.63 | |
| S30KB008 | 5.13 | 0.44 | 0.95 | 0.47 | 0.52 | 0.08 | 4.29 | 11.88 | 6.41 | 0.45 | 1.13 | 0.67 | 0.59 | 0.09 | 6.52 | 15.86 | |
| S30KB009 | 6.91 | 0.61 | 0.95 | 0.47 | 0.98 | 0.15 | 5.80 | 15.87 | 8.63 | 0.63 | 1.13 | 0.67 | 1.10 | 0.17 | 8.81 | 21.14 | |
| S30KB012 | 7.33 | 0.65 | 1.58 | 0.78 | 1.08 | 0.17 | 6.16 | 17.75 | 9.17 | 0.67 | 1.89 | 1.12 | 1.21 | 0.19 | 9.36 | 23.61 | |
| S30KB013 | 4.93 | 0.44 | 1.58 | 0.78 | 0.71 | 0.11 | 4.14 | 12.69 | 6.17 | 0.45 | 1.89 | 1.12 | 0.81 | 0.13 | 6.29 | 16.86 | |
| S30KB014 | 6.70 | 0.58 | 1.89 | 0.93 | 0.80 | 0.12 | 5.61 | 16.63 | 8.37 | 0.60 | 2.27 | 1.35 | 0.91 | 0.14 | 8.53 | 22.17 | |
| S30KB015 | 9.00 | 0.79 | 2.52 | 1.24 | 1.17 | 0.18 | 7.55 | 22.45 | 11.24 | 0.81 | 3.03 | 1.80 | 1.32 | 0.20 | 11.46 | 29.86 | |
| S30KB018 | 10.70 | 0.90 | 1.58 | 0.78 | 0.76 | 0.12 | 8.94 | 23.78 | 13.38 | 0.92 | 1.89 | 1.12 | 0.86 | 0.13 | 13.58 | 31.88 | |
| S30KB021 | 12.41 | 1.05 | 2.52 | 1.24 | 0.87 | 0.13 | 10.37 | 28.59 | 15.52 | 1.07 | 3.03 | 1.80 | 0.99 | 0.15 | 15.75 | 38.31 | |
| S30KB034 | 5.42 | 0.47 | 0.95 | 0.47 | 0.68 | 0.11 | 4.55 | 12.65 | 6.78 | 0.49 | 1.13 | 0.67 | 0.77 | 0.12 | 6.90 | 16.86 | |
| S30KB036 | 5.80 | 0.51 | 1.26 | 0.62 | 0.76 | 0.12 | 4.86 | 13.93 | 7.24 | 0.52 | 1.51 | 0.90 | 0.86 | 0.13 | 7.38 | 18.54 | |
| S30KB044 | 17.70 | 1.46 | 0.95 | 0.47 | 0.67 | 0.10 | 14.75 | 36.10 | 22.12 | 1.49 | 1.13 | 0.67 | 0.76 | 0.12 | 22.40 | 48.69 | |
| S30KB046 | 16.53 | 3.20 | 17.15 | 8.43 | 1.14 | 0.18 | 23.61 | 70.24 | 27.55 | 3.28 | 20.58 | 12.23 | 1.28 | 0.20 | 52.48 | 117.60 | |
| S30KJ002 | 8.38 | 0.71 | 0.95 | 0.47 | 0.61 | 0.09 | 7.00 | 18.21 | 10.48 | 0.72 | 1.13 | 0.67 | 0.69 | 0.11 | 10.64 | 24.44 | |
| S30KJ004 | 9.70 | 0.82 | 0.95 | 0.47 | 0.68 | 0.11 | 8.10 | 20.83 | 12.12 | 0.84 | 1.13 | 0.67 | 0.77 | 0.12 | 12.30 | 27.95 | |
| S30KJ006 | 9.72 | 0.82 | 1.89 | 0.93 | 0.76 | 0.12 | 8.12 | 22.36 | 12.15 | 0.84 | 2.27 | 1.35 | 0.86 | 0.13 | 12.34 | 29.94 | |
| S30KJ010 | 7.16 | 0.61 | 1.26 | 0.62 | 0.65 | 0.10 | 5.99 | 16.39 | 8.95 | 0.63 | 1.51 | 0.90 | 0.73 | 0.11 | 9.10 | 21.93 | |
| S30KJ011 | 8.04 | 0.69 | 1.58 | 0.78 | 0.72 | 0.11 | 6.73 | 18.65 | 10.05 | 0.70 | 1.89 | 1.12 | 0.82 | 0.13 | 10.22 | 24.93 | |
| S30KJ035 | 8.57 | 0.74 | 1.26 | 0.62 | 0.83 | 0.13 | 7.18 | 19.33 | 10.72 | 0.75 | 1.51 | 0.90 | 0.94 | 0.15 | 10.90 | 25.87 | |
| S30KJ041 | 10.16 | 0.87 | 1.26 | 0.62 | 0.94 | 0.15 | 8.50 | 22.50 | 12.70 | 0.89 | 1.51 | 0.90 | 1.06 | 0.16 | 12.91 | 30.13 | |
| S30KJ042 | 18.56 | 1.53 | 1.89 | 0.93 | 0.61 | 0.09 | 15.47 | 39.08 | 23.21 | 1.56 | 2.27 | 1.35 | 0.69 | 0.11 | 23.49 | 52.68 | |
| S30KJ043 | 16.74 | 1.38 | 0.95 | 0.47 | 0.67 | 0.10 | 13.95 | 34.26 | 20.93 | 1.41 | 1.13 | 0.67 | 0.76 | 0.12 | 21.20 | 46.22 | |
| S30KJ045 | 20.30 | 3.89 | 23.88 | 2.92 | 0.84 | 0.13 | 24.14 | 76.10 | 33.83 | 4.00 | 28.50 | 4.18 | 0.95 | 0.15 | 50.28 | 121.89 | |
| S30KJ048 | 19.68 | 1.62 | 5.36 | 2.63 | 0.76 | 0.12 | 18.75 | 48.92 | 24.60 | 1.66 | 6.43 | 3.82 | 0.86 | 0.13 | 29.30 | 66.80 | |
| S30KJ049 | 21.90 | 1.92 | 5.67 | 2.79 | 2.88 | 0.44 | 21.00 | 56.60 | 27.38 | 1.96 | 6.81 | 4.05 | 3.24 | 0.50 | 32.82 | 76.76 | |
| S30KJ050 | 38.28 | 3.11 | 2.52 | 1.24 | 0.56 | 0.09 | 36.41 | 82.21 | 47.85 | 3.18 | 3.03 | 1.80 | 0.63 | 0.10 | 56.90 | 113.49 | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| S30 | cont. | | | | | | | | | | | | | | | | |
| | S30KJ051 | 47.18 | 3.84 | 2.52 | 1.24 | 0.84 | 0.13 | 44.88 | 100.63 | 58.98 | 3.93 | 3.03 | 1.80 | 0.95 | 0.15 | 70.15 | 138.99 |
| | S30KJ052 | 44.29 | 3.56 | 0.19 | 0.09 | 0.00 | 0.00 | 42.08 | 90.21 | 55.37 | 3.64 | 0.23 | 0.14 | 0.00 | 0.00 | 65.76 | 125.14 |
| | S30KJ053 | 10.19 | 0.86 | 2.52 | 1.24 | 0.67 | 0.10 | 8.51 | 24.09 | 12.73 | 0.88 | 3.03 | 1.80 | 0.76 | 0.12 | 12.92 | 32.24 |
| | S30KJ054 | 11.95 | 0.99 | 0.95 | 0.47 | 0.61 | 0.09 | 9.96 | 25.02 | 14.93 | 1.02 | 1.13 | 0.67 | 0.69 | 0.11 | 15.14 | 33.69 |
| | S30KJ056 | 21.04 | 4.05 | 11.61 | 1.42 | 1.09 | 0.17 | 16.28 | 55.66 | 35.07 | 4.15 | 13.86 | 2.03 | 1.23 | 0.19 | 35.48 | 92.01 |
| | S30KJ057 | 20.97 | 4.02 | 14.06 | 1.72 | 0.81 | 0.13 | 16.21 | 57.92 | 34.95 | 4.12 | 16.79 | 2.46 | 0.91 | 0.14 | 35.34 | 94.71 |
| | S30KJ059 | 46.97 | 8.99 | 18.92 | 9.30 | 1.55 | 0.24 | 36.31 | 122.28 | 78.29 | 9.22 | 22.70 | 13.49 | 1.75 | 0.27 | 79.15 | 204.87 |
| | S30KJ060 | 15.27 | 1.31 | 4.73 | 2.32 | 1.56 | 0.24 | 12.78 | 38.21 | 19.09 | 1.34 | 5.67 | 3.37 | 1.80 | 0.28 | 19.41 | 50.96 |
| | S30KJ061 | 38.08 | 3.14 | 0.63 | 0.31 | 1.37 | 0.21 | 36.27 | 80.01 | 47.60 | 3.21 | 0.76 | 0.45 | 1.54 | 0.24 | 56.69 | 110.49 |
| | S30KJ062 | 10.87 | 0.91 | 2.52 | 1.24 | 0.71 | 0.11 | 9.08 | 25.44 | 13.59 | 0.93 | 3.03 | 1.80 | 0.81 | 0.13 | 13.79 | 34.08 |
| | S30KJ063 | 13.63 | 1.14 | 3.63 | 1.78 | 0.71 | 0.11 | 11.37 | 32.37 | 17.04 | 1.16 | 4.35 | 2.59 | 0.81 | 0.13 | 17.28 | 43.36 |
| | S30KJ064 | 15.17 | 1.30 | 3.78 | 1.86 | 1.56 | 0.24 | 12.69 | 36.60 | 18.96 | 1.33 | 4.54 | 2.70 | 1.80 | 0.28 | 19.28 | 48.89 |
| | S30KJ065 | 15.25 | 1.32 | 3.63 | 1.78 | 1.72 | 0.27 | 12.77 | 36.74 | 19.06 | 1.35 | 4.35 | 2.59 | 1.98 | 0.31 | 19.40 | 49.04 |
| | S30KJ066 | 13.36 | 1.16 | 4.26 | 2.09 | 1.72 | 0.27 | 11.19 | 34.05 | 16.69 | 1.19 | 5.11 | 3.04 | 1.98 | 0.31 | 17.01 | 45.33 |
| | S30KJ067 | 15.67 | 1.35 | 5.20 | 2.55 | 1.72 | 0.27 | 13.12 | 39.88 | 19.58 | 1.38 | 6.24 | 3.71 | 1.98 | 0.31 | 19.92 | 53.12 |
| | S30KJ068 | 17.72 | 3.41 | 13.56 | 6.66 | 0.90 | 0.14 | 25.30 | 67.69 | 29.54 | 3.50 | 16.27 | 9.67 | 1.01 | 0.16 | 56.24 | 116.39 |
| | S30KJ069 | 21.99 | 4.23 | 19.86 | 9.76 | 1.18 | 0.18 | 31.40 | 88.60 | 36.65 | 4.34 | 23.83 | 14.16 | 1.33 | 0.21 | 69.79 | 150.31 |
| | S30KJ070 | 8.36 | 0.71 | 1.42 | 0.70 | 0.68 | 0.11 | 6.99 | 18.97 | 10.45 | 0.73 | 1.70 | 1.01 | 0.77 | 0.12 | 10.62 | 25.40 |
| | S30KJ071 | 14.21 | 1.20 | 1.42 | 0.70 | 0.96 | 0.15 | 11.87 | 30.51 | 17.76 | 1.22 | 1.70 | 1.01 | 1.08 | 0.17 | 18.03 | 40.97 |
| | S30KJ072 | 11.60 | 1.01 | 2.05 | 1.01 | 1.53 | 0.24 | 9.72 | 27.16 | 14.50 | 1.04 | 2.46 | 1.46 | 1.76 | 0.27 | 14.77 | 36.26 |
| | S30KJ081 | 3.68 | 0.32 | 0.63 | 0.31 | 0.50 | 0.08 | 3.08 | 8.60 | 4.59 | 0.33 | 0.76 | 0.45 | 0.56 | 0.09 | 4.69 | 11.47 |
| | S30KJ082 | 4.96 | 0.44 | 0.63 | 0.31 | 0.73 | 0.11 | 4.17 | 11.35 | 6.20 | 0.45 | 0.76 | 0.45 | 0.83 | 0.13 | 6.33 | 15.15 |
| | S30KJ083 | 3.71 | 0.34 | 0.95 | 0.47 | 0.68 | 0.11 | 3.12 | 9.38 | 4.64 | 0.34 | 1.13 | 0.67 | 0.77 | 0.12 | 4.74 | 12.41 |
| | S30KJ084 | 5.08 | 0.46 | 1.26 | 0.62 | 0.83 | 0.13 | 4.27 | 12.65 | 6.35 | 0.47 | 1.51 | 0.90 | 0.94 | 0.15 | 6.49 | 16.81 |
| | S30KJ085 | 3.87 | 0.35 | 1.26 | 0.62 | 0.76 | 0.12 | 3.26 | 10.24 | 4.83 | 0.36 | 1.51 | 0.90 | 0.86 | 0.13 | 4.95 | 13.54 |
| | S30KJ086 | 5.30 | 0.48 | 1.58 | 0.78 | 0.94 | 0.15 | 4.46 | 13.69 | 6.62 | 0.49 | 1.89 | 1.12 | 1.06 | 0.16 | 6.77 | 18.11 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|----------------------------|----------|------------------------------|------|-------|-------|-----------|-------------|--------|-----------------------------|-------|------|-------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| S30 <i>cont.</i> | S30KJ087 | 4.67 | 0.42 | 1.89 | 0.93 | 0.83 | 0.13 | 3.93 | 12.80 | 5.83 | 0.43 | 2.27 | 1.35 | 0.94 | 0.15 | 5.97 | 16.94 |
| | S30KJ088 | 8.07 | 0.71 | 2.52 | 1.24 | 1.04 | 0.16 | 6.77 | 20.51 | 10.09 | 0.72 | 3.03 | 1.80 | 1.18 | 0.18 | 10.28 | 27.28 |
| | S30PU002 | 54.09 | 4.39 | 26.54 | 3.25 | 0.94 | 0.15 | 45.00 | 134.36 | 67.62 | 4.49 | 31.67 | 4.65 | 1.12 | 0.17 | 68.36 | 178.08 |
| | S30PU003 | 68.05 | 5.52 | 26.54 | 3.25 | 1.14 | 0.18 | 56.61 | 161.29 | 85.07 | 5.64 | 31.67 | 4.65 | 1.35 | 0.21 | 86.00 | 214.59 |
| | S30PU004 | 79.99 | 6.47 | 26.54 | 3.25 | 1.09 | 0.17 | 66.53 | 184.04 | 99.99 | 6.62 | 31.67 | 4.65 | 1.29 | 0.20 | 101.07 | 245.49 |
| | S30RA003 | 13.29 | 1.08 | 2.92 | 0.36 | 0.20 | 0.03 | 12.64 | 30.52 | 16.61 | 1.10 | 3.48 | 0.51 | 0.23 | 0.04 | 19.76 | 41.73 |
| | S30TS009 | 13.11 | 2.48 | 18.92 | 12.30 | 0.00 | 0.00 | 15.57 | 62.38 | 21.85 | 2.55 | 22.70 | 16.49 | 0.00 | 0.00 | 32.44 | 96.03 |
| | S30TS010 | 19.14 | 3.63 | 25.22 | 16.39 | 0.00 | 0.00 | 22.74 | 87.12 | 31.90 | 3.72 | 30.26 | 21.98 | 0.00 | 0.00 | 47.36 | 135.22 |
| | S30TS011 | 29.01 | 5.50 | 50.44 | 32.78 | 0.00 | 0.00 | 34.46 | 152.19 | 48.35 | 5.64 | 60.53 | 43.97 | 0.00 | 0.00 | 71.78 | 230.27 |
| | S35 | | | | | | | | | | | | | | | | |
| S35 | S35AR001 | 0.58 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 1.25 | | | | | | | | |
| | S35AR002 | 0.83 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.89 | 1.79 | | | | | | | | |
| | S35XX001 | 1.20 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 2.57 | | | | | | | | |
| | S35XX002 | 15.22 | 1.20 | 19.90 | 2.44 | 0.00 | 0.00 | 16.27 | 55.03 | | | | | | | | |
| | S35XX003 | 9.78 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 10.46 | 21.01 | | | | | | | | |
| | S35XX004 | 26.77 | 2.11 | 28.19 | 3.45 | 0.00 | 0.00 | 28.62 | 89.14 | | | | | | | | |
| S40 | S40BO002 | 33.26 | 3.30 | 26.19 | 3.20 | 2.23 | 0.34 | 38.60 | 107.12 | 41.57 | 3.36 | 33.90 | 4.15 | 9.25 | 1.43 | 53.90 | 147.56 |
| | S40BO003 | 31.33 | 3.11 | 26.19 | 3.20 | 2.23 | 0.34 | 36.37 | 102.77 | 39.16 | 3.17 | 33.90 | 4.15 | 9.25 | 1.43 | 50.78 | 141.84 |
| | S40BO004 | 31.89 | 3.16 | 26.19 | 3.20 | 2.23 | 0.34 | 37.02 | 104.03 | 39.86 | 3.23 | 33.90 | 4.15 | 9.25 | 1.43 | 51.68 | 143.50 |
| | S40CA003 | 30.51 | 3.09 | 25.47 | 3.12 | 3.42 | 0.53 | 35.57 | 101.71 | 38.14 | 3.15 | 32.96 | 4.03 | 13.73 | 2.12 | 49.66 | 143.79 |
| | S40CA004 | 49.54 | 4.98 | 39.29 | 4.81 | 5.60 | 0.87 | 57.66 | 162.75 | 61.92 | 5.08 | 50.85 | 6.22 | 21.56 | 3.33 | 80.50 | 229.46 |
| S45 | S45DA004 | 2.27 | 0.14 | 0.00 | 0.25 | 0.00 | 0.00 | 3.03 | 5.69 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|-------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| S45 | cont. | | | | | | | | | | | | | | | | |
| | S45DA005 | 2.46 | 0.15 | 0.00 | 0.25 | 0.00 | 0.00 | 3.29 | 6.15 | | | | | | | | |
| | S45DA007 | 2.73 | 0.17 | 0.00 | 0.25 | 0.00 | 0.00 | 3.65 | 6.80 | | | | | | | | |
| T10 | | | | | | | | | | | | | | | | | |
| | T10CA001 | 0.77 | 0.07 | 0.00 | 0.08 | 0.00 | 0.00 | 0.82 | 1.74 | 0.96 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 1.15 | 2.27 |
| | T10CA002 | 1.60 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 1.69 | 3.52 | 2.00 | 0.16 | 0.00 | 0.08 | 0.00 | 0.00 | 2.38 | 4.62 |
| | T10CA004 | 0.82 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 0.87 | 1.85 | 1.03 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 1.22 | 2.41 |
| | T10CA005 | 1.60 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 1.69 | 3.52 | 2.00 | 0.16 | 0.00 | 0.08 | 0.00 | 0.00 | 2.38 | 4.62 |
| | T10CA007 | 0.85 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 0.90 | 1.91 | 1.06 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 1.26 | 2.48 |
| | T10CA008 | 2.43 | 0.24 | 0.00 | 0.08 | 0.00 | 0.00 | 2.57 | 5.32 | 3.04 | 0.24 | 0.00 | 0.08 | 0.00 | 0.00 | 3.61 | 6.97 |
| | T10CA009 | 2.48 | 0.24 | 0.00 | 0.08 | 0.00 | 0.00 | 2.62 | 5.42 | 3.10 | 0.24 | 0.00 | 0.08 | 0.00 | 0.00 | 3.68 | 7.10 |
| | T10CA010 | 3.48 | 0.34 | 0.00 | 0.08 | 0.00 | 0.00 | 3.67 | 7.57 | 4.35 | 0.34 | 0.00 | 0.08 | 0.00 | 0.00 | 5.16 | 9.93 |
| | T10CA011 | 4.09 | 0.40 | 0.00 | 0.08 | 0.00 | 0.00 | 4.33 | 8.90 | 5.12 | 0.40 | 0.00 | 0.08 | 0.00 | 0.00 | 6.08 | 11.68 |
| | T10CA012 | 4.71 | 0.46 | 0.00 | 0.08 | 0.00 | 0.00 | 4.97 | 10.22 | 5.88 | 0.46 | 0.00 | 0.08 | 0.00 | 0.00 | 6.99 | 13.41 |
| | T10CA013 | 4.73 | 0.46 | 0.00 | 0.08 | 0.00 | 0.00 | 5.00 | 10.27 | 5.91 | 0.47 | 0.00 | 0.08 | 0.00 | 0.00 | 7.02 | 13.48 |
| | T10CA014 | 3.94 | 0.38 | 0.00 | 0.08 | 0.00 | 0.00 | 4.16 | 8.56 | 4.92 | 0.39 | 0.00 | 0.08 | 0.00 | 0.00 | 5.85 | 11.24 |
| | T10CA015 | 4.62 | 0.45 | 0.00 | 0.10 | 0.00 | 0.00 | 4.88 | 10.05 | 5.77 | 0.46 | 0.00 | 0.10 | 0.00 | 0.00 | 6.85 | 13.18 |
| | T10CA016 | 5.02 | 0.49 | 0.00 | 0.12 | 0.00 | 0.00 | 5.30 | 10.93 | 6.27 | 0.50 | 0.00 | 0.12 | 0.00 | 0.00 | 7.45 | 14.34 |
| | T10CA017 | 5.47 | 0.53 | 0.00 | 0.13 | 0.00 | 0.00 | 5.77 | 11.90 | 6.83 | 0.54 | 0.00 | 0.13 | 0.00 | 0.00 | 8.11 | 15.61 |
| | T10CA018 | 5.94 | 0.57 | 0.00 | 0.13 | 0.00 | 0.00 | 6.27 | 12.91 | 7.42 | 0.59 | 0.00 | 0.13 | 0.00 | 0.00 | 8.82 | 16.96 |
| | T10CA019 | 5.08 | 0.49 | 0.00 | 0.05 | 0.00 | 0.00 | 5.37 | 10.99 | 6.35 | 0.50 | 0.00 | 0.05 | 0.00 | 0.00 | 7.54 | 14.44 |
| | T10CA020 | 6.12 | 0.59 | 0.00 | 0.15 | 0.00 | 0.00 | 6.46 | 13.32 | 7.65 | 0.60 | 0.00 | 0.15 | 0.00 | 0.00 | 9.08 | 17.48 |
| | T10CA021 | 8.80 | 0.85 | 0.00 | 0.19 | 0.00 | 0.00 | 9.29 | 19.13 | 11.00 | 0.87 | 0.00 | 0.19 | 0.00 | 0.00 | 13.06 | 25.12 |
| | T10CA022 | 9.10 | 0.88 | 0.00 | 0.19 | 0.00 | 0.00 | 9.61 | 19.78 | 11.37 | 0.90 | 0.00 | 0.19 | 0.00 | 0.00 | 13.50 | 25.96 |
| | T10CA023 | 8.66 | 0.84 | 0.00 | 0.20 | 0.00 | 0.00 | 9.14 | 18.84 | 10.82 | 0.85 | 0.00 | 0.20 | 0.00 | 0.00 | 12.85 | 24.72 |
| | T10CA024 | 5.42 | 0.52 | 0.00 | 0.28 | 0.00 | 0.00 | 5.72 | 11.94 | 6.77 | 0.53 | 0.00 | 0.28 | 0.00 | 0.00 | 8.04 | 15.62 |
| | T10CA025 | 6.54 | 0.63 | 0.00 | 0.29 | 0.00 | 0.00 | 6.90 | 14.36 | 8.17 | 0.64 | 0.00 | 0.29 | 0.00 | 0.00 | 9.70 | 18.80 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T10 | cont. | 10.23 | 0.99 | 0.00 | 0.40 | 0.00 | 0.00 | 10.80 | 22.42 | 12.78 | 1.01 | 0.00 | 0.40 | 0.00 | 0.00 | 15.18 | 29.37 |
| | T10CA026 | 13.52 | 1.31 | 0.00 | 0.42 | 0.00 | 0.00 | 14.28 | 29.53 | 16.90 | 1.33 | 0.00 | 0.42 | 0.00 | 0.00 | 20.07 | 38.72 |
| | T10JD001 | 1.06 | 0.11 | 0.00 | 0.25 | 0.10 | 0.02 | 1.14 | 2.68 | 1.33 | 0.11 | 0.00 | 0.25 | 0.11 | 0.02 | 1.60 | 3.42 |
| T15 | T15CA002 | 8.48 | 1.00 | 5.09 | 0.80 | 0.00 | 0.00 | 14.07 | 29.44 | 10.60 | 1.02 | 6.59 | 1.04 | 0.00 | 0.00 | 19.99 | 39.24 |
| | T15CA005 | 10.09 | 1.19 | 5.82 | 0.92 | 0.00 | 0.00 | 16.73 | 34.75 | 12.61 | 1.21 | 7.53 | 1.19 | 0.00 | 0.00 | 23.78 | 46.32 |
| | T15CA008 | 20.29 | 2.39 | 10.55 | 1.66 | 0.00 | 0.00 | 33.65 | 68.54 | 25.36 | 2.43 | 13.65 | 2.15 | 0.00 | 0.00 | 47.82 | 91.41 |
| | T15CA009 | 30.73 | 3.63 | 12.01 | 1.89 | 0.00 | 0.00 | 50.96 | 99.22 | 38.41 | 3.68 | 15.54 | 2.45 | 0.00 | 0.00 | 72.43 | 132.51 |
| | T15CA011 | 30.04 | 3.55 | 13.46 | 2.12 | 0.00 | 0.00 | 49.82 | 98.99 | 37.55 | 3.60 | 17.42 | 2.75 | 0.00 | 0.00 | 70.80 | 132.12 |
| | T15CA012 | 24.18 | 3.18 | 17.46 | 2.14 | 0.00 | 0.00 | 40.85 | 87.81 | 28.79 | 3.21 | 22.60 | 2.77 | 0.00 | 0.00 | 50.67 | 108.04 |
| | T15CA014 | 27.36 | 3.60 | 17.46 | 2.14 | 0.00 | 0.00 | 46.23 | 96.79 | 32.58 | 3.64 | 22.60 | 2.77 | 0.00 | 0.00 | 57.33 | 118.92 |
| | T15CA016 | 41.21 | 5.42 | 22.56 | 2.77 | 0.00 | 0.00 | 69.62 | 141.58 | 49.06 | 5.48 | 29.19 | 3.58 | 0.00 | 0.00 | 86.34 | 173.65 |
| | T15CA017 | 47.86 | 6.30 | 29.83 | 3.66 | 0.00 | 0.00 | 80.84 | 168.49 | 56.97 | 6.36 | 38.61 | 4.73 | 0.00 | 0.00 | 100.27 | 206.94 |
| | T15CA018 | 70.70 | 10.01 | 35.99 | 2.45 | 0.00 | 0.00 | 111.98 | 231.13 | 84.85 | 10.10 | 45.92 | 3.12 | 0.00 | 0.00 | 151.13 | 295.12 |
| | T15CA019 | 114.82 | 16.25 | 52.75 | 3.59 | 0.00 | 0.00 | 181.84 | 369.25 | 137.78 | 16.40 | 67.30 | 4.58 | 0.00 | 0.00 | 245.42 | 471.48 |
| | T15CA020 | 9.56 | 1.13 | 5.82 | 0.92 | 0.00 | 0.00 | 15.86 | 33.29 | 11.95 | 1.15 | 7.53 | 1.19 | 0.00 | 0.00 | 22.54 | 44.36 |
| | T15CA021 | 10.21 | 1.21 | 6.55 | 1.03 | 0.00 | 0.00 | 16.94 | 35.94 | 12.76 | 1.22 | 8.47 | 1.33 | 0.00 | 0.00 | 24.07 | 47.85 |
| | T15CA022 | 10.74 | 1.27 | 6.55 | 1.03 | 0.00 | 0.00 | 17.82 | 37.41 | 13.43 | 1.29 | 8.47 | 1.33 | 0.00 | 0.00 | 25.32 | 49.84 |
| | T15CA023 | 27.64 | 3.26 | 12.01 | 1.89 | 0.00 | 0.00 | 45.84 | 90.64 | 34.55 | 3.31 | 15.54 | 2.45 | 0.00 | 0.00 | 65.14 | 120.99 |
| | T15CA024 | 10.36 | 1.22 | 8.00 | 1.26 | 0.00 | 0.00 | 17.19 | 38.03 | 12.95 | 1.24 | 10.36 | 1.63 | 0.00 | 0.00 | 24.43 | 50.61 |
| | T15CS008 | 18.50 | 2.18 | 10.04 | 1.58 | 0.00 | 0.00 | 30.69 | 62.99 | 23.13 | 2.22 | 12.99 | 2.05 | 0.00 | 0.00 | 43.61 | 84.00 |
| | T15JD005 | 7.46 | 0.88 | 5.09 | 0.80 | 0.00 | 0.00 | 12.38 | 26.61 | 9.33 | 0.89 | 6.59 | 1.04 | 0.00 | 0.00 | 17.59 | 35.44 |
| | T15JD006 | 7.62 | 0.90 | 5.09 | 0.80 | 0.00 | 0.00 | 12.64 | 27.05 | 9.53 | 0.91 | 6.59 | 1.04 | 0.00 | 0.00 | 17.96 | 36.03 |
| | T15JD007 | 11.65 | 1.37 | 7.35 | 1.16 | 0.00 | 0.00 | 19.32 | 40.85 | 14.56 | 1.40 | 9.51 | 1.50 | 0.00 | 0.00 | 27.45 | 54.42 |
| | T15JD008 | 18.81 | 2.22 | 11.28 | 1.78 | 0.00 | 0.00 | 31.20 | 65.29 | 23.51 | 2.26 | 14.59 | 2.30 | 0.00 | 0.00 | 44.34 | 87.00 |
| | T15JD009 | 19.59 | 2.31 | 12.01 | 1.89 | 0.00 | 0.00 | 32.50 | 68.30 | 24.49 | 2.35 | 15.54 | 2.45 | 0.00 | 0.00 | 46.19 | 91.02 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T15 | cont. | | | | | | | | | | | | | | | | |
| | T15JD010 | 26.55 | 3.13 | 13.61 | 2.14 | 0.00 | 0.00 | 44.03 | 89.46 | 33.19 | 3.18 | 17.61 | 2.78 | 0.00 | 0.00 | 62.58 | 119.34 |
| | T15JD011 | 28.32 | 3.34 | 14.92 | 2.35 | 0.00 | 0.00 | 46.97 | 95.90 | 35.40 | 3.40 | 19.30 | 3.04 | 0.00 | 0.00 | 66.76 | 127.90 |
| T20 | | | | | | | | | | | | | | | | | |
| | T20CA001 | 32.18 | 4.01 | 14.89 | 1.83 | 6.61 | 1.02 | 24.94 | 85.48 | 34.65 | 4.03 | 19.00 | 2.33 | 27.76 | 4.29 | 29.11 | 121.17 |
| | T20CA002 | 47.09 | 5.98 | 21.04 | 2.58 | 14.58 | 2.25 | 36.59 | 130.11 | 50.72 | 6.01 | 26.84 | 3.29 | 61.22 | 9.46 | 42.72 | 200.26 |
| T25 | | | | | | | | | | | | | | | | | |
| | T25JD001 | 27.34 | 2.41 | 21.23 | 2.60 | 0.00 | 0.00 | 29.85 | 83.43 | | | | | | | | |
| | T25JD002 | 28.70 | 2.53 | 22.89 | 2.81 | 0.00 | 0.00 | 31.33 | 88.26 | | | | | | | | |
| | T25JD003 | 30.05 | 2.65 | 24.55 | 3.01 | 0.00 | 0.00 | 32.81 | 93.07 | | | | | | | | |
| | T25JD021 | 8.96 | 0.77 | 7.63 | 0.94 | 2.88 | 0.44 | 8.29 | 29.91 | | | | | | | | |
| | T25JD022 | 13.24 | 1.11 | 11.28 | 1.38 | 3.29 | 0.51 | 12.18 | 42.99 | | | | | | | | |
| | T25JD023 | 19.81 | 1.56 | 15.59 | 1.91 | 3.25 | 0.50 | 18.07 | 60.69 | | | | | | | | |
| | T25JD024 | 23.20 | 1.81 | 18.91 | 2.32 | 3.25 | 0.50 | 21.11 | 71.10 | | | | | | | | |
| | T25JD025 | 23.75 | 2.04 | 23.88 | 2.93 | 7.94 | 1.23 | 21.96 | 83.73 | | | | | | | | |
| | T25JD026 | 29.36 | 2.44 | 30.52 | 3.74 | 7.94 | 1.23 | 27.01 | 102.24 | | | | | | | | |
| | T25JD027 | 1.49 | 0.13 | 2.99 | 0.37 | 0.44 | 0.07 | 1.37 | 6.86 | | | | | | | | |
| | T25JD028 | 1.63 | 0.14 | 3.65 | 0.45 | 0.44 | 0.07 | 1.50 | 7.88 | | | | | | | | |
| | T25JD029 | 2.31 | 0.18 | 3.65 | 0.45 | 0.44 | 0.07 | 2.11 | 9.21 | | | | | | | | |
| | T25JD030 | 3.59 | 0.28 | 4.31 | 0.53 | 0.44 | 0.07 | 3.26 | 12.48 | | | | | | | | |
| | T25JD031 | 3.66 | 0.29 | 5.51 | 0.68 | 0.53 | 0.08 | 3.33 | 14.08 | | | | | | | | |
| | T25JD032 | 3.74 | 0.34 | 6.70 | 0.82 | 1.78 | 0.28 | 3.50 | 17.16 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|-------|-------|------|-----------|-------------|--------|-----------------------------|--------|-------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T30 | | | | | | | | | | | | | | | | | |
| | T30DW005 | 3.92 | 0.33 | 3.48 | 0.43 | 0.32 | 0.05 | 4.87 | 13.40 | 5.23 | 0.34 | 4.60 | 0.56 | 1.18 | 0.18 | 7.22 | 19.31 |
| | T30DW010 | 10.35 | 0.95 | 6.57 | 0.80 | 2.69 | 0.42 | 13.14 | 34.92 | 13.80 | 0.98 | 8.69 | 1.07 | 10.02 | 1.55 | 19.47 | 55.58 |
| | T30DW011 | 57.20 | 4.51 | 14.59 | 1.79 | 0.00 | 0.00 | 70.28 | 148.37 | 76.26 | 4.66 | 19.30 | 2.37 | 0.00 | 0.00 | 104.10 | 206.69 |
| | T30DW012 | 1.00 | 0.08 | 2.06 | 0.25 | 0.06 | 0.01 | 1.23 | 4.69 | 1.33 | 0.08 | 2.69 | 0.33 | 0.22 | 0.03 | 1.83 | 6.51 |
| | T30DW013 | 1.35 | 0.11 | 2.83 | 0.35 | 0.00 | 0.00 | 1.66 | 6.30 | 1.80 | 0.11 | 3.69 | 0.45 | 0.00 | 0.00 | 2.46 | 8.51 |
| | T30DW014 | 12.08 | 1.09 | 6.77 | 0.83 | 2.69 | 0.42 | 15.27 | 39.15 | 16.11 | 1.13 | 8.95 | 1.10 | 10.02 | 1.55 | 22.62 | 61.48 |
| | T30DW015 | 4.18 | 0.35 | 3.48 | 0.43 | 0.32 | 0.05 | 5.18 | 13.99 | 5.57 | 0.36 | 4.60 | 0.56 | 1.18 | 0.18 | 7.68 | 20.13 |
| | T30DW016 | 5.72 | 0.59 | 3.98 | 0.49 | 2.69 | 0.42 | 7.45 | 21.34 | 7.63 | 0.61 | 5.26 | 0.64 | 10.02 | 1.55 | 11.04 | 36.75 |
| | T30DW017 | 7.17 | 0.70 | 5.17 | 0.63 | 2.69 | 0.42 | 9.23 | 26.01 | 9.55 | 0.72 | 6.84 | 0.84 | 10.02 | 1.55 | 13.67 | 43.19 |
| | T30DW018 | 10.21 | 0.94 | 6.57 | 0.80 | 2.69 | 0.42 | 12.97 | 34.60 | 13.61 | 0.97 | 8.69 | 1.07 | 10.02 | 1.55 | 19.21 | 55.12 |
| | T30DW019 | 1.09 | 0.09 | 1.54 | 0.19 | 0.05 | 0.01 | 1.35 | 4.32 | 1.46 | 0.09 | 2.01 | 0.25 | 0.18 | 0.03 | 2.00 | 6.02 |
| | T30DW020 | 1.06 | 0.09 | 2.06 | 0.25 | 0.05 | 0.01 | 1.31 | 4.83 | 1.41 | 0.09 | 2.69 | 0.33 | 0.18 | 0.03 | 1.94 | 6.67 |
| | T30DW021 | 1.22 | 0.10 | 2.06 | 0.25 | 0.00 | 0.00 | 1.49 | 5.12 | 1.62 | 0.10 | 2.69 | 0.33 | 0.00 | 0.00 | 2.21 | 6.95 |
| | T30DW022 | 1.60 | 0.13 | 3.99 | 0.49 | 0.00 | 0.00 | 1.97 | 8.18 | 2.14 | 0.13 | 5.20 | 0.64 | 0.00 | 0.00 | 2.92 | 11.03 |
| | T30DW023 | 11.33 | 1.03 | 6.63 | 0.81 | 2.69 | 0.42 | 14.35 | 37.26 | 15.11 | 1.06 | 8.77 | 1.07 | 10.02 | 1.55 | 21.26 | 58.84 |
| | T30DW024 | 2.81 | 0.23 | 1.65 | 0.20 | 0.09 | 0.01 | 3.46 | 8.45 | 3.74 | 0.23 | 2.18 | 0.27 | 0.32 | 0.05 | 5.13 | 11.92 |
| | T30DW025 | 5.16 | 0.41 | 3.24 | 0.40 | 0.10 | 0.02 | 6.36 | 15.69 | 6.88 | 0.43 | 4.28 | 0.52 | 0.38 | 0.06 | 9.42 | 21.97 |
| | T30DW026 | 9.98 | 0.82 | 4.91 | 0.60 | 0.60 | 0.09 | 12.36 | 29.36 | 13.31 | 0.84 | 6.49 | 0.80 | 2.25 | 0.35 | 18.31 | 42.35 |
| | T30TM007 | 53.03 | 4.19 | 14.59 | 1.79 | 0.00 | 0.00 | 65.16 | 138.76 | 70.71 | 4.32 | 19.30 | 2.37 | 0.00 | 0.00 | 96.52 | 193.22 |
| | T30TM008 | 53.38 | 4.21 | 14.59 | 1.79 | 0.00 | 0.00 | 65.59 | 139.56 | 71.17 | 4.35 | 19.30 | 2.37 | 0.00 | 0.00 | 97.15 | 194.34 |
| | T30TM012 | 91.02 | 7.18 | 25.54 | 3.13 | 0.00 | 0.00 | 111.85 | 238.72 | 121.37 | 7.41 | 33.78 | 4.14 | 0.00 | 0.00 | 165.66 | 332.36 |
| | T30TM013 | 149.13 | 11.77 | 34.83 | 4.26 | 0.00 | 0.00 | 183.24 | 383.23 | 198.84 | 12.14 | 46.06 | 5.65 | 0.00 | 0.00 | 271.41 | 534.10 |
| | T30TM014 | 142.76 | 11.27 | 34.83 | 4.26 | 0.00 | 0.00 | 175.42 | 368.54 | 190.35 | 11.63 | 46.06 | 5.65 | 0.00 | 0.00 | 259.83 | 513.52 |
| | T30TM015 | 152.26 | 12.02 | 34.83 | 4.26 | 0.00 | 0.00 | 187.08 | 390.45 | 203.01 | 12.40 | 46.06 | 5.65 | 0.00 | 0.00 | 277.10 | 544.22 |
| | T30VE007 | 21.03 | 1.66 | 8.29 | 1.01 | 0.00 | 0.00 | 25.84 | 57.83 | 28.03 | 1.71 | 10.97 | 1.34 | 0.00 | 0.00 | 38.27 | 80.32 |
| | T30VE008 | 26.72 | 2.11 | 12.27 | 1.50 | 0.00 | 0.00 | 32.83 | 75.43 | 35.62 | 2.18 | 16.23 | 1.99 | 0.00 | 0.00 | 48.62 | 104.64 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T30 | cont. | | | | | | | | | | | | | | | | |
| | T30VE009 | 43.16 | 3.41 | 16.59 | 2.03 | 0.00 | 0.00 | 53.03 | 118.22 | 57.54 | 3.51 | 21.94 | 2.69 | 0.00 | 0.00 | 78.55 | 164.23 |
| | T30VE010 | 52.86 | 4.17 | 18.24 | 2.23 | 0.00 | 0.00 | 64.96 | 142.46 | 70.48 | 4.30 | 24.13 | 2.96 | 0.00 | 0.00 | 96.21 | 198.08 |
| T35 | | | | | | | | | | | | | | | | | |
| | T35CT001 | 27.92 | 2.20 | 9.29 | 1.14 | 0.00 | 0.00 | 34.30 | 74.85 | 37.22 | 2.27 | 12.28 | 1.50 | 0.00 | 0.00 | 50.81 | 104.08 |
| | T35CT002 | 34.38 | 2.71 | 9.29 | 1.14 | 0.00 | 0.00 | 42.24 | 89.76 | 45.84 | 2.80 | 12.28 | 1.50 | 0.00 | 0.00 | 62.57 | 124.99 |
| | T35PZ001 | 37.65 | 3.17 | 23.22 | 2.84 | 3.36 | 0.52 | 46.86 | 117.62 | 50.20 | 3.27 | 30.71 | 3.76 | 12.00 | 1.85 | 69.41 | 171.20 |
| | T35PZ002 | 41.82 | 3.50 | 28.19 | 3.45 | 3.36 | 0.52 | 51.99 | 132.83 | 55.76 | 3.61 | 37.29 | 4.56 | 12.00 | 1.85 | 77.01 | 192.08 |
| | T35PZ003 | 43.67 | 3.64 | 28.19 | 3.45 | 3.36 | 0.52 | 54.26 | 137.09 | 58.22 | 3.76 | 37.29 | 4.56 | 12.00 | 1.85 | 80.37 | 198.05 |
| | T35PZ004 | 63.72 | 5.03 | 28.19 | 3.45 | 0.00 | 0.00 | 78.29 | 178.68 | 84.96 | 5.19 | 37.29 | 4.56 | 0.00 | 0.00 | 115.97 | 247.97 |
| T40 | | | | | | | | | | | | | | | | | |
| | T40AG001 | 9.89 | 0.79 | 5.31 | 0.74 | 0.17 | 0.03 | 9.27 | 26.20 | | | | | | | | |
| | T40FA001 | 3.26 | 0.26 | 0.00 | 0.25 | 0.00 | 0.00 | 3.49 | 7.26 | | | | | | | | |
| | T40FA002 | 4.16 | 0.33 | 0.00 | 0.25 | 0.00 | 0.00 | 4.44 | 9.18 | | | | | | | | |
| | T40FA003 | 5.72 | 0.45 | 0.00 | 0.25 | 0.00 | 0.00 | 6.11 | 12.53 | | | | | | | | |
| | T40KF011 | 0.58 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 1.09 | | | | | | | | |
| | T40KF013 | 0.61 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 1.15 | | | | | | | | |
| | T40KF014 | 0.69 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 1.29 | | | | | | | | |
| | T40KF016 | 0.86 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 1.62 | | | | | | | | |
| | T40KF018 | 1.04 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 1.95 | | | | | | | | |
| | T40KF020 | 1.22 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 2.30 | | | | | | | | |
| | T40KF021 | 0.40 | 0.03 | 0.00 | 0.10 | 0.00 | 0.00 | 0.38 | 0.91 | | | | | | | | |
| | T40KF022 | 0.84 | 0.07 | 0.00 | 0.10 | 0.00 | 0.00 | 0.79 | 1.80 | | | | | | | | |
| | T40KF023 | 0.36 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.33 | 0.77 | | | | | | | | |
| | T40KF024 | 0.36 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.34 | 0.78 | | | | | | | | |
| | T40OX001 | 1.07 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.89 | 2.03 | 1.32 | 0.07 | 0.00 | 0.00 | 0.00 | 1.25 | 2.64 | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T40 | cont. | | | | | | | | | | | | | | | | |
| | T400X002 | 1.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 1.94 | 1.25 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.19 | 2.51 |
| | T400X003 | 1.95 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 3.70 | 2.41 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 2.29 | 4.83 |
| | T400X006 | 2.24 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.87 | 4.26 | 2.76 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 5.53 |
| | T40PA001 | 0.85 | 0.07 | 0.00 | 0.24 | 0.00 | 0.00 | 0.91 | 2.07 | | | | | | | | |
| | T40PA002 | 5.37 | 0.42 | 0.00 | 0.24 | 0.00 | 0.00 | 5.74 | 11.77 | | | | | | | | |
| | T40PA004 | 7.90 | 0.62 | 0.00 | 0.26 | 0.00 | 0.00 | 8.44 | 17.22 | | | | | | | | |
| | T40PA005 | 12.52 | 0.99 | 0.00 | 0.27 | 0.00 | 0.00 | 13.38 | 27.16 | | | | | | | | |
| | T40PA006 | 15.67 | 1.24 | 0.00 | 0.27 | 0.00 | 0.00 | 16.75 | 33.93 | | | | | | | | |
| | T40PA007 | 6.72 | 0.53 | 0.00 | 0.26 | 0.00 | 0.00 | 7.18 | 14.69 | | | | | | | | |
| | T40RS001 | 3.20 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 2.73 | 6.21 | | | | | | | | |
| | T40RS002 | 3.11 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 2.66 | 6.04 | | | | | | | | |
| | T40RS003 | 4.06 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 3.47 | 7.88 | | | | | | | | |
| | T40XX034 | 18.45 | 1.33 | 19.45 | 2.72 | 0.00 | 0.00 | 16.24 | 58.19 | | | | | | | | |
| | T40XX035 | 16.86 | 1.29 | 31.45 | 4.39 | 1.93 | 0.30 | 14.98 | 71.20 | | | | | | | | |
| | T40XX036 | 17.86 | 1.36 | 23.59 | 3.29 | 1.93 | 0.30 | 15.86 | 64.19 | | | | | | | | |
| | T40XX037 | 15.89 | 1.22 | 33.94 | 4.74 | 1.93 | 0.30 | 14.12 | 72.14 | | | | | | | | |
| | T40XX038 | 20.61 | 1.55 | 38.90 | 5.43 | 1.64 | 0.25 | 18.25 | 86.63 | | | | | | | | |
| T45 | | | | | | | | | | | | | | | | | |
| | T45C6001 | 3.22 | 0.25 | 0.00 | 0.40 | 0.92 | 0.14 | 2.33 | 7.26 | | | | | | | | |
| | T45C6002 | 3.65 | 0.30 | 0.00 | 0.40 | 1.47 | 0.23 | 2.66 | 8.71 | | | | | | | | |
| | T45C6003 | 4.12 | 0.37 | 0.00 | 0.40 | 0.98 | 0.15 | 3.22 | 9.24 | 5.15 | 0.38 | 0.00 | 0.40 | 3.57 | 0.55 | 4.64 | 14.69 |
| | T45C6004 | 4.56 | 0.42 | 0.00 | 0.40 | 1.47 | 0.23 | 3.57 | 10.65 | 5.70 | 0.43 | 0.00 | 0.40 | 5.36 | 0.83 | 5.15 | 17.87 |
| | T45EA006 | 3.97 | 0.36 | 0.00 | 0.50 | 1.01 | 0.16 | 2.39 | 8.39 | | | | | | | | |
| | T45EA007 | 5.81 | 0.52 | 0.00 | 0.50 | 1.52 | 0.23 | 3.49 | 12.07 | | | | | | | | |
| | T45G1001 | 5.50 | 0.59 | 6.21 | 0.65 | 0.12 | 0.02 | 5.50 | 18.59 | | | | | | | | |
| | T45G1002 | 4.97 | 0.54 | 6.21 | 0.65 | 0.12 | 0.02 | 4.98 | 17.49 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T45 | cont. | | | | | | | | | | | | | | | | |
| | T45MY004 | 2.87 | 0.27 | 0.00 | 0.30 | 0.98 | 0.15 | 2.42 | 6.99 | 3.59 | 0.27 | 0.00 | 0.30 | 3.57 | 0.55 | 3.46 | 11.74 |
| | T45MY005 | 3.81 | 0.36 | 0.00 | 0.30 | 1.47 | 0.23 | 3.22 | 9.39 | 4.76 | 0.37 | 0.00 | 0.30 | 5.36 | 0.83 | 4.60 | 16.22 |
| | T45MY006 | 3.93 | 0.37 | 0.00 | 0.30 | 1.47 | 0.23 | 3.32 | 9.62 | 4.91 | 0.38 | 0.00 | 0.30 | 5.36 | 0.83 | 4.74 | 16.52 |
| | T45MY007 | 3.79 | 0.36 | 0.00 | 0.30 | 1.47 | 0.23 | 3.20 | 9.35 | 4.73 | 0.37 | 0.00 | 0.30 | 5.36 | 0.83 | 4.58 | 16.17 |
| | T45MY015 | 3.10 | 0.29 | 0.00 | 0.40 | 0.98 | 0.15 | 2.43 | 7.35 | 3.87 | 0.29 | 0.00 | 0.40 | 3.57 | 0.55 | 3.50 | 12.18 |
| | T45MY016 | 3.17 | 0.29 | 0.00 | 0.40 | 0.98 | 0.15 | 2.48 | 7.47 | 3.96 | 0.30 | 0.00 | 0.40 | 3.57 | 0.55 | 3.58 | 12.36 |
| | T45MY017 | 3.34 | 0.32 | 0.00 | 0.40 | 1.47 | 0.23 | 2.63 | 8.39 | 4.17 | 0.33 | 0.00 | 0.40 | 5.36 | 0.83 | 3.79 | 14.88 |
| | T45MY018 | 2.42 | 0.20 | 0.00 | 0.40 | 0.98 | 0.15 | 1.77 | 5.92 | | | | | | | | |
| | T45MY019 | 2.40 | 0.19 | 0.00 | 0.40 | 0.98 | 0.15 | 1.75 | 5.87 | | | | | | | | |
| | T45TT001 | 3.42 | 0.31 | 0.00 | 0.30 | 0.92 | 0.14 | 2.88 | 7.97 | 4.27 | 0.32 | 0.00 | 0.30 | 3.37 | 0.52 | 4.11 | 12.89 |
| | T45TT002 | 3.09 | 0.28 | 0.00 | 0.30 | 0.92 | 0.14 | 2.61 | 7.34 | 3.87 | 0.29 | 0.00 | 0.30 | 3.37 | 0.52 | 3.72 | 12.07 |
| | T45TT003 | 3.51 | 0.32 | 0.00 | 0.30 | 0.92 | 0.14 | 2.95 | 8.14 | 4.39 | 0.32 | 0.00 | 0.30 | 3.37 | 0.52 | 4.22 | 13.12 |
| | T45TT004 | 3.40 | 0.32 | 0.00 | 0.30 | 1.39 | 0.21 | 2.88 | 8.50 | 4.25 | 0.33 | 0.00 | 0.30 | 5.06 | 0.78 | 4.11 | 14.83 |
| | T45XX001 | 3.75 | 0.33 | 0.00 | 0.40 | 0.92 | 0.14 | 3.15 | 8.69 | 4.68 | 0.34 | 0.00 | 0.40 | 3.37 | 0.52 | 4.50 | 13.81 |
| | T45XX003 | 4.61 | 0.40 | 0.00 | 0.40 | 0.91 | 0.14 | 3.87 | 10.33 | 5.76 | 0.41 | 0.00 | 0.40 | 3.33 | 0.51 | 5.53 | 15.94 |
| | T45XX008 | 4.15 | 0.37 | 0.00 | 0.40 | 0.92 | 0.14 | 3.24 | 9.22 | 5.18 | 0.38 | 0.00 | 0.40 | 3.37 | 0.52 | 4.67 | 14.52 |
| | T45XX009 | 3.19 | 0.24 | 0.00 | 0.40 | 0.92 | 0.14 | 2.31 | 7.20 | | | | | | | | |
| | T45XX010 | 7.60 | 0.54 | 0.00 | 0.40 | 1.00 | 0.15 | 5.45 | 15.14 | | | | | | | | |
| | T45XX011 | 1.32 | 0.13 | 0.00 | 0.40 | 0.67 | 0.10 | 0.80 | 3.42 | | | | | | | | |
| | T45XX013 | 3.06 | 0.27 | 0.00 | 0.40 | 0.66 | 0.10 | 1.84 | 6.33 | | | | | | | | |
| | T45XX015 | 6.03 | 0.54 | 0.00 | 0.50 | 1.39 | 0.21 | 3.62 | 12.29 | | | | | | | | |
| | T45XX016 | 6.65 | 0.59 | 0.00 | 0.50 | 1.62 | 0.25 | 4.00 | 13.61 | | | | | | | | |
| | T45XX017 | 13.46 | 1.12 | 0.00 | 0.50 | 1.10 | 0.17 | 8.03 | 24.38 | | | | | | | | |
| | T45XX018 | 14.77 | 1.23 | 0.00 | 0.50 | 1.10 | 0.17 | 8.81 | 26.58 | | | | | | | | |
| | T45XX019 | 26.66 | 2.25 | 0.00 | 0.50 | 2.94 | 0.45 | 15.93 | 48.73 | | | | | | | | |
| | T45XX020 | 16.93 | 1.44 | 0.00 | 0.60 | 2.21 | 0.34 | 10.13 | 31.65 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T45 | cont. | | | | | | | | | | | | | | | | |
| | T45XX023 | 35.39 | 2.98 | 0.00 | 0.60 | 3.68 | 0.57 | 21.14 | 64.36 | | | | | | | | |
| | T45XX024 | 3.39 | 0.30 | 0.00 | 0.09 | 0.76 | 0.12 | 2.04 | 6.70 | | | | | | | | |
| | T45XX025 | 1.91 | 0.18 | 0.00 | 0.10 | 0.68 | 0.11 | 1.15 | 4.13 | | | | | | | | |
| | T45XX026 | 1.20 | 0.11 | 0.00 | 0.40 | 0.27 | 0.04 | 0.72 | 2.74 | | | | | | | | |
| | T45XX027 | 0.89 | 0.10 | 0.00 | 0.40 | 0.68 | 0.11 | 0.55 | 2.73 | | | | | | | | |
| | T45XX028 | 1.70 | 0.16 | 0.00 | 0.40 | 0.68 | 0.11 | 1.03 | 4.08 | | | | | | | | |
| | T45XX029 | 4.15 | 0.49 | 0.00 | 0.00 | 0.92 | 0.14 | 3.64 | 9.34 | | | | | | | | |
| | T45XX030 | 4.33 | 0.51 | 0.00 | 0.00 | 0.92 | 0.14 | 3.79 | 9.69 | | | | | | | | |
| | T45XX031 | 4.46 | 0.52 | 0.00 | 0.00 | 0.92 | 0.14 | 3.91 | 9.95 | | | | | | | | |
| | T45XX032 | 4.57 | 0.34 | 0.00 | 0.50 | 0.98 | 0.15 | 3.29 | 9.83 | | | | | | | | |
| | T45XX033 | 5.41 | 0.41 | 0.00 | 0.60 | 1.33 | 0.21 | 3.91 | 11.87 | | | | | | | | |
| | T45XX035 | 2.33 | 0.21 | 0.00 | 0.40 | 0.71 | 0.11 | 1.41 | 5.17 | | | | | | | | |
| T50 | | | | | | | | | | | | | | | | | |
| | T50GM001 | 2.42 | 0.20 | 8.70 | 1.06 | 0.14 | 0.02 | 2.32 | 14.86 | 2.98 | 0.20 | 11.18 | 1.37 | 0.47 | 0.07 | 3.07 | 19.34 |
| | T50GM004 | 3.94 | 0.32 | 10.83 | 1.33 | 0.38 | 0.06 | 3.80 | 20.66 | 4.85 | 0.33 | 13.93 | 1.70 | 1.24 | 0.19 | 5.01 | 27.25 |
| | T50GM005 | 4.20 | 0.35 | 10.83 | 1.33 | 0.40 | 0.06 | 4.04 | 21.21 | 5.17 | 0.35 | 13.93 | 1.70 | 1.38 | 0.21 | 5.33 | 28.07 |
| | T50XX001 | 2.54 | 0.21 | 11.75 | 1.44 | 0.14 | 0.02 | 2.44 | 18.54 | 3.13 | 0.21 | 15.11 | 1.85 | 0.47 | 0.07 | 3.22 | 24.06 |
| | T50XX002 | 2.91 | 0.23 | 11.75 | 1.44 | 0.14 | 0.02 | 2.79 | 19.28 | 3.58 | 0.24 | 15.11 | 1.85 | 0.47 | 0.07 | 3.68 | 25.00 |
| | T50XX003 | 3.02 | 0.24 | 11.75 | 1.44 | 0.14 | 0.02 | 2.89 | 19.50 | 3.71 | 0.25 | 15.11 | 1.85 | 0.47 | 0.07 | 3.82 | 25.28 |
| | T50XX004 | 3.04 | 0.25 | 11.75 | 1.44 | 0.15 | 0.02 | 2.92 | 19.57 | 3.74 | 0.25 | 15.11 | 1.85 | 0.51 | 0.08 | 3.85 | 25.39 |
| | T50XX005 | 3.19 | 0.26 | 11.75 | 1.44 | 0.15 | 0.02 | 3.06 | 19.87 | 3.93 | 0.26 | 15.11 | 1.85 | 0.51 | 0.08 | 4.04 | 25.78 |
| | T50XX006 | 3.30 | 0.27 | 11.75 | 1.44 | 0.15 | 0.02 | 3.16 | 20.09 | 4.06 | 0.27 | 15.11 | 1.85 | 0.51 | 0.08 | 4.17 | 26.05 |
| | T50XX007 | 3.23 | 0.26 | 11.75 | 1.44 | 0.14 | 0.02 | 3.10 | 19.94 | 3.97 | 0.27 | 15.11 | 1.85 | 0.47 | 0.07 | 4.09 | 25.83 |
| | T50XX008 | 3.41 | 0.27 | 11.75 | 1.44 | 0.14 | 0.02 | 3.27 | 20.30 | 4.20 | 0.28 | 15.11 | 1.85 | 0.47 | 0.07 | 4.32 | 26.30 |
| | T50XX009 | 3.40 | 0.27 | 11.75 | 1.44 | 0.14 | 0.02 | 3.26 | 20.28 | 4.18 | 0.28 | 15.11 | 1.85 | 0.47 | 0.07 | 4.30 | 26.26 |
| | T50XX010 | 3.58 | 0.29 | 11.75 | 1.44 | 0.23 | 0.04 | 3.44 | 20.77 | 4.40 | 0.30 | 15.11 | 1.85 | 0.79 | 0.12 | 4.53 | 27.10 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|-------|------|-------|------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T50 | cont. | | | | | | | | | | | | | | | | |
| | T50XX011 | 3.65 | 0.29 | 11.75 | 1.44 | 0.15 | 0.02 | 3.50 | 20.80 | 4.50 | 0.30 | 15.11 | 1.85 | 0.51 | 0.08 | 4.62 | 26.97 |
| | T50XX012 | 3.73 | 0.30 | 11.75 | 1.44 | 0.15 | 0.02 | 3.57 | 20.96 | 4.59 | 0.31 | 15.11 | 1.85 | 0.51 | 0.08 | 4.72 | 27.17 |
| | T50XX014 | 3.81 | 0.31 | 8.22 | 0.86 | 0.14 | 0.02 | 3.65 | 17.01 | 4.69 | 0.31 | 11.75 | 1.23 | 0.47 | 0.07 | 4.81 | 23.33 |
| | T50XX015 | 3.89 | 0.31 | 8.22 | 0.86 | 0.21 | 0.03 | 3.73 | 17.25 | 4.79 | 0.32 | 11.75 | 1.23 | 0.71 | 0.11 | 4.93 | 23.84 |
| | T50XX017 | 4.10 | 0.33 | 8.22 | 0.86 | 0.15 | 0.02 | 3.92 | 17.60 | 5.04 | 0.34 | 11.75 | 1.23 | 0.51 | 0.08 | 5.18 | 24.13 |
| | T50XX018 | 4.19 | 0.34 | 8.22 | 0.86 | 0.15 | 0.02 | 4.02 | 17.80 | 5.16 | 0.34 | 11.75 | 1.23 | 0.51 | 0.08 | 5.30 | 24.37 |
| | T50XX019 | 3.98 | 0.32 | 8.22 | 0.86 | 0.21 | 0.03 | 3.82 | 17.44 | 4.90 | 0.33 | 11.75 | 1.23 | 0.71 | 0.11 | 5.04 | 24.07 |
| | T50XX020 | 4.42 | 0.35 | 8.22 | 0.86 | 0.15 | 0.02 | 4.23 | 18.25 | 5.44 | 0.36 | 11.75 | 1.23 | 0.51 | 0.08 | 5.58 | 24.95 |
| | T50XX021 | 4.20 | 0.34 | 8.22 | 0.86 | 0.14 | 0.02 | 4.03 | 17.81 | 5.17 | 0.34 | 11.75 | 1.23 | 0.47 | 0.07 | 5.31 | 24.34 |
| | T50XX022 | 5.31 | 0.54 | 12.26 | 1.39 | 0.74 | 0.11 | 4.77 | 25.12 | 6.63 | 0.56 | 15.86 | 1.80 | 2.95 | 0.46 | 6.41 | 34.67 |
| | T50XX023 | 2.76 | 0.29 | 25.25 | 3.31 | 0.44 | 0.07 | 2.49 | 34.61 | 3.45 | 0.29 | 32.36 | 4.24 | 1.72 | 0.27 | 3.34 | 45.67 |
| | T50XX024 | 4.59 | 0.46 | 22.32 | 2.92 | 0.49 | 0.08 | 4.11 | 34.97 | 5.73 | 0.47 | 28.60 | 3.75 | 1.93 | 0.30 | 5.52 | 46.30 |
| | T50XX025 | 6.58 | 0.66 | 7.72 | 0.88 | 0.49 | 0.08 | 5.88 | 22.29 | 8.22 | 0.67 | 9.99 | 1.14 | 2.01 | 0.31 | 7.90 | 30.24 |
| | T50XX026 | 5.23 | 0.54 | 12.26 | 1.39 | 0.74 | 0.11 | 4.70 | 24.97 | 6.54 | 0.55 | 15.86 | 1.80 | 2.95 | 0.46 | 6.32 | 34.48 |
| | T50XX027 | 5.98 | 0.72 | 16.98 | 2.08 | 0.70 | 0.11 | 5.35 | 31.92 | 7.18 | 0.73 | 21.93 | 2.68 | 2.67 | 0.41 | 7.41 | 43.01 |
| | T50XX028 | 6.56 | 0.80 | 14.74 | 1.80 | 1.17 | 0.18 | 5.90 | 31.15 | 7.87 | 0.81 | 19.04 | 2.33 | 4.55 | 0.70 | 8.17 | 43.47 |
| | T50XX029 | 7.20 | 0.88 | 19.86 | 2.43 | 1.17 | 0.18 | 6.47 | 38.19 | 8.64 | 0.89 | 25.66 | 3.14 | 4.55 | 0.70 | 8.96 | 52.54 |
| | T50XX030 | 10.12 | 1.21 | 22.43 | 2.74 | 1.17 | 0.18 | 9.06 | 46.91 | 12.14 | 1.23 | 28.97 | 3.54 | 4.55 | 0.70 | 12.54 | 63.67 |
| | T50XX031 | 8.13 | 0.98 | 25.63 | 3.14 | 1.17 | 0.18 | 7.30 | 46.53 | 9.76 | 1.00 | 33.11 | 4.05 | 4.55 | 0.70 | 10.10 | 63.27 |
| | T50XX032 | 5.39 | 0.65 | 16.98 | 2.08 | 0.70 | 0.11 | 4.83 | 30.74 | 6.47 | 0.66 | 21.93 | 2.68 | 2.67 | 0.41 | 6.69 | 41.51 |
| | T50XX033 | 10.20 | 1.22 | 25.63 | 3.14 | 1.17 | 0.18 | 9.13 | 50.67 | 12.24 | 1.24 | 33.11 | 4.05 | 4.55 | 0.70 | 12.64 | 68.53 |
| | T50XX035 | 8.30 | 0.83 | 12.26 | 1.39 | 0.74 | 0.11 | 7.42 | 31.05 | 10.38 | 0.85 | 15.86 | 1.80 | 2.95 | 0.46 | 9.99 | 42.29 |
| T55 | | | | | | | | | | | | | | | | | |
| | T55CA001 | 26.68 | 3.14 | 16.44 | 1.35 | 6.68 | 1.03 | 27.29 | 82.61 | 28.32 | 3.16 | 19.86 | 1.64 | 27.09 | 4.19 | 30.77 | 115.03 |
| | T55CA002 | 36.42 | 6.60 | 23.65 | 3.51 | 11.25 | 1.74 | 42.07 | 125.24 | 40.47 | 6.63 | 30.60 | 4.54 | 44.23 | 6.83 | 49.29 | 182.59 |
| | T55CA003 | 52.10 | 9.65 | 34.12 | 5.06 | 21.35 | 3.30 | 60.40 | 185.98 | 57.89 | 9.70 | 44.16 | 6.55 | 83.98 | 12.97 | 70.77 | 286.02 |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|--------------|------------------------------|-------|-------|-------|-----------|-------------|--------|-----------------------------|-------|-------|-------|--------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T55 | cont. | | | | | | | | | | | | | | | | |
| T55CA004 | 31.31 | 3.66 | 19.26 | 1.59 | 6.68 | 1.03 | 31.99 | 95.52 | 33.22 | 3.68 | 23.27 | 1.92 | 27.09 | 4.19 | 36.07 | 129.44 | |
| T55CA005 | 43.04 | 5.08 | 23.21 | 1.91 | 11.32 | 1.75 | 44.04 | 130.35 | 45.67 | 5.10 | 28.05 | 2.31 | 45.92 | 7.09 | 49.66 | 183.80 | |
| T55CA006 | 42.32 | 5.05 | 24.86 | 2.05 | 13.74 | 2.12 | 43.38 | 133.52 | 44.91 | 5.08 | 30.04 | 2.48 | 55.71 | 8.61 | 48.91 | 195.74 | |
| T55CA007 | 28.10 | 5.05 | 17.72 | 2.63 | 13.54 | 2.09 | 32.42 | 101.55 | 31.22 | 5.07 | 22.93 | 3.40 | 53.25 | 8.23 | 37.98 | 162.08 | |
| T55CA008 | 45.61 | 5.42 | 26.24 | 2.16 | 13.74 | 2.12 | 46.72 | 142.01 | 48.40 | 5.45 | 31.71 | 2.61 | 55.71 | 8.61 | 52.69 | 205.18 | |
| T55CA014 | 24.69 | 2.91 | 10.99 | 0.91 | 5.35 | 0.83 | 25.26 | 70.94 | 26.21 | 2.93 | 13.28 | 1.09 | 21.02 | 3.25 | 28.49 | 96.27 | |
| T55CA015 | 28.85 | 3.33 | 14.64 | 1.21 | 3.48 | 0.54 | 29.42 | 81.47 | 30.62 | 3.35 | 17.69 | 1.46 | 13.46 | 2.08 | 33.18 | 101.84 | |
| T55CA016 | 33.68 | 4.03 | 13.35 | 1.10 | 10.83 | 1.67 | 34.54 | 99.20 | 35.74 | 4.05 | 16.14 | 1.33 | 42.60 | 6.58 | 38.94 | 145.38 | |
| T55CA017 | 38.57 | 4.58 | 18.23 | 1.50 | 10.83 | 1.67 | 39.50 | 114.88 | 40.93 | 4.60 | 22.03 | 1.82 | 42.60 | 6.58 | 44.54 | 163.10 | |
| T55CA018 | 37.01 | 4.70 | 20.80 | 1.71 | 23.74 | 3.67 | 38.32 | 129.95 | 39.27 | 4.73 | 25.13 | 2.07 | 93.36 | 14.42 | 43.21 | 222.19 | |
| T55JD001 | 24.57 | 2.90 | 13.61 | 1.12 | 6.39 | 0.99 | 25.15 | 74.73 | 26.08 | 2.92 | 16.45 | 1.36 | 25.13 | 3.88 | 28.36 | 104.18 | |
| T55JD002 | 27.43 | 3.23 | 14.64 | 1.21 | 6.39 | 0.99 | 28.05 | 81.94 | 29.11 | 3.24 | 17.69 | 1.46 | 25.13 | 3.88 | 31.63 | 112.14 | |
| T55JD003 | 36.42 | 4.34 | 19.52 | 1.61 | 10.83 | 1.67 | 37.32 | 111.71 | 38.65 | 4.36 | 23.58 | 1.94 | 42.60 | 6.58 | 42.08 | 159.79 | |
| T55JD004 | 39.23 | 4.71 | 21.21 | 1.75 | 13.14 | 2.03 | 40.25 | 122.32 | 41.64 | 4.73 | 25.63 | 2.11 | 51.67 | 7.98 | 45.38 | 179.14 | |
| T55KM009 | 27.25 | 4.90 | 18.84 | 2.79 | 14.16 | 2.19 | 31.45 | 101.58 | 30.28 | 4.93 | 24.39 | 3.62 | 57.41 | 8.87 | 36.85 | 166.35 | |
| T55KM012 | 47.17 | 8.82 | 43.66 | 6.48 | 22.32 | 3.45 | 54.76 | 186.66 | 52.41 | 8.86 | 56.50 | 8.38 | 90.54 | 13.99 | 64.17 | 294.85 | |
| T55KM014 | 106.75 | 20.70 | 72.76 | 10.79 | 69.42 | 10.73 | 124.69 | 415.84 | 118.61 | 20.80 | 94.16 | 13.97 | 281.53 | 43.50 | 146.10 | 718.67 | |
| T55KM015 | 34.57 | 4.03 | 17.05 | 1.40 | 6.39 | 0.99 | 35.30 | 99.73 | 36.69 | 4.05 | 20.60 | 1.70 | 25.13 | 3.88 | 39.81 | 131.86 | |
| T55KM016 | 47.91 | 5.68 | 24.29 | 2.00 | 13.14 | 2.03 | 49.06 | 144.11 | 50.84 | 5.71 | 29.35 | 2.42 | 51.67 | 7.98 | 55.32 | 203.29 | |
| T55VO002 | 25.65 | 2.96 | 15.36 | 1.27 | 3.44 | 0.53 | 26.16 | 75.37 | 27.22 | 2.97 | 18.56 | 1.53 | 13.30 | 2.05 | 29.49 | 95.12 | |
| T55VO003 | 26.73 | 3.12 | 15.36 | 1.27 | 5.28 | 0.82 | 27.31 | 79.89 | 28.37 | 3.14 | 18.56 | 1.53 | 20.75 | 3.21 | 30.79 | 106.35 | |
| T55VO004 | 38.47 | 4.57 | 21.26 | 1.75 | 10.83 | 1.67 | 39.40 | 117.95 | 40.83 | 4.59 | 25.69 | 2.12 | 42.60 | 6.58 | 44.43 | 166.84 | |
| T55VO005 | 29.39 | 3.69 | 17.26 | 1.42 | 17.03 | 2.63 | 30.38 | 101.80 | 31.19 | 3.71 | 20.85 | 1.72 | 66.98 | 10.35 | 34.26 | 169.06 | |
| T55VO006 | 40.27 | 5.07 | 23.83 | 1.96 | 23.74 | 3.67 | 41.63 | 140.17 | 42.73 | 5.09 | 28.80 | 2.37 | 93.36 | 14.42 | 46.95 | 233.72 | |
| T55WC001 | 2.00 | 0.35 | 1.24 | 0.18 | 0.26 | 0.04 | 2.29 | 6.36 | 2.22 | 0.35 | 1.60 | 0.24 | 1.00 | 0.15 | 2.68 | 8.24 | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|-------|-------|-------|-----------|-------------|--------|-----------------------------|-------|------|-------|-------|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T57 | | | | | | | | | | | | | | | | | |
| | T57CU001 | 10.86 | 1.06 | 6.29 | 0.77 | 0.35 | 0.05 | 11.61 | 30.99 | | | | | | | | |
| | T57CU002 | 13.34 | 1.30 | 6.29 | 0.77 | 0.35 | 0.05 | 14.27 | 36.37 | | | | | | | | |
| | T57CU003 | 26.98 | 2.63 | 24.83 | 3.29 | 1.46 | 0.23 | 28.87 | 88.29 | | | | | | | | |
| | T57CU004 | 25.15 | 2.45 | 24.83 | 3.29 | 1.46 | 0.23 | 26.91 | 84.32 | | | | | | | | |
| | T57CU005 | 23.48 | 2.29 | 19.90 | 2.69 | 1.46 | 0.23 | 25.13 | 75.18 | | | | | | | | |
| T60 | | | | | | | | | | | | | | | | | |
| | T60CA001 | 32.41 | 3.88 | 21.23 | 2.97 | 6.52 | 1.01 | 30.86 | 98.88 | 38.89 | 3.93 | 28.08 | 3.92 | 25.62 | 3.96 | 42.33 | 146.73 |
| | T60CA002 | 48.38 | 5.88 | 32.44 | 4.53 | 13.40 | 2.07 | 46.21 | 152.91 | 58.05 | 5.96 | 42.90 | 5.99 | 52.70 | 8.14 | 63.39 | 237.13 |
| | T60CA003 | 40.81 | 5.02 | 33.90 | 4.73 | 14.53 | 2.24 | 39.07 | 140.30 | 48.97 | 5.08 | 44.84 | 6.26 | 58.99 | 9.11 | 53.59 | 226.84 |
| | T60CA004 | 45.81 | 5.60 | 33.90 | 4.73 | 13.81 | 2.13 | 43.81 | 149.79 | 54.97 | 5.67 | 44.84 | 6.26 | 54.31 | 8.39 | 60.09 | 234.53 |
| | T60CA005 | 64.31 | 7.89 | 51.41 | 7.18 | 11.47 | 1.77 | 61.54 | 205.57 | 77.17 | 7.99 | 68.00 | 9.50 | 45.10 | 6.97 | 84.41 | 299.14 |
| | T60CA006 | 67.81 | 8.29 | 54.73 | 7.64 | 11.47 | 1.77 | 64.84 | 216.55 | 81.37 | 8.39 | 72.39 | 10.11 | 45.10 | 6.97 | 88.94 | 313.27 |
| | T60KI001 | 28.51 | 3.69 | 21.89 | 3.06 | 15.14 | 2.34 | 27.60 | 102.23 | 34.21 | 3.73 | 28.95 | 4.04 | 58.42 | 9.03 | 37.85 | 176.23 |
| | T60KI002 | 19.97 | 2.71 | 21.89 | 3.06 | 15.14 | 2.34 | 19.54 | 84.65 | 23.97 | 2.74 | 28.95 | 4.04 | 58.42 | 9.03 | 26.80 | 153.95 |
| | T60KI003 | 29.91 | 3.79 | 30.65 | 4.28 | 13.20 | 2.04 | 28.82 | 112.69 | 35.89 | 3.84 | 40.54 | 5.66 | 50.92 | 7.87 | 39.53 | 184.25 |
| | T60KI004 | 43.15 | 5.31 | 30.65 | 4.28 | 13.20 | 2.04 | 41.32 | 139.95 | 51.78 | 5.38 | 40.54 | 5.66 | 50.92 | 7.87 | 56.68 | 218.83 |
| | T60KI006 | 64.92 | 7.81 | 37.42 | 5.23 | 13.20 | 2.04 | 61.87 | 192.49 | 77.90 | 7.90 | 49.49 | 6.91 | 50.92 | 7.87 | 84.86 | 285.85 |
| T65 | | | | | | | | | | | | | | | | | |
| | T65WG012 | 114.99 | 13.91 | 14.26 | 6.93 | 2.68 | 0.41 | 131.35 | 284.53 | | | | | | | | |
| | T65WG013 | 173.28 | 20.92 | 14.26 | 6.93 | 2.68 | 0.41 | 197.87 | 416.35 | | | | | | | | |
| | T65WG014 | 188.69 | 22.77 | 32.37 | 16.45 | 2.68 | 0.41 | 215.46 | 478.83 | | | | | | | | |
| | T65WG015 | 72.35 | 8.79 | 18.52 | 9.23 | 2.68 | 0.41 | 82.69 | 194.67 | | | | | | | | |
| | T65WG016 | 99.29 | 12.02 | 27.38 | 13.64 | 2.68 | 0.41 | 113.43 | 268.85 | | | | | | | | |
| | T65WG017 | 99.57 | 12.06 | 27.38 | 13.64 | 2.68 | 0.41 | 113.76 | 269.50 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|----------|------------------------------|------|-------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| W25 | | | | | | | | | | | | | | | | | |
| | W25A0002 | 0.92 | 0.04 | 0.09 | 0.79 | 0.00 | 0.00 | 1.35 | 3.19 | | | | | | | | |
| | W25A0003 | 1.65 | 0.07 | 0.18 | 0.83 | 0.00 | 0.00 | 2.42 | 5.15 | | | | | | | | |
| | W25A0004 | 1.39 | 0.06 | 0.18 | 1.08 | 0.00 | 0.00 | 2.04 | 4.75 | | | | | | | | |
| | W25A0005 | 2.83 | 0.12 | 0.37 | 1.66 | 0.00 | 0.00 | 4.16 | 9.14 | | | | | | | | |
| | W25A0006 | 1.98 | 0.09 | 0.18 | 0.83 | 0.00 | 0.00 | 2.91 | 5.99 | | | | | | | | |
| | W25CJ001 | 11.92 | 0.73 | 1.36 | 0.74 | 0.00 | 0.00 | 15.93 | 30.68 | | | | | | | | |
| | W25CJ002 | 18.03 | 1.10 | 1.63 | 0.89 | 0.00 | 0.00 | 24.09 | 45.74 | | | | | | | | |
| | W25CJ003 | 29.15 | 1.78 | 1.63 | 0.89 | 0.00 | 0.00 | 38.95 | 72.40 | | | | | | | | |
| | W25KZ001 | 1.41 | 0.19 | 0.00 | 0.25 | 0.00 | 0.00 | 0.93 | 2.78 | | | | | | | | |
| | W25KZ006 | 2.20 | 0.29 | 0.00 | 0.25 | 0.00 | 0.00 | 1.45 | 4.19 | | | | | | | | |
| | W25NL001 | 19.33 | 0.84 | 18.43 | 8.05 | 0.00 | 0.00 | 30.99 | 77.64 | | | | | | | | |
| | W25NL002 | 25.41 | 1.10 | 38.52 | 4.71 | 0.00 | 0.00 | 40.75 | 110.49 | | | | | | | | |
| | W25NL003 | 14.87 | 0.64 | 14.64 | 1.79 | 0.00 | 0.00 | 23.85 | 55.79 | | | | | | | | |
| | W25NL005 | 75.16 | 3.25 | 72.23 | 8.84 | 0.00 | 0.00 | 120.54 | 280.02 | | | | | | | | |
| | W25SD001 | 1.23 | 0.05 | 0.46 | 0.20 | 0.00 | 0.00 | 1.81 | 3.75 | | | | | | | | |
| | W25SD002 | 3.19 | 0.14 | 0.28 | 0.12 | 0.00 | 0.00 | 4.68 | 8.41 | | | | | | | | |
| | W25SD003 | 1.91 | 0.08 | 3.37 | 0.35 | 0.00 | 0.00 | 2.81 | 8.52 | | | | | | | | |
| | W25SD004 | 2.76 | 0.12 | 1.50 | 0.16 | 0.03 | 0.00 | 4.07 | 8.64 | | | | | | | | |
| | W25SD005 | 1.44 | 0.06 | 2.25 | 0.24 | 0.00 | 0.00 | 2.12 | 6.11 | | | | | | | | |
| | W25SD006 | 1.32 | 0.06 | 0.09 | 4.04 | 0.00 | 0.00 | 1.93 | 7.44 | | | | | | | | |
| | W25SD007 | 1.40 | 0.06 | 0.09 | 5.04 | 0.00 | 0.00 | 2.06 | 8.65 | | | | | | | | |
| | W25SD008 | 1.53 | 0.07 | 0.09 | 6.04 | 0.00 | 0.00 | 2.24 | 9.97 | | | | | | | | |
| | W25SD009 | 3.38 | 0.15 | 1.01 | 6.44 | 0.00 | 0.00 | 4.97 | 15.95 | | | | | | | | |
| | W25XX005 | 0.32 | 0.01 | 0.18 | 0.08 | 0.00 | 0.00 | 0.47 | 1.06 | | | | | | | | |
| | W25XX006 | 0.50 | 0.02 | 0.18 | 0.08 | 0.00 | 0.00 | 0.74 | 1.52 | | | | | | | | |
| | W25XX007 | 0.66 | 0.03 | 0.55 | 0.24 | 0.00 | 0.00 | 0.97 | 2.45 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REGION 4 | | AVERAGE OPERATING CONDITIONS | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | | |
|------------|---------------------|------------------------------|------|------|------|-----------|-------------|--------|-----------------------------|------|------|------|-----|-----------|-------------|--------|------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| W25 | <i>cont.</i> | | | | | | | | | | | | | | | | |
| | W25XX008 | 0.74 | 0.03 | 0.92 | 0.40 | 0.00 | 0.00 | 1.08 | 3.17 | | | | | | | | |
| | W25XX009 | 0.82 | 0.04 | 0.18 | 4.16 | 0.00 | 0.00 | 1.21 | 6.41 | | | | | | | | |
| W30 | | | | | | | | | | | | | | | | | |
| | W30KI007 | 3.38 | 0.41 | 0.71 | 0.08 | 0.46 | 0.07 | 2.76 | 7.87 | | | | | | | | |
| | W30KI008 | 3.40 | 0.41 | 0.71 | 0.08 | 0.46 | 0.07 | 2.78 | 7.91 | | | | | | | | |
| W35 | | | | | | | | | | | | | | | | | |
| | W35LC012 | 0.67 | 0.04 | 1.02 | 0.45 | 0.00 | 0.00 | 0.45 | 2.63 | | | | | | | | |
| | W35LC013 | 0.72 | 0.04 | 1.19 | 0.52 | 0.00 | 0.00 | 0.48 | 2.95 | | | | | | | | |
| | W35LC018 | 0.12 | 0.01 | 0.15 | 0.07 | 0.00 | 0.00 | 0.08 | 0.43 | | | | | | | | |
| | W35LC021 | 0.42 | 0.03 | 0.58 | 0.25 | 0.00 | 0.00 | 0.28 | 1.56 | | | | | | | | |
| | W35XX020 | 0.15 | 0.01 | 1.41 | 0.15 | 0.00 | 0.00 | 0.17 | 1.89 | | | | | | | | |
| | W35XX021 | 0.33 | 0.03 | 3.61 | 0.38 | 0.00 | 0.00 | 0.35 | 4.70 | | | | | | | | |
| | W35XX022 | 0.55 | 0.05 | 3.61 | 0.38 | 0.02 | 0.00 | 0.60 | 5.21 | | | | | | | | |
| | W35XX023 | 1.73 | 0.15 | 2.01 | 0.21 | 0.02 | 0.00 | 1.86 | 5.98 | | | | | | | | |
| | W35XX024 | 1.71 | 0.15 | 2.66 | 0.28 | 0.02 | 0.00 | 1.83 | 6.65 | | | | | | | | |
| | W35XX025 | 2.10 | 0.18 | 3.66 | 0.38 | 0.02 | 0.00 | 2.26 | 8.60 | | | | | | | | |

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CHAPTER 3

Adjustments to Hourly Rates

SECTION I. GENERAL

3.1 Contents. This chapter explains the procedures for adjusting the hourly rates shown in tables 2-1 and 2-2.

3.2 Basis for Equipment Rates. The rates shown in tables 2-1 and 2-2 are based on the catalog list price of equipment manufactured in 2013 (3 years old). Area factors used to compute regional ownership and operating expenses are listed in appendix B. All equipment hourly rate elements for average and severe conditions are given in table 2-2. Individual cost elements, which comprise the total hourly rate, are shown in table 2-2. These hourly rate elements are listed by equipment ID No., which corresponds to the equipment shown in tables 2-1.

a. Ownership costs consist of two cost elements: Depreciation (DEPR), and facilities capital cost of money (FCCM). These elements are located in tables 2-1 and 2-2.

b. Operating costs consist of five cost elements: Fuel (FUEL); filters, oil, and grease (FOG); tire wear (TIRE WEAR); tire repair (TIRE REPAIR); and repairs (REPAIR). These elements are located in table 2-2.

3.3 Equipment Rate Adjustment Tables. Table 3-1 is used to adjust the ownership (DEPR + FCCM) portion of the average hourly rate and table 3-2 is used to adjust the standby hourly rate shown in table 2-1.

3.4 Determination for Use of Equipment Rates in Tables 2-1 and 2-2. The predetermined equipment rates in tables 2-1 and 2-2 may be used when the contractor's actual cost data (cost or pricing data) is insufficient to calculate the rates. If the contractor's actual equipment is listed in tables 2-1 and 2-2, the equipment must be equivalent. However, if the contractor's actual equipment is not listed in tables 2-1 and 2-2, an equivalent piece of equipment may be chosen from the tables. To be considered equivalent, the contractor's equipment must be no more or less than 10.00 percent of the configuration (size, capacity, and horsepower) and value as compared to the equipment in tables 2-1 and 2-2. In either case, if the equipment is not equivalent, the equipment rate must be calculated using the methodology in chapter 2.

SECTION II. RATE ADJUSTMENTS

3.5 Rate Adjustments. The ownership and/or the operating portion of the hourly rates and standby hourly rates shall be adjusted whenever one or more of the following rate

adjustment conditions exists (rate adjustments are explained in detail in the following paragraphs).

- a. Changes in operating conditions.
- b. Changes in cost of money rate (CMR).
- c. Actual work hours (hrs) exceed 40 hr per week (wk).
- d. Changes in fuel cost (FUEL).
- e. Adjustments to FOG cost.
- f. Equipment of different age than table 2-1.
- g. Rate adjustment for overage equipment.
- h. Rate adjustment for overage equipment standby.

There are no rate adjustments for appendix B factors except for fuel cost (electric, gas, diesel off-road, and diesel on-road) and the cost of money rate (CMR). Also, there are no rate adjustments for repairs, tire wear, or tire repair.

3.6 Changes in Operating Conditions. If difficult or severe conditions are justified by the Contracting Officer, selection or calculation of the appropriate rate is necessary. See chapter 2, section II, for definition of average, difficult, or severe conditions and determination of condition.

3.7 Change in Cost of Money Rate (CMR). The Department of the Treasury adjusts the CMR, also known as the Prompt Payment Interest Rate, on or about 1 January and 1 July each year; these revisions are printed in the Federal Register. The Internet address for Prompt Payment Interest Rate is

<https://www.fiscal.treasury.gov/fsservices/gov/pmt/promptPayment/rates.htm>. If the CMR shown in chapter 2, section VII, is not the current rate, the FCCM portion of the total hourly rate shall be adjusted upward or downward to match the CMR for the period of equipment use. See appendix I for a listing of historical CMRs. The total hourly rate adjusted for a differing CMR is computed by the formula:

Example: Assume that table 2-1 includes a crane (category (CAT) C80, subcategory

$$\text{Total Hourly Rate} = \text{DEPR/hr} + [(\text{FCCM/hr}) \times \frac{(\text{NEW CMR})}{(\text{Old CMR})}] + \text{Operating Costs/hr}$$

(SUB) 0.02) with hourly costs as shown in the following example. The CMR has increased from 5.00 percent to a current rate of 6.00 percent (increase of 20.00 percent). The total hourly rate for this piece of equipment is determined as follows:

Assumptions for Total Hourly Rate with CMR of 5.00 percent (per hour):

| | |
|------|---------|
| DEPR | \$30.00 |
| FCCM | \$10.00 |

| | |
|---|----------------|
| Operating Costs (FUEL, FOG, TIRE WEAR, TIRE REPAIR, and REPAIR) | <u>\$40.00</u> |
| Total Hourly Rate (Based on a 40 hr/wk) | \$80.00 |

Adjustment Calculation of Total Hourly Rate for New CMR of 6.00 percent (per hour):

3.8 Actual Work Hours Greater than 40 Hours per Week. If the actual number of work

$$\$30.00/\text{hr} + [(\$10.00/\text{hr}) \times \frac{(6.00\%)}{(5.00\%)}] + \$40.00/\text{hr} = \$82.00/\text{hr}$$

hours per week is greater than 40 hours, an adjustment shall be made to the FCCM element of the ownership cost. The FCCM is to be paid up to a maximum of 40 hours per week (7 calendar days). To calculate a multi-shift rate, prorate the 40-hour FCCM over the actual hours per week as follows:

Example: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) with the below hourly costs. This crane worked 10 hours per day, 6 days per week (60 hours per week). The total hourly rate for this piece of equipment is determined as follows:

$$\text{Total Hourly Rate} = \text{DEPR/hr} + [(\text{FCCM/hr}) \times \frac{(40 \text{ hr/wk})}{(\text{Actual Work hr/wk})}] + \text{Operating Costs/hr}$$

Assumptions for Total Hourly Rate for 40 Hours/Week:

| | |
|---|----------------|
| DEPR | \$30.00 |
| FCCM | \$10.00 |
| Operating Costs (FUEL, FOG, TIRE WEAR, TIRE REPAIR, and REPAIR) | <u>\$40.00</u> |
| Total Hourly Rate (Based on a 40 hr/wk) | \$80.00 |

Adjustment Calculation of Total Hourly Rate for 60 Hours/Week:

$$\$30.00/\text{hr} + [\$10.00/\text{hr}) \times \frac{(40 \text{ hr/wk})}{(60 \text{ hr/wk})}] + \$40.00/\text{hr} = \$76.67/\text{hr}$$

3.9 Changes in Fuel Cost. Hourly fuel costs (including electricity) shall be adjusted in the event that the average fuel prices at the jobsite vary by more than 10.00 percent above or below the price in appendix B. The contractor shall be required to furnish copies of all fuel supply contracts and invoices to the government to support fuel cost adjustment. Request for upward adjustment in the rates will be considered only when fuel is supplied by recognized distributors of bulk quantities. Mathematically, this is the

ratio of the new fuel cost divided by the fuel cost (appendix B). To calculate the total hourly rate, apply the ratio of fuel cost as follows:

Example: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) with the below hourly costs. Assume the fuel cost (diesel off-road) in appendix B is \$2.35/gal and the current fuel cost has increased to \$2.82/gal (increase of 20.00 percent). The total hourly rate for this piece of equipment can be determined as follows:

$$\text{Total Hourly Rate} = (\text{DEPR/hr} + \text{FCCM/hr}) + (\text{FOG/hr} + \text{TIRE WEAR/hr} + \text{TIRE REPAIR/hr} + \text{REPAIR/hr}) + \left[\frac{(\text{New Fuel Cost})}{(\text{Fuel Cost in Appendix B})} \times \text{FUEL/hr} \right]$$

Assumptions for Fuel Cost (based on \$2.35/gal from appendix B) per hour:

| | |
|---|----------------|
| DEPR | \$30.00 |
| FCCM | \$10.00 |
| FOG, TIRE WEAR, TIRE REPAIR, and REPAIR | \$30.00 |
| FUEL | <u>\$10.00</u> |
| Total Hourly Rate | \$80.00 |

Adjustment Calculation for hourly FUEL cost using the new fuel cost of \$2.82/gal:

$$(\$30.00/\text{hr} + \$10.00/\text{hr}) + \$30.00/\text{hr} + \left[\frac{(\$2.82/\text{gal})}{(\$2.35/\text{gal})} \times \$10.00/\text{hr} \right] = \$82.00/\text{hr}$$

3.10 Adjustments to Filters, Oil, and Grease (FOG) Cost. The hourly FOG allowance shall also be adjusted upward or downward by applying the same ratio (new fuel cost divided by fuel cost shown in appendix B) as the changes in fuel cost, using the methodology as shown in paragraph 3.9.

3.11 Equipment of Different Age than Table 2-1. When the age of the equipment is newer or older than the age of the equipment listed in table 2-1, table 3-1 factors may be used to adjust the hourly rate (see paragraph 3.12 for guidance on overage equipment), otherwise the step-by-step calculation method (as shown in figure 2-1) is necessary. To adjust the hourly rate using the tables, the factors given in table 3-1 are multiplied by the hourly ownership costs shown in table 2-1. The result is an ownership rate adjusted for the actual age of the equipment. Note: Age adjustment factors in tables 3-1 and 3-2 vary by region.

a. When the age of a unit of equipment is older than the age of the equipment listed in table 2-1 (purchased new in 2013) and does not exceed the years of economic

life, adjust the hourly rate as shown in the next example. The years of economic life is determined by dividing hours of LIFE (from appendix D) by Working Hours Per Year (WHPY) (from appendix B).

Example: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) manufactured in 2013 and has a total hourly rate of \$65 per hour and an ownership rate of \$30 per hour. If an equivalent crane owned by a contractor was manufactured in 2009, the total hourly rate is determined as follows:

Table 2-1 Rate and Adjustment Calculation:

| | |
|---|----------------------|
| Total hourly rate | = \$65.00/hr |
| Ownership rate 2013 (DEPR + FCCM) | = -(\$30.00)/hr |
| Ownership rate 2009 adjusted for age (Ownership rate = \$30) x (0.93 the age adjustment factor from table 3-1, for category C80, subcategory 0.02, and for the year 2009.) | <u>= +\$27.90/hr</u> |
| Total hourly rate for equipment manufactured in 2009 | = \$62.90/hr |

b. When the unit of equipment is older than the age of equipment listed in table 2-1 (purchased new in 2013) and exceeds the years of economic life, adjust the hourly rate as shown in the example for overage equipment in paragraph 3.12.

c. When the unit of equipment is newer than the equipment listed in table 2-1 (purchased new in 2013), use the adjustment factor in table 3-1 for the year of manufacture. If the equipment is newer than the most recent year shown in table 3-1, use the adjustment factor in the column of the most recent year. Once the adjustment factor is determined from table 3-1, complete the adjustment calculation as shown in the example above. The step-by-step calculation method shown in figure 2-1 may also be used.

3.12 Rate Adjustment for Overage Equipment. If the contractor's equipment exceeds the economic life in hours (from appendix D), it is considered overage, and the rates shall be adjusted.

a. The total hourly operating rate for overage equipment (no matter how old) shall be computed on the basis that the equipment is as old as possible without exceeding the hours of LIFE as shown in appendix D. Tables 3-1 and 3-2 show factors for the economic life for equipment based on the current pamphlet year (e.g., manufactured in 2013). Select a comparable unit of equipment (horsepower, value, capacity, and size) shown in table 2-1; the total hourly rate can be computed as shown in the following example. If there is no comparable unit of equipment in table 2-1, follow the methodology presented in figure 3-1.

b. The ownership portion of the rate shall be adjusted for equipment that is overage. This adjusted rate is not to exceed the rate for the same unit of equipment that is not overage.

Example: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) manufactured in 2013, has a total hourly rate of \$65 per hour, and an ownership rate of \$30 per hour. If an equivalent crane owned by a contractor was manufactured in 1999 (maximum life 2004), this crane is overage and the total hourly rate is determined as follows:

Table 2-1 Rate and Adjustment Calculation:

| | |
|---|-----------------|
| Total hourly rate | = \$65.00/hr |
| Ownership rate 2013 (DEPR + FCCM) | = -(\$30.00)/hr |
| Ownership rate 1999 adjusted for age (Ownership rate = \$30.00) x (0.78 the oldest age adjustment factor from table 3-1, for category C80, subcategory 0.02, the last year shown.) | = +\$23.40/hr |
| Total hourly rate for equipment manufactured in 1999 | = \$58.40/hr |

3.13 Standby Rate Adjustment for Equipment of a Different Age than Table 2-1. If the equipment age is other than listed in table 2-1 (purchased new in 2013), adjustment to the hourly standby rate is required. When the age of the equipment is newer or older than the age of the equipment listed in table 2-1, table 3-2 factors may be used to adjust the hourly rate, otherwise the step-by-step calculation method is necessary. The result is a standby rate adjusted for the actual age of the equipment.

a. Standby rates for overage equipment are based on the actual age of the equipment. The age adjustment factor given in table 3-2 is multiplied by the hourly standby cost shown in table 2-1 for the listed or comparable unit of equipment. This results in a standby rate adjusted for the actual age of the unit of equipment being considered.

$$\text{Hourly Standby Rate Adjusted for Actual Age} = \\ \text{Hourly Standby Rate} \times \text{Age Adjustment Factor}$$

Example: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) manufactured in 2013 and has a standby rate of \$20.00 per hour. If an equivalent crane owned by a contractor was manufactured in 2005, the hourly standby rate is determined as follows:

| | |
|--|--------------|
| Hourly Standby Rate (table 2-1) | = \$20.00/hr |
| Age Adjustment Factor (table 3-2) | = 0.83 |
| for category C80, subcategory 0.02, and for 2005 (actual year of | |

manufacture)

Adjustment Calculation:

| | |
|--|--------------|
| Hourly Standby Rate Adjusted for Actual Age | = \$20.00/hr |
| (Hourly Standby Rate) x 0.83 (Age Adjustment Factor) | = \$16.60/hr |

b. When the unit of equipment is newer than the equipment listed in table 2-1 (purchased new in 2013), use the adjustment factor in table 3-2 for the year of manufacture. Once the adjustment factor is determined from table 3-2, complete the adjustment calculation as shown in the example above. The step-by-step calculation method shown in figure 3-2 may also be used.

c. When the equipment age is older than the last year shown in table 3-2, or newer than the first year shown in table 3-2, the standby rate must be calculated using the step-by-step methodology shown in figure 3-2.

3.14 Equipment Purchased Used. A detailed methodology for computing a total hourly rate for equipment purchased used is not included in this pamphlet.

a. When actual cost data in accordance with chapter 1 is not available, an hourly rate and standby rate for equipment purchased used can be computed on the basis that the equipment was purchased new by the contractor in the year it was manufactured. Consideration for the actual age of used equipment may require an adjustment for overage.

b. The condition of the used equipment at the time of purchase should consider the extent of capital improvements, mechanical condition, and previous hours of operation. These conditions are difficult or impossible to determine and evaluate when computing a total hourly rate based on actual acquisition cost.

3.15 Rate Calculation Examples. Figure 3-1 illustrates how total hourly rates are adjusted for overage equipment. Figure 3-2 gives a sample calculation for computing adjusted standby rates.

Table 3-1. Equipment Age Adjustment Factors

for

Ownership Costs

The factors in this table are used when the age of a unit of equipment is other than the age of the equipment listed in table 2-1 (purchased new in 2013).

The factors are multiplied by the hourly ownership costs (shown in table 2-1) and result in an ownership rate adjusted for the actual age of the equipment being considered.

When the actual "life" in hours of the unit of equipment has exceeded the economic life given in appendix D, the age will be determined as discussed in chapter 3.

Refer to chapter 3 as follows:

3.11. Equipment of Different Age than Table 2-1

3.12. Rate Adjustment for Overage Equipment

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | |
|----------|--|-------------------|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | |
| SUB | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | | | | |
| A10 0.00 | AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | | | | | | | | | | | | |
| A10 0.10 | SELF-PROPELLED | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | | | | | | | | | | | | | | | |
| A10 0.20 | TOWED & TAILGATE | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | | | | | | | | | | | | | | | | | |
| A15 0.00 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | | | | | | | | | | | | | |
| A15 0.10 | ROTARY SCREW | | 1.05 | 1.05 | 1.03 | 1.00 | 0.95 | 0.91 | 0.83 | 0.83 | | | | | | | | | | | | | | |
| A15 0.20 | SHOP TYPE | | 1.05 | 1.05 | 1.03 | 1.00 | 0.95 | 0.92 | 0.84 | 0.84 | 0.79 | 0.73 | | | | | | | | | | | | |
| A20 0.00 | AIR HOSE, TOOLS & EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | |
| A20 0.10 | AIR DRILL HOSE | | 1.04 | 1.04 | 1.03 | 1.00 | | | | | | | | | | | | | | | | | | |
| A20 0.20 | SANDBLAST HOSE | | 1.04 | 1.04 | 1.03 | 1.00 | | | | | | | | | | | | | | | | | | |
| A20 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | | 1.04 | 1.05 | 1.03 | 1.00 | 0.96 | | | | | | | | | | | | | | | | | |
| A25 0.00 | ASPHALT PAVING DISTRIBUTORS | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | | | | | | | | | | | | | | | | | |
| A30 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | |
| A30 0.10 | SELF PROPELLED | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | | | | | | | | | | | | | | | |
| A30 0.20 | TOWED | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | | | | | | | | | | | | | | |
| A30 0.30 | SLURRY SEAL PAVERS (Cold mix) | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | | | | | | | | | | | | |
| A30 0.40 | MISCELLANEOUS ROAD EQUIPMENT | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | | | | | | | | | | | | | | |
| A35 0.00 | ASPHALT PAVING KETTLES | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | | | | | | | | | | | | | | | | | |
| A40 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | | | | | | | | | | | | | | | | | |
| A45 0.00 | ASPHALT RECYCLERS & SEALERS | | 1.05 | 1.03 | 1.03 | 1.00 | | | | | | | | | | | | | | | | | | |
| B10 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | | | | | | | | | | | | |
| B10 0.10 | ASPHALT | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | | | | | | | | | | | | | | | |
| B10 0.20 | CONCRETE | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----|---|---------------|------|------|------|------|------|------|--------------------|---|---|----|----|----|----|----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| B10 0.30 | | PUGMILL | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B15 0.00 | | BROOMS, STREET SWEEPERS & FLUSHERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B20 0.00 | | BRUSH CHIPPERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B25 0.00 | | BUCKETS, CLAMSHELL | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B30 0.00 | | BUCKETS, CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B30 0.10 | | GENERAL PURPOSE, MANUAL TRIP | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B30 0.20 | | LAYDOWN | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B30 0.30 | | LOWBOY | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B30 0.40 | | LOW SLUMP | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B35 0.00 | | BUCKETS, DRAGLINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B35 0.10 | | LIGHT WEIGHT | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B35 0.20 | | MEDIUM WEIGHT | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B35 0.30 | | HEAVY WEIGHT | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C05 0.00 | | CHAIN SAWS | 1.04 | 1.03 | | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C10 0.00 | | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C10 0.10 | | COMPACTORS, RAMMERS / TAMPER & VIBRATORY PLATES | 1.04 | 1.03 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C10 0.20 | | ROLLERS, VIBRATORY | 1.05 | 1.03 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C15 0.00 | | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C15 0.10 | | WALK BEHIND | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C15 0.20 | | TRUCK/TRAILER MOUNTED | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C20 0.00 | | CONCRETE BUGGIES | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C25 0.00 | | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|-------------------|---------------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | | | | | | | | | | | |
| C25 0.10 | FINISHERS/TROWELS | | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C25 0.20 | VIBRATORY SCREED | | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C25 0.25 | VIBRATORY LASER SCREED | | 1.05 | 1.04 | 1.02 | 1.00 | 0.96 | 0.91 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C25 0.30 | MATERIAL/TOPPING SPREADERS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.96 | 0.91 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C30 0.00 | CONCRETE GRINDERS | | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C35 0.00 | CONCRETE GUNITERS / SHOTCRETTERS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C40 0.00 | CONCRETE MIXING UNITS | | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C45 0.00 | CONCRETE PAVING MACHINES | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C55 0.00 | CONCRETE PUMPS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C60 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C65 0.00 | CONCRETE VIBRATORS | | 1.04 | 1.05 | 1.03 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C70 0.00 | CRANES, GANTRY & STRADDLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C75 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C80 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C80 0.01 | UNDER 26 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C80 0.02 | 26 TON THRU 65 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C80 0.03 | 66 TON THRU 125 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.76 | 0.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C80 0.04 | OVER 125 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C85 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C85 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C85 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C85 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | |
|----------|---|-------------------|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| SUB | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | 0.66 | | | |
| C85 0.21 | LIFTING, 0 THRU 25 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | | | | | | |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | | | | |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | | | |
| C85 0.24 | LIFTING, OVER 150 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | 0.69 | 0.69 | |
| C90 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | | | |
| C90 0.01 | UNDER 26 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | | | | | | | |
| C90 0.02 | 26 TON THRU 65 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | | | | | | |
| C90 0.03 | 66 TON THRU 125 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | | | | |
| C90 0.04 | OVER 125 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | 0.66 | | | |
| C95 0.00 | CRANES, TOWER | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | | | | |
| D10 0.00 | DRILLS, AIR/HYDRAULIC, CRWLR MTD, 0" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | | | | | | | | | |
| D10 0.10 | DRILLS, AIR TRACK (Add cost for drill steel and bit wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | 0.86 | 0.80 | 0.73 | 0.66 | | | | | | | |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | | | | | | | | | | | |
| D15 0.00 | DRILLS, HORIZONTAL | | | | | | | | | | | | | | | | | | | | |
| D15 0.10 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | | | | | | | | | | | |
| D15 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | | | | | | | | | | | |
| D20 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | | | | | | | | | | | | |
| D25 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | | | | | | | | | | | |
| D30 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | | 1.06 | 1.05 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | | | | | | | | | | | |
| D35 0.00 | DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | | | | | | | | | |
| D35 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.81 | 0.74 | 0.68 | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|-----|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|--|--|--|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 | | | | | |
| D35 0.12 | | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.06 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.81 | 0.74 | 0.68 | 0.62 | 0.57 | 0.56 | | | | | | | | |
| D35 0.21 | | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.06 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.81 | 0.74 | 0.68 | | | | | | | | | | | |
| D35 0.22 | | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.06 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.81 | 0.74 | 0.68 | 0.62 | 0.57 | 0.56 | | | | | | | | |
| F10 0.00 | | FORK LIFTS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | | | | | | |
| G10 0.00 | | GENERATOR SETS | | | | | | | | | | | | | | | | | | | | | | | |
| G10 0.10 | | PORTABLE | 1.02 | 1.02 | 1.02 | 1.00 | 0.99 | 0.97 | 0.91 | | | | | | | | | | | | | | | | |
| G10 0.20 | | SKID MOUNTED | 1.02 | 1.02 | 1.02 | 1.00 | 0.99 | 0.97 | 0.91 | 0.89 | | | | | | | | | | | | | | | |
| G15 0.00 | | GRADERS, MOTOR | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.85 | 0.81 | 0.79 | 0.74 | 0.71 | 0.69 | 0.66 | | | | | | | | | | | |
| H10 0.00 | | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | |
| H13 0.00 | | HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | |
| H13 0.11 | | COMPACTORS (Compression force) 0 THRU 50 TONS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | | | | | | | | | | | | | | | |
| H13 0.12 | | COMPACTORS (Compression force) OVER 50 TONS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | | | | | | | | | | | | | |
| H13 0.21 | | FILTER PRESSES, STATIONARY | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | | | | | | |
| H13 0.22 | | FILTER PRESSES, MOBILE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | | | | | | | | | | | | | | | |
| H13 0.30 | | CENTRIFUGES | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | |
| H13 0.40 | | SHREDDERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | | | | | | | | | | | | | | | |
| H13 0.51 | | SOIL TREATMENT PLANT, MOBILE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | | | | | | | | | | | | | | | |
| H13 0.61 | | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | | | | | | | | | | | | | | | |
| H13 0.71 | | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 1.05 | 1.03 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | |
| H15 0.00 | | HEATERS, SPACE | | | | | | | | | | | | | | | | | | | | | | | |
| H20 0.00 | | HOISTS & AIR WINCHES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | | | | | | |
| H25 0.00 | | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|------|--|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 |
| H25 | 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.89 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.81 | 0.75 | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.14 | OVER 160,000 LBS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.81 | 0.75 | 0.73 | 0.70 | 0.64 | | | | | | | | | | | | | | | | | | |
| H25 | 0.21 | ATTACHMENTS, MOBILE SHEARS | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.22 | ATTACHMENTS, MATERIAL HANDLING | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H25 | 0.24 | ATTACHMENTS, COMPACTORS | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H30 | 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H30 | 0.01 | 0 THRU 1.0 CY | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H30 | 0.02 | OVER 1.0 CY | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H35 | 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H35 | 0.11 | DIESEL, 0 CY THRU 5.0 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | | | | | | | | | | | | | | | | | | | | | | |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | | | | | | | | | | | | | | | | | | | | | |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | | | | | | | | | | | | | | | | | | | |
| L10 | 0.00 | LAND CLEARING EQUIPMENT | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L15 | 0.00 | LANDSCAPING EQUIPMENT | 1.05 | 1.03 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L20 | 0.00 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L20 | 0.10 | METALLIC VAPOR | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L25 | 0.00 | LINE STRIPING EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L30 | 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--|-------------------|---------------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.85 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.12 | ARTICULATED, OVER 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | 0.84 | 0.81 | 0.79 | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.20 | SKID STEER | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.21 | SKID STEER ATTACHMENTS | | 1.03 | 1.02 | 1.01 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.85 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.85 | 0.82 | | | | | | | | | | | | | | | | | | | | | | | |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.85 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| L55 0.00 | LOADER / BACKHOE, ATTACHMENTS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L60 0.00 | LOG SKIDDERS | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.00 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.11 | AQUATIC MAINTENANCE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS, TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | | | | | | | | | | | | | | | | | | | | |
| M10 0.22 | HYDRAULIC CUTTERHEAD DREDGE, 8" - 12", TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | | | | | | | | | | | | | | | | | | | | |
| M10 0.23 | HYDRAULIC AUGERHEAD DREDGE, 12" OR LESS, TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | | | | | | | | | | | | | | | | | | | | |
| M10 0.24 | HYDRAULIC FLOATING PUMPS, 12" OR LESS, TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.25 | HYDRAULIC DREDGE PUMPS, 12" OR LESS, TRANSPORTABLE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.31 | SMALL MECH DREDGES, CLAMSHELL, BARGE-MTD TO 5 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.76 | 0.73 | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--|-------------------|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| M10 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.33 | SMALL MECH DREDGES, HOE-MOUNTED DREDGING ATTACH | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.88 | 0.85 | 0.81 | 0.77 | 0.74 | 0.69 | 0.66 | 0.65 | | | | | | | | | | | | | | | | | |
| M10 0.41 | WORK FLOATS (NON-DREDGING) | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.71 | 0.68 | 0.67 | 0.65 | 0.64 | | | | | | | | | | | | | | | |
| M10 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.90 | 0.86 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | | | | | | | | | | | | | | | |
| M10 0.46 | DUMP SCOW (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.90 | 0.86 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | | | | | | | | | | | | | | | |
| M10 0.47 | DRILL BARGE (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.77 | 0.72 | 0.69 | 0.68 | 0.67 | 0.66 | | | | | | | | | | | | | | | |
| M10 0.48 | ALL OTHER BARGES (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.77 | 0.72 | 0.69 | 0.68 | 0.67 | 0.66 | | | | | | | | | | | | | | | |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.92 | 0.88 | 0.85 | 0.80 | 0.77 | 0.74 | | | | | | | | | | | | | | | | | | | | |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | 0.71 | 0.67 | | | | | | | | | | | | | | | | | | |
| M10 0.54 | TUGS, 501 THRU 1,000 HP | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.71 | 0.68 | 0.67 | 0.66 | 0.64 | | | | | | | | | | | | | | | |
| M10 0.55 | TUGS, 1,000 THRU 2,000 HP | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.72 | 0.69 | 0.68 | 0.66 | 0.65 | | | | | | | | | | | | | | | |
| P10 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | | 1.06 | 1.05 | 1.03 | 1.00 | 0.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P20 0.00 | PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P20 0.10 | DIESEL | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P20 0.20 | PNEUMATIC (STEAM/AIR) | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P25 0.00 | PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P25 0.10 | DIESEL | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P25 0.20 | PNEUMATIC (STEAM/AIR) | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P30 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P35 0.00 | PIPELAYERS | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | | | | | | | | | | | | | | | | | | | | | |
| P40 0.00 | PLATFORMS & MAN-LIFTS | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---------------------------------------|-------------------|---------------|------|------|------|------|------|------|--------------------|---|---|----|----|----|----|----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| P45 0.00 | PUMPS, GROUT | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P50 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P50 0.11 | ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P50 0.12 | ELECTRIC DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P50 0.21 | WHEEL MOUNTED, ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P50 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P50 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | | 1.04 | 1.03 | 1.02 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P55 0.00 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P55 0.01 | ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P55 0.02 | ELECTRIC DRIVE | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P60 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P60 0.11 | SKID MOUNTED, ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P60 0.12 | SKID MOUNTED, ELECTRIC DRIVE | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P60 0.21 | WHEEL MOUNTED, ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P60 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P65 0.00 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P65 0.11 | SKID MOUNTED, ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P65 0.12 | SKID MOUNTED, ELECTRIC DRIVE | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P65 0.21 | WHEEL MOUNTED, ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P65 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P70 0.00 | PUMPS, WATER (For core drills) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P70 0.01 | ENGINE DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--|-------------------|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| P70 0.02 | ELECTRIC DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R10 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R15 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | | 1.08 | 1.07 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| R20 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | | 1.08 | 1.07 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| R30 0.00 | ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R30 0.01 | PNEUMATIC | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R30 0.02 | SMOOTH DRUM | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| R30 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | | 1.07 | 1.07 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | 0.88 | 0.82 | | | | | | | | | | | | | | | | | | | | | | | |
| R40 0.00 | ROLLERS, VIBRATORY, TOWED | | 1.08 | 1.07 | 1.04 | 1.00 | 0.97 | 0.94 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R45 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | | 1.08 | 1.07 | 1.04 | 1.00 | 0.97 | 0.94 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R50 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | | 1.08 | 1.07 | 1.04 | 1.00 | 0.97 | 0.94 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R55 0.00 | ROOFING EQUIPMENT | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S10 0.00 | SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S10 0.01 | 0 THRU 200 HP | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.80 | | | | | | | | | | | | | | | | | | | | | | | | | |
| S10 0.02 | OVER 200 HP | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.85 | 0.81 | 0.79 | 0.74 | 0.70 | 0.69 | | | | | | | | | | | | | | | | | | | | | | |
| S15 0.00 | SCRAPERS, CONVENTIONAL | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.81 | 0.76 | 0.72 | 0.71 | 0.68 | | | | | | | | | | | | | | | | | | | | | |
| S20 0.00 | SCRAPERS, TANDEM POWERED | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.81 | 0.76 | 0.72 | 0.71 | 0.68 | | | | | | | | | | | | | | | | | | | | | |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.80 | 0.75 | 0.72 | | | | | | | | | | | | | | | | | | | | | | | |
| S30 0.00 | SCREENING & CRUSHING PLANTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S30 0.10 | CONVEYORS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| S30 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | | | | | | | | | | | | | | | |
| S30 0.21 | CRUSHERS - CONE | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|------|---|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | | | | | | | |
| S30 | 0.22 | CRUSHERS - JAW | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | | | | | | | | | | | | | | | | | | | | | | | | | |
| S30 | 0.30 | SCREENING PLANT | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 1.03 | 1.02 | 1.01 | 1.00 | 0.95 | 0.89 | 0.84 | 0.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T15 | 0.02 | 226 HP THRU 425 HP | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.85 | 0.86 | 0.83 | 0.79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T15 | 0.03 | OVER 425 HP | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | 0.88 | 0.83 | 0.79 | 0.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T25 | 0.20 | WHEEL | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 1.08 | 1.07 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 1.08 | 1.07 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 | 0.00 | TRUCK OPTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 | 0.20 | DUMP BODY, REAR | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 | 0.30 | FLATBEDS, WITH SIDES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 | 0.50 | TRANSIT MIXERS | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--|-------------------|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| T40 0.60 | WATER TANKS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T40 0.70 | ALL OTHER OPTIONS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.00 | TRUCK TRAILERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.10 | BOTTOM DUMP | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.20 | END DUMP | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.30 | PUP TRAILER | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.41 | LOWBOY, RIGID NECK, DROP DECK | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.50 | FLATBED TRAILER | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.60 | MISCELLANEOUS /UTILITY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.70 | WATER TANKER TRAILER | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.80 | DECONTAMINATION FACILITY | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T45 0.90 | TANK TRAILERS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T50 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T50 0.01 | 0 THRU 10,000 GVW | | 1.07 | 1.05 | 1.02 | 1.00 | 0.97 | 0.90 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T50 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | | 1.07 | 1.05 | 1.02 | 1.00 | 0.97 | 0.90 | 0.87 | 0.84 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T50 0.03 | OVER 30,000 GVW (Chassis only - Add options) | | 1.07 | 1.05 | 1.02 | 1.00 | 0.97 | 0.90 | 0.87 | 0.84 | 0.80 | 0.76 | | | | | | | | | | | | | | | | | | | | | | | |
| T55 0.00 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T55 0.10 | RIGID FRAME | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.82 | 0.75 | 0.71 | 0.70 | 0.69 | | | | | | | | | | | | | | | | | |
| T55 0.20 | ARTICULATED FRAME | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | | | | | | | | | | | | | | | | | | | | | | |
| T56 0.00 | TRUCKS, OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T56 0.10 | PRIME MOVER TRACTORS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.82 | 0.75 | 0.71 | 0.70 | 0.69 | | | | | | | | | | | | | | | | | |
| T56 0.20 | WAGONS, BOTTOM DUMP | | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.88 | 0.86 | 0.81 | | | | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | |
|----------|----------|--|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 |
| T56 0.30 | | WAGONS, REAR DUMP | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.88 | | | | | | | | |
| T57 0.00 | | TRUCKS, VACUUM | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | |
| T60 0.00 | | TRUCKS, WATER, OFF-HIGHWAY | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.88 | | | | | | | | |
| T65 0.00 | | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | | | | | | |
| T65 0.10 | | DRIFTING & TUNNELING DRILLS | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.91 | 0.88 | 0.82 | 0.76 | 0.69 | | | | | | |
| T65 0.20 | | TUNNEL BORING MACHINES | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.69 | 0.67 | | | |
| T65 0.30 | | PRODUCTION DRILLING RIGS | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.88 | 0.82 | | | | | | | | |
| T65 0.40 | | ROADHEADERS & CONTINUOUS MINERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | | | | | |
| T65 0.50 | | ROCK BOLTING EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | |
| T65 0.61 | | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | | | | | | | | |
| T65 0.62 | | LOADING & HAULING EQUIPMENT, ELECTRIC | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.79 | 0.75 | | | | | | |
| T65 0.63 | | LOADING & HAULING EQUIPMENT, AIR-POWERED | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | | | | | | | | | | |
| T65 0.70 | | LOCOMOTIVES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | | | | | | | | |
| T65 0.90 | | OTHER TUNNELING EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | | | | | | | | | | |
| W10 0.00 | | WAGONS, BOTTOM DUMP | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | | | | | | | | |
| W15 0.00 | | WAGONS, REAR DUMP | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | | | | | | | | |
| W25 0.00 | | WATER & CO ₂ BLASTERS | | | | | | | | | | | | | | | | | | |
| W25 0.10 | | LOW PRESSURE, (< 5,000 PSI) | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | |
| W25 0.20 | | HIGH PRESSURE, (>= 5,000 PSI) | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | |
| W25 0.30 | | STEAM CLEANERS | 1.05 | 1.04 | 1.02 | 1.00 | | | | | | | | | | | | | | |
| W25 0.40 | | CO ₂ BLASTERS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | |
| W25 0.50 | | WET ABRASIVE BLASTING SYSTEM (TORBO) | 1.06 | 1.04 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.86 | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | | | Year Purchased New | | | | | | | | | | |
|----------|----------------------|-------------------|---------------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 |
| W30 0.00 | WATER TANKS | | | | | | | | | | | | | | | | | | | |
| W30 0.10 | PORTABLE WITH WHEELS | | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.88 | | | | | | | | |
| W30 0.20 | SKID MOUNTED | | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.88 | | | | | | | | |
| W35 0.00 | WELDERS | | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | | | | | | | | | | | |
| W35 0.20 | ELECTRIC DRIVEN | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | |

TOTAL HOURLY RATE CALCULATION FOR OVERAGE EQUIPMENT

EXAMPLE

Assume the following set of given information for the rate calculation example:

1. The unit of equipment is not listed in table 2-1.
2. The equipment is contractor owned.
3. Data for the unit in question:
 - a. Caterpillar front-end wheel loader
 - b. Model 950-G, 4WD, 3.5 CY capacity
 - c. Serial number indicates year of manufacture = 2004
 - d. Actual purchase price in 2004 = \$222,151
(includes all regional discounts, sales tax and freight)
 - e. Horsepower is 180 hp (fuel is Diesel off-road)
 - f. Drive tire (DT) size = 23.50 x 25, 16 ply, L-3 (appendix F tire code ANNB5)
DT cost (2014) = 4 tires x \$3,998 /tire = \$15,992
 - g. Weight = 392 cwt
4. Table 3-1, Age Adjustment Factors for Ownership Costs:
 - a. The category L40, subcategory 0.11 (wheel loaders < 225 hp)
 - b. The year corresponding to the last age adjustment factor = 2009
5. Adjust the actual purchase price:
 - a. Economic Indexes from appendix E (wheel loaders EK = 45)
 - (1) For 2009 (first year of economic life), the economic index = 6861
 - (2) For 2004 (year of manufacture), the economic index = 6140
 - b. Purchase price [total equipment value (TEV)] indexed to 2009 (first year of economic life): (Purchase price includes discount, sales tax, and freight for this region).
$$(6861 / 6140) \times \$222,151 = \$248,237 \quad (= 2009 purchase price)$$
6. Hourly rate is computed as follows in accordance with figure 2-1, Equipment Rate Computation Worksheet.

Figure 3-1. Total Hourly Rate Calculation for Overage Equipment

Example: The piece of equipment shown in this example is based on a known piece of equipment for illustration purposes only.

Use this worksheet to compute an hourly rate for equipment that is not in this pamphlet or is in the pamphlet but not equivalent in size, capacity, horsepower, or value (see appendix A for blank form).

Region 04

1. EQUIPMENT INFORMATION AND EXPENSE FACTORS

ID No: _____

a. Equipment Specification Data:

| (1) Equipment Description: | Loader, Front-end, Wheel, 4WD, 3.5 CY capacity | | | |
|---|--|------------------------------|--|-----------|
| (2) Model and Series: | Caterpillar Model 950-G | | | |
| (3) Present Year or Year of Use: | 2016 | | | |
| (4) Year Manufactured: | 2004 | indexed to | 2009 | |
| (5) Horsepower - Equipment: | | | 180 | |
| (6) Horsepower - Carrier: | | | 0 | |
| (7) Fuel | - Equipment: 0=None; 1-electric; 2-gasoline; 3=diesel off-road; 4=diesel on-road; 5=marine gas; 6=marine diesel | Enter number from 0 to 6 ==> | <input type="text" value="3"/> D-off | |
| | - Carrier: 0=None; 1-electric; 2-gasoline; 3=diesel off-road; 4=diesel on-road; 5=marine gas; 6=marine diesel | Enter number from 0 to 6 ==> | <input type="text" value="0"/> None | |
| (8) Shipping Weight (cwt): | | | 392 cwt | |
| (9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F) | | | | |
| Size/Ply | App F Code | No. | Unit Price | Cost |
| (a) Front (FT): | | 0 | \$0 | \$0 |
| (b) Drive (DT): | 23.5X25/16Ply | 4 | \$3,998 | \$15,992 |
| (c) Trailing (TT): | | 0 | \$0 | \$0 |
| (d) Total Tire Cost: | | | | \$15,992 |
| (10) List Price + Accessories: [at Year (yr) of Manufacture] | \$0 | OR | actual purchase price: | \$248,237 |

USE APPENDIX D TO COMPLETE THE FOLLOWING DATA:

| | | |
|--|-----|---------|
| b. Category and Subcategory Number: | L40 | 0.11 |
| c. Hourly Expense Calculation Factors: | | |
| (1) Economic Key (EK): | | 45 |
| (2) Condition (C): A =Average D =Difficult S =Severe | A | AVERAGE |
| (3) Discount Code (DC): B = 7.5% (0.075) or S = 15.0% (0.15) | B | 0.075 |
| (4) Life in Hours (LIFE): | | 9,250 |
| (5) Salvage Value Percentage (SLV): | | 0.25 |
| (6) Fuel Factor - Equipment [Electric (E) Gas (G) Diesel (D)]: | | 0.031 |
| (7) Fuel Factor - Carrier (E G D): | | 0.000 |
| (8) Filter, Oil, and Grease (FOG) Factor (E G D): | | 0.111 |
| (9) Tire Wear Factor: | | |
| (a) Front (FT): | | 0.83 |
| (b) Drive (DT): | | 0.54 |
| (c) Trailing (TT): | | 0.92 |
| (10) Repair Cost Factor (RCF): | | 0.70 |

Figure 3-1. Total Hourly Rate Calculation for Overage Equipment Page 1 of 6

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2. EQUIPMENT VALUE

| | | |
|-----|---|-------------------------------|
| a. | List Price + Accessories: [at Year (yr) of Manufacture] | = \$0 |
| (1) | Discount: (List Price {1.a.(10)} + Accessories) x Discount {1.c.(3)} | = _____ - [\$0] |
| | (\$0 + \$0.00) x 0.075 | |
| (2) | Subtotal {2.a.} - {2.a.(1)} | Subtotal = \$0 |
| (3) | Sales or Import Subtotal {2.a.(2)} x Tax Rate {Appendix B} | = \$0 |
| | \$0 x 5.25% | |
| (4) | Total Discounted Price: Subtotal: {2.a.(2)} + {2.a.(3)} | Subtotal = \$0 |
| b. | Freight: Shipping Weight {1.a.(8)} x Freight Rate per cwt {Appendix B} | |
| | 0,000 cwt x \$0.00 /cwt | = \$0 |
| c. | TOTAL EQUIPMENT VALUE (TEV): {2.a.(4)} + {2.b} OR actual purchase price {1a.(10)} (See chapter 3 for used and overage equipment rate adjustments.) | TOTAL[2.]: = \$248,237 |

3. DEPRECIATION PERIOD (N)

| | | |
|----|--------------------------------------|----------------|
| a. | LIFE / Working Hours Per Year (WHPY) | = N |
| | {1.c (4)} {Appendix B} | |
| | 9,250 hr / 1,260 hr/yr | = 7.34 yrs (N) |

4. OWNERSHIP COST

| | | | | | |
|-----|---|---|---|--|---------------|
| a. | Depreciation | | | | |
| (1) | Tire Cost Index (TCI): | | | | |
| | Tire Index, Year of Manufacture, {1.a.(4)} Appendix E, EK=100 | / | Present Year or Year of Use, {1.a.(3)} Appendix E, EK=100 | | = TCI |
| | 3525 / | | 3860 | | = 0.913 |
| (2) | [TEV {2.c.}] x (1.0-SLV {1.c.(5)}) | - | (TCI {4.a.(1)}) x Tire Cost)] / LIFE {1.c.(4)} | | |
| | [\$248,237 x (1.0-0.25)] | - | (0.913 x \$15,992)] / 9,250 hr | | = \$18.55 /hr |

Figure 3-1. Total Hourly Rate Calculation for Overage Equipment Page 2 of 6

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4. OWNERSHIP COST (Continued)

b. Facilities Capital Cost of Money (FCCM):

| | | | | | | | |
|-----|--|---|--------------------------------|--------|---|---------------------------------|--------------------------|
| (1) | $\frac{[(N - 1.0) \times (1.0 + SLV)]}{(7.34 \text{ yr} - 1.0)}$ | x | $(1.0 + SLV) \quad \{1.c.5.\}$ | + 2.0] | / | $(2.0 \times N) \quad \{3.a.\}$ | = Avg Value Factor {AVF} |
| | <u>(1.0 + 0.25)</u> | | <u>(1.0 + 0.25)</u> | + 2.0] | / | <u>(2.0 x 7.34 yr)</u> | = <u>0.676</u> |

| | | | | | | | |
|-----|------------------------------|---|-----------------------------|--------------------------|---|--------------------|---------------------|
| (2) | TEV | x | AVF | x Adjusted Cost-of-Money | / | WHPY | |
| | $\frac{\{2.c.\}}{\$248,237}$ | x | $\frac{\{4.b.(1)\}}{0.676}$ | x <u>1.70%</u> | / | <u>1,260 hr/yr</u> | = <u>\$2.26 /hr</u> |

c. **TOTAL HOURLY OWNERSHIP COST:**

$$\{4.a.(2)\} + \{4.b.(2)\} = \text{TOTAL [4.]: } \underline{\$20.81 /hr}$$

5. OPERATING COST

a. Fuel Costs:

(1) Equipment:

| | | | | | |
|---------------|---|-----------------|---|----------------------------|----------------------|
| Fuel Factor | x | Horsepower (hp) | x | Fuel Cost per Gallon (gal) | |
| $\{1.c.(6)\}$ | | $\{1.a.(5)\}$ | | $\{Appendix B\}$ | |
| <u>0.031</u> | x | <u>180 hp</u> | x | <u>\$2.14 /gal</u> | = <u>\$11.94 /hr</u> |

(2) Carrier:

| | | | | | |
|---------------|---|---------------|---|--------------------|---------------------|
| Fuel Factor | x | hp | x | Fuel Cost per gal | |
| $\{1.c.(7)\}$ | | $\{1.a.(6)\}$ | | $\{Appendix B\}$ | |
| <u>0.000</u> | x | <u>0 hp</u> | x | <u>\$0.00 /gal</u> | = <u>\$0.00 /hr</u> |

(3) Total Hourly Fuel Cost:
 $\{(5.a (1)) + (5.a (2))\}$

$$\text{Total [5.a.] } = \underline{\$11.94 /hr}$$

b. FOG Cost:

(1) Equipment:

| | | | | | |
|---------------|---|----------------------------|---|-------------------------------|---------------------|
| FOG Factor | x | Equipment Hourly Fuel Cost | x | Labor Adjustment Factor (LAF) | |
| $\{1.c.(8)\}$ | | $\{5.a.(1)\}$ | | $\{Appendix B\}$ | |
| <u>0.111</u> | x | <u>\$11.94 /hr</u> | x | <u>1.03</u> | = <u>\$1.37 /hr</u> |

Figure 3-1. Total Hourly Rate Calculation for Overage Equipment **Page 3 of 6**

Region 04

5. OPERATING COST (Continued)

(2) Carrier:

| | | | | |
|-------------------------|---|------------------------|---|---------------------|
| FOG Factor {1.c.(8)} | x | Carrier Hourly | | |
| | x | Fuel Cost {5.a.(2)} | x | LAF {Appendix B} |
| <u>0.111</u> | x | <u>\$0.00 /hr</u> | x | <u>1.03</u> |
| | | | | <u>= \$0.00 /hr</u> |

(3) Total Hourly FOG Cost:
{5.b.(1)} + {5.b.(2)}

Total [5.b.] = \$1.37 /hr

c. Alternative Fuel/FOG Cost:

(See chapter 2, paragraph 2.24.d. for guidance on when to use.)

Total [5.c.] = \$0.00 hr

d. Repair Cost:

(1) Economic Adjustment Factor (EAF):
[EK is from 1c. (1)]

| | | | | |
|--|---|---|--|----------------|
| Economic Index, Present Year or Year of Use, 1.a.(3) | / | Economic Index, Year of Manufacture, 1.a.(4) | | |
| Appendix E, EK={1.c.(1)} | / | Appendix E, EK={1.c.(1)} | | = <u>EAF</u> |
| <u>8049</u> | / | <u>6861</u> | | = <u>1.173</u> |
| (See table 3-1 for last year of economic life.) | | | | |

(2) Repair Factor (RF):

| | | | | | |
|-------------------|---|------------------|---|---------------------|----------------|
| RCF {1.c (10)} | x | EAF {5.d.(1)} | x | LAF {Appendix B} | = <u>RF</u> |
| <u>0.70</u> | x | <u>1.173</u> | x | <u>1.03</u> | = <u>0.846</u> |

(3) Repair Cost:

| | | | | | |
|-------------------|---|--------------------|---|---|--|
| [TEV {2.c.}] | - | (TCI {4.a.(1)}) | x | Tire Cost)] x RF / LIFE | |
| <u>[\$248,237</u> | - | <u>(0.913</u> | x | <u>\$15,992)] x <u>0.846</u> / <u>9,250</u></u> | |

(4) Total Hourly Repair Cost:

Total [5.d.] = \$21.37 /hr

Figure 3-1. Total Hourly Rate Calculation for Overage Equipment Page 4 of 6

Region 04

5. OPERATING COST (Continued)

e. Tire Wear Cost: (*Use current price levels. See Appendix F.*)

(1) Front Tires (FT):

$$\begin{array}{rcl} (1.5 \times \text{FT Cost}) & / & (1.8 \times \text{FT Wear Factor}) \\ \{1.a.(9)(a)\} & & \{1.c.(9)(a)\} \\ \underline{(1.5 \times \$0)} & / & \underline{(1.8 \times 0.83)} \\ & & \times \\ & & \text{Maximum Tire Life Hours} \\ & & \{ \text{Appendix F} \} \\ & & \underline{0 \text{ hr}} \\ = & \underline{\$0.00 /hr} \end{array}$$

(2) Drive Tires (DT):

$$\begin{array}{rcl} (1.5 \times \text{DT Cost}) & / & (1.8 \times \text{DT Wear Factor}) \\ \{1.a.(9)(b)\} & & \{1.c.(9)(b)\} \\ \underline{(1.5 \times \$15,992)} & / & \underline{(1.8 \times 0.54)} \\ & & \times \\ & & \text{Maximum Tire Life Hours} \\ & & \{ \text{Appendix F} \} \\ & & \underline{3200 \text{ hr}} \\ = & \underline{\$7.71 /hr} \end{array}$$

(3) Trailing Tires (TT):

$$\begin{array}{rcl} (1.5 \times \text{TT Cost}) & / & (1.8 \times \text{TT Wear Factor}) \\ \{1.a.(9)(c)\} & & \{1.c.(9)(c)\} \\ \underline{(1.5 \times \$0)} & / & \underline{(1.8 \times 0.92)} \\ & & \times \\ & & \text{Maximum Tire Life Hours} \\ & & \{ \text{Appendix F} \} \\ & & \underline{0 \text{ hr}} \\ = & \underline{\$0.00 /hr} \end{array}$$

(4) Total Tire Wear Cost:
Sum {5.e (1)} through {5.e.(3)}

Total [5.e.] = **\$7.71 /hr**

f. Tire Repair Cost:

$$\begin{array}{rcl} \text{Total Tire Wear Cost} & & \\ \text{per Hour} & \times & (0.15 \times \text{LAF}) \\ \{5.e.(4)\} & & \{ \text{Appendix B} \} \\ \underline{\$7.71 /hr} & \times & \underline{(0.15 \times 1.03)} \\ & & \\ \text{Total [5.f.]} & = & \underline{\$1.19 /hr} \end{array}$$

g. **TOTAL HOURLY OPERATING COST:**
Sum {5 a.} through {5.f.}

Total [5.] = **\$43.58 /hr**

Region 04

6. HOURLY RATES

- a. Total Hourly Rate: based on 40 hours per week (wk)

- b. Other Work Shifts Hourly Rate:

(Refer to Chapter 3, *Adjustments to Rates, for methodology.*)

$$\begin{array}{l}
 \text{Depreciation} + (\text{FCCM} \times 40 \text{ hr/wk}) / \text{Work hr/wk} + \text{Operating Cost} \\
 \{4.a.(2)\} \quad \{4.b.(2)\} \quad \text{example: } 60 \text{ hr/wk} \quad \{5.g.\} \\
 \underline{\$0.00 /hr} + \underline{(\$0.00 /hr)} \times \underline{40 \text{ hr/wk}} / \underline{60 \text{ hr/wk}} + \underline{\$0.00 /hr} \\
 \qquad\qquad\qquad (\text{example: } 60 \text{ hr/wk}) \\
 = \underline{\$0.00 /hr}
 \end{array}$$

- c. Standby Hourly Rate:

(Refer to Chapter 2, paragraph 2.28 for guidance on use.)

(Depreciation x 0.50) + FCCM
 {4.a.(2)} {4.b.(2)}

(\$0.00 /hr x 0.50) + \$0.00 /hr

= **\$0.00 /hr**

Refer to Chapter 3, paragraph 3.12 for guidance for overage equipment.)

(Refer to Chapter 3, paragraph 3.12 for guidance for overage equipment.)

See Figure 3-2 for standby calculations for overage equipment

See Chapter 3 if rate adjustments are necessary.

Table 3-2. Equipment Age Adjustment Factors

for

Standby Costs

The factors in this table are used when the age of a unit of equipment is other than the age of the equipment listed in table 2-1.

These factors are multiplied by the hourly standby costs shown in table 2-1 and result in a standby rate adjusted for the actual age of the equipment being considered.

When the actual "life" in hours of the unit of equipment has exceeded the economic life given in appendix D, the age will be determined as discussed in chapter 3.

Refer to chapter 3 as follows:

3.13. Rate Adjustments Overage Equipment Standby

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | <u>Life in Years</u> | | | | | <u>Year Purchased New</u> | | | | | | | | | | | | |
|----------|--|-------------------|----------------------|-----------|-----------|-----------|-----------|---------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| A10 0.00 | AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | | | | | | | | |
| A10 0.10 | SELF-PROPELLED | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.82 | 0.77 | 0.73 | 0.73 | 0.73 | 0.73 | 0.71 | 0.70 |
| A10 0.20 | TOWED & TAILGATE | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.81 | 0.77 | 0.72 | 0.72 | 0.73 | 0.72 | 0.71 | 0.69 |
| A15 0.00 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | | | | | | | | | |
| A15 0.10 | ROTARY SCREW | | 1.05 | 1.05 | 1.03 | 1.00 | 0.95 | 0.92 | 0.84 | 0.83 | 0.78 | 0.72 | 0.69 | 0.66 | 0.63 | 0.63 | 0.62 | 0.63 | 0.62 | 0.63 |
| A15 0.20 | SHOP TYPE | | 1.05 | 1.05 | 1.03 | 1.00 | 0.95 | 0.92 | 0.85 | 0.84 | 0.79 | 0.74 | 0.71 | 0.68 | 0.65 | 0.65 | 0.64 | 0.65 | 0.64 | 0.65 |
| A20 0.00 | AIR HOSE, TOOLS & EQUIPMENT | | | | | | | | | | | | | | | | | | | |
| A20 0.10 | AIR DRILL HOSE | | 1.04 | 1.04 | 1.03 | 1.00 | 0.96 | 0.93 | 0.86 | 0.85 | 0.81 | 0.76 | 0.73 | 0.70 | 0.68 | 0.67 | 0.67 | 0.68 | 0.66 | 0.67 |
| A20 0.20 | SANDBLAST HOSE | | 1.04 | 1.04 | 1.03 | 1.00 | 0.96 | 0.93 | 0.86 | 0.85 | 0.81 | 0.76 | 0.73 | 0.70 | 0.68 | 0.67 | 0.67 | 0.68 | 0.66 | 0.67 |
| A20 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | | 1.04 | 1.05 | 1.03 | 1.00 | 0.96 | 0.92 | 0.85 | 0.85 | 0.80 | 0.75 | 0.72 | 0.69 | 0.66 | 0.66 | 0.66 | 0.66 | 0.65 | 0.66 |
| A25 0.00 | ASPHALT PAVING DISTRIBUTORS | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.93 | 0.93 | 0.89 | 0.86 | 0.83 | 0.79 | 0.75 | 0.75 | 0.75 | 0.75 | 0.74 | 0.72 |
| A30 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | | | | | | | | |
| A30 0.10 | SELF PROPELLED | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.89 | 0.85 | 0.82 | 0.79 | 0.74 | 0.74 | 0.74 | 0.73 | 0.71 | |
| A30 0.20 | TOWED | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.82 | 0.78 | 0.73 | 0.73 | 0.73 | 0.73 | 0.72 | 0.70 |
| A30 0.30 | SLURRY SEAL PAVERS (Cold mix) | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.85 | 0.82 | 0.78 | 0.73 | 0.73 | 0.73 | 0.72 | 0.70 | |
| A30 0.40 | MISCELLANEOUS ROAD EQUIPMENT | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.82 | 0.78 | 0.73 | 0.73 | 0.73 | 0.73 | 0.72 | 0.70 |
| A35 0.00 | ASPHALT PAVING KETTLES | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.81 | 0.77 | 0.72 | 0.72 | 0.73 | 0.72 | 0.71 | 0.69 |
| A40 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.81 | 0.77 | 0.72 | 0.72 | 0.73 | 0.72 | 0.71 | 0.69 |
| A45 0.00 | ASPHALT RECYCLERS & SEALERS | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.81 | 0.77 | 0.72 | 0.72 | 0.72 | 0.72 | 0.71 | 0.69 |
| B10 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | | | | | | | | |
| B10 0.10 | ASPHALT | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.82 | 0.77 | 0.73 | 0.73 | 0.73 | 0.73 | 0.71 | 0.70 |
| B10 0.20 | CONCRETE | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.82 | 0.77 | 0.73 | 0.73 | 0.73 | 0.73 | 0.71 | 0.70 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | <u>Life in Years</u> | | | | | <u>Year Purchased New</u> | | | | | | | | | | | | |
|----------|--|-------------------------------|----------------------|-----------|-----------|-----------|-----------|---------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| B10 0.30 | PUGMILL | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.82 | 0.78 | 0.73 | 0.73 | 0.73 | 0.73 | 0.72 | 0.70 |
| B15 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| B20 0.00 | BRUSH CHIPPERS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| B25 0.00 | BUCKETS, CLAMSHELL | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.77 | 0.75 | 0.69 | 0.70 | 0.71 |
| B30 0.00 | BUCKETS, CONCRETE | | | | | | | | | | | | | | | | | | | |
| B30 0.10 | GENERAL PURPOSE, MANUAL TRIP | | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.94 | 0.94 | 0.92 | 0.91 | 0.90 | 0.85 | 0.80 | 0.78 | 0.76 | 0.71 | 0.72 | 0.73 |
| B30 0.20 | LAYDOWN | | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.94 | 0.94 | 0.92 | 0.91 | 0.90 | 0.85 | 0.80 | 0.78 | 0.76 | 0.71 | 0.72 | 0.73 |
| B30 0.30 | LOWBOY | | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.94 | 0.94 | 0.92 | 0.91 | 0.90 | 0.85 | 0.80 | 0.78 | 0.76 | 0.71 | 0.72 | 0.73 |
| B30 0.40 | LOW SLUMP | | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.97 | 0.94 | 0.94 | 0.92 | 0.91 | 0.90 | 0.85 | 0.80 | 0.78 | 0.76 | 0.71 | 0.72 | 0.73 |
| B35 0.00 | BUCKETS, DRAGLINE | | | | | | | | | | | | | | | | | | | |
| B35 0.10 | LIGHT WEIGHT | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.77 | 0.75 | 0.69 | 0.70 | 0.71 |
| B35 0.20 | MEDIUM WEIGHT | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.77 | 0.75 | 0.69 | 0.70 | 0.71 |
| B35 0.30 | HEAVY WEIGHT | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.77 | 0.75 | 0.69 | 0.71 | 0.71 |
| C05 0.00 | CHAIN SAWS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.81 | 0.78 | 0.72 | 0.70 | 0.68 | 0.67 | 0.67 | 0.66 |
| C10 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | | | | | | | |
| C10 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.79 | 0.74 | 0.71 | 0.70 | 0.69 | 0.69 | 0.68 |
| C10 0.20 | ROLLERS, VIBRATORY | | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.80 | 0.76 | 0.71 | 0.68 | 0.67 | 0.66 | 0.65 | 0.65 |
| C15 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | | | | | | | | |
| C15 0.10 | WALK BEHIND | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 |
| C15 0.20 | TRUCK/TRAILER MOUNTED | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| C20 0.00 | CONCRETE BUGGIES | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 |
| C25 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | | | | | | | | | |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|---|-------------------|---------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 |
| C25 0.10 | FINISHERS/TROWELS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| C25 0.20 | VIBRATORY SCREED | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| C25 0.25 | VIBRATORY LASER SCREED | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.91 | 0.87 | 0.87 | 0.84 | 0.80 | 0.77 | 0.72 | 0.66 | 0.63 | 0.61 | 0.60 | 0.60 | 0.59 |
| C25 0.30 | MATERIAL/TOPPING SPREADERS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.91 | 0.87 | 0.87 | 0.84 | 0.80 | 0.77 | 0.72 | 0.66 | 0.63 | 0.61 | 0.60 | 0.60 | 0.59 |
| C30 0.00 | CONCRETE GRINDERS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| C35 0.00 | CONCRETE GUNITERS / SHOTCRETTERS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.68 | 0.65 | 0.63 | 0.62 | 0.62 | 0.61 |
| C40 0.00 | CONCRETE MIXING UNITS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| C45 0.00 | CONCRETE PAVING MACHINES | | 1.05 | 1.03 | 1.03 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.81 | 0.77 | 0.72 | 0.72 | 0.73 | 0.72 | 0.71 | 0.69 |
| C55 0.00 | CONCRETE PUMPS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| C60 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.67 | 0.67 |
| C65 0.00 | CONCRETE VIBRATORS | | 1.04 | 1.05 | 1.03 | 1.00 | 0.96 | 0.92 | 0.85 | 0.84 | 0.80 | 0.75 | 0.71 | 0.69 | 0.66 | 0.66 | 0.65 | 0.66 | 0.65 | 0.66 |
| C70 0.00 | CRANES, GANTRY & STRADDLE | | | | | | | | | | | | | | | | | | | |
| C75 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.74 | 0.68 | 0.70 | 0.69 |
| C80 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | | |
| C80 0.01 | UNDER 26 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.74 | 0.68 | 0.70 | 0.69 |
| C80 0.02 | 26 TON THRU 65 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.74 | 0.69 | 0.70 | 0.69 |
| C80 0.03 | 66 TON THRU 125 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.78 | 0.76 | 0.74 | 0.69 | 0.70 | 0.70 |
| C80 0.04 | OVER 125 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.76 | 0.74 | 0.69 | 0.70 | 0.70 |
| C85 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | | |
| C85 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.90 | 0.89 | 0.88 | 0.83 | 0.77 | 0.75 | 0.73 | 0.67 | 0.68 | 0.68 |
| C85 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.77 | 0.75 | 0.73 | 0.67 | 0.68 | 0.68 |
| C85 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.73 | 0.67 | 0.69 | 0.68 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | | | | Year Purchased New | | | | | | | | | | | | | |
|----------|---|-------------------|---------------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | 0.69 | 0.69 | |
| C85 0.21 | LIFTING, 0 THRU 25 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.77 | 0.75 | 0.73 | 0.67 | 0.68 | 0.68 | |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.73 | 0.67 | 0.69 | 0.68 | |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.76 | 0.74 | 0.69 | 0.70 | 0.70 | |
| C85 0.24 | LIFTING, OVER 150 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.77 | 0.74 | 0.69 | 0.70 | 0.70 | |
| C90 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | | | |
| C90 0.01 | UNDER 26 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.74 | 0.68 | 0.70 | 0.69 | |
| C90 0.02 | 26 TON THRU 65 TON | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.74 | 0.69 | 0.70 | 0.69 | |
| C90 0.03 | 66 TON THRU 125 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.73 | 0.67 | 0.69 | 0.68 | |
| C90 0.04 | OVER 125 TON | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | 0.69 | 0.69 | |
| C95 0.00 | CRANES, TOWER | | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.73 | 0.67 | 0.69 | 0.68 | |
| D10 0.00 | DRILLS, AIR/HYDRAULIC, CRWLR MTD, 0" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | | | | | | | | | |
| D10 0.10 | DRILLS, AIR TRACK (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.80 | 0.74 | 0.67 | 0.61 | 0.56 | 0.55 | 0.49 | 0.48 | 0.47 | |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.03 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.80 | 0.73 | 0.66 | 0.60 | 0.55 | 0.54 | 0.48 | 0.46 | 0.45 | |
| D15 0.00 | DRILLS, HORIZONTAL | | | | | | | | | | | | | | | | | | | | |
| D15 0.10 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.03 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.80 | 0.73 | 0.66 | 0.60 | 0.55 | 0.54 | 0.48 | 0.46 | 0.45 | |
| D15 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.03 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.80 | 0.73 | 0.66 | 0.60 | 0.55 | 0.54 | 0.48 | 0.46 | 0.45 | |
| D20 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.03 | 1.00 | 0.98 | 0.95 | 0.90 | 0.89 | 0.86 | 0.80 | 0.73 | 0.66 | 0.60 | 0.55 | 0.53 | 0.47 | 0.45 | 0.44 | |
| D25 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | | 1.06 | 1.04 | 1.03 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.80 | 0.73 | 0.66 | 0.60 | 0.55 | 0.54 | 0.48 | 0.46 | 0.45 | |
| D30 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | | 1.06 | 1.04 | 1.03 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.80 | 0.73 | 0.66 | 0.60 | 0.55 | 0.54 | 0.48 | 0.46 | 0.45 | |
| D35 0.00 | DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | | | | | | | | | |
| D35 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.81 | 0.75 | 0.69 | 0.63 | 0.58 | 0.57 | 0.52 | 0.50 | 0.49 | |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | Year Purchased New | | | | | | | | | | | | |
|----------|-----|--|---------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| D35 0.12 | | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.88 | 0.82 | 0.75 | 0.69 | 0.64 | 0.59 | 0.58 | 0.52 | 0.51 | 0.50 |
| D35 0.21 | | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.87 | 0.81 | 0.75 | 0.69 | 0.63 | 0.58 | 0.57 | 0.52 | 0.50 | 0.49 |
| D35 0.22 | | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.91 | 0.90 | 0.88 | 0.82 | 0.75 | 0.69 | 0.64 | 0.59 | 0.58 | 0.52 | 0.51 | 0.50 |
| F10 0.00 | | FORK LIFTS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 |
| G10 0.00 | | GENERATOR SETS | | | | | | | | | | | | | | | | | | |
| G10 0.10 | | PORTABLE | 1.02 | 1.02 | 1.02 | 1.00 | 0.99 | 0.97 | 0.91 | 0.89 | 0.86 | 0.81 | 0.77 | 0.73 | 0.69 | 0.68 | 0.68 | 0.68 | 0.67 | 0.67 |
| G10 0.20 | | SKID MOUNTED | 1.02 | 1.02 | 1.02 | 1.00 | 0.99 | 0.97 | 0.91 | 0.89 | 0.86 | 0.81 | 0.77 | 0.73 | 0.69 | 0.68 | 0.68 | 0.68 | 0.67 | 0.67 |
| G15 0.00 | | GRADERS, MOTOR | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.80 | 0.75 | 0.72 | 0.71 | 0.67 | 0.64 | 0.61 | 0.60 | 0.59 | 0.59 | 0.57 |
| H10 0.00 | | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| H13 0.00 | | HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | | | | | | | |
| H13 0.11 | | COMPACTORS (Compression force) 0 THRU 50 TONS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 |
| H13 0.12 | | COMPACTORS (Compression force) OVER 50 TONS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.86 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.65 | 0.64 |
| H13 0.21 | | FILTER PRESSES, STATIONARY | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 |
| H13 0.22 | | FILTER PRESSES, MOBILE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 |
| H13 0.30 | | CENTRIFUGES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 |
| H13 0.40 | | SHREDDERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 |
| H13 0.51 | | SOIL TREATMENT PLANT, MOBILE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 |
| H13 0.61 | | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 |
| H13 0.71 | | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.80 | 0.76 | 0.71 | 0.68 | 0.67 | 0.66 | 0.65 | 0.65 |
| H15 0.00 | | HEATERS, SPACE | | | | | | | | | | | | | | | | | | |
| H20 0.00 | | HOISTS & AIR WINCHES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.63 |
| H25 0.00 | | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | Year Purchased New | | | | | | | | | | | | |
|----------|------|--|---------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| H25 | 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.81 | 0.75 | 0.73 | 0.70 | 0.64 | 0.65 | 0.65 |
| H25 | 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.81 | 0.75 | 0.73 | 0.70 | 0.64 | 0.65 | 0.65 |
| H25 | 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.71 | 0.65 | 0.66 | 0.66 |
| H25 | 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.76 | 0.74 | 0.72 | 0.66 | 0.67 | 0.67 |
| H25 | 0.14 | OVER 160,000 LBS | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.90 | 0.89 | 0.88 | 0.82 | 0.77 | 0.74 | 0.72 | 0.66 | 0.68 | 0.67 |
| H25 | 0.21 | ATTACHMENTS, MOBILE SHEARS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| H25 | 0.22 | ATTACHMENTS, MATERIAL HANDLING | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| H25 | 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| H25 | 0.24 | ATTACHMENTS, COMPACTORS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| H30 | 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | | | | | | | |
| H30 | 0.01 | 0 THRU 1.0 CY | 1.04 | 1.04 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.81 | 0.75 | 0.73 | 0.70 | 0.64 | 0.65 | 0.65 |
| H30 | 0.02 | OVER 1.0 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.96 | 0.92 | 0.93 | 0.90 | 0.89 | 0.87 | 0.81 | 0.76 | 0.73 | 0.71 | 0.64 | 0.66 | 0.65 |
| H35 | 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H35 | 0.11 | DIESEL, 0 CY THRU 5.0 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.90 | 0.89 | 0.88 | 0.83 | 0.77 | 0.75 | 0.73 | 0.67 | 0.68 | 0.68 |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.77 | 0.75 | 0.73 | 0.67 | 0.68 | 0.68 |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 1.04 | 1.03 | 1.02 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.73 | 0.67 | 0.69 | 0.68 |
| L10 | 0.00 | LAND CLEARING EQUIPMENT | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | 0.71 | 0.69 | 0.67 | 0.67 | 0.66 | 0.65 |
| L15 | 0.00 | LANDSCAPING EQUIPMENT | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.80 | 0.76 | 0.71 | 0.68 | 0.67 | 0.66 | 0.65 | 0.65 |
| L20 | 0.00 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | |
| L20 | 0.10 | METALLIC VAPOR | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| L25 | 0.00 | LINE STRIPING EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| L30 | 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|--|-------------------|---------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | 0.71 | 0.69 | 0.67 | 0.67 | 0.66 | 0.65 |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | | | | | | | | | |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.86 | 0.83 | 0.80 | 0.78 | 0.74 | 0.69 | 0.67 | 0.65 | 0.65 | 0.64 | 0.64 |
| L40 0.12 | ARTICULATED, OVER 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.84 | 0.81 | 0.79 | 0.76 | 0.71 | 0.69 | 0.68 | 0.67 | 0.67 | 0.66 |
| L40 0.20 | SKID STEER | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.86 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| L40 0.21 | SKID STEER ATTACHMENTS | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.86 | 0.83 | 0.80 | 0.78 | 0.75 | 0.70 | 0.68 | 0.66 | 0.66 | 0.65 | 0.64 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.86 | 0.83 | 0.80 | 0.78 | 0.74 | 0.69 | 0.67 | 0.65 | 0.65 | 0.65 | 0.64 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.88 | 0.85 | 0.82 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.69 | 0.68 | 0.67 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.86 | 0.83 | 0.80 | 0.78 | 0.74 | 0.69 | 0.67 | 0.65 | 0.65 | 0.65 | 0.64 |
| L55 0.00 | LOADER / BACKHOE, ATTACHMENTS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| L60 0.00 | LOG SKIDDERS | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.68 | 0.66 | 0.65 | 0.63 | 0.62 |
| M10 0.00 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | | | | | | | | | |
| M10 0.11 | AQUATIC MAINTENANCE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.88 | 0.85 | 0.81 | 0.77 | 0.74 | 0.69 | 0.66 | 0.65 | 0.63 | 0.62 |
| M10 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.94 | 0.92 | 0.87 | 0.84 | 0.79 | 0.76 | 0.72 | 0.67 | 0.63 | 0.62 | 0.60 | 0.59 |
| M10 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS, TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.71 | 0.68 | 0.67 | 0.65 | 0.64 |
| M10 0.22 | HYDRAULIC CUTTERHEAD DREDGE, 8" - 12", TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.71 | 0.68 | 0.67 | 0.65 | 0.64 |
| M10 0.23 | HYDRAULIC AUGERHEAD DREDGE, 12" OR LESS, TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.71 | 0.68 | 0.67 | 0.65 | 0.64 |
| M10 0.24 | HYDRAULIC FLOATING PUMPS, 12" OR LESS, TRANSPORTABLE | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | 0.71 | 0.67 | 0.66 | 0.65 | 0.64 |
| M10 0.25 | HYDRAULIC DREDGE PUMPS, 12" OR LESS, TRANSPORTABLE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.92 | 0.88 | 0.84 | 0.80 | 0.77 | 0.74 | 0.69 | 0.65 | 0.64 | 0.63 | 0.61 |
| M10 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.92 | 0.88 | 0.84 | 0.80 | 0.77 | 0.74 | 0.69 | 0.65 | 0.64 | 0.63 | 0.61 |
| M10 0.31 | SMALL MECH DREDGES, CLAMSHELL, BARGE-MTD TO 5 CY | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.78 | 0.76 | 0.74 | 0.69 | 0.70 | 0.70 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Year Purchased New | | | | | | | | | | | | | | | | | |
|----------|--|-------------------|--------------------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | Life in Years | | | | | Year Purchased New | | | | | | | | | | | | |
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 |
| M10 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.93 | 0.91 | 0.90 | 0.89 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | 0.69 | 0.69 |
| M10 0.33 | SMALL MECH DREDGES, HOE-MOUNTED DREDGING ATTACH | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.63 |
| M10 0.41 | WORK FLOATS (NON-DREDGING) | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | 0.71 | 0.67 | 0.66 | 0.65 | 0.63 |
| M10 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.72 | 0.69 | 0.68 | 0.66 | 0.65 |
| M10 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.96 | 0.94 | 0.90 | 0.87 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.68 | 0.67 |
| M10 0.46 | DUMP SCOW (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.96 | 0.94 | 0.90 | 0.87 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.68 | 0.67 |
| M10 0.47 | DRILL BARGE (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.90 | 0.86 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 |
| M10 0.48 | ALL OTHER BARGES (NON-DREDGING) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.90 | 0.86 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.85 | 0.81 | 0.78 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.63 |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | | 1.04 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.76 | 0.71 | 0.68 | 0.67 | 0.65 | 0.64 |
| M10 0.54 | TUGS, 501 THRU 1,000 HP | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.89 | 0.86 | 0.82 | 0.79 | 0.77 | 0.72 | 0.69 | 0.68 | 0.67 | 0.66 |
| M10 0.55 | TUGS, 1,000 THRU 2,000 HP | | 1.04 | 1.03 | 1.02 | 1.00 | 0.99 | 0.98 | 0.95 | 0.93 | 0.90 | 0.86 | 0.83 | 0.80 | 0.77 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 |
| P10 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | | 1.06 | 1.04 | 1.03 | 1.00 | 0.96 | 0.91 | 0.86 | 0.86 | 0.82 | 0.78 | 0.75 | 0.70 | 0.63 | 0.59 | 0.58 | 0.56 | 0.56 | 0.55 |
| P20 0.00 | PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | | | | | | | | | |
| P20 0.10 | DIESEL | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.68 | 0.64 | 0.63 | 0.62 | 0.62 | 0.61 |
| P20 0.20 | PNEUMATIC (STEAM/AIR) | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| P25 0.00 | PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | | |
| P25 0.10 | DIESEL | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| P25 0.20 | PNEUMATIC (STEAM/AIR) | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| P30 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| P35 0.00 | PIPELAYERS | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.84 | 0.81 | 0.79 | 0.76 | 0.71 | 0.69 | 0.68 | 0.67 | 0.67 | 0.66 |
| P40 0.00 | PLATFORMS & MAN-LIFTS | | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.93 | 0.94 | 0.91 | 0.90 | 0.89 | 0.84 | 0.79 | 0.77 | 0.75 | 0.69 | 0.70 | 0.70 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | Year Purchased New | | | | | | | | | | | | | |
|----------|------|---------------------------------------|---------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 | |
| P45 | 0.00 | PUMPS, GROUT | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | |
| P50 | 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | | | | | | |
| P50 | 0.11 | ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P50 | 0.12 | ELECTRIC DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P50 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P50 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P50 | 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.81 | 0.78 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 | 0.67 | |
| P55 | 0.00 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | | | | | | | |
| P55 | 0.01 | ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P55 | 0.02 | ELECTRIC DRIVE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | |
| P60 | 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | | | | | | | | | |
| P60 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P60 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | |
| P60 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P60 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | |
| P65 | 0.00 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | | | | | | | |
| P65 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P65 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | |
| P65 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 | |
| P65 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | |
| P70 | 0.00 | PUMPS, WATER (For core drills) | | | | | | | | | | | | | | | | | | | |
| P70 | 0.01 | ENGINE DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.78 | 0.74 | 0.68 | 0.65 | 0.64 | 0.62 | 0.62 | 0.61 | |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | | | | Year Purchased New | | | | | | | | | | | | |
|----------|--|-------------------------------|---------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| P70 0.02 | ELECTRIC DRIVE | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.78 | 0.74 | 0.68 | 0.65 | 0.64 | 0.62 | 0.62 | 0.61 |
| R10 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| R15 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.66 | 0.64 | 0.63 | 0.62 | 0.63 |
| R20 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.66 | 0.64 | 0.63 | 0.62 | 0.63 |
| R30 0.00 | ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | | | | | | | | |
| R30 0.01 | PNEUMATIC | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.68 | 0.66 | 0.65 | 0.63 | 0.65 |
| R30 0.02 | SMOOTH DRUM | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.92 | 0.88 | 0.84 | 0.79 | 0.75 | 0.72 | 0.68 | 0.66 | 0.65 | 0.64 | 0.65 |
| R30 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.67 | 0.65 | 0.64 | 0.62 | 0.63 |
| R40 0.00 | ROLLERS, VIBRATORY, TOWED | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.66 | 0.64 | 0.63 | 0.61 | 0.63 |
| R45 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.66 | 0.64 | 0.63 | 0.61 | 0.63 |
| R50 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | | 1.08 | 1.07 | 1.04 | 1.00 | 0.97 | 0.94 | 0.91 | 0.90 | 0.87 | 0.82 | 0.77 | 0.72 | 0.68 | 0.64 | 0.62 | 0.61 | 0.59 | 0.60 |
| R55 0.00 | ROOFING EQUIPMENT | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |
| S10 0.00 | SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | | |
| S10 0.01 | 0 THRU 200 HP | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.81 | 0.76 | 0.73 | 0.71 | 0.68 | 0.65 | 0.62 | 0.61 | 0.60 | 0.60 | 0.58 |
| S10 0.02 | OVER 200 HP | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.80 | 0.75 | 0.72 | 0.70 | 0.67 | 0.63 | 0.61 | 0.60 | 0.59 | 0.58 | 0.57 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.87 | 0.83 | 0.81 | 0.76 | 0.73 | 0.72 | 0.69 | 0.65 | 0.63 | 0.62 | 0.61 | 0.61 | 0.59 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.87 | 0.83 | 0.81 | 0.76 | 0.73 | 0.72 | 0.69 | 0.65 | 0.63 | 0.62 | 0.61 | 0.61 | 0.59 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.83 | 0.81 | 0.76 | 0.73 | 0.72 | 0.68 | 0.65 | 0.62 | 0.61 | 0.60 | 0.60 | 0.59 |
| S30 0.00 | SCREENING & CRUSHING PLANTS | | | | | | | | | | | | | | | | | | | |
| S30 0.10 | CONVEYORS | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| S30 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.79 | 0.74 | 0.71 | 0.70 | 0.69 | 0.69 | 0.68 |
| S30 0.21 | CRUSHERS - CONE | | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.79 | 0.74 | 0.71 | 0.70 | 0.69 | 0.69 | 0.68 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|------|---|---------------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| S30 | 0.22 | CRUSHERS - JAW | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.79 | 0.74 | 0.71 | 0.70 | 0.69 | 0.69 | 0.68 |
| S30 | 0.30 | SCREENING PLANT | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 1.07 | 1.04 | 1.02 | 1.00 | 0.96 | 0.86 | 0.82 | 0.81 | 0.76 | 0.73 | 0.71 | 0.68 | 0.65 | 0.62 | 0.61 | 0.60 | 0.60 | 0.58 |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.84 | 0.81 | 0.79 | 0.75 | 0.71 | 0.69 | 0.67 | 0.67 | 0.66 | 0.65 |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.85 | 0.85 | 0.82 | 0.79 | 0.77 | 0.73 | 0.68 | 0.65 | 0.63 | 0.63 | 0.63 | 0.62 |
| T15 | 0.02 | 226 HP THRU 425 HP | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.90 | 0.86 | 0.86 | 0.83 | 0.80 | 0.78 | 0.74 | 0.70 | 0.67 | 0.66 | 0.66 | 0.65 | 0.64 |
| T15 | 0.03 | OVER 425 HP | 1.03 | 1.02 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.84 | 0.81 | 0.79 | 0.76 | 0.72 | 0.69 | 0.68 | 0.68 | 0.67 | 0.66 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | 0.88 | 0.83 | 0.79 | 0.75 | 0.72 | 0.68 | 0.66 | 0.65 | 0.64 | 0.63 |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.68 | 0.66 | 0.65 | 0.63 | 0.62 |
| T25 | 0.20 | WHEEL | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.94 | 0.92 | 0.91 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.67 | 0.65 | 0.65 | 0.63 | 0.62 |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.63 | 0.64 | 0.63 | 0.61 | 0.60 |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 1.07 | 1.06 | 1.04 | 1.00 | 0.98 | 0.95 | 0.92 | 0.91 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.63 | 0.64 | 0.63 | 0.61 | 0.60 |
| T40 | 0.00 | TRUCK OPTIONS | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| T40 | 0.20 | DUMP BODY, REAR | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T40 | 0.30 | FLATBEDS, WITH SIDES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| T40 | 0.50 | TRANSIT MIXERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.89 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.71 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|------|--|---------------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| T40 | 0.60 | WATER TANKS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.78 | 0.74 | 0.68 | 0.65 | 0.64 | 0.62 | 0.62 | 0.61 |
| T40 | 0.70 | ALL OTHER OPTIONS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.75 | 0.70 | 0.67 | 0.66 | 0.64 | 0.64 | 0.63 |
| T45 | 0.00 | TRUCK TRAILERS | | | | | | | | | | | | | | | | | | |
| T45 | 0.10 | BOTTOM DUMP | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T45 | 0.20 | END DUMP | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T45 | 0.30 | PUP TRAILER | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T45 | 0.41 | LOWBOY, RIGID NECK, DROP DECK | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T45 | 0.50 | FLATBED TRAILER | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T45 | 0.60 | MISCELLANEOUS / UTILITY | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.84 | 0.82 | 0.78 | 0.73 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 |
| T45 | 0.70 | WATER TANKER TRAILER | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.79 | 0.74 | 0.68 | 0.65 | 0.64 | 0.63 | 0.63 | 0.62 |
| T45 | 0.80 | DECONTAMINATION FACILITY | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.78 | 0.74 | 0.68 | 0.65 | 0.64 | 0.62 | 0.62 | 0.61 |
| T45 | 0.90 | TANK TRAILERS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.79 | 0.74 | 0.68 | 0.65 | 0.64 | 0.63 | 0.63 | 0.62 |
| T50 | 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | | | | | | | |
| T50 | 0.01 | 0 THRU 10,000 GVW | 1.07 | 1.05 | 1.02 | 1.00 | 0.97 | 0.90 | 0.87 | 0.85 | 0.80 | 0.77 | 0.74 | 0.70 | 0.66 | 0.64 | 0.63 | 0.62 | 0.62 | 0.63 |
| T50 | 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 1.07 | 1.05 | 1.02 | 1.00 | 0.97 | 0.90 | 0.87 | 0.85 | 0.80 | 0.77 | 0.74 | 0.70 | 0.67 | 0.65 | 0.64 | 0.62 | 0.62 | 0.64 |
| T50 | 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 1.07 | 1.05 | 1.02 | 1.00 | 0.97 | 0.90 | 0.87 | 0.85 | 0.80 | 0.77 | 0.74 | 0.71 | 0.67 | 0.65 | 0.64 | 0.62 | 0.62 | 0.64 |
| T55 | 0.00 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | | | | | | | | |
| T55 | 0.10 | RIGID FRAME | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.83 | 0.76 | 0.72 | 0.71 | 0.70 | 0.68 | 0.67 |
| T55 | 0.20 | ARTICULATED FRAME | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.71 | 0.70 | 0.69 | 0.67 | 0.66 |
| T56 | 0.00 | TRUCKS, OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | | | | | | | | | | | | | | | | | | |
| T56 | 0.10 | PRIME MOVER TRACTORS | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.83 | 0.76 | 0.72 | 0.71 | 0.70 | 0.68 | 0.67 |
| T56 | 0.20 | WAGONS, BOTTOM DUMP | 1.05 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.93 | 0.89 | 0.86 | 0.82 | 0.75 | 0.70 | 0.69 | 0.68 | 0.66 | 0.65 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 4 TYPE OF EQUIPMENT | Life in Years | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|------|--|---------------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 0 2016 | 1 2015 | 2 2014 | 3 2013 | 4 2012 | 5 2011 | 6 2010 | 7 2009 | 8 2008 | 9 2007 | 10 2006 | 11 2005 | 12 2004 | 13 2003 | 14 2002 | 15 2001 | 16 2000 | 17 1999 |
| T56 | 0.30 | WAGONS, REAR DUMP | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.89 | 0.86 | 0.81 | 0.74 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 |
| T57 | 0.00 | TRUCKS, VACUUM | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 |
| T60 | 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.89 | 0.86 | 0.81 | 0.74 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 |
| T65 | 0.00 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | | | | | | |
| T65 | 0.10 | DRIFTING & TUNNELING DRILLS | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.92 | 0.91 | 0.88 | 0.82 | 0.76 | 0.70 | 0.65 | 0.60 | 0.59 | 0.54 | 0.52 | 0.51 |
| T65 | 0.20 | TUNNEL BORING MACHINES | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.90 | 0.87 | 0.83 | 0.81 | 0.77 | 0.72 | 0.70 | 0.68 | 0.67 | 0.67 | 0.66 |
| T65 | 0.30 | PRODUCTION DRILLING RIGS | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.95 | 0.92 | 0.91 | 0.88 | 0.82 | 0.76 | 0.70 | 0.64 | 0.60 | 0.59 | 0.53 | 0.52 | 0.51 |
| T65 | 0.40 | ROADHEADERS & CONTINUOUS MINERS | 1.04 | 1.03 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.89 | 0.86 | 0.83 | 0.81 | 0.77 | 0.72 | 0.69 | 0.68 | 0.67 | 0.67 | 0.66 |
| T65 | 0.50 | ROCK BOLTING EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 |
| T65 | 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.86 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.65 | 0.64 |
| T65 | 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 1.05 | 1.03 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.86 | 0.83 | 0.80 | 0.76 | 0.71 | 0.68 | 0.67 | 0.65 | 0.65 | 0.64 |
| T65 | 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.79 | 0.74 | 0.68 | 0.65 | 0.64 | 0.63 | 0.63 | 0.62 |
| T65 | 0.70 | LOCOMOTIVES | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.86 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.65 | 0.64 |
| T65 | 0.90 | OTHER TUNNELING EQUIPMENT | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.89 | 0.85 | 0.82 | 0.80 | 0.76 | 0.70 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 |
| W10 | 0.00 | WAGONS, BOTTOM DUMP | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.71 | 0.70 | 0.69 | 0.67 | 0.66 |
| W15 | 0.00 | WAGONS, REAR DUMP | 1.05 | 1.04 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.71 | 0.70 | 0.69 | 0.67 | 0.66 |
| W25 | 0.00 | WATER & CO ₂ BLASTERS | | | | | | | | | | | | | | | | | | |
| W25 | 0.10 | LOW PRESSURE, (< 5,000 PSI) | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 |
| W25 | 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 |
| W25 | 0.30 | STEAM CLEANERS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 |
| W25 | 0.40 | CO ₂ BLASTERS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |
| W25 | 0.50 | WET ABRASIVE BLASTING SYSTEM (TURBO) | 1.05 | 1.04 | 1.02 | 1.00 | 0.96 | 0.91 | 0.87 | 0.87 | 0.83 | 0.79 | 0.76 | 0.71 | 0.65 | 0.61 | 0.60 | 0.58 | 0.58 | 0.57 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | REGION 4 | TYPE OF EQUIPMENT | Life in Years | | Year Purchased New | | | | | | | | | | | | | | | |
|----------|----------------------|-------------------|---------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 |
| W30 0.00 | WATER TANKS | | | | | | | | | | | | | | | | | | | |
| W30 0.10 | PORTABLE WITH WHEELS | | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.89 | 0.86 | 0.81 | 0.74 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 |
| W30 0.20 | SKID MOUNTED | | 1.06 | 1.05 | 1.02 | 1.00 | 0.99 | 0.97 | 0.95 | 0.94 | 0.92 | 0.89 | 0.86 | 0.81 | 0.74 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 |
| W35 0.00 | WELDERS | | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.88 | 0.88 | 0.85 | 0.81 | 0.78 | 0.74 | 0.68 | 0.65 | 0.64 | 0.62 | 0.62 | 0.61 |
| W35 0.20 | ELECTRIC DRIVEN | | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.92 | 0.89 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.69 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 |

STANDBY HOURLY RATE CALCULATION FOR OVERAGE EQUIPMENT

EXAMPLE

Assume the following set of given information for the rate calculation example:

1. The unit of equipment is not listed in table 2-1.
2. The equipment is contractor owned.
3. Data for the unit in question:
 - a. Caterpillar front-end wheel loader
 - b. Model 950-G, 4WD, 3.5 CY capacity
 - c. Serial number indicates year of manufacture = 2004
 - d. Actual purchase price in 2004 = \$222,151
(includes all regional discounts, sales tax and freight)
 - e. Horsepower is 180 hp (fuel is Diesel off-road)
 - f. Drive tire (DT) size = 23.50 x 25, 16 ply, L-3 (appendix F tire code ANNB5)
DT cost (2016) = 4 tires x \$3,998/tire = \$15,992
 - g. Weight = 39,200 lbs
4. Use the actual cost data as follows:
 - a. Purchase price (TEV) = \$222,151
 - b. Year of manufacture = 2004
5. Hourly rate is computed as follows:

Figure 3-2. Total Hourly Rate Calculation for Overage Equipment

Example: The piece of equipment shown in this example is based on a known piece of equipment for illustration purposes only.

USE THIS WORKSHEET TO COMPUTE A HOURLY RATE FOR EQUIPMENT THAT IS NOT IN THIS PAMPHLET OR IS IN THE PAMPHLET BUT NOT EQUIVALENT IN SIZE, CAPACITY, HORSEPOWER OR VALUE. (See Appendix A for a blank form)

Region 04

1. EQUIPMENT INFORMATION AND EXPENSE FACTORS

ID No: _____

a. Equipment Specification Data:

| (1) Equipment Description: | Loader, Front-end, Wheel, 4WD, 3.5 CY capacity | | | | |
|---|---|------------------------------|--------------------------------------|-------------------|-----------------|
| (2) Model and Series: | Caterpillar Model 950-G | | | | |
| (3) Present Year or Year of Use: | 2016 | | | | |
| (4) Year Manufactured: | 2004 | | | | |
| (5) Horsepower - Equipment: | 180 | | | | |
| (6) Horsepower - Carrier: | 0 | | | | |
| (7) Fuel | - Equipment : 0=None; 1=electric; 2=gasoline; 3=diesel off-road; 4=diesel on-road; 5=marine gas; 6=marine diesel | Enter number from 0 to 6 ==> | <input type="text" value="3"/> D-off | | |
| | - Carrier : 0=None; 1=electric; 2=gasoline; 3=diesel off-road; 4=diesel on-road; 5=marine gas; 6=marine diesel | Enter number from 0 to 6 ==> | <input type="text" value="0"/> None | | |
| (8) Shipping Weight (cwt): | | | <u>392 cwt</u> | | |
| (9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F) | | | | | |
| | <u>Size/Ply</u> | <u>App F Code</u> | <u>No.</u> | <u>Unit Price</u> | <u>Cost</u> |
| (a) Front (FT): | <u>23.5X25/16Ply</u> | <u>ANNB5</u> | <u>0</u> | <u>\$0</u> | <u>\$0</u> |
| (b) Drive (DT): | | | <u>4</u> | <u>\$3,998</u> | <u>\$15,992</u> |
| (c) Trailing (TT): | | | <u>0</u> | <u>\$0</u> | <u>\$0</u> |
| (d) Total Tire Cost: | | | | | <u>\$15,992</u> |
| (10) List Price + Accessories: [at Year (yr) of Manufacture] | <u>\$0</u> | OR | actual purchase price: | <u>\$222,151</u> | |

USE APPENDIX D TO COMPLETE THE FOLLOWING DATA:

| | | |
|--|------------|----------------|
| b. Category and Subcategory Number: | <u>L40</u> | <u>0.11</u> |
| c. Hourly Expense Calculation Factors: | | |
| (1) Economic Key (EK): | | <u>45</u> |
| (2) Condition (C): A =Average D =Difficult S =Severe | <u>A</u> | <u>AVERAGE</u> |
| (3) Discount Code (DC): B = 7.5% (0.075) or S = 15.0% (0.15) | <u>B</u> | <u>0.075</u> |
| (4) Life in Hours (LIFE): | | <u>9,250</u> |
| (5) Salvage Value Percentage (SLV): | | <u>0.25</u> |
| (6) Fuel Factor - Equipment [Electric (E) Gas (G) Diesel (D)]: | | <u>0.031</u> |
| (7) Fuel Factor - Carrier (E G D): | | <u>0.000</u> |
| (8) Filter, Oil, and Grease (FOG) Factor (E G D): | | <u>0.111</u> |
| (9) Tire Wear Factor: | | |
| (a) Front (FT): | | <u>0.83</u> |
| (b) Drive (DT): | | <u>0.54</u> |
| (c) Trailing (TT): | | <u>0.92</u> |
| (10) Repair Cost Factor (RCF): | | <u>0.70</u> |

Figure 3-2. Total Hourly Rate Calculation for Overage Equipment Page 1 of 6

Region 04

2. EQUIPMENT VALUE

| | | |
|-----|---|--|
| a. | List Price + Accessories: <i>[at Year (yr) of Manufacture]</i> | = \$0 |
| (1) | Discount: (List Price {1.a.(10)}) <u>\$0</u> | + Accessories) x Discount {1.c.(3)} <u>0.075</u> = <u>- [\$0]</u> |
| (2) | Subtotal {2.a.} - {2.a.(1)} | Subtotal = <u>\$0</u> |
| (3) | Sales or Import Tax: Subtotal {2.a.(2)} <u>\$0</u> | x Tax Rate {Appendix B} <u>5.25%</u> = <u>\$0</u> |
| (4) | Total Discounted Price: {Subtotal: 2.a.(2) + 2.a.(3)} | Subtotal = <u><u>\$0</u></u> |
| b. | Freight: Shipping Weight {1.a.(8)} <u>0.000 cwt</u> | x Freight Rate per cwt {Appendix B} <u>\$0.00 /cwt</u> = <u>\$0</u> |
| c. | TOTAL EQUIPMENT VALUE (TEV): {2.a.(4)} + {2.b} OR actual purchase price {1a.(10)} (See chapter 3 for used and overage equipment rate adjustments.) | TOTAL[2.]: = <u><u>\$222,151</u></u> |

3. DEPRECIATION PERIOD (N)

| | | | | |
|----|--------------------------------------|---|---|-------------------|
| a. | LIFE {1.c.(4)} <u>9,250 hr</u> | / | Working Hours Per Year (WHPY) {Appendix B} <u>1,260 hr/yr</u> | = N |
| | | | | = <u>7.34 yrs</u> |

4. OWNERSHIP COST

| | | | | | | | | | | |
|-----|--|---|---|----------------|--------------------------------------|---|---|---|---------------------------------------|----------------------|
| a. | Depreciation | | | | | | | | | |
| (1) | Tire Cost Index (TCI): | | | | | | | | | |
| | Tire Index, Year of Manufacture, {1.a.(4)} Appendix E, EK=100 | / | Tire Index, Present Year or Year of Use {1.a.(3)} Appendix E, EK=100 | = TCI | | | | | | |
| | <u>2759</u> | / | <u>3860</u> | = <u>0.715</u> | | | | | | |
| (2) | [TEV {2.c.}] <u>[\$222,151</u> | x | (1.0-SLV {1.c.(5)} <u>(1.0-0.25</u>) | - | (TCI {4.a.(1)} <u>(0.715</u>) | x | Tire Cost)] {1.a.(9)(d)} <u>(\$15,992)</u> | / | LIFE {1.c.(4)} <u>9,250 /hr</u> | = <u>\$16.78 /hr</u> |

Figure 3-2. Total Hourly Rate Calculation for Overage Equipment Page 2 of 6

Region 04

4. OWNERSHIP COST (Continued)

b. Facilities Capital Cost of Money (FCCM):

| | | | | | | | |
|-----|---|---|-------------------------|------|-----------------------|------------------------------|--------------|
| (1) | $[(N - 1.0) \times (1.0 + SLV)]$ | + | 2.0] | / | $(2.0 \times N)$ | Avg Value Factor (AVF) | |
| | <small>{3.a.}</small> | | <small>{1.c.5.}</small> | | <small>{3.a.}</small> | | |
| | <u>[(7.34 yr - 1.0) × (1.0 + 0.25)]</u> | | + | 2.0] | / | <u>(2.0 × 7.34 yr)</u> | <u>0.676</u> |

| | | | | | | |
|-----|---|--------------------------|-----------------------------|---|--------------------|-------------------|
| (2) | $TEV \times AVF \times \frac{\text{Adjusted Cost-of-Money}}{\text{WHPY}}$ | WHPY {Appendix B} | | | | |
| | <small>{2.c.}</small> | <small>{4.b.(1)}</small> | <small>{Appendix B}</small> | | | |
| | <u>\$222,151</u> | <u>0.676</u> | <u>1.70%</u> | / | <u>1,260 hr/yr</u> | <u>\$2.03 /hr</u> |

c. **TOTAL HOURLY OWNERSHIP COST:**

$$\{4.a.(2)\} + \{4.b.(2)\} = \text{TOTAL [4.]} = \underline{\$18.81 /hr}$$

5. OPERATING COST

a. Fuel Costs:

(1) Equipment:

| | | | | | |
|--------------------------|---|--------------------------|---|---|-------------------|
| Fuel Factor | x | Horsepower (hp) | x | Fuel Cost per Gallon (gal) {Appendix B} | |
| <small>{1.c.(6)}</small> | | <small>{1.a.(5)}</small> | | | |
| <u>0.000</u> | x | <u>0 hp</u> | x | <u>\$0.00 /gal</u> | <u>\$0.00 /hr</u> |

(2) Carrier:

| | | | | | |
|--------------------------|---|--------------------------|---|-----------------------------------|-------------------|
| Fuel Factor | x | hp | x | Fuel Cost per gal {Appendix B} | |
| <small>{1.c.(7)}</small> | | <small>{1.a.(6)}</small> | | | |
| <u>0.000</u> | x | <u>0 hp</u> | x | <u>\$0.00 /gal</u> | <u>\$0.00 /hr</u> |

(3) Total Hourly Fuel Cost:

$$\{5.a.(1)\} + \{5.a.(2)\} = \text{Total [5.a.]} = \underline{\$0.00 /hr}$$

b. FOG Cost:

(1) Equipment:

| | | | | | |
|--------------------------|---|-------------------------------------|---|---|-------------------|
| FOG Factor | x | $\text{Equipment Hourly Fuel Cost}$ | x | Labor Adjustment Factor (LAF) {Appendix B} | |
| <small>{1.c.(8)}</small> | | <small>{5.a.(1)}</small> | | | |
| <u>0.000</u> | x | <u>\$0.00 /hr</u> | x | <u>0.00</u> | <u>\$0.00 /hr</u> |

Figure 3-2. Total Hourly Rate Calculation for Overage Equipment **Page 3 of 6**

Region 04

5. OPERATING COST (Continued)

(2) Carrier:

$$\begin{array}{ccccc}
 & & \text{Carrier Hourly} & & \\
 \text{FOG Factor} & \times & \text{Fuel Cost} & \times & \text{LAF} \\
 \{1.c.(8)\} & & \{5.a.(2)\} & & \{\text{Appendix B}\} \\
 \underline{0.000} & \times & \underline{\$0.00 /hr} & \times & \underline{0.00} \\
 & & & & = \underline{\$0.00 /hr}
 \end{array}$$

(3) Total Hourly FOG Cost:
 $\{5.b.(1)\} + \{5.b.(2)\}$

$$\text{Total [5.b.]} = \underline{\$0.00 /hr}$$

c. Alternative Fuel/FOG Cost:

(See chapter 2, paragraph 2.24.d. for guidance on when to use.)

$$\text{Total [5.c.]} = \underline{\$0.00 hr}$$

d. Repair Cost:

(1) Economic Adjustment Factor (EAF):
 EK is from {1.c.(1)}

$$\begin{array}{ccccc}
 \text{Economic Index, } & / & \text{Economic Index, } & & \\
 \text{Present Year or} & & \text{Year of Manufacture,} & & \\
 \text{Year of} & & \{1.a.(4)\} & & \\
 \text{Appendix E,} & & \text{Appendix E, EK}=\{1.c.(1)\} & & \\
 \text{EK}=\{1.c.(1)\} & & & & \\
 \underline{0000} & / & \underline{0000} & & = \underline{0.000} \\
 (\text{See table 3-1 for last year of economic life })
 \end{array}$$

(2) Repair Factor (RF):

$$\begin{array}{ccccc}
 \text{RCF} & \times & \text{EAF} & \times & \text{LAF} \\
 \{1.c.(10)\} & & \{5.d.(1)\} & & \{\text{Appendix B}\} \\
 \underline{0.00} & \times & \underline{0.000} & \times & \underline{0.00} \\
 & & & & = \underline{0.000}
 \end{array}$$

(3) Repair Cost:

$$\begin{array}{ccccccc}
 [\text{TEV} & - & (\text{TCI} & \times & \text{Tire Cost})] & \times & \text{RF} / \text{LIFE} \\
 \{2.c.\} & - & \{4.a.(1)\} & & \{1.a.(9)(d)\} & \{5.d.(2)\} & \{1.c.(4)\} \\
 \underline{\$0} & - & \underline{(0.000)} & \times & \underline{\$0}] & \times & \underline{0.000} / \underline{0}
 \end{array}$$

(4) Total Hourly Repair Cost:

$$\text{Total [5.d.]} = \underline{\$0.00 /hr}$$

Figure 3-2. Total Hourly Rate Calculation for Overage Equipment **Page 4 of 6**

Region 04

5. OPERATING COST (Continued)

e. Tire Wear Cost: (*Use current price levels. See Appendix F.*)

(1) Front Tires (FT):

$$\begin{array}{rcl} (1.5 \times \text{FT Cost}) & / & (1.8 \times \text{FT Wear Factor}) \\ \{1.a.(9)(a)\} & & \{1.c.(9)(a)\} \\ \underline{(1.5 \times \$0)} & / & \underline{(1.8 \times 0.00)} \\ & & \end{array} \quad \begin{array}{l} \times \quad \text{Maximum Tire Life Hours} \\ \qquad \qquad \qquad \{ \text{Appendix F} \} \\ \qquad \qquad \qquad 0 \text{ hrs} \end{array} \quad = \underline{\hspace{2cm}} \quad \$0.00/\text{hr}$$

(2) Drive Tires (DT):

$$\begin{array}{rcl} (1.5 \times \text{DT Cost}) & / & (1.8 \times \text{DT Wear Factor}) \\ \{1.a.(9)(b)\} & & \{1.c.(9)(b)\} \\ \underline{(1.5 \times (\$0))} & / & \underline{(1.8 \times 0.00)} \\ & & \end{array} \quad \begin{array}{l} \times \quad \text{Maximum Tire Life Hours} \\ \qquad \qquad \qquad \{ \text{Appendix F} \} \\ \qquad \qquad \qquad 0 \text{ hrs} \end{array} \quad = \underline{\hspace{2cm}} \quad \$0.00/\text{hr}$$

(3) Trailing Tires (TT):

$$\begin{array}{rcl} (1.5 \times \text{TT Cost}) & / & (1.8 \times \text{TT Wear Factor}) \\ \{1.a.(9)(c)\} & & \{1.c.(9)(c)\} \\ \underline{(1.5 \times \$0)} & / & \underline{(1.8 \times 0.00)} \\ & & \end{array} \quad \begin{array}{l} \times \quad \text{Maximum Tire Life Hours} \\ \qquad \qquad \qquad \{ \text{Appendix F} \} \\ \qquad \qquad \qquad 0 \text{ hr} \end{array} \quad = \underline{\hspace{2cm}} \quad \$0.00/\text{hr}$$

(4) Total Tire Wear Cost:
Sum {5.e.(1)} through {5.e.(3)}

Total [5.e.] = **\$0.00/hr**

f. Tire Repair Cost:

$$\begin{array}{rcl} \text{Total Tire Wear Cost} & & \\ \text{per Hour} & \times & (0.15 \times \text{LAF}) \\ \{5.e.(4)\} & & \{ \text{Appendix B} \} \\ \underline{\$0.00/\text{hr}} & \times & \underline{(0.15 \times 0.00)} \\ & & \end{array} \quad \begin{array}{l} \\ \\ \end{array} \quad \begin{array}{l} \text{Total [5.f.]} \\ = \end{array} \quad \underline{\hspace{2cm}} \quad \$0.00/\text{hr}$$

g. **TOTAL HOURLY OPERATING COST:**
Sum {5.a.} through {5.f.}

Total [5.] = **\$0.00/hr**

Region 04

6. HOURLY RATES

- a. Total Hourly Rate: [*based on 40 hours per week (wk)*]

$$\begin{array}{l} \text{Ownership Cost} + \text{Operating Cost} \\ \{4.c.\} \qquad \qquad \qquad \{5.g.\} \end{array}$$

$$\underline{\$0.00 /hr} + \underline{\$0.00 /hr}$$

$$= \underline{\$0.00 /hr}$$

See Figure 3-1 for hourly rate calculations for overage equipment

- b. Other Work Shifts Hourly Rate:

(Refer to Chapter 3, *Adjustments to Rates*, for methodology.)

$$\begin{array}{l} \text{Depreciation} + (\text{FCCM} \times 40 \text{ hr/wk}) / \text{Work hr/wk} + \text{Operating} \\ \{4.a.(2)\} \qquad \{4.b.(2)\} \qquad \qquad \qquad \text{Cost} \\ \qquad \qquad \qquad \qquad \qquad \text{example: } 60 \text{ hr/wk} \qquad \{5.g.\} \end{array}$$

$$\underline{\$0.00 /hr} + \underline{\$0.00 /hr} \times \underline{40 \text{ hr/wk}} / \underline{60 \text{ hr/wk}} + \underline{\$0.00 /hr}$$

$$= \underline{\$0.00 /hr}$$

- c. Standby Hourly Rate:

(Refer to Chapter 2, paragraph 2.28 for guidance on use.)

$$\begin{array}{l} (\text{Depreciation} \times 0.50) + \text{FCCM} \\ \{4.a.(2)\} \qquad \qquad \qquad \{4.b.(2)\} \end{array}$$

$$\underline{(\$16.78 /hr)} \times 0.50 + \underline{\$2.03 /hr}$$

$$= \underline{\$10.42 /hr}$$

(Refer to Chapter 3, paragraph 3.12 for guidance for overage equipment.)

See Chapter 3 if rate adjustments are necessary.

Figure 3-2. Total Hourly Rate Calculation for Overage Equipment **Page 6 of 6**

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CHAPTER 4

Methodology for Dredging Plant and Marine Equipment

SECTION I. GENERAL

4.1 Contents. This chapter contains the methodology used to compute ownership and operating rates for dredging plant and permanent floating plant, such as floating pile-driving equipment. Dredging plant is marine equipment used for dredging operations for the majority of its life, or designed and built for marine/dredging use.

4.2 General.

a. The ownership and operating rates provided in table 2-1, category M-10, are based on the methodology in chapter 2 for non-dredging equipment. However, the cost data (Acquisition Cost, Horsepower, and Fuel Type) may be used for calculation of dredging plant and marine equipment rates, provided they are calculated in accordance with the methodology in this chapter.

b. Table 4-1 shows ownership and operating cost factors for various types of dredging plant. When a type of plant is not listed, the cost is estimated by using the factors listed in this table for a similar type of plant.

c. The methodology for determining operating rates for hopper dredges was omitted from this pamphlet due to the limited number of hopper dredges and the complexity of the methods used to calculate the rates. Further information can be found in Engineer Regulation (ER) 1110-2-1302, Engineering and Design, Civil Works Cost Engineering, and in Engineer Technical Letter (ETL) 1110-2-573 Engineering and Design: Construction Cost Estimating Guide for Civil Works. These documents can be viewed or downloaded at the official HQUSACE documents webpage at <http://www.usace.army.mil/> by selecting “Library” and selecting “Publications.” Select “USACE Publications” in the title bar. A dropdown menu will appear. From the dropdown menu, select “Engineer Regulations,” or “Engineer Technical Letters.” The methodology for calculating ownership cost is in section V of this chapter.

d. For mechanical dredges, the cost of the bucket is typically included in the plant value; therefore, no additional allowance should be made for ownership cost. If the bucket cost is not included in the plant value, the bucket may be treated as a separate unit of equipment.

SECTION II. ANNUAL USE

4.3 Time Available to Dredge. The number of months available per calendar year (yr) for dredging shall be based on the work time available to dredge, excluding downtime

for major repairs, work in dry dock, bad weather, and environmental restrictions. Figure 4-1 depicts months available for dredging, including mobilization and demobilization, based on historic data collected by the U.S. Army Corps of Engineers' regional dredge estimating teams. The data in figure 4-1 shall be used for computing the ownership costs, unless specified otherwise in the contract documents.

| AVAILABLE TIME TO DREDGE BY REGION (In Months) | | | |
|---|-----------------------------------|---------------|---------------|
| <u>Region</u> | <u>Type of Dredging Operation</u> | | |
| | <u>Pipeline</u> | <u>Bucket</u> | <u>Hopper</u> |
| Atlantic Coast and tributaries | 9 | 10 | 10 |
| Gulf Coast, Lower Mississippi, and Tributaries | 10 | 10 | 11 |
| Great Lakes, Upper Mississippi, and Tributaries | 8 | 8 | 8 |
| West Coast and Tributaries | 9 | 9 | 9 |

Figure 4-1. Months Available by Region

SECTION III. LIFE

4.4 Life. The life for determining ownership and operating costs is defined as follows:

- a. The Useful Life is expressed in years in table 4-1. It is the economic life of the equipment and is used to develop ownership rates for various types of dredging plant.
- b. The Physical Life is expressed in hours (hrs) in table 4-1. It is the life of the unit based on effective working time and is used to develop operating rates for various types of dredging plant.

4.5 Annual Hours Available. The annual hours available to dredge can be established for each type of plant based on the months available and the estimated effective monthly hours worked. Dredging time is defined as effective plus non-effective working time. "Effective working time" is defined as time during the dredging operation when actual production is taking place. "Non-effective working time" is defined as time during the dredging operation when the dredge is operational but no production is taking place.

For further information see ER 1110-2-1302, Engineering and Design, Civil Works Cost Engineering. The total annual hours available can be expressed by formula, as follows:

$$\text{Available Hours per yr} = \text{Months Available/yr} \times \text{Effective Hours/Month}$$

Where:

- a. Months Available/yr is found in figure 4-1.
- b. Effective Hours/Month is the effective working time.

SECTION IV. SALVAGE VALUE

4.6 Salvage Value (SLV). The salvage value, expressed as a decimal, is shown in table 4-1 for different types of plant.

SECTION V. OWNERSHIP COST

4.7 Ownership Cost. Ownership cost is calculated based on a percent of plant value. Plant value is the acquisition cost plus the cost of any initial capital improvements. The value of initial capital improvements is based on those betterments, which were made within one year of purchase. Capital improvements do not include any replacement or repair work. Repairs or replacements are an operating cost and are covered in the repair cost allowance. Capital improvements are considered betterments, where the plant has been improved (e.g., adding radar or upgrading engines). (Note: Only the cost difference between replacement of existing similar engines and actual cost for upgrading engines should be considered as capital improvement). For capital improvements not made within the first year after the initial acquisition, see section VIII.

a. The ownership cost is determined from the plant value and is the total expense rate based on depreciation and CMR. When cost or pricing data is available, the actual acquisition price shall be used. Otherwise, the value of a similar piece of plant is used and, if necessary, adjusted so that capacity, size, and horsepower are properly considered.

b. Ownership rate is determined on a yearly basis and is distributed over a monthly basis. The monthly rate is calculated based on the available use months by using the following formula:

$$\text{Monthly Ownership Cost} = \frac{\text{Plant Value} \times (\text{Yearly DEPR Percent} + \text{Yearly CMR Percent})}{\text{Available Use Months}}$$

Where:

- (1) Plant Value = Acquisition price plus initial capital improvements.
- (2) Yearly DEPR Percent = Ownership percent per year for depreciation.
- (3) Yearly CMR Percent = Ownership percent per year for cost of money rate.
- (4) Available Use Months is from figure 4-1.

4.8 Depreciation Factor. Depreciation is computed using the straight-line method. The depreciable value is the acquisition cost, plus initial capital improvements, less estimated salvage. The basis for determining the yearly percentage factor for depreciation is expressed by the following formula:

$$\text{Yearly DEPR Percent} = (1 - \text{SLV}) / N$$

Where:

- a. N = Useful Life from table 4-1.
- b. SLV = Salvage Value from table 4-1.

4.9 The Cost of Money Rate (CMR) Factor. The CMR factor is calculated on a yearly basis and is expressed here as an annual percentage factor. The CMR used in the calculation is the rate in effect at the time the work was performed. This formula is expressed as follows:

$$\text{Yearly CMR Percent} = \frac{[(N - 1)(1 + \text{SLV}) + 2](\text{discounted CMR})}{2N}$$

Where:

- a. N = Useful Life from table 4-1.
- b. SLV = Salvage Value from table 4-1.
- c. Discounted CMR = cost of money rate (appendix I) reduced by 25 percent for overhead and profit allowance.

4.10 Other Ownership Elements. Taxes, storage (lay up), and insurance are considered indirect (overhead) costs. These costs are not included in ownership rates since they vary by geographic area and with individual contractors. These costs are

considered as overhead costs and are, therefore, not included here so they will not be duplicated in the overhead in the estimate or submitted proposal.

SECTION VI. OPERATING FACTORS

4.11 Hourly Operating Cost. Operating cost is based on effective working time. Dredging plant operating factors are shown in table 4-1. These factors, which are described in paragraph 4.12, are not intended to replace historical data, but shall be used when historical data is limited or nonexistent.

4.12 Prime and Secondary Power. Prime power refers to the primary operating engine for the dredge or other piece of attendant plant. Secondary power refers to all other secondary engines or power plants. If more than one secondary power engine is present, the horsepower is totaled. Fuel consumption factors are prepared on the same basis as in chapter 2. Hourly fuel cost is calculated separately for the primary and secondary engines. The formula used is expressed as follows:

$$\text{Hourly Fuel Cost} = \text{Horsepower} \times \text{Fuel Cost/Gallon} \times \text{Engine Fuel Factor}$$

Where:

- a. Horsepower is the engine's rated horsepower.
- b. Fuel Cost/Gallon is based on values shown in appendix B. See chapter 3 for fuel cost adjustments.
- c. Fuel Factor - Gas or Diesel Fuel. The fuel factor is listed in table 4-1 for the primary and secondary engines.

4.13 Water, Lube, and Supplies (WLS). This factor is similar to the filters, oil, and grease (FOG) factor described in chapter 2. This item is computed as either a percentage of the hourly fuel costs or, if the type of plant has no engine, a reasonable hourly cost should be included. This factor does not include an allowance for the oiler normally assigned to the dredge or other piece of dredging plant. The formula is expressed as follows:

$$\text{Water, Lube, and Supply Cost} = \text{WLS factor} \times \text{Hourly Fuel Cost}$$

Where:

- a. WLS Factor is obtained from table 4-1.
- b. Hourly Fuel Cost is calculated as shown in paragraph 4-12.

4.14 Repair Factor (RPR). This factor includes an allowance for all major and minor repairs and is similar to the maintenance and repair cost factor (RCF) described in chapter 2. The economic adjustment factor (EAF) and the labor adjustment factor (LAF) are required to develop this cost. The formula is expressed as follows:

$$\text{Repair Cost} = \frac{(\text{Total Plant Value} \times \text{RPR} \times \text{EAF} \times \text{LAF})}{\text{Life in hr}}$$

Where:

- a. Total Plant Value = Acquisition price plus initial capital improvements.
- b. RPR = Repair Factor from table 4-1.
- c. EAF = Economic Index (present year)/Economic Index (acquisition year).
- d. LAF = Labor Adjustment Factor from appendix B.
- e. Life in hrs = Physical Life from table 4-1.

It should be noted that the repair allowance does not include the following estimated additive items:

- f. Excessive dredge wear for parts (e.g., cutter teeth and main suction pumps) is not included due to the wide variety of materials being dredged. The original cost of the bucket and normal wear are typically included in the plant value covered in the plant rate. Excessive bucket wear for mechanical dredges is estimated as an additive item or treated as a separate unit of equipment from table 2-1. Allowances for wear due to abrasive material should only be included as an additive item if it is warranted and is not considered elsewhere in the estimate.
- g. Dry docking costs, which represent an allowance for rental of the dry dock facility, are not included because they vary greatly depending on the facilities available. Repairs incurred while in dry dock, which occur periodically, are in the repairs. Dry docking costs will be allocated on an average annual basis over the years between such occurrences, in accordance with cost accounting standards and generally accepted accounting principles and practices.
- h. There is no predetermined allowance in the dredging plant methodology for jobsite yard costs, mobilization, or demobilization. All of these cost elements must be separately estimated to match each project's construction conditions.

SECTION VII. STANDBY

4.15 Standby Rate. The standby rate is computed by allowing the full ownership cost. In addition to the standby ownership rate, it may be necessary on dredges to include operating costs. Examples of allowable operating costs are as follows: Minimum crew; a generator fuel allowance to account for operation of a diesel engine generator for power to operate pumps; navigation lights; etc.

a. Standby is a directed delay by the Government and will not be allowed during periods when the plant would have otherwise been in idle status, such as non-effective working time. Since ownership is calculated based on life in years computed monthly, standby should be paid only when additional time has been directed by the Government. Standby is to be paid on a 24-hour basis.

b. Standby for pipeline and accessories shall be based on pumping mud in determining values from table 4-1.

SECTION VIII. NEGOTIATED PROCUREMENT

4.16 Rates. The calculated dredging plant rates based on the methodology presented in this chapter should be used for preparing a reasonable contract estimate. When adequate cost or pricing data is available and submitted by the contractor for negotiated procurement, the rates may be adjusted in accordance with the methodology in this chapter. Cost or pricing data is defined in FAR 15.4, Contract Pricing.

4.17 Allowance for Additional Capital Improvements. Allowance for additional capital improvements shall be calculated in accordance with generally accepted accounting principles. When adequate cost or pricing data is not available, factors for a similar unit of equipment may be used for determining the ownership rate for overage equipment and plant.

4.18 Overage Plant. When the plant has exceeded the useful life given in table 4-1, it is considered overage. The ownership rate for overage plant should be determined with the same methodology described in section V.

a. When actual cost or pricing data is available to adjust the operating rate, the data must be accurate, complete, and established in accordance with generally accepted accounting principles.

b. When actual cost or pricing data is not available, the total hourly operating rate for overage equipment shall be computed on the basis that the equipment is equal to the useful life as shown in table 4-1.

4.19 Dredging and Marine Plant Purchased Used. For plant purchased used, the ownership and operating rate must be calculated on an individual case, due to the varying conditions. When actual cost or pricing data is not available, the methodology from this chapter shall be used and values for life and salvage from table 4-1 can be adjusted. Support for adjustments can be obtained by calling the Chief, Cost Engineering Branch, Engineering and Construction Division, Walla Walla District, U.S. Army Corps of Engineers (CENWW-EC-X), telephone 509-527-7511 or 509-527-7510.

SECTION IX. RATE CALCULATION EXAMPLE

4.20 Rate Calculation Example. The example shown in figure 4-2 illustrates the use of figure 4-1, table 4-1, and the regional data from appendix B to generate a rate. For illustration purposes, assume that a 24-inch hydraulic dredge (pipeline) was purchased new in 1997 for \$4,500,000, including tax and delivery, and there were no initial capital improvements. This example uses 500 hours per month and a discounted CMR of 1.50 percent.

Table 4-1. Dredging Plant Cost Factors

| Type of Plant | Useful | Physical | Salvage | Prime Engine | | | Secondary Engine | | | WLS | | RPR |
|--|--------|----------|---------|--------------|-------|-------|------------------|-------|-------|-----|----|-----|
| | Life | Life | Value | HPF | G | D | HPF | G | D | G | D | % |
| | YRS | HR | SLV | | | | | | | | | |
| <u>Hydraulic Dredges - Pipeline</u> (Cutterhead or Dustpan) (Based on Discharge Diameter) (Non Truckable) | | | | | | | | | | | | |
| 8 inch and under | 5 | 10,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 70 |
| 9 inch through 10 inch | 6 | 12,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 80 |
| 11 inch through 12 inch | 8 | 16,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 90 |
| 13 inch through 15 inch | 15 | 40,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 100 |
| 16 inch through 17 inch | 20 | 80,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 110 |
| 18 inch through 20 inch | 20 | 100,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 120 |
| 21 inch through 22 inch | 25 | 120,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 130 |
| 23 inch through 24 inch | 25 | 130,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 130 |
| 25 inch through 29 inch | 30 | 135,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 130 |
| 30 inch or larger | 30 | 135,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 20 | 22 | 130 |
| <u>Barge Mounted Booster Pump</u> (For Pipeline Dredges) | | | | | | | | | | | | |
| 16 inch through 17 inch | 20 | 80,000 | 0.05 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 22 | 24 | 80 |
| 18 inch through 20 inch | 20 | 100,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 22 | 24 | 90 |
| 21 inch through 22 inch | 25 | 120,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 22 | 24 | 100 |
| 23 inch through 24 inch | 25 | 130,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 22 | 24 | 110 |
| 25 inch through 29 inch | 30 | 135,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 22 | 24 | 120 |
| 30 inch or larger | 30 | 135,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 22 | 24 | 120 |

SLV = Salvage Value

WLS = Water, Lube, and Supplies

HPF = Horsepower Factor

RPR = Repairs

G = Gas

D = Diesel

Table 4-1. Dredging Plant Cost Factors (Continued)

| Type of Plant | Useful | Physical | Salvage | Prime Engine | | | Secondary Engine | | | WLS | | RPR % |
|--|--------|----------|---------|--------------|-------|-------|------------------|-------|-------|-----|----|-------|
| | Life | Life | Value | HPF | G | D | HPF | G | D | G | D | |
| | YRS | HR | SLV | | | | | | | | | |
| <u>Mechanical Dredges (Large)¹</u> | | | | | | | | | | | | |
| Clamshell - under 5 cy | 8 | 18,000 | 0.05 | 70 | 0.072 | 0.039 | 60 | 0.062 | 0.033 | 22 | 24 | 90 |
| Clamshell - 6 cy to 10 cy | 13 | 26,000 | 0.05 | 70 | 0.072 | 0.039 | 60 | 0.062 | 0.033 | 22 | 24 | 100 |
| Clamshell - 11 cy to 15 cy | 20 | 40,000 | 0.05 | 70 | 0.072 | 0.039 | 60 | 0.062 | 0.033 | 22 | 24 | 110 |
| Clamshell - 16 cy to 20 cy | 25 | 75,000 | 0.05 | 70 | 0.072 | 0.039 | 60 | 0.062 | 0.033 | 22 | 24 | 120 |
| Clamshell - 20 cy and over | 30 | 90,000 | 0.05 | 70 | 0.072 | 0.039 | 60 | 0.062 | 0.033 | 22 | 24 | 130 |
| All Other Types (Bucket or Dipper) | 25 | 90,000 | 0.10 | 70 | 0.072 | 0.039 | 60 | 0.062 | 0.033 | 22 | 24 | 120 |
| <u>Barge Mounted Crane with Clamshell Bucket</u> | | | | | | | | | | | | |
| <u>Non Dredging</u> | | | | | | | | | | | | |
| Clamshell - under 6 cy | 9 | 18,000 | 0.05 | 55 | 0.055 | 0.031 | 45 | 0.045 | 0.025 | 22 | 24 | 85 |
| Clamshell - 6 cy to 10 cy | 14 | 28,000 | 0.05 | 55 | 0.055 | 0.031 | 45 | 0.045 | 0.025 | 22 | 24 | 95 |
| Clamshell - 11 cy to 15 cy | 21 | 42,000 | 0.05 | 55 | 0.055 | 0.031 | 45 | 0.045 | 0.025 | 22 | 24 | 105 |
| <u>Barge Mounted Lifting Crane</u> | | | | | | | | | | | | |
| 25 Ton to 75 Ton, 45' Boom | 9 | 18,000 | 0.05 | 40 | 0.040 | 0.022 | 30 | 0.030 | 0.017 | 22 | 24 | 80 |
| 75 Ton to 125 Ton, 60' Boom | 14 | 28,000 | 0.05 | 40 | 0.040 | 0.022 | 30 | 0.030 | 0.017 | 22 | 24 | 90 |
| Over 125 Ton, over 60' Boom | 21 | 42,000 | 0.05 | 40 | 0.040 | 0.022 | 30 | 0.030 | 0.017 | 22 | 24 | 100 |
| <u>Barges (Used with Dredging)</u> | | | | | | | | | | | | |
| Fuel or Water | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 60 |
| Equipment or Work | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 60 |
| Derrick | 20 | 90,000 | 0.10 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 70 |
| Anchor | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 60 |
| Mooring Barge | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 60 |
| Dump Scow | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 70 |

SLV = Salvage Value

HPF = Horsepower Factor

G = Gas

D = Diesel

WLS = Water, Lube, and Supplies

RPR = Repairs

¹ Sized by the largest bucket used (normally a mud bucket)

Table 4-1. Dredging Plant Cost Factors (Continued)

| Type of Plant | Useful | Physical | Salvage | Prime Engine | | | Secondary Engine | | | WLS | | RPR |
|---|--------|----------|---------|--------------|-------|-------|------------------|-------|-------|-----|----|-----|
| | Life | Life | Value | Fuel Factor | | | Fuel Factor | | | % | D | % |
| | YRS | HR | SLV | HPF | G | D | HPF | G | D | G | D | |
| Boats – See Category M10 | | | | | | | | | | | | |
| <u>Tugs and Tenders</u> (Used with Dredging) | | | | | | | | | | | | |
| Under 500 hp | 8 | 18,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 32 | 38 | 80 |
| 501 through 1,000 hp | 10 | 40,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 32 | 38 | 90 |
| 1,001 through 2,000 hp | 15 | 55,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 32 | 38 | 100 |
| 2,001 through 3,000 hp | 20 | 100,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 32 | 38 | 110 |
| Over 3,000 hp | 25 | 120,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 32 | 38 | 120 |
| <u>Pipeline and Accessories</u> (Inland Environment) | | | | | | | | | | | | |
| <u>Metal Pipeline (under 20 inch)</u> | | | | | | | | | | | | |
| Pumping Mud | 2 | 9,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Sand | 1 | 4,500 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.3 | 1,500 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Joints | 3 | 12,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 30 |
| Pontoons/Floats | 12 | 60,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| <u>Metal Pipeline (20 inch and Larger)</u> | | | | | | | | | | | | |
| Pumping Mud | 3 | 12,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Sand | 1.5 | 6,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.5 | 2,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Joints | 3 | 12,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 30 |
| Pontoons/Floats | 12 | 60,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |

SLV = Salvage Value

HPF = Horsepower Factor

G = Gas

D = Diesel

WLS = Water, Lube, and Supplies

RPR = Repairs

Table 4-1. Dredging Plant Cost Factors (Continued)

| Type of Plant | Useful | Physical | Salvage | Prime Engine | | | Secondary Engine | | | WLS | | RPR |
|--|--------|----------|---------|--------------|-------|-------|------------------|-------|-------|-----|---|-----|
| | Life | Life | Value | HPF | G | D | HPF | G | D | G | D | % |
| | YRS | HR | SLV | | | | | | | | | |
| <u>Pipeline and Accessories</u> (Ocean Environment) | | | | | | | | | | | | |
| <u>Metal Pipeline (All sizes)</u> | | | | | | | | | | | | |
| Pumping Mud | 2 | 9,000 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Sand | 1 | 4,500 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.3 | 1,500 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Joints | 1 | 4,500 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pontoons/Floats | 2 | 9,000 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| <u>Metal Pipeline On-Shore</u> | | | | | | | | | | | | |
| Pumping Mud | 3 | 12,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Sand | 1.5 | 6,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.5 | 2,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Standby Calculation: Standby for pipeline and accessories shall be based on pumping mud. | | | | | | | | | | | | |

SLV = Salvage Value

WLS = Water, Lube, and Supplies

HPF = Horsepower Factor

RPR = Repairs

G = Gas

D = Diesel

Example: The piece of equipment shown is based on a known piece of equipment for illustration purposes only.

USE THIS WORKSHEET TO COMPUTE A MONTHLY AND HOURLY RATE FOR MARINE AND DREDGING PLANT

Region 04

ID No: _____

1. MARINE AND DREDGING PLANT INFORMATION AND EXPENSE FACTORS

a. Plant Pertinent Data:

| | |
|--|-------------------------------------|
| (1) Equipment Description: | 24" Hydraulic Cutter Suction Dredge |
| (2) Model and Series: | Ellicott Super Dragon |
| (3) Present Year or Year of Use: | 2016 |
| (4) Acquisition Year: | 1999 |
| (5) Horsepower (hp) - Prime | 3,730 hp |
| (6) Horsepower (hp) - Secondary Engine | |
| (a) Electrical Generators | 200 hp |
| (b) Hydraulic System | 1,325 hp |
| (c) Cutter Head Drive | 750 hp |
| (d) Hydraulic Water Jet | 200 hp |
| | Total Secondary hp |
| | 2,475 hp |
| (7) Plant Value: | |
| (a) Acquisition Costs | \$4,500,000 |
| (b) Capital Improvements | \$0 |
| | Total Plant Value |
| | \$4,500,000 |
| (8) Hours Worked per Month (Effective Time) | 500 hrs/mo |
| (9) Additive Item(s) (Monthly Costs To be Estimated) | |
| (a) Excessive Dredge Wear (Gravel) | \$8,000 /mo |
| (b) | \$0 /mo |
| (c) | \$0 /mo |
| (d) | \$0 /mo |
| (e) | \$0 /mo |
| | Total Additive Items |
| | \$8,000 /mo |

b. Appendix B, Area Factors Data

| | |
|---|---------------|
| (1) Labor Adjustment Factor (LAF) | 1.03 |
| (2) Fuel type | |
| Fuel Cost Per Gallon | Marine Diesel |
| (3) Cost of Money Rate (undiscounted) | \$2.38 |
| (4) Cost of Money Rate (discounted) | 2.125% |
| c. Appendix E, Economic Index Data (EK 105) | 1.700% |
| (1) Economic Index, Acquisition Year | 5556 |
| (2) Economic Index, Present Year or Year of Use | 8643 |

Input data, methodology and notes used in the following sections of this form are or have reference to EP 1110-1-8, CONSTRUCTION EQUIPMENT OWNERSHIP AND EXPENSE SCHEDULE (see chapter 4).

Figure 4-2. Dredging Plant Ownership and Operating Rate Worksheet Page 1 of 4

Region 04

1. MARINE AND DREDGING PLANT INFORMATION AND EXPENSE FACTORS (Continued)

| | |
|--|--------------------|
| d. Figure 4-1, Available Time to Dredge By Region Data (See Chapter 4, paragraph 4.3 for guidance) | |
| (1) Months Available Per Year (<i>9 months is used for this example</i>) | <u>9 months/yr</u> |
| e. Table 4-1, Dredging Plant Cost Factors Data | |
| (1) Useful Life (in Years) for Ownership (N) | <u>25 yrs</u> |
| (2) Physical Life (in Hours) for Repairs | <u>130,000 hrs</u> |
| (3) SLV (Salvage Value Factor) | <u>0.10</u> |
| (4) Prime Engine Fuel Factor (gal/bhp-hr) | <u>0.045</u> |
| (5) Secondary Engine Fuel Factor (gal/bhp-hr) | <u>0.039</u> |
| (6) WLS (Water, Lube & Supplies Factor) percent | <u>22%</u> |
| (7) RPR (Repair Cost Factor) | <u>1.30</u> |

2. ANNUAL OWNERSHIP PERCENTAGE FACTORS

- a. Depreciation Percent Per Year (DEPR)

$$\frac{1.0 - \text{SLV}}{\text{N}} = \frac{1.0 - 0.10}{25 \text{ yrs}} = 3.60\% / \text{yr}$$

- b. Facilities Capital Cost of Money Percent Per Year (FCCM)

$$\frac{\text{Discounted Money}}{(N-1)} = \frac{(1+\text{SLV})+2}{\text{Rate}} = \frac{(1+0.10)+2}{1.700\%} = \frac{50.00}{50.00} = 0.97\% / \text{yr}$$

- c. Total Ownership Percent Per Year (DEPR + FCCM)

$$= 4.57\% / \text{yr}$$

3. OWNERSHIP COSTS

- a. Ownership per Year

$$\text{Plant Value} \times \text{Total Ownership Percent Per Year} = \$4,500,000 \times (DEPR + FCCM) = \$4,500,000 \times 4.57\% = \$205,650.00 / \text{yr}$$

- b. Monthly Ownership Expense

$$\text{Ownership per Year} / \text{Months Available per Year} = \$205,650.00 / \text{yr} / 9 \text{ months/yr} \quad \text{rounded} = \$22,850.00 / \text{mo}$$

Figure 4-2. Dredging Plant Ownership and Operating Rate Worksheet Page 2 of 4

Region 04

4. OPERATING COSTS

a. Fuel Cost

(1) Prime Engine Fuel

| | | | | |
|-------------------------|---|--------------|---|-----------------------|
| Fuel Factor | x | HP | x | Fuel Cost per Gallon |
| {1.e (4)} | | {1.a.(5)} | | {1.b.(2)} |
| <u>0.045 gal/bhp-hr</u> | x | <u>3,730</u> | x | <u>\$2.38</u> |
| | | | | <u>= \$399.48 /hr</u> |

(2) Secondary Engine Fuel

| | | | | |
|-------------------------|---|--------------|---|-----------------------|
| Fuel Factor | x | HP | x | Fuel Cost per Gallon |
| {1.e (5)} | | {1.a.(6)} | | {1.b.(2)} |
| <u>0.039 gal/bhp-hr</u> | x | <u>2,475</u> | x | <u>\$2.38</u> |
| | | | | <u>= \$229.73 /hr</u> |

(3) Total Fuel (Prime Engine Fuel + Secondary Engine Fuel)

$$= \underline{\$629.21 /hr}$$

b. Water, Lube, and Supply (WLS) Cost

(1) Prime Engine WLS

| | | | | |
|-------------|---|---------------------|---|----------------------|
| WLS Factor | x | Hourly Fuel Cost | x | |
| {1.e (6)} | | {4.a.(1)} | | |
| <u>0.22</u> | x | <u>\$399.48 /hr</u> | x | <u>= \$87.89 /hr</u> |

(2) Secondary Engine WLS

| | | | | |
|-------------|---|---------------------|---|----------------------|
| WLS Factor | x | Hourly Fuel Cost | x | |
| {1.e (6)} | | {4.a.(2)} | | |
| <u>0.22</u> | x | <u>\$229.73 /hr</u> | x | <u>= \$50.54 /hr</u> |

(3) Total Fuel (Prime Engine WLS + Secondary Engine WLS)

$$= \underline{\$138.43 /hr}$$

c. Repair Cost

(1) Economic Adjustment Factor (EAF)

| | | | | |
|--|---|-------------------------------------|---|----------------|
| Economic Index for Present Year or Year of Use | / | Economic Index for Acquisition Year | x | |
| {1.c.(2)} | | {1.c.(1)} | | |
| <u>8643</u> | / | <u>5556</u> | x | <u>= 1.556</u> |

(2) Repair Cost

| | | | | | | | | |
|--------------------|---|-------------|---|--------------|---|-------------|---|-------------------------------------|
| Total Plant Value | x | RPR | x | EAF | x | LAF | / | Life in Hrs |
| {1 a.(7)} | | {1.e (7)} | | {4.c.(1)} | | {1.b.(1)} | | {1.e.(2)} |
| <u>\$4,500,000</u> | x | <u>1.30</u> | x | <u>1.556</u> | x | <u>1.03</u> | / | <u>130,000</u> = <u>\$72.12 /hr</u> |

Figure 4-2. Dredging Plant Ownership and Operating Rate Worksheet Page 3 of 4

Region 04

4. OPERATING COSTS (Continued)

d. Total Hourly Operating Cost (Fuel + WLS + Repairs)

$$\begin{array}{rcl} \text{Fuel} & + & \text{WLS} & + & \text{Repairs} \\ \{4.a.(3)\} & & \{4.b.(3)\} & & \{4.c.(2)\} \\ \$629.21 /hr & + & \$138.43 /hr & + & \$72.12 /hr \\ \hline & & & & = \\ & & & & \$839.76 /hr \end{array}$$

e. Monthly Operating Cost

$$\begin{array}{rcl} \text{Total Hourly} & & \text{Hrs Worked per} \\ \text{Operating Cost} & \times & \text{Mo} \\ \{4.d.\} & & \{1.a.(8)\} \\ \$839.76 /hr & \times & 500 \text{ hrs/mo} \\ \hline & & \text{rounded} = \\ & & \$419,880.00 /mo \end{array}$$

5. TOTAL MONTHLY RATE

a. Ownership {3.b.} = \$22,850.00 /mo

b. Operating {4.e.} = \$419,880.00 /mo

c. Total Estimated Additive Items {1 a.(9)} = \$8,000.00 /mo

d. **TOTAL MONTHLY RATE** = **\$450,730.00 /mo**

{5.a.} + {5.b.} + {5.c.}

6. STANDBY ALLOWANCE

a. Standard Hourly Standby Expense

$$\begin{array}{rcl} \text{Monthly} & & \text{Maximum} \\ \text{Ownership} & & \text{hrs/mo} = 30.4 \\ \text{Expense} & / & \text{days/mo} \times 24 \\ \{3.b.\} & & \text{hrs/day} \\ \$22,850.00 /mo & / & 730 \text{ hrs/mo} \\ \hline & & = \\ & & \$31.30 /hr \end{array}$$

b. Generator Fuel Allowance for Dredge (*An additional generator fuel allowance may be allowed under certain circumstances. This allowance is applicable to dredges only.*)

$$\begin{array}{rcl} \text{Generator HP} & / & \text{Total Secondary} & \text{Secondary Fuel} \\ \{1.a.(6)\} & / & \text{HP} & \times \text{Cost} \\ 200 \text{ hp} & / & 2,475 \text{ hp} & \times \$229.73 \\ \hline & & & = \\ & & & \$18.56 /hr \end{array}$$

c. **TOTAL HOURLY STANDBY ALLOWANCE FOR DREDGE**

$$\begin{array}{rcl} \text{Standby Expense} & + & \text{Generator Fuel} \\ \{6.a.\} & + & \text{Allowance} \\ \$31.30 /hr & + & \$18.56 /hr \\ \hline & & = \\ & & \$49.86 /hr \end{array}$$

Figure 4-2. Dredging Plant Ownership and Operating Rate Worksheet Page 4 of 4

APPENDIX A REFERENCES

SECTION I: REQUIRED PUBLICATIONS

Public Law 92-41. Renegotiation Act of 1971 [PL 92-41 (85 Stat. 97)].

Federal Acquisition Regulation 15.4. Contract Pricing, Government Printing Office, Washington, DC.

- _____. 30.101. Cost Accounting Standards, Part 30, Government Printing Office, Washington, DC.
- _____. 31.105. Construction and Architect-Engineer Contracts, Government Printing Office, Washington, DC.
- _____. 31.205-10. Cost of Money, Government Printing Office, Washington, DC.
- _____. 31.205-36. Rental Costs, Government Printing Office, Washington, DC.
- _____. 49. Termination of Contracts, Government Printing Office, Washington, DC.
- _____. 52.230-2. Cost Accounting Standards, Government Printing Office, Washington, DC.

Engineer Federal Acquisition Regulation Supplement (EFARS) 31.105. Construction and Architect-Engineer Contracts, Regulation Supplement, Government Printing Office, Washington, DC.

- _____. 31.105-100. Contract Clause, Government Printing Office, Washington, DC.

U.S. Department of Labor, Bureau of Labor Statistics. Producer Prices and Price Indexes, Government Printing Office, Washington, DC.

Engineer Regulation 1110-2-1302. Engineering and Design - Civil Works Cost Engineering, U.S. Army Corps of Engineers.

SECTION II: RELATED PUBLICATIONS

- _____. 2000. Caterpillar Performance Handbook, 31st ed., Peoria, Illinois.
- _____. 2001. Caterpillar Performance Handbook, 32nd ed., Peoria, Illinois.

- _____. 2003. Caterpillar Performance Handbook, 33rd ed., Peoria, Illinois.
- _____. 2003. Caterpillar Performance Handbook, 34th ed., Peoria, Illinois.
- _____. 2004. Caterpillar Performance Handbook, 35th ed., Peoria, Illinois.
- _____. 2006. Caterpillar Performance Handbook, 36th ed., Peoria, Illinois.
- _____. 2007. Caterpillar Performance Handbook, 37th ed., Peoria, Illinois.
- _____. 2008. Caterpillar Performance Handbook, 38th ed., Peoria, Illinois.
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- _____. 2011. Caterpillar Performance Handbook, 41st ed., Peoria, Illinois.
- _____. 2012. Caterpillar Performance Handbook, 42nd ed., Peoria, Illinois.
- _____. 2013. Caterpillar Performance Handbook, 43rd ed., Peoria, Illinois.
- _____. 2014. Caterpillar Performance Handbook, 44th ed., Peoria, Illinois.
- _____. 2015. Caterpillar Performance Handbook, 45th ed., Peoria, Illinois.
- _____. 2016. Caterpillar Performance Handbook, 46th ed., Peoria, Illinois.

Caterpillar Tractor Company, Fundamentals of Earthmoving, Peoria, Illinois, 1975.

Energy Information Administration, Official Energy Statistics from the U.S. Government.
Electric Power Monthly, Washington, DC.

_____. Petroleum Marketing Monthly, Washington, DC.

Equipment Watch. 2006. Green Guide for Construction Equipment Volume I:
Earthmoving Equipment, San Jose, California.

_____. 2006. Green Guide for Construction Equipment Volume II: Lifting Equipment,
San Jose, California.

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San Jose, California.

- _____. 2006. Contractor's Equipment Cost Guide.
- _____. 2006. Cost Reference Guide.
- Euclid, Inc. 1982. Euclid Hauler Handbook, 15th ed., Cleveland, Ohio.
- Fiatallis Construction Machinery, Inc. 1983. Owning & Operating Costs, Springfield, Illinois.
- Goodyear Commercial Tire Systems Engineering Data Book. 2010.
- Goodyear Engineered Products, Veyance Technologies.
- International Harvester, Pay Line Division. 1975. Earthmoving Principles: A Guide to Production and Cost Estimating, Schaumburg, Illinois.
- Koehring Company. 1981. Application Manual for Hydraulic Excavators and Shovels, 1st ed., Milwaukee, Wisconsin.
- Mitchell Industrial Tire Company (MITCO).
- Nichols, H.L., Jr. 1976. Moving the Earth, 3rd ed., McGraw-Hill Professional.
- RSMeans. 2016. Labor Rates for the Construction Industry, 43rd ed., Rockland, Massachusetts.
- Terex Corporation. 1981. Production and Cost Estimating of Material Movement with Earthmoving Equipment, Hudson, Ohio.
- TITAN Tire Corporation, Tire Catalog.

SECTION III: GEOGRAPHIC REGIONS

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 1.

Volume 1 is for use in Region I, which includes the following states:

| | |
|---------------|--------------|
| Connecticut | New York |
| Maine | Pennsylvania |
| Massachusetts | Rhode Island |
| New Hampshire | Vermont |
| New Jersey | |

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Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 2.

Volume 2 is for use in Region II, which includes the following states:

| | |
|------------------------------------|----------------------------|
| Delaware | Maryland |
| District of Columbia | Michigan (Lower Peninsula) |
| Illinois (East of U.S. Highway 51) | Ohio |
| Kentucky (East of U.S. Highway 51) | Virginia |
| Indiana | West Virginia |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 3.

Volume 3 is for use in Region III, which includes the following states:

| | |
|-----------|--|
| Alabama | Mississippi |
| Arkansas | Missouri (Panhandle South of 36° - 30'00") |
| Florida | North Carolina |
| Georgia | South Carolina |
| Louisiana | Tennessee |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 4.

Volume 4 is for use in Region IV, which includes the following states:

| | |
|---------------------------------|--------------|
| Iowa (North of U.S. Highway 20) | North Dakota |
| Michigan (Upper Peninsula) | South Dakota |
| Minnesota | Wisconsin |
| Montana | Wyoming |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 5.

Volume 5 is for use in Region V, which includes the following states:

| | |
|------------------------------------|------------------------------------|
| Colorado | Kentucky (West of U.S. Highway 51) |
| Illinois (West of U.S. Highway 51) | Missouri (North of 36° -30'00") |
| Iowa (South of U.S. Highway 20) | Nebraska |
| Kansas | |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 6.

Volume 6 is for use in Region VI, which includes the following states:

| | |
|------------|-------|
| New Mexico | Texas |
| Oklahoma | |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 7.

Volume 7 is for use in Region VII, which includes the following states:

| | |
|------------|--------|
| Arizona | Nevada |
| California | Utah |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 8.

Volume 8 is for use in Region VIII, which includes the following states:

| | |
|--------|------------|
| Idaho | Washington |
| Oregon | |

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 9.

Volume 9 is for use in Region IX, which includes the following states:

Alaska

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 10.

Volume 10 is for use in Region X, which includes the following states:

Hawaii

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 11.

Volume 11 is for use in Region XI, which includes the following territory:

Puerto Rico

Engineer Pamphlet 1110-1-8 Construction Equipment Ownership and Operating Expense Schedule, Volume 12.

Volume 12 is for use in Region XII, which includes the following area:

Kwajalein Island

SECTION IV: USACE ACQUISITION INSTRUCTIONS

PART 31 – CONTRACT COST PRINCIPLES AND PROCEDURES SUBPART 31.1 — APPLICABILITY

31.105-100 Construction and A-E Contracts.

In accordance with FAR 31.105(d)(2)(i)(b), equipment ownership and operating costs shall be determined using EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule.

31.105-101 Special Contract Requirements.

The contracting officer shall insert the SCR, Equipment Ownership and Operating Expense Schedule, in Section 00 73 00, in all solicitations and contracts for construction within the United States that are expected to exceed the micro-purchase threshold. Equipment Ownership and Operating Expense Schedule (MAR 1995).

- (a) This special contract requirement does not apply to terminations. See 52.249-5000, Basis for Settlement of Proposals, and FAR Part 49.
- (b) Allowable cost for construction and marine plant and equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor at any tier shall be based on actual cost data for each piece of equipment or groups of similar serial and series for which the Government can determine both ownership and operating costs from the contractor's accounting records. When both ownership and operating costs cannot be determined for any piece of equipment or groups of similar serial or series equipment from the contractor's accounting records, costs for that equipment shall be based upon the applicable provisions of EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule, Region [insert Roman

numeral for the appropriate region of the schedule]. Working conditions shall be considered to be average for determining equipment rates using the schedule, unless specified otherwise by the contracting officer. For equipment not included in the schedule, rates for comparable pieces of equipment may be used or a rate may be developed using the formula provided in the schedule. For forward pricing, the schedule in effect at the time of negotiations shall apply. For retroactive pricing, the schedule in effect at the time the work was performed shall apply.

- (c) Equipment rental costs are allowable, subject to the provisions of FAR 31.105(d)(ii) and FAR 31.205-36, Rental Costs. Rates for equipment rented from an organization under common control, lease-purchase arrangements, and sale-leaseback arrangements, will be determined using the schedule, except that actual rates will be used for equipment leased from an organization under common control that has an established practice of leasing the same or similar equipment to unaffiliated lessees.
- (d) When actual equipment costs are proposed and the total amount of the pricing action exceeds the SAT, the contracting officer shall request the contractor to submit either certified cost or pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, Contract Pricing Proposal Cover Sheet.

SECTION V: EFAR REFERENCE

The Engineer Federal Acquisition Regulation Supplement (EFARS) is RESCINDED by the USACE Acquisition Instruction, which was issued by USACE Head of Contracting Activity on March 18, 2013. EFARS can be referenced, as necessary, for any contracts issued before March 18, 2013. The applicable EFARS sections are included in the schedule in effect at the time the work was performed.

SECTION VI. OBTAINING PUBLICATION AND CHECKRATE

The Engineer Pamphlet (EP) 1110-1-8 Volumes 1-12 is available in portable document format (PDF) and can be viewed or downloaded at the official HQUSACE documents webpage at <http://www.usace.army.mil/> by selecting “Library” and selecting “Publications.” Select “USACE Publications” in the title bar. A dropdown menu will appear. From the dropdown menu, select “Engineer Pamphlets.” From there, use the search feature located under “Engineer Pamphlets” to enter and search for 1110-1-8. This will narrow the publication list down to one selection that contains the portal with all 12 volumes of EP 1110-1-8 in PDF format. Using the “Search Publications” feature at the top right of this web page will bring up not only a link to EP 1110-1-8, but also a list of publications that mention this EP.

Compact disks (CDs) are developed and distributed to a pre-publication mailing list. A limited number of additional CDs are produced and are available upon request.

Requests for CDs may be placed by sending an e-mail to CENWW-COST@usace.army.mil. When ordering, please give the following information and specify the quantity:

| | |
|-----------------------|--|
| Title of Publication: | EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule |
| Region: | Region I through XII |
| Volume No. | Volume No. 1 through No. 12 |
| Media: | CD |
| Quantities: | |

Other products are available at the Walla Walla District Cost Engineering website: <http://www.nww.usace.army.mil/Missions/CostEngineering.aspx>. Expand the Product Support Section by clicking on the plus sign next to “Construction Equipment Rates (EP 1110-1-8) and CHECKRATE.” The following links and downloads are available:

Previous editions of Engineers Pamphlet EP 1110-1-8. To access, select “Historical Construction Equipment Rates (past issues of EP 1110-1-8).” The direct link to past editions is: <http://www.nww.usace.army.mil/Missions/CostEngineering/Historical.aspx>.

CHECKRATE. To access, select “Download CHECKRATE (Excel-based program).” The direct link to download the CHECKRATE workbook is:
<http://www.nww.usace.army.mil/Portals/28/docs/costengineering/CheckRate04v06r1.xls>.

Use this worksheet to compute rates for equipment that is not in this pamphlet.

1. EQUIPMENT INFORMATION AND EXPENSE FACTORS

ID No.: _____

a. Equipment Specification Data:

- (1) Equipment Description: _____
(2) Model and Series: _____
(3) Year of Use: _____
(4) Year Manufactured: _____
(5) Horsepower - Equipment: _____
(6) Horsepower - Carrier: _____
(7) Fuel type: - Equipment: gas/diesel off-road/diesel on-road/electric/air _____
- Carrier: gas/diesel off-road/diesel on-road/electric/air _____
(8) Shipping Weight (cwt): _____
(9) Tire size and number of tires: (Cost of tires based on year of use – see 1.a.(3) and appendix F)

| | No. | Size/Ply | Unit Price | Cost |
|----------------------|-------|----------|------------|---------|
| (a) Front (FT): | _____ | _____ | \$_____ | \$_____ |
| (b) Drive (DT): | _____ | _____ | \$_____ | \$_____ |
| (c) Trailing (TT): | _____ | _____ | \$_____ | \$_____ |
| (d) Total Tire Cost: | | | \$_____ | |

USE APPENDIX D TO COMPLETE THE FOLLOWING DATA:

b. Category and Subcategory Number: _____

c. Hourly Expense Calculation Factors:

- (1) Economic Key (EK): _____
(2) Condition (C): _____ Average or Severe or Difficult
(3) Discount Code (DC): B = 7.5% (0.075) or S = 15.0% (0.15) _____
(4) Life in Hours (LIFE): _____
(5) Salvage Value Percentage (SLV): _____
(6) Fuel Factor – Equipment [Electric (E) Gas (G) Diesel (D)]: _____
(7) Fuel Factor – Carrier (E G D): _____
(8) Filters, Oil, and Grease (FOG) Factor (E G D): _____
(9) Tire Wear Factor:
 (a) Front (FT): _____
 (b) Drive (DT): _____
 (c) Trailing (TT): _____
(10) Repair Cost Factor (RCF): _____

2. EQUIPMENT VALUE

a. List Price + Accessories: *[at Year of Manufacture]* = \$ _____

(1) Discount: $(\text{List Price} + \text{Accessories}) \times (\text{Discount Code})$

$$(\$ \underline{\hspace{2cm}} + \$ \underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}) \quad [1.c.(3)] \quad =-(\$ \underline{\hspace{2cm}})$$

(2) Subtotal [2.a.] – [2.a.(1)] Subtotal=\$ _____

(3) Sales or Import Tax: $(\text{Subtotal}) \times (\text{Tax Rate})$

[2.a.(2)] [Appendix B]

$$(\$ \underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}) \quad =+\$ \underline{\hspace{2cm}}$$

(4) Total Discounted Price: Subtotal: [2.a.(2)] + [2.a.(3)] Subtotal=\$ _____

b. Freight: $(\text{Shipping Weight}) \times (\text{Freight Rate per cwt})$

[1.a.(8)] [Appendix B]

$$(\underline{\hspace{2cm}} \text{cwt}) \times (\$ \underline{\hspace{2cm}} / \text{cwt}) \quad =+\$ \underline{\hspace{2cm}}$$

c. **TOTAL EQUIPMENT VALUE (TEV):** **TOTAL[2.]:=\$** _____

[(2.a.(4)) + [(2.b)]]

(See chapter 3 for used and overage equipment rate adjustments.)

3. DEPRECIATION PERIOD (N)

a. $(\text{LIFE hours (hr)}) / (\text{Working Hours Per Year (WHPY)}) = N$

[1.c.(4)] [Appendix B]

$$(\underline{\hspace{2cm}} \text{hr}) / (\underline{\hspace{2cm}} \text{hr/yr}) \quad = \underline{\hspace{2cm}}$$

4. OWNERSHIP COST

a. Depreciation

(1) Tire Cost Index (TCI):

$(\text{Tire Index, Yr of Mfg}) / (\text{Tire Index, Based on 1.a.(3)})$ = Tire Cost Index (TCI)

[Appendix E, EK=100] [Appendix E, EK=100]

$$(\underline{\hspace{2cm}}) / (\underline{\hspace{2cm}}) \quad = \underline{\hspace{2cm}} (\text{TCI})$$

(2) $[(\text{TEV}) \times [1.0 - (\text{SLV})] - [(\text{TCI}) \times (\text{Tire Cost})]] / (\text{LIFE})$

[2.c.] [1.c.(5)] [4.a.(1)] [1.a.(9)(d)] [1.c.(4)]

$$[(\$ \underline{\hspace{2cm}}) \times [1.0 - (\underline{\hspace{2cm}})] - [(\underline{\hspace{2cm}}) \times (\$ \underline{\hspace{2cm}})])] / (\underline{\hspace{2cm}} \text{hr}) \\ = \$ \underline{\hspace{2cm}} / \text{hr}$$

4. OWNERSHIP COST (Continued)

b. Facilities Capital Cost of Money (FCCM):

$$(1) \frac{[(N - 1.0) \times [1.0 + (SLV)] + 2.0]}{[2.0 \times (N)]} = \text{Avg Value Factor}$$

[3.a.] [1.c.5.] [3.a.] (AVF)

$$[(\underline{\hspace{2cm}} \text{yr}) - 1.0] \times [1.0 + (\underline{\hspace{2cm}})] + 2.0] / [2.0 \times (\underline{\hspace{2cm}} \text{yr})]$$

= (AVF)

$$(2) \frac{(TEV) \times (AVF) \times (\text{Adjusted Cost - of - Money})}{(WHPY)}$$

[2.c] [4.b.(1)] [Appendix B] [Appendix B]

$$(\$ \underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}) / (\underline{\hspace{2cm}} \text{hr/yr})$$

= \$ /hr

c. **TOTAL HOURLY OWNERSHIP COST: TOTAL [4.]:** = \$ /hr

[4.a.(2)] + [4.b.(2)]

5. OPERATING COST

a. Fuel Costs:

(1) Equipment:

$$(\text{Fuel Factor} \times (\text{Horsepower (hp)}) \times (\text{Fuel Cost Per Gallon (gal)}))$$

[1.c.(6)] [1.a.(5)] [Appendix B]

$$(\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}} \text{hp}) \times (\$ \underline{\hspace{2cm}} / \text{gal}) = \$ \underline{\hspace{2cm}} / \text{hr}$$

(2) Carrier:

$$(\text{Fuel Factor} \times (\text{Horsepower}) \times (\text{Fuel Cost Per Gallon}))$$

[1.c.(7)] [1.a.(6)] [Appendix B]

$$(\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}} \text{hp}) \times (\$ \underline{\hspace{2cm}} / \text{gal}) = \$ \underline{\hspace{2cm}} / \text{hr}$$

(3) Total Hourly Fuel Cost:
[(5.a.(1)) + [5.a.(2)]]

Total [5.a.] = \$ /hr

b. FOG Cost:

(1) Equipment:

$$(\text{FOG Factor} \times (\text{Equipment Fuel Cost}) \times (\text{Labor Adjustment Factor (LAF)}))$$

[1.c.(8)] [5.a.(1)] [Appendix B]

$$(\underline{\hspace{2cm}}) \times (\$ \underline{\hspace{2cm}} / \text{hr}) \times (\underline{\hspace{2cm}}) = \$ \underline{\hspace{2cm}} / \text{hr}$$

Equipment Rate Computation Worksheet (copy as needed). Page 3 of 6

5. OPERATING COST (Continued)

(2) Carrier:

$$(\text{FOG Factor}) \times (\text{Carrier Fuel Cost}) \times (\text{LAF}) \\ [1.c.(8)] \quad [5.a.(2)] \quad [\text{Appendix B}]$$

$$(\underline{\hspace{2cm}}) \times (\$ \underline{\hspace{2cm}} / \text{hr}) \times (\underline{\hspace{2cm}}) = \$ \underline{\hspace{2cm}} / \text{hr}$$

(3) Total Hourly FOG Cost:
[(5.b.(1)) + (5.b.(2))]

$$\text{Total [5.b.]} = \$ \underline{\hspace{2cm}} / \text{hr}$$

c. Alternative Fuel/FOG Cost:

$$\text{Total [5.c.]} = \$ \underline{\hspace{2cm}} / \text{hr}$$

(See chapter 2, paragraph 24.d. for guidance on when to use.)

d. Repair Cost:

(1) Economic Adjustment Factor (EAF):
(EK is from [1.c.(1)])

$$(\text{Economic Index for Year 1.a.(3)}) / (\text{Economic Index for Year 1.a.(4)}) \\ [\text{Appendix E}] \quad [\text{Appendix E}]$$

$$(\underline{\hspace{2cm}}) / (\underline{\hspace{2cm}}) = \underline{\hspace{2cm}} (\text{EAF})$$

(See table 3-1 for last year of economic life.)

(2) Repair Factor (RF):

$$(\text{RCF}) \times (\text{EAF}) \times (\text{LAF}) = \underline{\hspace{2cm}} \text{Repair Factor (RF)} \\ [1.c.(10)] \quad [5.d.(1)] \quad [\text{Appendix B}]$$

$$(\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}) = \underline{\hspace{2cm}} (\text{RF})$$

(3) Repair Cost:

$$[(\text{TEV}) - [(\text{TCI}) \times (\text{Tire Cost})]] \times (\text{RF}) / (\text{LIFE}) \\ [2.c.] \quad [4.a.(1)] \quad [1.a.(9)(d)] \quad [5.d.(2)] \quad [1.c.(4)]$$

$$[(\$ \underline{\hspace{2cm}}) - [(\underline{\hspace{2cm}}) \times (\$ \underline{\hspace{2cm}})]] \times (\underline{\hspace{2cm}}) / (\underline{\hspace{2cm}})$$

(4) Total Hourly Repair Cost:

$$\text{Total [5.d.]} = \$ \underline{\hspace{2cm}} / \text{hr}$$

5. OPERATING COST (Continued)

e. Tire Wear Cost: (Use current price levels. See Appendix F)

(1) Front Tires (FT):

[1.5 x (FT Cost)] / [1.8 x (FT Wear Factor) x (Maximum Tire Life Hours)]
[1.a.(9)(a)] [1.c.(9)(a)] [Appendix F]

$$[1.5 \times (\$ \underline{\hspace{2cm}})] / [1.8 \times (\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}/\text{hr})]$$

= \$ /hr

(2) Drive Tires (DT):

[1.5 x (DT Cost)] / [1.8 x (DT Wear Factor) x (Maximum Tire Life Hours)]
[1.a.(9)(b)] [1.c.(9)(b)] [Appendix F]

$$[1.5 \times (\$ \underline{\hspace{2cm}})] / [1.8 \times (\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}/\text{hr})]$$

= \$ _____ /hr

(3) Trailing Tires (TT):

[1.5 x (TT Cost)] / [1.8 x (TT Wear Factor) x (Maximum Tire Life Hours)]
[1.a.(9)(c)] [1.c.(9)(c)] [Appendix F]

$$[1.5 \times (\$ \underline{\hspace{2cm}})] / [1.8 \times (\underline{\hspace{2cm}}) \times (\underline{\hspace{2cm}}/\text{hr})]$$

= \$ _____ /hr

(4) Total Tire Wear Cost:
[Sum 5.e.(1) through 5.e.(3)]

Total [5.e.] = \$ _____ /hr

f. Tire Repair Cost:

(Total Tire Wear Cost) x 0.15 x (LAF)
[5.e.(4)] [Appendix B]

Total [5.f.] = \$ _____ /hr

g. TOTAL HOURLY OPERATING COST:
[Sum 5.a. through 5.f.]

TOTAL [5.] = \$_____ /hr

6. **HOURLY RATES**

- a. Total Hourly Rate: [based on 40 hours per week (wk)]

(Ownership Cost) + (Operating Cost)

(\$_____ /hr) + (\$_____ /hr)

= \$_____ /hr

- b. Other Work Shifts Hourly Rate:

(Refer to Chapter 3, *Adjustments to Rates*, for methodology.)

$[(\text{Depreciation}) + [(\text{FCCM}) \times (40 \text{ hr/wk}) / (\text{Work hr/wk})] + (\text{Operating Cost})]$

[4.a.(2)]

[4.b.(2)]

(example: 60 hr/wk)

[5.g.]

$[(\$_____ /hr) + [(\$_____ /hr) \times (40 \text{ hr/wk}) / (\text{_____ hr/wk})] + (\$_____ /hr)]$

= \$_____ /hr

- c. Standby Hourly Rate:

$[(\text{Depreciation}) \times 0.50] + (\text{FCCM})$

[4.a.(2)]

[4.b.(2)]

$[(\$_____ /hr) \times 0.50] + (\$_____ /hr)$

= \$_____ /hr

See Chapter 3 if rate adjustments are necessary.

APPENDIX B AREA FACTORS

NORTHCENTRAL

Region: 4

| | |
|--|----------------|
| Total State Sales or Import Tax Rate: | 5.25% |
| Working Hours Per Year (WHPY): | 1,260 hrs/yr |
| Labor Adjustment Factor (LAF): | 1.03 |
| Electricity Cost Per Kilowatt-Hour: | \$0.097 /kW-Hr |
| Gasoline Cost Per Gallon: | \$2.18 /gal |
| Diesel Cost Per Gallon (Off-Road Use): | \$2.14 /gal |
| Diesel Cost Per Gallon (On-Road Use): | \$2.67 /gal |
| Cost of Money Rate (Full Rate): | 1.875% |
| Cost of Money Rate (Adjusted): | 1.500% |

Freight Rates

| | | | | | |
|------|-----|-----|------|--------|---------|
| over | 0 | cwt | thru | 240 | \$19.71 |
| over | 240 | cwt | thru | 300 | \$14.91 |
| over | 300 | cwt | thru | 400 | \$12.52 |
| over | 400 | cwt | thru | 500 | \$10.98 |
| over | 500 | cwt | thru | 700 | \$13.06 |
| over | 700 | cwt | thru | 800 | \$12.96 |
| over | 800 | cwt | thru | 99,999 | \$7.60 |

APPENDIX B

AREA FACTORS (for all regions)

Below is a listing of all regional area factors for reference only. The area factor's used for this pamphlet are located on previous page B-1.

| Reg | | SST | WHPY | LAF | Freight Cost | | Thru CWT \$ | | | | | | | | | |
|-----|--------------|------|--------|------|--------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-----|---------|-----|---------|-----|---------|--------|---------|
| | | | | | Elec | Gas | | | | | | | | | | | | | | | | | |
| 1 | NORTHEAST | 2016 | 5.80% | 1360 | 1.16 | \$0.143 | \$2.23 | \$2.28 | \$2.88 | 240 | \$17.43 | 300 | \$12.24 | 400 | \$9.98 | 500 | \$8.61 | 700 | \$7.45 | 800 | \$7.45 | 99,999 | \$10.71 |
| 2 | MIDEAST | 2016 | 5.90% | 1450 | 1.02 | \$0.098 | \$2.17 | \$2.21 | \$2.74 | 240 | \$10.27 | 300 | \$7.45 | 400 | \$6.16 | 500 | \$5.35 | 700 | \$5.43 | 800 | \$5.43 | 99,999 | \$7.99 |
| 3 | SOUTHEAST | 2016 | 7.45% | 1530 | 0.9 | \$0.096 | \$2.02 | \$2.11 | \$2.59 | 240 | \$12.29 | 300 | \$8.86 | 400 | \$7.30 | 500 | \$6.34 | 700 | \$6.27 | 800 | \$6.27 | 99,999 | \$9.12 |
| 4 | NORTHCENTRAL | 2016 | 5.25% | 1260 | 1.03 | \$0.097 | \$2.18 | \$2.14 | \$2.67 | 240 | \$19.71 | 300 | \$14.91 | 400 | \$12.52 | 500 | \$10.98 | 700 | \$13.06 | 800 | \$12.96 | 99,999 | \$7.60 |
| 5 | MIDWEST | 2016 | 7.10% | 1400 | 0.98 | \$0.093 | \$2.09 | \$2.10 | \$2.61 | 240 | \$14.14 | 300 | \$10.74 | 400 | \$9.03 | 500 | \$7.93 | 700 | \$9.56 | 800 | \$9.53 | 99,999 | \$6.97 |
| 6 | SOUTHWEST | 2016 | 7.30% | 1590 | 0.88 | \$0.087 | \$2.04 | \$2.09 | \$2.52 | 240 | \$19.41 | 300 | \$14.79 | 400 | \$12.46 | 500 | \$10.78 | 700 | \$13.34 | 800 | \$13.30 | 99,999 | \$7.84 |
| 7 | WEST | 2016 | 7.95% | 1630 | 1.13 | \$0.112 | \$2.49 | \$2.26 | \$2.80 | 240 | \$28.91 | 300 | \$21.98 | 400 | \$18.50 | 500 | \$16.24 | 700 | \$19.65 | 800 | \$18.73 | 99,999 | \$10.52 |
| 8 | NORTHWEST | 2016 | 5.25% | 1540 | 1.08 | \$0.083 | \$2.41 | \$2.25 | \$2.85 | 240 | \$23.66 | 300 | \$16.88 | 400 | \$13.85 | 500 | \$12.00 | 700 | \$11.26 | 800 | \$9.51 | 99,999 | \$6.48 |
| 9 | ALASKA | 2016 | 3.75% | 1040 | 1.19 | \$0.179 | \$2.72 | \$2.78 | \$3.15 | 240 | \$67.36 | 300 | \$47.92 | 400 | \$32.22 | 500 | \$31.25 | 700 | \$28.13 | 800 | \$26.60 | 99,999 | \$23.65 |
| 10 | HAWAII | 2016 | 4.25% | 1480 | 1.2 | \$0.274 | \$2.85 | \$3.81 | \$4.45 | 240 | \$105.90 | 300 | \$50.87 | 400 | \$42.81 | 500 | \$44.15 | 700 | \$48.15 | 800 | \$60.79 | 99,999 | \$29.85 |
| 11 | PUERTO RICO | 2016 | 11.50% | 1560 | 0.69 | \$0.206 | \$2.17 | \$2.11 | \$2.59 | 240 | \$36.55 | 300 | \$20.92 | 400 | \$17.68 | 500 | \$16.91 | 700 | \$18.79 | 800 | \$17.61 | 99,999 | \$12.34 |
| 12 | KWAJALEIN | 2016 | 4.25% | 1390 | 0.98 | \$0.274 | \$2.85 | \$3.81 | \$4.45 | 240 | \$24.35 | 300 | \$17.52 | 400 | \$14.43 | 500 | \$12.52 | 700 | \$12.23 | 800 | \$10.61 | 99,999 | \$8.09 |

SST = State Sales tax

WHPY = Work Hours Per Year

LAF = Labor Adjustment Factor

Elec = Electricity Cost Per kW-Hr

Gas = Gasoline Cost per Gal

D-Off = Diesel-Off Road Cost per Gal

D-On = Diesel-On Road Cost per Gal

CWT = Hundred Pounds

APPENDIX C
GUIDE FOR SELECTING OPERATING CONDITIONS

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|---|---|---|
| <u>B25 and B35:</u> Buckets Clamshell or Dragline | Working in gravels, silts, and sands at low impact, freshwater environment. | Working in rock, hard digging, high impact, or saltwater environment. |
| Depreciation Period: | 8,000 - 10,000 hours | 6,500 - 8,000 hours |
| <u>C80 and C90:</u> Cranes Hydraulic, Truck Mounted Mechanical, Truck Mounted | Lift less than rated capacity, intermittent duty. | Continuous lift near rated capacity, excessive swing, abrasive materials, sloped surfaces, and saltwater environment. |
| Depreciation Period: | 14,000 - 20,000 hours | 12,000 - 18,000 hours |
| <u>C85:</u> Cranes Mechanical Dragline, Lifting, or Clamshell Crawler Mounted | Gravels, silts, pull, and lift less than rated capacity. | Highly abrasive materials, impact breakout, continuous load near rated capacity, and saltwater environment. |
| Depreciation Period: | 14,000 - 22,000 hours | 12,000 - 18,000 hours |
| <u>G10:</u> Generators | Working below rated capacity, good field conditions. | Working at or above rated capacity, poor field conditions, such as saltwater. |
| Depreciation Period: | 8,000 - 10,000 hours | 7,000 - 8,000 hours |

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|--|--|---|
| G15: Graders, Motor | Haul road maintenance; road construction, ditching; loose fill spreading; landforming, landleveling; summer road maintenance with medium to heavy winter snow removal; and elevating grader use. | Maintenance of hard-packed roads with embedded rock; heavy fill spreading; ripping scarifying of asphalt or concrete; continuous high load factor; and high impact. |
| Depreciation Period: | 14,500 hours | 13,500 hours |
| H25: Hydraulic Excavators Crawler Mounted | Mass excavation or trenching where machine digs all the time in natural bed clay soils; some traveling and steady, full throttle operation; and most log loading operations. | Continuous trenching or truck loading in rock or shot rock soils; large amount of travel over rough ground; machine continuously working on rock floor with constant high load factor and high impact; and saltwater environment. |
| Depreciation Period: | 8,500 - 19,000 hours | 7,000 – 15,000 hours |
| H30: Hydraulic Excavators Wheel Mounted | Continuous digging in sandy clay/sandy gravel, site development, and lumber yard applications. | Continuous digging in rock/natural bed clay, high impact, using hammer, and working in forests or quarries. |
| Depreciation Period: | 8,000 - 10,000 hours | 6,500 - 8,000 hours |

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|--|---|---|
| H35: Hydraulic Shovels Crawler Mounted (nonelectric) | Continuous loading in well shot rock or fairly tight bank. Good underfoot conditions: dry floor, little impact, or sliding on undercarriage. | Continuous loading in poorly shot rock, virgin, or lightly blasted tight banks. Adverse underfoot conditions: rough floors, high impact sliding on undercarriage; and saltwater environment. |
| Depreciation Period: | 14,000 - 18,000 hours | 12,000 - 16,000 hours |
| L10: Land Clearing Equipment | Working in low impact conditions at or below rated capacity. | High impact conditions working at or above rated capacity. |
| Depreciation Period: | 10,000 hours | 7,000 hours |
| L30: Loaders, Belt (conveyors) | Working below rated capacity, with intermittent service. | Working at or above rated capacity with continuous service. |
| Depreciation Period: | 10,000 hours | 8,000 hours |
| L35: Loaders, Front End Crawler Type | Bank excavation, intermittent ripping, basement digging of natural bed clays, sands, silts, and gravels; some traveling; and steady full throttle operations. | Loading shot rock, cobbles, glacial till, and caliche; steel millwork; high density materials in standard bucket; continuous work on rock surfaces; large amount of ripping of tight rock materials; high impact conditions; and saltwater environment. |
| Depreciation Period: | 10,000 hours | 8,000 hours |

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|--|--|---|
| L40: Loaders, Front End Wheel Type (does not include skid steer and tool carriers) | Continuous truck loading from stockpile; low to medium density materials in properly sized bucket; hopper charging in low to medium rolling resistance; loading from bank in good digging; and load and carry on poor surfaces and slight adverse grades. | Loading shot rock (large loaders); handling high density materials with counterweighted machine; steady loading from very tight banks; continuous work on rough or very soft surfaces; load and carry in hard digging; travel longer distances on poor surfaces with adverse grades and saltwater environment. |
| Depreciation Period: | 9,250 - 13,500 hours | 8,750 - 12,000 hours |
| L45 and L50: Loaders with Backhoe Crawler Type and Wheel Type | Utility applications in medium to heavy soil; occasional use of constant flow implements and dig depths to 3.05 meters (10 feet). | Production applications or digging in rock; regular use of constant flow implements; and dig depths over 3.05 meters (10 feet). |
| Depreciation Period: | 8,000 hours | 6,000 hours |
| L60: Log Skidders | Continuous turning, steady skidding for medium distances with moderate decking. Good underfooting: dry floor with few stumps and gradual rolling terrain. | Continuous turning, steady skidding for long distances with frequent decking; poor underfoot conditions: wet floor, steep slopes, and numerous stumps; and saltwater environment. |
| Depreciation Period: | 10,000 hours | 8,000 hours |

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|---|---|--|
| M10 - .31 and .32: Clamshell dredges < 5 cy Amphibious Excavator Depreciation Period: | Gravel, silts, breakout force at less than capacity, freshwater conditions. 10,000 - 20,000 hours | Rock, abrasive materials, load at rated capacity, saltwater conditions. 9,000 - 18,000 hours |
| M10 - .51 and .53: Boats, Skiffs, Crew Boats, Work Boats, Survey Boats, and Launches Depreciation Period: | Freshwater applications, light waves, and steady to light use. 16,000 - 18,000 hours | Saltwater use, medium to high waves, heavy use. 13,000 - 15,000 hours |
| P35: Pipelayers Depreciation Period: | Typical pipelayer use in operating conditions ranging from very good to severe. 14,000 hours | Continuous use in deep mud or water or on rock surfaces. 11,500 hours |
| R10: Rippers and Bank Slopers Depreciation Period: | Light rock, medium breakout force required. 8,000 hours | Hard rock, excessive wear due to high breakout force. 6,500 hours |
| S10, S15, S20, and S25: Scrapers Self-Propelled Tractor Drawn Soil Stabilizers Depreciation Period: | Varying loading and haul road conditions; long and short hauls; adverse and favorable grades; some impact; and typical road-building use on a variety of jobs. 10,000 - 15,000 hours | High impact conditions, such as loading ripped rock; overloading, continuous high total resistance conditions; and rough haul roads. 8,000 - 13,500 hours |

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|--|--|---|
| T15: Tractors Crawler (Dozer) | Production dozing in clays, sands, gravels, and talus rock. Push-loading scrapers, borrow pit ripping, most land clearing and skidding applications. Medium impact conditions. Production landfill work. | Heavy rock ripping; tandem ripping; pushloading and dozing in hard rock; work on rock surfaces; continuous high impact conditions; and saltwater environment. |
| Depreciation Period: | 10,000 - 15,000 hours | 8,000 - 12,500 hours |
| T20: Tractors Wheel Type (Dozer) | Production dozing, push loading in clays, sands, silts, loose gravels; and shovel cleanup. | Production dozing in rock; push loading in rocky, boulder strewn borrow pits; high impact conditions; and landfill compactor work. |
| Depreciation Period: | 14,000 hours | 13,000 hours |
| T30: Trenchers Chain and Wheel Type | Working in sands and silts below rated capacity of the machine. | Working in gravels and abrasive materials at or above the rated capacity of the machine. |
| Depreciation Period: | 8,000 hours | 6,000 hours |
| T45 and T50: Truck Trailers Trucks, Highway | Varying loading and road conditions; and typical construction use on a variety of jobs. | Consistently poor road conditions; and oversized loading equipment. |
| Depreciation Period: | 8,000 - 12,000 hours | 6,500 - 10,000 hours |

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|---|--|--|
| T55 and T60: Truck, Off-Highway Trucks, Water, Off-Highway (Articulated and Rigid) | Varying load and haul road conditions; high rolling resistance and poor traction during part of the job; some adverse grades; some impact loads; and typical use in road building, dam construction, open-pit mining, etc. | Continuous use on very poorly maintained haul roads, high rolling resistance, and poor traction; frequent adverse grades and high impact loads; and poorly matched loading equipment with continuous overloading. |
| Depreciation Period: | 12,000 - 20,000 hours | 10,000 - 18,000 hours |
| W10 and W15: Wagons Bottom Dump Rear Dump | Varying load and haul road conditions; long and short hauls; high rolling resistance and poor traction during part of the job; some adverse grades; some impact; typical road building use in a variety of jobs; and dam construction, open-pit mining, etc. | Continuous use on very poorly maintained haul roads, high rolling resistance, and poor traction; high impact conditions, such as loading ripped rock; frequent adverse grades and high impact loads; and poorly matched loading equipment with continuous overloading. |
| Depreciation Period: | 12,000 hours | 10,000 hours |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| A10 0.00 | AGGREGATE / CHIP SPREADERS | 1 | | | | | | | | | | | | | | | | | | | |
| A10 0.10 | SELF-PROPELLED | 10 | A | B | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.83 | 0.72 | 0.92 | 0.75 |
| A10 0.20 | TOWED & TAILGATE | 10 | A | B | 6,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.73 | 0.00 | 0.82 | 0.60 |
| A15 0.00 | AIR COMPRESSORS, PORTABLE | 1 | | | | | | | | | | | | | | | | | | | |
| A15 0.10 | ROTARY SCREW | 5 | A | B | 10,000 | 0.20 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.66 | 0.00 | 0.73 | 0.75 |
| A15 0.20 | SHOP TYPE | 5 | A | B | 12,000 | 0.15 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.65 |
| A20 0.00 | AIR HOSE, TOOLS & EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| A20 0.10 | AIR DRILL HOSE | 5 | A | B | 3,500 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.50 |
| A20 0.20 | SANDBLAST HOSE | 5 | A | B | 3,500 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.65 |
| A20 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 5 | A | B | 6,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.84 | 1.07 | 1.50 |
| A25 0.00 | ASPHALT PAVING DISTRIBUTORS | 10 | A | B | 6,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.96 | 0.63 | 1.07 | 0.85 |
| A30 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| A30 0.10 | SELF PROPELLED | 10 | A | B | 8,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.72 | 1.20 | 1.00 |
| A30 0.20 | TOWED | 10 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.00 | 1.20 | 0.80 |
| A30 0.30 | SLURRY SEAL PAVERS (Cold mix) | 10 | A | B | 12,000 | 0.20 | 60 | .600 | .054 | .029 | 13 | .130 | .012 | .006 | .000 | .100 | .100 | 1.08 | 0.71 | 1.20 | 0.55 |
| A30 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 10 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 0.80 |
| A35 0.00 | ASPHALT PAVING KETTLES | 10 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 0.80 |
| A40 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 10 | A | B | 6,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 1.00 |
| A45 0.00 | ASPHALT RECYCLERS & SEALERS | 10 | A | B | 5,000 | 0.20 | 65 | .650 | .059 | .031 | 50 | .500 | .045 | .024 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 0.90 |
| B10 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | 1 | | | | | | | | | | | | | | | | | | | |
| B10 0.10 | ASPHALT | 10 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.72 | 1.20 | 1.00 |

EK=Economic Key (Appendix E)

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DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

LIFE=Economic Life

SLV=Salvage Value

HPF=Horsepower Factor

E=Electric Powered

G=Gas Powered

D=Diesel Powered

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DT=Drive Tire

TT=Trailing Tire

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| B10 0.20 | CONCRETE | 10 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.71 | 1.20 | 1.00 |
| B10 0.30 | PUGMILL | 10 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.71 | 1.20 | 1.00 |
| B15 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 95 | A | B | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .102 | .119 | 0.96 | 0.63 | 1.07 | 0.80 |
| B20 0.00 | BRUSH CHIPPERS | 95 | A | B | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.00 | 0.00 | 0.92 | 0.90 |
| B25 0.00 | BUCKETS, CLAMSHELL | 15 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B25 0.00 | BUCKETS, CLAMSHELL | 15 | S | B | 6,500 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B30 0.00 | BUCKETS, CONCRETE | 1 | | | | | | | | | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | |
| B30 0.10 | GENERAL PURPOSE, MANUAL TRIP | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B30 0.20 | LAYDOWN | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.75 |
| B30 0.30 | LOWBOY | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B30 0.40 | LOW SLUMP | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B35 0.00 | BUCKETS, DRAGLINE | 1 | | | | | | | | | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | |
| B35 0.10 | LIGHT WEIGHT | 15 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B35 0.10 | LIGHT WEIGHT | 15 | S | B | 6,500 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B35 0.20 | MEDIUM WEIGHT | 15 | A | B | 9,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B35 0.20 | MEDIUM WEIGHT | 15 | S | B | 7,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B35 0.30 | HEAVY WEIGHT | 15 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B35 0.30 | HEAVY WEIGHT | 15 | S | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| C05 0.00 | CHAIN SAWS | 95 | A | B | 2,000 | 0.10 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 2.50 |
| C10 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | 1 | | | | | | | | | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | |
| C10 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 95 | A | B | 4,000 | 0.05 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.20 |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| C10 0.20 | ROLLERS, VIBRATORY | 95 | A | B | 4,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.20 |
| C15 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | 1 | A | | | | | | | | | | | | | | | | | | |
| C15 0.10 | WALK BEHIND | 95 | A | B | 4,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| C15 0.20 | TRUCK/TRAILER MOUNTED | 95 | A | B | 8,000 | 0.20 | 95 | .950 | .086 | .045 | 50 | .500 | .045 | .024 | .000 | .136 | .119 | 0.72 | 0.66 | 0.79 | 0.90 |
| C20 0.00 | CONCRETE BUGGIES | 95 | A | B | 4,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.96 | 0.63 | 1.07 | 0.70 |
| C25 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | 1 | | | | | | | | | | | | | | | | | | | |
| C25 0.10 | FINISHERS/TROWELS | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| C25 0.20 | VIBRATORY SCREED | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.96 | 0.84 | 1.07 | 0.80 |
| C25 0.25 | VIBRATORY LASER SCREED | 95 | A | B | 8,000 | 0.30 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .180 | .160 | 0.96 | 0.84 | 1.07 | 0.60 |
| C25 0.30 | MATERIAL/TOPPING SPREADERS | 95 | A | B | 8,000 | 0.30 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .180 | .160 | 0.96 | 0.84 | 1.07 | 0.60 |
| C30 0.00 | CONCRETE GRINDERS | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| C35 0.00 | CONCRETE GUNITERS / SHOTCRETTERS | 95 | A | B | 7,000 | 0.25 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 0.90 |
| C40 0.00 | CONCRETE MIXING UNITS | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.92 | 0.80 |
| C45 0.00 | CONCRETE PAVING MACHINES | 10 | A | B | 6,000 | 0.20 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.72 | 1.20 | 1.00 |
| C55 0.00 | CONCRETE PUMPS | 95 | A | B | 8,000 | 0.10 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 1.00 |
| C60 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | 95 | A | B | 6,000 | 0.10 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| C65 0.00 | CONCRETE VIBRATORS | 5 | A | B | 4,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 2.50 |
| C70 0.00 | CRANES, GANTRY & STRADDLE | 1 | | | | | | | | | | | | | | | | | | | |
| C75 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | 20 | A | B | 14,000 | 0.15 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .000 | .136 | .127 | 0.66 | 0.59 | 0.73 | 0.80 |
| C80 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| C80 0.01 | UNDER 26 TON | 20 | A | B | 14,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .161 | .153 | 0.66 | 0.58 | 0.73 | 0.60 |
| C80 0.01 | UNDER 26 TON | 20 | S | B | 12,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .161 | .153 | 0.18 | 0.14 | 0.20 | 0.65 |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|------|---|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| C80 | 0.02 | 26 TON THRU 65 TON | 20 | A | B | 16,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.70 |
| C80 | 0.02 | 26 TON THRU 65 TON | 20 | S | B | 14,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.75 |
| C80 | 0.03 | 66 TON THRU 125 TON | 20 | A | B | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.80 |
| C80 | 0.03 | 66 TON THRU 125 TON | 20 | S | B | 16,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.85 |
| C80 | 0.04 | OVER 125 TON | 20 | A | B | 20,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.90 |
| C80 | 0.04 | OVER 125 TON | 20 | S | B | 18,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.95 |
| C85 | 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| C85 | 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 20 | A | B | 14,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| C85 | 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 20 | S | B | 12,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.90 |
| C85 | 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 20 | A | B | 16,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .144 | .144 | 0.00 | 0.00 | 0.00 | 0.85 |
| C85 | 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 20 | S | B | 13,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .144 | .144 | 0.00 | 0.00 | 0.00 | 0.95 |
| C85 | 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 20 | A | B | 18,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 0.95 |
| C85 | 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 20 | S | B | 15,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 1.05 |
| C85 | 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 20 | A | B | 20,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.05 |
| C85 | 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 20 | S | B | 16,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.15 |
| C85 | 0.21 | LIFTING, 0 THRU 25 TON | 20 | A | B | 16,000 | 0.20 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.65 |
| C85 | 0.21 | LIFTING, 0 THRU 25 TON | 20 | S | B | 13,000 | 0.20 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| C85 | 0.22 | LIFTING, 26 TON THRU 50 TON | 20 | A | B | 18,000 | 0.20 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .085 | .085 | 0.00 | 0.00 | 0.00 | 0.75 |
| C85 | 0.22 | LIFTING, 26 TON THRU 50 TON | 20 | S | B | 15,000 | 0.20 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .085 | .085 | 0.00 | 0.00 | 0.00 | 0.80 |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|---|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | 20 | A | B | 20,000 | 0.15 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 0.85 |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | 20 | S | B | 16,000 | 0.15 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 0.90 |
| C85 0.24 | LIFTING, OVER 150 TON | 20 | A | B | 22,000 | 0.15 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.95 |
| C85 0.24 | LIFTING, OVER 150 TON | 20 | S | B | 18,000 | 0.15 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.00 |
| C90 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| C90 0.01 | UNDER 26 TON | 20 | A | B | 14,000 | 0.15 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .161 | .153 | 0.66 | 0.58 | 0.73 | 0.60 |
| C90 0.01 | UNDER 26 TON | 20 | S | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .161 | .153 | 0.18 | 0.14 | 0.20 | 0.65 |
| C90 0.02 | 26 TON THRU 65 TON | 20 | A | B | 16,000 | 0.15 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.70 |
| C90 0.02 | 26 TON THRU 65 TON | 20 | S | B | 14,000 | 0.15 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.75 |
| C90 0.03 | 66 TON THRU 125 TON | 20 | A | B | 18,000 | 0.20 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.80 |
| C90 0.03 | 66 TON THRU 125 TON | 20 | S | B | 16,000 | 0.20 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.85 |
| C90 0.04 | OVER 125 TON | 20 | A | B | 20,000 | 0.20 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.90 |
| C90 0.04 | OVER 125 TON | 20 | S | B | 18,000 | 0.20 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.95 |
| C95 0.00 | CRANES, TOWER | 20 | A | B | 18,000 | 0.20 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .530 | .127 | .110 | 0.00 | 0.00 | 0.92 | 0.85 |
| D10 0.00 | DRILLS, AIR/HYDRAULIC,CRWLR MTD,0" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear) | 1 | | | | | | | | | | | | | | | | | | | |
| D10 0.10 | DRILLS, AIR TRACK (Add cost for drill steel and bit wear) | 25 | A | B | 14,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 1.00 |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| D15 0.00 | DRILLS, HORIZONTAL | 1 | | | | | | | | | | | | | | | | | | | |
| D15 0.10 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 0.90 |

EK=Economic Key (Appendix E)

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DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

LIFE=Economic Life

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HPF=Horsepower Factor

E=Electric Powered

G=Gas Powered

D=Diesel Powered

FT=Front Tire

DT=Drive Tire

TT=Trailing Tire

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| D15 | 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 0.90 |
| D20 | 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 25 | A | B | 8,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .068 | .102 | 0.00 | 0.00 | 0.92 | 0.85 |
| D25 | 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .068 | .102 | 0.00 | 0.00 | 0.92 | 1.00 |
| D30 | 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 1.00 |
| D35 | 0.00 | DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear) | 1 | | | | | | | | | | | | | | | | | | | |
| D35 | 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 25 | A | B | 14,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .005 | .161 | .161 | 0.96 | 0.86 | 1.07 | 1.00 |
| D35 | 0.12 | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 25 | A | B | 18,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .011 | .136 | .136 | 0.96 | 0.86 | 1.07 | 1.00 |
| D35 | 0.21 | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 25 | A | B | 14,000 | 0.20 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.55 |
| D35 | 0.22 | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 25 | A | B | 18,000 | 0.20 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.55 |
| F10 | 0.00 | FORK LIFTS | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.83 | 0.46 | 0.92 | 0.75 |
| G10 | 0.00 | GENERATOR SETS | 1 | | | | | | | | | | | | | | | | | | | |
| G10 | 0.10 | PORTABLE | 30 | A | B | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.73 | 0.60 |
| G10 | 0.10 | PORTABLE | 30 | S | B | 7,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.20 | 0.70 |
| G10 | 0.20 | SKID MOUNTED | 30 | A | B | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.70 |
| G10 | 0.20 | SKID MOUNTED | 30 | S | B | 8,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| G15 | 0.00 | GRADERS, MOTOR | 35 | A | B | 14,500 | 0.25 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .085 | .144 | 0.83 | 0.54 | 0.92 | 0.75 |

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RCF=Repair Cost Factor

LIFE=Economic Life

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DT=Drive Tire

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| G15 0.00 | GRADERS, MOTOR | 35 | S | B | 13,500 | 0.25 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .085 | .144 | 0.27 | 0.16 | 0.30 | 0.85 |
| H10 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| H13 0.00 | HAZARDOUS/TOXIC WASTE EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| H13 0.11 | COMPACTORS (Compression force) 0 THRU 50 TONS | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 1.08 | 0.86 | 1.20 | 0.80 |
| H13 0.12 | COMPACTORS (Compression force) OVER 50 TONS | 95 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 1.08 | 0.86 | 1.20 | 0.90 |
| H13 0.21 | FILTER PRESSES, STATIONARY | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.90 |
| H13 0.22 | FILTER PRESSES, MOBILE | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 0.66 | 0.59 | 0.73 | 0.80 |
| H13 0.30 | CENTRIFUGES | 95 | A | B | 4,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| H13 0.40 | SHREDDERS | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.90 |
| H13 0.51 | SOIL TREATMENT PLANT, MOBILE | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.77 | 0.69 | 0.86 | 1.00 |
| H13 0.61 | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| H13 0.71 | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 95 | A | B | 4,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| H15 0.00 | HEATERS, SPACE | 1 | | | | | | | | | | | | | | | | | | | |
| H20 0.00 | HOISTS & AIR WINCHES | 95 | A | B | 9,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | A | B | 8,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.70 |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | S | B | 7,000 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | A | B | 8,500 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.70 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | S | B | 7,000 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.85 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | A | B | 12,000 | 0.25 | 65 | .600 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.80 |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|-------------------------------------|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | S | B | 10,000 | 0.25 | 85 | .800 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.95 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | A | B | 16,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.00 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | S | B | 13,500 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | A | B | 19,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | S | B | 15,000 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.25 |
| H25 0.21 | ATTACHMENTS, MOBILE SHEARS | 95 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.90 |
| H25 0.22 | ATTACHMENTS, MATERIAL HANDLING | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 95 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| H25 0.24 | ATTACHMENTS, COMPACTORS | 95 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| H30 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| H30 0.01 | 0 THRU 1.0 CY | 65 | A | B | 8,000 | 0.25 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .149 | .141 | 0.83 | 0.54 | 0.92 | 0.50 |
| H30 0.01 | 0 THRU 1.0 CY | 65 | S | B | 6,500 | 0.25 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .149 | .141 | 0.25 | 0.15 | 0.28 | 0.55 |
| H30 0.02 | OVER 1.0 CY | 65 | A | B | 10,000 | 0.25 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .149 | .141 | 0.83 | 0.54 | 0.92 | 0.60 |
| H30 0.02 | OVER 1.0 CY | 65 | S | B | 8,000 | 0.25 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .149 | .141 | 0.25 | 0.15 | 0.28 | 0.65 |
| H35 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | A | B | 14,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.00 |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | S | B | 12,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.10 |
| H35 0.12 | DIESEL, OVER 5.0 CY | 65 | A | B | 16,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.20 |
| H35 0.12 | DIESEL, OVER 5.0 CY | 65 | S | B | 14,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.30 |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 65 | A | B | 18,000 | 0.20 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .265 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 65 | S | B | 16,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .265 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.90 |
| L10 0.00 | LAND CLEARING EQUIPMENT | 70 | A | B | 10,000 | 0.20 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.83 | 0.54 | 0.92 | 0.90 |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|---|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| L10 0.00 | LAND CLEARING EQUIPMENT | 70 | S | B | 7,000 | 0.20 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.25 | 0.15 | 0.28 | 1.00 |
| L15 0.00 | LANDSCAPING EQUIPMENT | 95 | A | B | 4,000 | 0.15 | 80 | .800 | .072 | .038 | 13 | .130 | .012 | .006 | .477 | .102 | .102 | 0.59 | 0.30 | 0.66 | 0.70 |
| L20 0.00 | LIGHTING SETS, TRAILER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| L20 0.10 | METALLIC VAPOR | 95 | A | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.66 | 0.58 | 0.73 | 1.50 |
| L25 0.00 | LINE STRIPING EQUIPMENT | 95 | A | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .102 | .102 | 0.66 | 0.58 | 0.73 | 1.20 |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .119 | .119 | 0.66 | 0.58 | 0.73 | 1.00 |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 95 | S | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .119 | .119 | 0.21 | 0.16 | 0.23 | 1.10 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | A | B | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .170 | .101 | 0.00 | 0.00 | 0.00 | 1.10 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | S | B | 8,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .170 | .101 | 0.00 | 0.00 | 0.00 | 1.25 |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | 1 | | | | | | | | | | | | | | | | | | | |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | A | B | 9,250 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.83 | 0.54 | 0.92 | 0.70 |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | S | B | 8,750 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.25 | 0.15 | 0.28 | 0.80 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | A | B | 13,500 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.83 | 0.54 | 0.92 | 0.70 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | S | B | 12,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.25 | 0.15 | 0.28 | 0.75 |
| L40 0.20 | SKID STEER | 45 | A | B | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.57 | 0.29 | 0.63 | 0.80 |
| L40 0.21 | SKID STEER ATTACHMENTS | 45 | A | B | 4,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .170 | 0.00 | 0.00 | 0.00 | 1.00 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | A | B | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.83 | 0.54 | 0.92 | 0.85 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | S | B | 9,250 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.25 | 0.15 | 0.28 | 0.90 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | A | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.83 | 0.54 | 0.92 | 0.85 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | S | B | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.25 | 0.15 | 0.28 | 0.90 |

EK=Economic Key (Appendix E)

C=Operating Conditions (A=average, S=severe)

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

LIFE=Economic Life

SLV=Salvage Value

HPF=Horsepower Factor

E=Electric Powered

G=Gas Powered

D=Diesel Powered

FT=Front Tire

DT=Drive Tire

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|-----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | A | B | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .441 | .524 | 0.00 | 0.00 | 0.00 | 1.35 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | S | B | 6,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .441 | .524 | 0.00 | 0.00 | 0.00 | 1.40 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | A | B | 10,000 | 0.25 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .000 | .441 | .441 | 0.83 | 0.54 | 0.92 | 0.80 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | S | B | 6,000 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .441 | .441 | 0.25 | 0.15 | 0.28 | 0.85 |
| L55 0.00 | LOADER / BACKHOE, ATTACHMENTS | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .441 | .441 | 0.00 | 0.00 | 0.00 | 1.00 |
| L60 0.00 | LOG SKIDDERS | 75 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.83 | 0.54 | 0.92 | 0.70 |
| L60 0.00 | LOG SKIDDER | 75 | S | B | 8,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.25 | 0.15 | 0.28 | 0.80 |
| M10 0.00 | MARINE EQUIPMENT (NON DREDGING) | 1 | | | | | | | | | | | | | | | | | | | |
| M10 0.11 | AQUATIC MAINTENANCE | 105 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | 105 | A | B | 6,000 | 0.20 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS, TRANSPORTABLE | 105 | A | B | 16,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.22 | HYDRAULIC CUTTERHEAD DREDGE, 8" - 12", TRANSPORTABLE | 105 | A | B | 16,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| M10 0.23 | HYDRAULIC AUGERHEAD DREDGE, 12" OR LESS, TRANSPORTABLE | 105 | A | B | 16,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| M10 0.24 | HYDRAULIC FLOATING PUMPS, 12" OR LESS, TRANSPORTABLE | 105 | A | B | 8,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.25 | HYDRAULIC DREDGE PUMPS, 12" OR LESS, TRANSPORTABLE | 105 | A | B | 6,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | 105 | A | B | 6,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 0.31 | SMALL MECH DREDGES, CLAMSHELL, BARGE-MTD TO 5 CY | 20 | A | B | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.00 |
| M10 0.31 | SMALL MECH DREDGES, CLAMSHELL, BARGE-MTD TO 5 CY | 20 | S | B | 16,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.05 |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|-----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| M10 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 65 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .161 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| M10 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 65 | S | B | 9,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .161 | .161 | 0.00 | 0.00 | 0.00 | 1.10 |
| M10 0.33 | SMALL MECH DREDGES, HOE-MOUNTED DREDGING ATTACH | 105 | A | B | 20,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| M10 0.41 | WORK FLOATS (NON-DREDGING) | 105 | A | B | 6,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |
| M10 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | 105 | A | B | 30,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | 105 | A | B | 90,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 0.46 | DUMP SCOW (NON-DREDGING) | 105 | A | B | 90,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.47 | DRILL BARGE (NON-DREDGING) | 105 | A | B | 30,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.48 | ALL OTHER BARGES (NON-DREDGING) | 105 | A | B | 30,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 105 | A | B | 16,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 105 | S | B | 13,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.75 |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 105 | A | B | 18,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.80 |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 105 | S | B | 15,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.85 |
| M10 0.54 | TUGS, 501 THRU 1,000 HP | 105 | A | B | 40,000 | 0.10 | 60 | .600 | .054 | .029 | 50 | .500 | .045 | .024 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.90 |
| M10 0.55 | TUGS, 1,000 THRU 2,000 HP | 105 | A | B | 55,000 | 0.10 | 60 | .600 | .054 | .029 | 50 | .500 | .045 | .024 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| P10 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | 50 | A | B | 6,000 | 0.35 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| P20 0.00 | PILE HAMMERS, DOUBLE ACTING | 1 | | | | | | | | | | | | | | | | | | | |
| P20 0.10 | DIESEL | 50 | A | B | 6,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.10 |
| P20 0.20 | PNEUMATIC (STEAM/AIR) | 50 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.10 |
| P25 0.00 | PILE HAMMERS, SINGLE ACTING | 1 | | | | | | | | | | | | | | | | | | | |

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| P25 | 0.10 | DIESEL | 50 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| P25 | 0.20 | PNEUMATIC (STEAM/AIR) | 50 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| P30 | 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 50 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| P35 | 0.00 | PIPELAYERS | 70 | A | B | 14,000 | 0.20 | 35 | .350 | .032 | .017 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.00 | 0.00 | 0.00 | 0.95 |
| P35 | 0.00 | PIPELAYERS | 70 | S | B | 11,500 | 0.20 | 46 | .460 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.00 | 0.00 | 0.00 | 1.10 |
| P40 | 0.00 | PLATFORMS & MAN-LIFTS | 20 | A | B | 8,000 | 0.10 | 50 | .500 | .045 | .024 | 50 | .500 | .045 | .024 | .477 | .136 | .119 | 0.66 | 0.33 | 0.73 | 0.80 |
| P45 | 0.00 | PUMPS, GROUT | 95 | A | B | 8,000 | 0.15 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.66 | 0.59 | 0.73 | 1.00 |
| P50 | 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | 1 | | | | | | | | | | | | | | | | | | | |
| P50 | 0.11 | ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | 0.73 | 0.90 |
| P50 | 0.12 | ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| P50 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | 0.73 | 0.90 |
| P50 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| P50 | 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 95 | A | B | 4,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.50 |
| P55 | 0.00 | PUMPS, WATER, SUBMERSIBLE | 1 | | | | | | | | | | | | | | | | | | | |
| P55 | 0.01 | ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | 0.73 | 1.00 |
| P55 | 0.02 | ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.60 |
| P60 | 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | 1 | | | | | | | | | | | | | | | | | | | |
| P60 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.90 |
| P60 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |
| P60 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.73 | 0.90 |
| P60 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.73 | 0.50 |
| P65 | 0.00 | PUMPS, WATER, DIAPHRAGM | 1 | | | | | | | | | | | | | | | | | | | |

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|----------|------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| P65 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.90 |
| P65 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |
| P65 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.73 | 0.80 |
| P65 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.73 | 0.40 |
| P70 | 0.00 | PUMPS, WATER (For core drills) | 1 | | | | | | | | | | | | | | | | | | | |
| P70 | 0.01 | ENGINE DRIVE | 95 | A | B | 8,000 | 0.25 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.80 |
| P70 | 0.02 | ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.25 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.40 |
| R10 | 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 70 | A | B | 8,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.90 |
| R10 | 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 70 | S | B | 6,500 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.00 |
| R15 | 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | 55 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.92 | 0.70 |
| R20 | 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | 55 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.92 | 0.80 |
| R30 | 0.00 | ROLLERS, STATIC, SELF-PROPELLED | 1 | | | | | | | | | | | | | | | | | | | |
| R30 | 0.01 | PNEUMATIC | 55 | A | B | 8,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.83 | 0.54 | 0.92 | 0.70 |
| R30 | 0.02 | SMOOTH DRUM | 55 | A | B | 10,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| R30 | 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 55 | A | B | 12,000 | 0.20 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| R40 | 0.00 | ROLLERS, VIBRATORY, TOWED | 55 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| R45 | 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | 55 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.10 |
| R50 | 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | 55 | A | B | 8,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.83 | 0.54 | 0.92 | 1.00 |
| R55 | 0.00 | ROOFING EQUIPMENT | 95 | A | B | 6,000 | 0.15 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.97 | 0.87 | 1.08 | 0.80 |
| S10 | 0.00 | SCRAPERS, ELEVATING | 1 | | | | | | | | | | | | | | | | | | | |

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APPENDIX D

EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|---|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| S10 0.01 | 0 THRU 200 HP | 60 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.84 | 0.55 | 0.93 | 0.90 |
| S10 0.01 | 0 THRU 200 HP | 60 | S | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.23 | 0.13 | 0.25 | 1.00 |
| S10 0.02 | OVER 200 HP | 60 | A | B | 13,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.84 | 0.55 | 0.93 | 0.95 |
| S10 0.02 | OVER 200 HP | 60 | S | B | 11,500 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.23 | 0.13 | 0.25 | 1.00 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 60 | A | B | 15,000 | 0.20 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.84 | 0.55 | 0.93 | 0.80 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 60 | S | B | 12,500 | 0.20 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.23 | 0.13 | 0.25 | 0.85 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 60 | A | B | 15,000 | 0.20 | 62 | .620 | .056 | .030 | 62 | .620 | .056 | .030 | .000 | .000 | .110 | 0.84 | 0.55 | 0.93 | 0.85 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 60 | S | B | 13,500 | 0.20 | 81 | .810 | .073 | .039 | 81 | .810 | .073 | .039 | .000 | .000 | .110 | 0.23 | 0.13 | 0.25 | 0.90 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | A | B | 12,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.84 | 0.55 | 0.93 | 0.70 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | S | B | 10,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.23 | 0.13 | 0.25 | 0.75 |
| S30 0.00 | SCREENING & CRUSHING PLANTS | 1 | | | | | | | | | | | | | | | | | | | |
| S30 0.10 | CONVEYORS | 95 | A | B | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.70 |
| S30 0.10 | CONVEYORS | 95 | S | B | 8,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 0.85 |
| S30 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 95 | A | B | 25,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 1.00 |
| S30 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 95 | S | B | 15,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 1.25 |
| S30 0.21 | CRUSHERS - CONE | 95 | A | B | 25,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 1.20 |
| S30 0.21 | CRUSHERS - CONE | 95 | S | B | 15,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 1.60 |
| S30 0.22 | CRUSHERS - JAW | 95 | A | B | 25,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.65 |
| S30 0.22 | CRUSHERS - JAW | 95 | S | B | 15,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 0.85 |
| S30 0.30 | SCREENING PLANT | 95 | A | B | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.80 |
| S30 0.30 | SCREENING PLANT | 95 | S | B | 8,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 1.00 |

EK=Economic Key (Appendix E)

C=Operating Conditions (A=average, S=severe)

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|---|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| S35 0.00 | SNOW REMOVAL EQUIPMENT | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| S40 0.00 | SOIL & ROAD STABILIZERS | 60 | A | B | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.84 | 0.55 | 0.96 | 0.85 |
| S40 0.00 | SOIL & ROAD STABILIZERS | 60 | S | B | 8,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.23 | 0.13 | 0.25 | 0.95 |
| S45 0.00 | SPLITTERS, ROCK & CONCRETE | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| T10 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 70 | A | B | 10,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.96 | 0.80 |
| T10 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 70 | S | B | 8,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.86 | 0.90 |
| T15 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | 1 | | | | | | | | | | | | | | | | | | | |
| T15 0.01 | 0 THRU 225 HP | 70 | A | B | 10,000 | 0.30 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .000 | .153 | 0.00 | 0.00 | 0.00 | 1.10 |
| T15 0.01 | 0 THRU 225 HP | 70 | S | B | 8,000 | 0.30 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .000 | .153 | 0.00 | 0.00 | 0.00 | 1.25 |
| T15 0.02 | 226 HP THRU 425 HP | 70 | A | B | 12,500 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.00 | 0.00 | 0.00 | 1.20 |
| T15 0.02 | 226 HP THRU 425 HP | 70 | S | B | 10,500 | 0.25 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.00 | 0.00 | 0.00 | 1.25 |
| T15 0.03 | OVER 425 HP | 70 | A | B | 15,000 | 0.20 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .000 | .066 | 0.00 | 0.00 | 0.00 | 1.20 |
| T15 0.03 | OVER 425 HP | 70 | S | B | 12,500 | 0.20 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .000 | .066 | 0.00 | 0.00 | 0.00 | 1.35 |
| T20 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | A | B | 14,000 | 0.15 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.96 | 0.63 | 0.00 | 0.60 |
| T20 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | S | B | 13,000 | 0.15 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.25 | 0.15 | 0.00 | 0.65 |
| T25 0.00 | TRACTORS, AGRICULTURAL | 1 | | | | | | | | | | | | | | | | | | | |
| T25 0.10 | CRAWLER | 75 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.00 | 0.00 | 0.00 | 0.85 |
| T25 0.20 | WHEEL | 75 | A | B | 8,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.96 | 0.73 | 0.00 | 0.70 |
| T30 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 80 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 1.08 | 0.82 | 0.00 | 0.90 |
| T30 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 80 | S | B | 6,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 0.32 | 0.22 | 0.00 | 1.00 |
| T35 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 80 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 1.08 | 0.82 | 0.00 | 0.90 |

EK=Economic Key (Appendix E)

C=Operating Conditions (A=average, S=severe)

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

LIFE=Economic Life

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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| T35 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 80 | S | B | 6,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 0.32 | 0.22 | 0.00 | 1.00 |
| T40 0.00 | TRUCK OPTIONS | 1 | | | | | | | | | | | | | | | | | | | |
| T40 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| T40 0.20 | DUMP BODY, REAR | 95 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| T40 0.20 | DUMP BODY, REAR | 95 | S | B | 6,500 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| T40 0.30 | FLATBEDS, WITH SIDES | 95 | A | B | 8,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| T40 0.41 | HOIST, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| T40 0.50 | TRANSIT MIXERS | 95 | A | B | 8,000 | 0.15 | 65 | .650 | .059 | .031 | 35 | .350 | .032 | .017 | .477 | .136 | .136 | 0.77 | 0.69 | 0.86 | 0.70 |
| T40 0.60 | WATER TANKS | 95 | A | B | 8,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.60 |
| T40 0.70 | ALL OTHER OPTIONS | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 1.08 | 0.86 | 1.20 | 0.70 |
| T45 0.00 | TRUCK TRAILERS | 1 | | | | | | | | | | | | | | | | | | | |
| T45 0.10 | BOTTOM DUMP | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.70 |
| T45 0.10 | BOTTOM DUMP | 95 | S | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.18 | 0.00 | 0.20 | 0.80 |
| T45 0.20 | END DUMP | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.65 |
| T45 0.20 | END DUMP | 95 | S | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.18 | 0.00 | 0.20 | 0.75 |
| T45 0.30 | PUP TRAILER | 95 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.60 |
| T45 0.41 | LOWBOY, RIGID NECK, DROP DECK | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| T45 0.50 | FLATBED TRAILER | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| T45 0.60 | MISCELLANEOUS / UTILITY | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| T45 0.70 | WATER TANKER TRAILER | 95 | A | B | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.66 | 0.92 | 0.73 | 0.60 |
| T45 0.80 | DECONTAMINATION FACILITY | 95 | A | B | 8,000 | 0.25 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.70 |
| T45 0.90 | TANK TRAILERS | 95 | A | B | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.66 | 0.00 | 0.73 | 0.70 |

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|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| T50 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | 1 | | | | | | | | | | | | | | | | | | | |
| T50 0.01 | 0 THRU 10,000 GVW | 85 | A | S | 8,000 | 0.20 | 15 | .150 | .014 | .007 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.61 | 0.56 | 0.67 | 0.70 |
| T50 0.01 | 0 THRU 10,000 GVW | 85 | S | S | 6,500 | 0.20 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.20 | 0.16 | 0.22 | 0.75 |
| T50 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 85 | A | S | 10,000 | 0.20 | 35 | .350 | .032 | .017 | 0 | .000 | .000 | .000 | .000 | .127 | .110 | 0.72 | 0.66 | 0.79 | 0.65 |
| T50 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 85 | S | S | 8,000 | 0.20 | 46 | .460 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .127 | .110 | 0.20 | 0.16 | 0.22 | 0.70 |
| T50 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 85 | A | S | 12,000 | 0.20 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.77 | 0.71 | 0.86 | 0.65 |
| T50 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 85 | S | S | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.21 | 0.18 | 0.24 | 0.75 |
| T55 0.00 | TRUCKS, OFF-HIGHWAY | 1 | | | | | | | | | | | | | | | | | | | |
| T55 0.10 | RIGID FRAME | 90 | A | B | 20,000 | 0.15 | 35 | .350 | .032 | .017 | 0 | .000 | .000 | .000 | .000 | .000 | .144 | 0.84 | 0.73 | 0.93 | 0.90 |
| T55 0.10 | RIGID FRAME | 90 | S | B | 18,000 | 0.15 | 45 | .450 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .000 | .144 | 0.23 | 0.18 | 0.25 | 0.95 |
| T55 0.20 | ARTICULATED FRAME | 90 | A | B | 13,000 | 0.15 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .000 | .000 | .080 | 0.84 | 0.73 | 0.93 | 0.80 |
| T55 0.20 | ARTICULATED FRAME | 90 | S | B | 12,250 | 0.15 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .000 | .080 | 0.23 | 0.18 | 0.25 | 0.85 |
| T56 0.00 | TRUCKS, OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | 1 | | | | | | | | | | | | | | | | | | | |
| T56 0.10 | PRIME MOVER TRACTORS | 90 | A | B | 20,000 | 0.15 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .102 | .144 | 0.84 | 0.64 | 0.93 | 0.90 |
| T56 0.10 | PRIME MOVER TRACTORS | 90 | S | B | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.23 | 0.16 | 0.25 | 0.95 |
| T56 0.20 | WAGONS, BOTTOM DUMP | 90 | A | B | 15,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.84 | 0.64 | 0.93 | 0.65 |
| T56 0.20 | WAGONS, BOTTOM DUMP | 90 | S | B | 10,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.23 | 0.16 | 0.25 | 0.75 |
| T56 0.30 | WAGONS, REAR DUMP | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.84 | 0.65 | 0.93 | 0.60 |
| T57 0.00 | TRUCKS, VACUUM | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.23 | 0.17 | 0.25 | 0.80 |
| T60 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.90 | 0.69 | 1.00 | 0.70 |

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|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| T60 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 90 | S | B | 10,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.25 | 0.17 | 0.28 | 0.80 |
| T65 0.00 | TUNNEL/MINING EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| T65 0.10 | DRIFTING & TUNNELING DRILLS | 25 | A | B | 14,000 | 0.15 | 80 | .800 | .072 | .038 | 13 | .130 | .012 | .006 | .530 | .136 | .119 | 0.67 | 0.57 | 0.00 | 0.90 |
| T65 0.20 | TUNNEL BORING MACHINES | 95 | A | B | 18,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| T65 0.20 | TUNNEL BORING MACHINES | 95 | S | B | 16,000 | 0.15 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| T65 0.30 | PRODUCTION DRILLING RIGS | 25 | A | B | 12,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| T65 0.40 | ROADHEADERS & CONTINUOUS MINERS | 95 | A | B | 16,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.90 |
| T65 0.40 | ROADHEADERS & CONTINUOUS MINERS | 95 | S | B | 14,000 | 0.15 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.00 |
| T65 0.50 | ROCK BOLTING EQUIPMENT | 95 | A | B | 10,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| T65 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 95 | A | B | 12,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .136 | .127 | 0.00 | 0.00 | 0.00 | 0.75 |
| T65 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 95 | A | B | 14,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.70 |
| T65 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 95 | A | B | 10,000 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.65 |
| T65 0.70 | LOCOMOTIVES | 95 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.75 |
| T65 0.90 | OTHER TUNNELING EQUIPMENT | 95 | A | B | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 13 | .130 | .012 | .006 | .477 | .136 | .127 | 0.00 | 0.00 | 0.00 | 0.80 |
| W10 0.00 | WAGONS, BOTTOM DUMP | 90 | A | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.88 | 0.67 | 0.98 | 0.65 |
| W10 0.00 | WAGONS, BOTTOM DUMP | 90 | S | B | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.25 | 0.17 | 0.28 | 0.75 |
| W15 0.00 | WAGONS, REAR DUMP | 90 | A | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.88 | 0.77 | 0.98 | 0.60 |
| W15 0.00 | WAGONS, REAR DUMP | 90 | S | B | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.25 | 0.19 | 0.28 | 0.70 |
| W25 0.00 | WATER & CO2 BLASTERS | 1 | | | | | | | | | | | | | | | | | | | |
| W25 0.10 | LOW PRESSURE, (< 5,000 PSI) | 95 | A | B | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 | .119 | 0.96 | 0.73 | 1.07 | 1.10 |
| W25 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 95 | A | B | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 | .119 | 0.96 | 0.73 | 1.07 | 1.20 |
| W25 0.30 | STEAM CLEANERS | 95 | A | B | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 | .119 | 0.00 | 0.00 | 0.73 | 1.10 |

EK=Economic Key (Appendix E)

C=Operating Conditions (A=average, S=severe)

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

LIFE=Economic Life

SLV=Salvage Value

HPF=Horsepower Factor

E=Electric Powered

G=Gas Powered

D=Diesel Powered

FT=Front Tire

DT=Drive Tire

TT=Trailing Tire

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS | | | HPF | CARRIER FUEL FACTORS | | | FOG FACTORS | | | TIRE WEAR FACTORS | | | RCF |
|----------|------|--------------------------------------|----|---|----|--------|------|-----|------------------------|------|------|-----|----------------------|------|------|-------------|------|------|-------------------|------|------|------|
| | | | | | | | | | E | G | D | | E | G | D | E | G | D | FT | DT | TT | |
| W25 | 0.40 | CO2 BLASTERS | 95 | A | B | 6,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .127 | .148 | 0.00 | 0.00 | 0.73 | 1.00 |
| W25 | 0.50 | WET ABRASIVE BLASTING SYSTEM (TORBO) | 95 | A | B | 10,000 | 0.35 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.73 | 0.40 |
| W30 | 0.00 | WATER TANKS | 1 | | | | | | | | | | | | | | | | | | | |
| W30 | 0.10 | PORTABLE WITH WHEELS | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.00 | 0.00 | 0.73 | 0.60 |
| W30 | 0.20 | SKID MOUNTED | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.00 | 0.00 | 0.00 | 0.50 |
| W35 | 0.00 | WELDERS | 1 | | | | | | | | | | | | | | | | | | | |
| W35 | 0.10 | ENGINE DRIVEN | 95 | A | B | 8,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 1.07 | 0.75 |
| W35 | 0.20 | ELECTRIC DRIVEN | 95 | A | B | 6,000 | 0.20 | 30 | .300 | .027 | .014 | 0 | .000 | .000 | .000 | .424 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |

EK=Economic Key (Appendix E)

C=Operating Conditions (A=average, S=severe)

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

LIFE=Economic Life

SLV=Salvage Value

HPF=Horsepower Factor

E=Electric Powered

G=Gas Powered

D=Diesel Powered

FT=Front Tire

DT=Drive Tire

TT=Trailing Tire

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APPENDIX E
ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

| KEY (EK) | EQUIPMENT DIVISIONS | Note: Table 2-1 Equipment Rates are based on equipment purchased new in 2013 {--Projected-----} | | | | | | | | | | | | | | | | | | | |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | |
| 5 | Air Equipment | 3229 | 3171 | 3127 | 3130 | 3079 | 3007 | 2887 | 2796 | 2601 | 2585 | 2458 | 2319 | 2234 | 2157 | 2085 | 2075 | 2069 | 2079 | 2047 | |
| 10 | Asphalt & Concrete Paving Equipment | 5248 | 5155 | 5054 | 4971 | 4970 | 4852 | 4767 | 4652 | 4534 | 4526 | 4381 | 4228 | 4116 | 3950 | 3758 | 3763 | 3769 | 3766 | 3717 | |
| 15 | Buckets | 10101 | 9921 | 9752 | 9709 | 9571 | 9448 | 9257 | 9135 | 8862 | 8911 | 8687 | 8604 | 8502 | 8057 | 7626 | 7443 | 7254 | 6804 | 6900 | |
| 20 | Cranes, Draglines & Clamshells - Crawler & Truck Mtd | 7774 | 7635 | 7505 | 7471 | 7366 | 7271 | 7124 | 7031 | 6820 | 6858 | 6685 | 6621 | 6543 | 6201 | 5869 | 5728 | 5582 | 5236 | 5310 | |
| 25 | Drills | 7015 | 6890 | 6765 | 6691 | 6594 | 6467 | 6391 | 6205 | 5987 | 5938 | 5783 | 5448 | 5104 | 4762 | 4444 | 4192 | 4116 | 3819 | 3736 | |
| 30 | Generators | 6801 | 6680 | 6568 | 6554 | 6555 | 6458 | 6397 | 6262 | 5905 | 5794 | 5628 | 5357 | 5112 | 4888 | 4641 | 4566 | 4548 | 4548 | 4529 | |
| 35 | Graders, Motor | 9763 | 9589 | 9427 | 9231 | 9079 | 8933 | 8648 | 7920 | 7632 | 7516 | 7155 | 6909 | 6825 | 6578 | 6318 | 6117 | 6049 | 5979 | 5952 | |
| 40 | Loaders, Track | 8880 | 8722 | 8578 | 8484 | 8449 | 8369 | 8088 | 7713 | 7434 | 7454 | 7254 | 7037 | 6907 | 6653 | 6347 | 6177 | 6081 | 6058 | 6032 | |
| 45 | Loaders, Wheel | 8195 | 8049 | 7917 | 7830 | 7798 | 7723 | 7464 | 7119 | 6861 | 6880 | 6695 | 6494 | 6374 | 6140 | 5857 | 5701 | 5612 | 5591 | 5567 | |
| 50 | Pile Driving Equipment | 7793 | 7654 | 7526 | 7461 | 7370 | 7247 | 7063 | 6787 | 6582 | 6569 | 6375 | 6176 | 6033 | 5787 | 5450 | 5270 | 5195 | 5127 | 5112 | |
| 55 | Rollers | 8224 | 8078 | 7943 | 7888 | 7730 | 7491 | 7341 | 7157 | 6983 | 6938 | 6736 | 6424 | 6145 | 5872 | 5646 | 5406 | 5285 | 5225 | 5130 | |
| 60 | Scrapers & Soil Stabilizers | 9763 | 9589 | 9427 | 9231 | 9079 | 8933 | 8648 | 7920 | 7632 | 7516 | 7155 | 6909 | 6825 | 6578 | 6318 | 6117 | 6049 | 5979 | 5952 | |
| 65 | Shovels, Backhoes & Hydraulic Excavators | 7774 | 7635 | 7505 | 7471 | 7366 | 7271 | 7124 | 7031 | 6820 | 6858 | 6685 | 6621 | 6543 | 6201 | 5869 | 5728 | 5582 | 5236 | 5310 | |
| 70 | Tractors, Crawlers & Attachments | 8880 | 8722 | 8578 | 8484 | 8449 | 8369 | 8088 | 7713 | 7434 | 7454 | 7254 | 7037 | 6907 | 6653 | 6347 | 6177 | 6081 | 6058 | 6032 | |
| 75 | Tractor, Wheel | 7904 | 7763 | 7634 | 7581 | 7429 | 7199 | 7050 | 6845 | 6678 | 6636 | 6442 | 6144 | 5876 | 5616 | 5400 | 5170 | 5055 | 4997 | 4906 | |
| 80 | Trenchers | 10152 | 9971 | 9805 | 9737 | 9542 | 9246 | 9062 | 8835 | 8620 | 8565 | 8314 | 7930 | 7584 | 7248 | 6970 | 6466 | 6524 | 6450 | 6332 | |
| 85 | Trucks, Highway | 6734 | 6614 | 6505 | 6371 | 6250 | 6139 | 5988 | 5648 | 5485 | 5366 | 5123 | 4965 | 4820 | 4638 | 4450 | 4356 | 4306 | 4216 | 4212 | |
| 90 | Trucks & Wagons - Off-Highway | 8856 | 8699 | 8550 | 8482 | 8315 | 8170 | 8103 | 7940 | 7820 | 7785 | 7651 | 7392 | 7231 | 6896 | 6424 | 6095 | 6026 | 5931 | 5828 | |
| 95 | All Other Equipment | 7793 | 7654 | 7526 | 7461 | 7370 | 7247 | 7063 | 6787 | 6582 | 6569 | 6375 | 6176 | 6033 | 5787 | 5450 | 5270 | 5195 | 5127 | 5112 | |
| 100 | All Tires & Tubes | 3930 | 3860 | 3796 | 3812 | 3892 | 3989 | 4062 | 3929 | 3525 | 3343 | 3267 | 3025 | 2926 | 2759 | 2614 | 2487 | 2430 | 2401 | 2373 | |
| 105 | Marine Equipment | 8949 | 8789 | 8643 | 8585 | 8460 | 8313 | 8216 | 8118 | 7941 | 7773 | 7466 | 7202 | 6905 | 6661 | 6436 | 6101 | 5846 | 5771 | 5645 | |

EK = Economic Key

APPENDIX E
ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

| KEY (EK) | | EQUIPMENT DIVISIONS | Note: Table 2-1 Equipment Rates are based on equipment purchased new in 2013 | | | | | | | | | | | | | | | | | |
|-------------|--|---------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 |
| 5 | Air Equipment | | 2078 | 2074 | 2070 | 2063 | 2053 | 2012 | 2022 | 2008 | 1963 | 1956 | 1888 | 1801 | 1730 | 1720 | 1733 | 1683 | 1695 | 1668 |
| 10 | Asphalt & Concrete Paving Equipment | | 3638 | 3589 | 3490 | 3390 | 3323 | 3248 | 3189 | 3092 | 3106 | 2967 | 2867 | 2793 | 2730 | 2687 | 2687 | 2611 | 2583 | 2620 |
| 15 | Buckets | | 6982 | 6930 | 6888 | 6774 | 6672 | 6638 | 6663 | 6380 | 5901 | 5640 | 5314 | 4872 | 4767 | 4713 | 4640 | 4527 | 4471 | 4541 |
| 20 | Cranes, Draglines & Clamshells - Crawler & Truck Mtd | | 5289 | 5225 | 5116 | 5013 | 4880 | 4783 | 4736 | 4540 | 4298 | 4152 | 3967 | 3688 | 3595 | 3485 | 3395 | 3339 | 3282 | 3213 |
| 25 | Drills | | 3683 | 3626 | 3574 | 3518 | 3394 | 3320 | 3268 | 3196 | 3163 | 3069 | 2969 | 2807 | 2792 | 2786 | 2832 | 2803 | 2836 | 2810 |
| 30 | Generators | | 4520 | 4517 | 4484 | 4511 | 4457 | 4343 | 4294 | 4234 | 4181 | 4116 | 3998 | 3773 | 3575 | 3514 | 3510 | 3400 | 3314 | 3236 |
| 35 | Graders, Motor | | 5853 | 5682 | 5544 | 5466 | 5186 | 5088 | 4946 | 4655 | 4509 | 4359 | 4219 | 4010 | 3914 | 3759 | 3738 | 3645 | 3643 | 3561 |
| 40 | Loaders, Track | | 5960 | 5792 | 5686 | 5606 | 5434 | 5257 | 5068 | 4816 | 4677 | 4555 | 4404 | 4163 | 3918 | 3770 | 3767 | 3791 | 3792 | 3655 |
| 45 | Loaders, Wheel | | 5511 | 5409 | 5303 | 5251 | 5101 | 4988 | 4894 | 4758 | 4640 | 4532 | 4409 | 4235 | 4099 | 3991 | 3973 | 3944 | 3873 | 3788 |
| 50 | Pile Driving Equipment | | 5062 | 4993 | 4892 | 4809 | 4700 | 4598 | 4539 | 4427 | 4305 | 4182 | 4029 | 3845 | 3745 | 3668 | 3626 | 3570 | 3519 | 3439 |
| 55 | Rollers | | 5204 | 5092 | 5001 | 4950 | 4851 | 4719 | 4484 | 4460 | 4668 | 4630 | 4507 | 4412 | 4217 | 4151 | 4090 | 3926 | 3744 | 3431 |
| 60 | Scrapers & Soil Stabilizers | | 5853 | 5682 | 5544 | 5466 | 5186 | 5088 | 4946 | 4655 | 4509 | 4359 | 4219 | 4010 | 3914 | 3759 | 3738 | 3645 | 3643 | 3561 |
| 65 | Shovels, Backhoes & Hydraulic Excavators | | 5289 | 5225 | 5116 | 5013 | 4880 | 4783 | 4736 | 4540 | 4298 | 4152 | 3967 | 3688 | 3595 | 3485 | 3395 | 3339 | 3282 | 3213 |
| 70 | Tractors, Crawlers & Attachments | | 5960 | 5792 | 5686 | 5606 | 5434 | 5257 | 5068 | 4816 | 4677 | 4555 | 4404 | 4163 | 3918 | 3770 | 3767 | 3791 | 3792 | 3655 |
| 75 | Tractor, Wheel | | 4833 | 4695 | 4624 | 4540 | 4527 | 4484 | 4342 | 4270 | 4186 | 4123 | 4018 | 3936 | 3862 | 3820 | 3818 | 3656 | 3557 | 3530 |
| 80 | Trenchers | | 6223 | 6042 | 5833 | 5749 | 5670 | 5509 | 5207 | 5015 | 4948 | 4886 | 4753 | 4679 | 4600 | 4586 | 4488 | 4431 | 4360 | 4097 |
| 85 | Trucks, Highway | | 4307 | 4216 | 4241 | 4318 | 4293 | 4190 | 4025 | 3838 | 3669 | 3546 | 3495 | 3363 | 3299 | 3282 | 3139 | 3055 | 2934 | 2824 |
| 90 | Trucks & Wagons - Off-Highway | | 5715 | 5651 | 5581 | 5440 | 5265 | 4979 | 4837 | 4797 | 4739 | 4617 | 4405 | 4094 | 3915 | 3840 | 3822 | 3786 | 3744 | 3662 |
| 95 | All Other Equipment | | 5062 | 4993 | 4892 | 4809 | 4700 | 4598 | 4539 | 4427 | 4305 | 4182 | 4029 | 3845 | 3745 | 3668 | 3626 | 3570 | 3519 | 3439 |
| 100 | All Tires & Tubes | | 2371 | 2400 | 2431 | 2475 | 2559 | 2517 | 2525 | 2524 | 2506 | 2470 | 2480 | 2399 | 2322 | 2340 | 2374 | 2421 | 2453 | 2552 |
| 105 | Marine Equipment | | 5556 | 5513 | 5429 | 5245 | 5036 | 4951 | 4881 | 4679 | 4438 | 4271 | 4091 | 3920 | 3886 | 3863 | 3749 | 3633 | 3497 | 3391 |

EK = Economic Key

APPENDIX F

TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (I) | COST PER EACH | |
|---|---------------|------------------|-------|---------------------------|-------|-------------|------------------|-------|
| <u>LT TRUCK/RECREATIONAL VEHICLE, RADIAL</u> | | | | | | | | |
| WORKHORSE EXTRA GRIP RADIAL | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ABAA3 | | LT265/75R16 | 10.43 | x | 16.00 | 10 | TL | \$189 |
| WRANGLER RADIAL AT | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ABAC1 | | LT235/75R15 | 9.25 | x | 15.00 | 6 | TL | \$141 |
| ABAC2 | | 31-1050R15 | 10.50 | x | 15.00 | 6 | TL | \$157 |
| SERVICE TRAILER - MARATHON RADIAL | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ABBF1 | | ST175/80R13 | 6.89 | x | 13.00 | 6 | TL | \$71 |
| ABBF3 | | ST185/80R13 | 7.28 | x | 13.00 | 6 | TL | \$78 |
| ABBF5 | | ST205/75R14 | 8.07 | x | 14.00 | 6 | TL | \$83 |
| ABBF8 | | ST205/75R15 | 8.07 | x | 15.00 | 6 | TL | \$90 |
| ABBF6 | | ST215/75R14 | 8.46 | x | 14.00 | 6 | TL | \$88 |
| ABBF9 | | ST225/75R15 | 8.86 | x | 15.00 | 6 | TL | \$102 |
| ABBF10 | | ST225/75R15 | 8.86 | x | 15.00 | 8 | TL | \$133 |
| <u>LT TRUCK/RECREATIONAL VEHICLE, BIAS</u> | | | | | | | | |
| WORKHORSE RIB | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ACBA2 | | 7.00-15LT | 7.00 | x | 15.00 | 10 | TL | \$129 |
| ACBA4 | | 750-16LT | 7.50 | x | 16.00 | 10 | TL | \$152 |
| ACBA7 | | 8.75-16.5LT | 8.75 | x | 16.50 | 10 | TL | \$92 |
| ACBA9 | | ST235/85R16 | 9.25 | x | 16.00 | 10 | TL | \$157 |
| TRACTION HI-MILER | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ACBC1 | | 6.70-15LT | 6.70 | x | 15.00 | 6 | TL | \$161 |
| ACBC3 | | 8-14.5LT | 8.00 | x | 14.50 | 12 | TL | \$130 |
| ACBC4 | | 9-14.5LT | 9.00 | x | 14.50 | 12 | TL | \$130 |
| CUSTOM HI-MILER | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ACBD1 | | 12-16.5LT | 12.00 | x | 16.50 | 12 | TL | \$170 |
| <u>OVER-THE-ROAD TRUCK, COMMERCIAL, RADIAL</u> | | | | | | | | |
| COMMERCIAL RADIAL LT TRUCK | | | | <i>(Life = 5000 hrs)</i> | | | | |
| ADCA17 | | 8R19.5 | 8.00 | x | 19.50 | 12 | TL | \$284 |
| ADCA18 | | 8R195 | 8.00 | x | 19.50 | 12 | TL | \$304 |
| ADCA4 | | LT215/85R16 | 8.46 | x | 16.00 | 10 | TL | \$123 |

(1) *TT = includes tube, TL = no tube, NO = no tube*

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|---|---------------|------------------|---------------|---------------------------|-------------|------------------|
| ADCA3 | | LT215/85R16 | 8.46 x 16.00 | 10 | TL | \$182 |
| ADCA6 | | LT225/75R16 | 8.86 x 16.00 | 10 | TL | \$143 |
| ADCA1 | | 225/75R16 | 8.86 x 16.00 | 10 | TL | \$173 |
| ADCA2 | | LT225/75R16 | 8.86 x 16.00 | 10 | TL | \$299 |
| ADCA19 | | 225/70R195 | 8.86 x 19.50 | 12 | TL | \$296 |
| ADCA8 | | LT235/85R16 | 9.25 x 16.00 | 10 | TL | \$150 |
| ADCA11 | | LT245/75R16 | 9.65 x 16.00 | 10 | TL | \$123 |
| ADCA21 | | 245/70R195 | 9.65 x 19.50 | 14 | TL | \$332 |
| COMMERCIAL RADIAL TRUCK TL | | | | <i>(Life = 5000 hrs)</i> | | |
| ADCB2 | | 9R175 | 9.00 x 17.50 | 14 | TL | \$363 |
| ADCB5 | | 9R22.5 | 9.00 x 22.50 | 14 | TL | \$272 |
| ADCB3 | | 10R175 | 10.00 x 17.50 | 16 | TL | \$368 |
| ADCB7 | | 10R22.5 | 10.00 x 22.50 | 14 | TL | \$403 |
| ADCB4 | | 11R17.5 | 11.00 x 17.50 | 14 | TL | \$293 |
| ADCB8 | | 11R22.5 | 11.00 x 22.50 | 16 | TL | \$506 |
| ADCB13 | | 11R24.5 | 11.00 x 24.50 | 16 | TL | \$536 |
| ADCB10 | | 12R22.5 | 12.00 x 22.50 | 16 | TL | \$591 |
| ADCB14 | | 12R24.5 | 12.00 x 24.50 | 16 | TL | \$620 |
| LOW PROFILE RADIAL TRUCK TL | | | | <i>(Life = 5000 hrs)</i> | | |
| ADCC1 | | 215/75R175 | 8.46 x 17.50 | 16 | TL | \$372 |
| ADCC5 | | 245/75R22.5 | 9.65 x 22.50 | 14 | TL | \$343 |
| ADCC3 | | 255/70R22.5 | 10.04 x 22.50 | 16 | TL | \$555 |
| ADCC2 | | 265/70R19.5 | 10.40 x 19.50 | 14 | TL | \$442 |
| ADCC6 | | 265/75R22.5 | 10.43 x 22.50 | 14 | TL | \$379 |
| ADCC4 | | 275/70R22.5 | 10.80 x 22.50 | 18 | TL | \$417 |
| ADCC12 | | 285/75R24.5 | 11.22 x 24.50 | 14 | TL | \$500 |
| ADCC8 | | 295/75R22.5 | 11.61 x 22.50 | 14 | TL | \$404 |
| ADCC10 | | 315/80R22.5 | 12.40 x 22.50 | 18 | TL | \$732 |
| SUPER SINGLE COMMERCIAL RADIAL TRUCK | | | | <i>(Life = 5000 hrs)</i> | | |
| ADCD1 | | 385/65R22.5 | 15.16 x 22.50 | 18 | TL | \$730 |
| ADCD2 | | 425/65R22.5 | 16.73 x 22.50 | 20 | TL | \$817 |
| ADCD3 | | 445/65R22.5 | 17.52 x 22.50 | 20 | TL | \$886 |
| COMMERCIAL RADIAL TRUCK TT | | | | <i>(Life = 5000 hrs)</i> | | |
| ADCE1 | | 825R15 | 8.25 x 15.00 | 14 | TT | \$259 |
| ADCE5 | | 225/70R19.5 | 8.86 x 19.50 | 12 | TT | \$372 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|-------------------------------------|---------------|------------------|---------------|-----|-------------|------------------|
| ADCE6 | | 225/70R19.5 | 8.86 x 19.50 | 14 | TT | \$326 |
| ADCE3 | | LT235/85R16 | 9.25 x 16.00 | 14 | TT | \$302 |
| ADCE7 | | 245/70R19.5 | 9.65 x 19.50 | 14 | TT | \$475 |
| ADCE13 | | 10R22.5 | 10.00 x 22.50 | 14 | TT | \$391 |
| ADCE12 | | 365/80R20 | 10.40 x 20.00 | 20 | TT | \$754 |
| ADCE9 | | 1100R20 | 11.00 x 20.00 | 16 | TT | \$523 |
| ADCE10 | | 1100R20 | 11.00 x 20.00 | 16 | TT | \$574 |
| ADCE14 | | 11R22.5 | 11.00 x 22.50 | 16 | TT | \$482 |
| ADCE15 | | 1200R24 | 12.00 x 24.00 | 18 | TT | \$744 |
| ADCE17 | | 1200R24 | 12.00 x 24.00 | 18 | TT | \$899 |
| ADCE11 | | 305/70R19.5 | 12.01 x 19.50 | 18 | TT | \$533 |
| FARM, FRONT | | | | | | |
| DYNA RIB F-2-M | | | | | | |
| <i>(Life = 5000 hrs)</i> | | | | | | |
| AFED2 | F-2M | 1000-16 | 10.00 x 16.00 | 8 | TL | \$339 |
| AFED1 | F-2M | 11L-15 | 11.00 x 15.00 | 6 | TL | \$329 |
| AFED4 | F-2M | 1100-16 | 11.00 x 16.00 | 8 | TL | \$449 |
| AFED8 | F-2M | 1100-24 | 11.00 x 24.00 | 12 | TL | \$986 |
| AFED6 | F-2M | 14L-161 | 14.00 x 16.10 | 10 | TL | \$859 |
| AFED7 | F-2M | 165L-161 | 16.50 x 16.10 | 8 | TL | \$1,095 |
| SINGLE RIB FRONT TRACTOR F-1 | | | | | | |
| <i>(Life = 5000 hrs)</i> | | | | | | |
| AFEE1 | F-1 | 600-16 | 6.00 x 16.00 | 4 | TT | \$244 |
| FARM HIGHWAY SERVICE | | | | | | |
| <i>(Life = 5000 hrs)</i> | | | | | | |
| AEF2 | I-1 | 95L-15F1 | 9.50 x 15.00 | 8 | TL | \$274 |
| FARM UTILITY | | | | | | |
| <i>(Life = 5000 hrs)</i> | | | | | | |
| AFEG7 | I-1 | 750-14 | 7.50 x 14.00 | 4 | TL | \$226 |
| AFEG14 | I-1 | 760-15 | 7.60 x 15.00 | 8 | TL | \$197 |
| AFEG8 | I-1 | 85L-14 | 8.50 x 14.00 | 6 | TL | \$204 |
| AFEG1 | I-1 | 95L-14 | 9.50 x 14.00 | 6 | TL | \$199 |
| AFEG17 | I-1 | 95L-15 | 9.50 x 15.00 | 12 | TL | \$294 |
| AFEG18 | I-1 | 1000-15 | 10.00 x 15.00 | 8 | TL | \$346 |
| AFEG11 | I-1 | 11L-14 | 11.00 x 14.00 | 8 | TL | \$263 |
| AFEG22 | I-1 | 11L-15 | 11.00 x 15.00 | 10 | TL | \$301 |
| AFEG20 | I-1 | 11L-15 | 11.00 x 15.00 | 8 | TL | \$220 |
| AFEG34 | I-1 | 11L-16 | 11.00 x 16.00 | 10 | TL | \$305 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|-------------------------------------|---------------|------------------|---------------|---------------------------|----------|---------------|
| AFEG25 | I-1 | 125L-15 | 12.50 x 15.00 | 12 | TL | \$377 |
| AFEG30 | I-1 | 125L-16 | 12.50 x 16.00 | 12 | TL | \$438 |
| AFEG29 | I-1 | 125L-16 | 12.50 x 16.00 | 8 | TL | \$388 |
| AFEG28 | I-1 | 14L-161 | 14.00 x 16.10 | 12 | TL | \$661 |
| AFEG31 | I-1 | 165L-161 | 16.50 x 16.10 | 10 | TL | \$657 |
| AFEG32 | I-1 | 19L-161 | 19.00 x 16.10 | 10 | TL | \$865 |
| AFEG27 | I-1 | 215L-161 | 21.50 x 16.10 | 14 | TL | \$1,407 |
| FOUR RIB FRONT TRACTOR F-2-M | | | | <i>(Life = 5000 hrs)</i> | | |
| AFEH1 | F-2M | 750-16 | 7.50 x 16.00 | 6 | TT | \$226 |
| AFEH3 | F-2M | 1000-16 | 10.00 x 16.00 | 8 | TT | \$313 |
| AFEH4 | F-2M | 1100-16 | 11.00 x 16.00 | 8 | TT | \$422 |
| IMPLEMENT RIB | | | | <i>(Life = 5000 hrs)</i> | | |
| TFEK11 | F-2 | 4.00-19 | 4.00 x 19.00 | 4 | TT | \$163 |
| AFEK4 | I-1 | 500-15 | 5.00 x 15.00 | 4 | TL | \$123 |
| AFEK16 | I-1 | 590-15 | 5.90 x 15.00 | 4 | TL | \$166 |
| AFEK6 | I-1 | 600-16 | 6.00 x 16.00 | 6 | TL | \$171 |
| AFEK7 | I-1 | 650-16 | 6.50 x 16.00 | 6 | TL | \$171 |
| AFEK5 | I-1 | 670-15 | 6.70 x 15.00 | 6 | TL | \$164 |
| AFEK9 | I-1 | 750-16 | 7.50 x 16.00 | 10 | TL | \$284 |
| AFEK13 | I-1 | 900-24 | 9.00 x 24.00 | 8 | TL | \$618 |
| AFEK14 | I-1 | 1125-28 | 11.25 x 28.00 | 12 | TL | \$1,150 |
| LABORER F-3 | | | | <i>(Life = 5000 hrs)</i> | | |
| AFEL6 | F-3 | 145/75-161 | 5.70 x 16.10 | 10 | TL | \$762 |
| AFEL2 | F-3 | 11L-15 | 11.00 x 15.00 | 10 | TL | \$339 |
| AFEL4 | F-3 | 11L-16 | 11.00 x 16.00 | 10 | TL | \$316 |
| AFEL5 | F-3 | 11L-16 | 11.00 x 16.00 | 12 | TL | \$361 |
| MULTI-RIB F-3 | | | | <i>(Life = 5000 hrs)</i> | | |
| AFEM1 | F-3 | 900-10 | 9.00 x 10.00 | 10 | TT | \$229 |
| TFEM2 | F-3 | 1100-16 | 11.00 x 16.00 | 12 | TL | \$550 |
| SMOOTH | | | | <i>(Life = 5000 hrs)</i> | | |
| AFEN1 | I-1 | 169-30 | 16.90 x 30.00 | 6 | TL | \$1,315 |
| SMOOTH IMP | | | | <i>(Life = 5000 hrs)</i> | | |
| AFEO1 | | 4.00-8 | 4.00 x 8.00 | 4 | TL | \$124 |
| AFEO3 | | 600-16 | 6.00 x 16.00 | 10 | TL | \$382 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|----------------------------|---------------|------------------|---------------|-----|-------------|------------------|
| AFEO2 | | 11L-15 | 11.00 x 15.00 | 10 | TL | \$367 |
| SOFTRAC II | | | | | | |
| AFEP1 | I-2 | 165L-161 | 16.50 x 16.10 | 6 | TL | \$738 |
| AFEP3 | I-2 | 215L-161 | 21.50 x 16.10 | 10 | TL | \$1,684 |
| SUPER RIB F-2 | | | | | | |
| TFER1 | F-2 | 400-12 | 4.00 x 12.00 | 4 | TT | \$116 |
| COMPACT UTILITY R-1 | | | | | | |
| TFES2 | | 5-12 | 5.00 x 12.00 | 4 | TL | \$124 |
| AFES1 | | 7-16 | 7.00 x 16.00 | 6 | TL | \$269 |
| SURE GRIP IMPLEMENT | | | | | | |
| AFET1 | I-3 | 105/80-18 | 10.50 x 18.00 | 10 | TL | \$701 |
| AFET2 | I-3 | 12.5/80-18 | 12.50 x 18.00 | 10 | TL | \$757 |
| SURE GRIP LUG | | | | | | |
| AFEU2 | I-3 | 105/80-18 | 10.50 x 18.00 | 10 | TL | \$577 |
| AFEU1 | I-3 | 124-16 | 12.40 x 16.00 | 4 | TL | \$854 |
| AFEU3 | I-3 | 12.5/80-18 | 12.50 x 18.00 | 14 | TL | \$703 |
| SURE GRIP TRACTION | | | | | | |
| AFEV1 | I-3 | 670-15 | 6.70 x 15.00 | 4 | TT | \$217 |
| AFEV5 | I-3 | 750-16 | 7.50 x 16.00 | 4 | TL | \$337 |
| AFEV2 | I-3 | 750-18 | 7.50 x 18.00 | 4 | TT | \$331 |
| AFEV3 | I-3 | 750-20 | 7.50 x 20.00 | 4 | TT | \$375 |
| AFEV4 | I-3 | 760-15 | 7.60 x 15.00 | 6 | TL | \$288 |
| TRACTION IMPLEMENT | | | | | | |
| AFEW1 | I-3 | 500-15 | 5.00 x 15.00 | 4 | TL | \$210 |
| AFEW2 | I-3 | 590-15 | 5.90 x 15.00 | 4 | TL | \$224 |
| TRIPLE RIB HD | | | | | | |
| AFEX8 | F-2 | 550-16 | 5.50 x 16.00 | 6 | TT | \$134 |
| AFEX10 | F-2 | 600-16 | 6.00 x 16.00 | 6 | TT | \$151 |
| AFEX11 | F-2 | 650-16 | 6.50 x 16.00 | 6 | TT | \$191 |
| AFEX4 | F-2 | 75L-15 | 7.50 x 15.00 | 6 | TT | \$186 |
| AFEX18 | F-2 | 750-16 | 7.50 x 16.00 | 6 | TL | \$223 |
| AFEX13 | F-2 | 750-16 | 7.50 x 16.00 | 8 | TT | \$230 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|---------------------------|---------------|------------------|---------------------------|-------|----------|---------------|
| AFEX14 | F-2 | 750-18 | 7.50 x 18.00 | 6 | TT | \$257 |
| AFEX5 | F-2 | 95L-15 | 9.50 x 15.00 | 8 | TT | \$296 |
| AFEX16 | F-2 | 1000-16 | 10.00 x 16.00 | 8 | TL | \$366 |
| AFEX6 | F-2 | 11L-15 | 11.00 x 15.00 | 8 | TT | \$329 |
| AFEX17 | F-2 | 1100-16 | 11.00 x 16.00 | 8 | TL | \$460 |
| TRIPLE RIB R/S F-2 | | | <i>(Life = 5000 hrs)</i> | | | |
| AFEY2 | F-2 | 400-15 | 4.00 x 15.00 | 4 | TT | \$159 |
| AFEY1 | F-2 | 500-15 | 5.00 x 15.00 | 4 | TT | \$151 |
| DURATORQUE R-1 | | | <i>(Life = 5000 hrs)</i> | | | |
| AFFU3 | R-1 | 8-16 | 8.00 x 16.00 | 6 | TL | \$335 |
| <u>FARM, REAR</u> | | | | | | |
| ALL TRACTION R-3 | | | <i>(Life = 5000 hrs)</i> | | | |
| AGFA1 | R-3 | 9.5-16 | 9.50 x 16.00 | 4 | TT | \$581 |
| ALL WEATHER R-3 | | | <i>(Life = 5000 hrs)</i> | | | |
| AGFB2 | R-3 | 95-24 | 9.50 x 24.00 | 4 | TT | \$567 |
| AGFB7 | R-3 | 136-161 | 13.60 x 16.10 | 8 | TL | \$970 |
| AGFB5 | R-3 | 136-28 | 13.60 x 28.00 | 6 | TT | \$1,056 |
| AGFB3 | R-3 | 149-24 | 14.90 x 24.00 | 6 | TL | \$1,034 |
| AGFB4 | R-3 | 169-24 | 16.90 x 24.00 | 6 | TL | \$1,212 |
| AGFB8 | R-3 | 184-161 | 18.40 x 16.10 | 8 | TL | \$1,238 |
| AGFB10 | R-3 | 184-26 | 18.40 x 26.00 | 12 | TL | \$1,433 |
| AGFB11 | R-3 | 231-26 | 23.10 x 26.00 | 10 | TL | \$2,241 |
| AGFB12 | R-3 | 231-26 | 23.10 x 26.00 | 12 | TL | \$2,351 |
| AGFB14 | R-3 | 245-32 | 24.50 x 32.00 | 12 | TL | \$3,716 |
| AGFB13 | R-3 | 28L-26 | 28.00 x 26.00 | 16 | TL | \$3,273 |
| AGFB15 | R-3 | 305L-32 | 30.50 x 32.00 | 12 | TL | \$4,382 |
| AGFB16 | R-3 | 305L-32 VA | 30.50 x 32.00 | 16 | TL | \$5,574 |
| DT 800 RADIAL R-1W | | | <i>(Life = 5000 hrs)</i> | | | |
| AGFE1 | R-1W | 320/90R42 | 12.60 x 42.00 | 139A8 | TL | \$2,191 |
| AGFE3 | R-1W | 320/90R50 | 12.60 x 50.00 | 148A8 | TL | \$2,866 |
| AGFE2 | R-1W | 380/90R46 | 14.90 x 46.00 | 149A8 | TL | \$2,828 |
| DT 812 RADIAL R-1W | | | <i>(Life = 5000 hrs)</i> | | | |
| AGFF1 | R-1W | 380/70R24 | 14.90 x 24.00 | 125A8 | TL | \$2,166 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (I) | COST PER EACH |
|-------------------------------|---------------|------------------|-------|---------|---------|-------------|------------------|
| AGFF2 | R-1W | 420/70R28 | 16.50 | x 28.00 | 133A8 | TL | \$3,021 |
| AGFF3 | R-1W | 480/70R30 | 18.90 | x 30.00 | 152A8 | TL | \$3,067 |
| DT 820 RADIAL R-1W | | | | | | | |
| AGFG2 | R-1W | 600/65R28 | 23.60 | x 28.00 | 154A8/B | TL | \$3,775 |
| AGFG1 | R-1W | 620/75R26 | 24.40 | x 26.00 | 166A8 | TL | \$6,290 |
| AGFG5 | R-1W | 620/70R42 | 24.40 | x 42.00 | 160A8 | TL | \$4,347 |
| AGFG3 | R-1W | 650/75R34 | 25.60 | x 34.00 | 162A8 | TL | \$5,946 |
| AGFG4 | R-1W | 710/70R38 | 27.90 | x 38.00 | 166A8 | TL | \$4,728 |
| DYNA TORQUE RADIAL R-1 | | | | | | | |
| AGFH7 | R-1 | 380/85R30 | 14.90 | x 30.00 | 135A8/B | TL | \$2,051 |
| TGFH5 | R-1 | 380/85R34 | 14.90 | x 34.00 | 137A8 | TL | \$2,399 |
| AGFH9 | R-1 | 380/85R34 | 14.90 | x 34.00 | 137A8/B | TL | \$2,289 |
| TGFH6 | R-1 | 380/85R34 | 14.90 | x 34.00 | 148A8 | TL | \$2,300 |
| AGFH15 | R-1 | 380/85R46 | 14.90 | x 46.00 | 147A8/B | TL | \$2,733 |
| AGFH16 | R-1 | 420/80R46 | 16.50 | x 46.00 | 159A8/B | TL | \$3,725 |
| AGFH8 | R-1 | 420/90R30 | 16.90 | x 30.00 | 142A8/B | TL | \$2,325 |
| TGFH2 | R-3 | 184-26 | 18.40 | x 26.00 | 146A8 | TL | \$2,896 |
| AGFH10 | R-1 | 480/80R38 | 18.40 | x 38.00 | 149A8/B | TL | \$2,064 |
| AGFH17 | R-1 | 480/80R46 | 18.40 | x 46.00 | 158A8/B | TL | \$3,190 |
| AGFH12 | R-1 | 520/85R38 | 20.80 | x 38.00 | 148A8/B | TL | \$2,677 |
| AGFH14 | R-1 | 520/85R42 | 20.80 | x 42.00 | 157A8/B | TL | \$2,905 |
| DYNA TORQUE II R-1 | | | | | | | |
| AGFJ29 | R-1 | 112-16 | 11.20 | x 16.00 | 4 | TL | \$507 |
| AGFJ6 | R-1 | 136-24 | 13.60 | x 24.00 | 8 | TT | \$1,054 |
| AGFJ41 | R-1 | 136-28 | 13.60 | x 28.00 | 10 | TL | \$1,336 |
| AGFJ7 | R-1 | 149-24 | 14.90 | x 24.00 | 6 | TL | \$811 |
| AGFJ31 | R-1 | 149-24 | 14.90 | x 24.00 | 8 | TL | \$933 |
| AGFJ42 | R-1 | 149-28 | 14.90 | x 28.00 | 10 | TL | \$1,201 |
| AGFJ8 | R-1 | 169-24 | 16.90 | x 24.00 | 6 | TT | \$1,008 |
| AGFJ39 | R-1 | 169-26 | 16.90 | x 26.00 | 10 | TL | \$1,273 |
| AGFJ43 | R-1 | 169-28 | 16.90 | x 28.00 | 10 | TL | \$2,023 |
| AGFJ37 | R-1 | 169-34 | 16.90 | x 34.00 | 6 | TT | \$1,229 |
| AGFJ23 | R-1 | 169-38 | 16.90 | x 38.00 | 14 | TT | \$2,191 |
| AGFJ40 | R-1 | 184-26 | 18.40 | x 26.00 | 12 | TL | \$1,757 |
| AGFJ18 | R-1 | 184-34 | 18.40 | x 34.00 | 8 | TT | \$1,413 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | | PLY | TUBE (I) | COST PER EACH |
|---------------------------------|---------------|------------------|-------|---|-------|---------------------------|-------------|------------------|
| AGFJ24 | R-1 | 184-38 | 18.40 | x | 38.00 | 8 | TT | \$1,474 |
| AGFJ19 | R-1 | 208-34 | 20.80 | x | 34.00 | 8 | TT | \$2,457 |
| AGFJ25 | R-1 | 208-38 | 20.80 | x | 38.00 | 8 | TT | \$1,967 |
| AGFJ27 | R-1 | 208-42 | 20.80 | x | 42.00 | 10 | TL | \$3,286 |
| AGFJ45 | R-1 | 231-26 | 23.10 | x | 26.00 | 12 | TL | \$2,478 |
| AGFJ20 | R-1 | 231-34 | 23.10 | x | 34.00 | 8 | TT | \$2,739 |
| AGFJ35 | R-1 | 245-32 | 24.50 | x | 32.00 | 12 | TL | \$3,091 |
| AGFJ34 | R-1 | 28L-26 | 28.00 | x | 26.00 | 12 | TL | \$3,146 |
| AGFJ36 | R-1 | 305L-32 | 30.50 | x | 32.00 | 14 | TL | \$4,691 |
| INDUSTRIAL SURE GRIP R-4 | | | | | | <i>(Life = 5000 hrs)</i> | | |
| AGFK1 | R-4 | 169-30 | 16.90 | x | 30.00 | 10 | TT | \$2,784 |
| AGFK3 | R-4 | 184-28 | 18.40 | x | 28.00 | 12 | TL | \$1,541 |
| IT510 RADIAL R4 | | | | | | <i>(Life = 5000 hrs)</i> | | |
| AGFL3 | R-4 | 195LR24 | 19.50 | x | 24.00 | 152A8 | TL | \$2,510 |
| IT525 RADIAL R4 | | | | | | <i>(Life = 5000 hrs)</i> | | |
| AGFM1 | R-4 | 149-24 | 14.90 | x | 24.00 | 8 | TL | \$934 |
| AGFM4 | R-4 | 169-24 | 16.90 | x | 24.00 | 10 | TL | \$949 |
| AGFM12 | R-4 | 169-28 | 16.90 | x | 28.00 | 10 | TL | \$1,214 |
| AGFM6 | R-4 | 175L-24 | 17.50 | x | 24.00 | 10 | TL | \$1,063 |
| AGFM5 | R-4 | 184-24 | 18.40 | x | 24.00 | 12 | TL | \$1,380 |
| AGFM7 | R-4 | 195L-24 | 19.50 | x | 24.00 | 10 | TL | \$1,329 |
| AGFM8 | R-4 | 195L-24 | 19.50 | x | 24.00 | 12 | TL | \$1,491 |
| AGFM9 | R-4 | 21L-24 | 21.00 | x | 24.00 | 12 | TL | \$1,792 |
| AGFM11 | R-4 | 21L-24 | 21.00 | x | 24.00 | 16 | TL | \$2,076 |
| AGFM14 | R-4 | 21L-28 | 21.00 | x | 28.00 | 14 | TL | \$2,191 |
| POWER TORQUE R-1 | | | | | | <i>(Life = 5000 hrs)</i> | | |
| AGFN1 | R-1 | 6-12 | 6.00 | x | 12.00 | 4 | TL | \$125 |
| SPECIAL SURE GRIP R-2-0 | | | | | | <i>(Life = 5000 hrs)</i> | | |
| AGFO2 | R-2 | 149-24 | 14.90 | x | 24.00 | 6 | TL | \$1,421 |
| AGFO11 | R-2 | 184-26 | 18.40 | x | 26.00 | 10 | TL | \$1,941 |
| AGFO8 | R-2 | 184-38 | 18.40 | x | 38.00 | 8 | TL | \$2,784 |
| AGFO12 | R-2 | VA500/95D32 | 19.70 | x | 32.00 | 6A5/179 | TL | \$5,445 |
| AGFO10 | R-2 | 208-38 | 20.80 | x | 38.00 | 8 | TL | \$2,891 |
| AGFO3 | R-2 | 231-26 | 23.10 | x | 26.00 | 10 | TL | \$3,110 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (I) | COST PER EACH |
|---------------------------------------|---------------|------------------|-------|---------|---------|-------------|------------------|
| AGFO4 | R-2 | 28L-26 | 28.00 | x 26.00 | 12 | TL | \$4,329 |
| AGFO6 | R-2 | 305L-32 | 30.50 | x 32.00 | 14 | TL | \$5,368 |
| SPECIAL SURE GRIP RADIAL R-2-0 | | | | | | | |
| AGFP8 | R-2 | 320/90R46 | 12.60 | x 46.00 | 148A8 | TL | \$2,843 |
| AGFP9 | R-2 | 340/85R46 | 13.40 | x 46.00 | 140A8 | TL | \$3,074 |
| AGFP6 | R-2 | 520/85R42 | 20.80 | x 42.00 | 157A8/B | TL | \$4,728 |
| SUPER TRACTION RADIAL R-1W | | | | | | | |
| AGFQ3 | R-1W | 260/80R20 | 10.20 | x 20.00 | 106A8 | TL | \$1,212 |
| AGFQ20 | R-1W | 385/85R24 | 14.90 | x 24.00 | 131A8/B | TL | \$2,379 |
| AGFQ9 | R-1W | 149R30 | 14.90 | x 30.00 | 134A8 | TL | \$2,362 |
| AGFQ5 | R-1W | 169R26 | 16.90 | x 26.00 | 135A8 | TL | \$3,523 |
| TGFQ15 | R-1W | 16.9R28 | 16.90 | x 28.00 | 136A8 | TL | \$2,410 |
| AGFQ8 | R-1W | 169R28 | 16.90 | x 28.00 | 136A8 | TL | \$2,535 |
| TGFQ7 | R-1W | 16.9R30 | 16.90 | x 30.00 | 144A8 | TL | \$2,410 |
| AGFQ10 | R-1W | 169R30 | 16.90 | x 30.00 | 144A8 | TL | \$2,548 |
| AGFQ11 | R-1W | 184R26 | 18.40 | x 26.00 | 140A8 | TL | \$2,641 |
| AGFQ12 | R-1W | 460/85R30 | 18.40 | x 30.00 | 145A8/B | TL | \$3,505 |
| AGFQ14 | R-1W | 460/85R34 | 18.40 | x 34.00 | 147A8 | TL | \$3,938 |
| AGFQ16 | R-1W | 184R38 | 18.40 | x 38.00 | 146A8 | TL | \$2,548 |
| AGFQ18 | R-1W | 184R42 | 18.40 | x 42.00 | 148A8 | TL | \$3,122 |
| AGFQ17 | R-1W | 208R38 | 20.80 | x 38.00 | 153A8 | TL | \$3,315 |
| AGFQ13 | R-1W | 800/65R32 | 31.50 | x 32.00 | 172A8 | TL | \$5,510 |
| DURATORQUE R-1 | | | | | | | |
| AGFU1 | R-1 | 149-28 | 14.90 | x 28.00 | 6 | TT | \$782 |
| AGFU2 | R-1 | 169-30 | 16.90 | x 30.00 | 6 | TT | \$986 |
| AGFU3 | R-1 | 184-30 | 18.40 | x 30.00 | 6 | TT | \$1,225 |
| AGFU5 | R-1 | 184-38 | 18.40 | x 38.00 | 8 | TT | \$1,474 |
| FARM, TERRA - 20" UP | | | | | | | |
| SFT105 | | | | | | | |
| AHGA2 | HF-1 | 54-3100-26 | 31.00 | x 26.00 | 10 | TL | \$2,390 |
| SOF TRAC | | | | | | | |
| AHGB3 | HF-1 | 38-1400-20 | 14.00 | x 20.00 | 4 | TL | \$711 |
| AHGB2 | HF-1 | 41-1400-20 | 14.00 | x 20.00 | 4 | TL | \$761 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|----------------------------|---------------|------------------|---------------|-------|----------|---------------|
| AHGB1 | HF-1 | 44-1800-20 | 18.00 x 20.00 | 4 | TL | \$1,061 |
| SUPER TERRA GRIP | | | | | | |
| AHGC1 | HF-2 | 38-1400-20 | 14.00 x 20.00 | 8 | TL | \$1,039 |
| AHGC11 | HF-2 | 1000/50R25 | 43.00 x 25.00 | 172A8 | TL | \$9,620 |
| SUPER TERRA GRIP XT | | | | | | |
| AHGD5 | HF-3 | 48-3100-20 | 31.00 x 20.00 | 150A8 | TL | \$3,306 |
| AHGD6 | HF-3 | 1000/50R25 | 43.00 x 25.00 | 172A8 | TL | \$7,975 |
| AHGD7 | HF-3 | 1050/50R32 | 44.00 x 32.00 | 178A8 | TL | \$11,627 |
| TUNDRA GRIP | | | | | | |
| AHGF1 | HF-1 | 66-4400-25 | 44.00 x 25.00 | 20 | TL | \$11,467 |
| AHGF2 | HF-1 | 66X4400-25 | 44.00 x 25.00 | 26 | TL | \$12,380 |
| FARM, SPECIALTY | | | | | | |
| SOFTRAC | | | | | | |
| TJHB2 | | 16-650-8 | 6.50 x 8.00 | 4 | TL | \$105 |
| TJHB3 | | 18-850-10 | 8.50 x 10.00 | 4 | TL | \$147 |
| AJHB1 | HF-1 | 25-850-14 | 8.50 x 14.00 | 6 | TL | \$276 |
| AJHB5 | HF-1 | 27-850-15 | 8.50 x 15.00 | 4 | TL | \$280 |
| AJHB4 | HF-1 | 25-1050-15 | 10.50 x 15.00 | 4 | TL | \$294 |
| AJHB6 | HF-1 | 27-1050-15 | 10.50 x 15.00 | 4 | TL | \$349 |
| AJHB7 | HF-1 | 29-1250-15 | 12.50 x 15.00 | 4 | TL | \$380 |
| AJHB10 | HF-1 | 31-1250-15 | 12.50 x 15.00 | 4 | TL | \$421 |
| AJHB11 | HF-1 | 33-1250-15 | 12.50 x 15.00 | 4 | TL | \$492 |
| AJHB8 | HF-1 | 31-1350-15 | 13.50 x 15.00 | 4 | TL | \$462 |
| AJHB9 | HF-1 | 31-1550-15 | 15.50 x 15.00 | 4 | TL | \$534 |
| SUPER TERRA GRIP | | | | | | |
| AJHC3 | HF-2 | 29-1250-15 | 12.50 x 15.00 | 6 | TL | \$389 |
| AJHC6 | HF-2 | 31-1550-15 | 15.50 x 15.00 | 8 | TL | \$683 |
| AJHC7 | HF-2 | 38-2000-16.1 | 20.00 x 16.00 | 8 | TL | \$1,401 |
| SURE GRIP LUG | | | | | | |
| AJHD9 | HF-2 | 27-850-15 | 8.50 x 15.00 | 6 | TL | \$322 |
| AJHD1 | | 10-16.5 | 10.00 x 16.50 | 6 | TL | \$351 |
| AJHD10 | HF-2 | 27-1050-15 | 10.50 x 15.00 | 6 | TL | \$308 |
| AJHD4 | | 12-165 | 12.00 x 16.50 | 10 | TL | \$408 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (I) | COST PER EACH |
|--|---------------|---------------------|-------|---|-------|-------------|------------------|
| AJHD3 | | 12-165 | 12.00 | x | 16.50 | 8 | TL \$371 |
| AJHD5 | I-3 | 14-17.5 | 14.00 | x | 17.50 | 14 | TL \$723 |
| AJHD6 | I-3 | 15-19.5 | 15.00 | x | 19.50 | 12 | TL \$837 |
| IT 323 | | | | | | | |
| AJHE1 | | 10-165 | 10.00 | x | 16.50 | 8 | TL \$357 |
| AJHE3 | | 12-165 | 12.00 | x | 16.50 | 10 | TL \$454 |
| AJHE4 | | 31-1550-15 | 15.50 | x | 15.00 | 8 | TL \$694 |
| POWER RIB | | | | | | | |
| TJHJ1 | | 18-850-8 | 8.50 | x | 8.00 | 4 | TL \$120 |
| TJHJ2 | | 20X10.00-10 | 10.00 | x | 10.00 | 3* | TL \$151 |
| RALLY | | | | | | | |
| TJHK1 | | 480-8 | 4.80 | x | 8.00 | 4 | TL \$58 |
| TJHK2 | | 18X9.50-8 | 9.50 | x | 8.00 | 3* | TL \$124 |
| TERRA RIB | | | | | | | |
| AJHM2 | HF-1 | 25-750-15 | 7.50 | x | 15.00 | 6 | TL \$207 |
| AJHM4 | HF-1 | 27-950-15 | 9.50 | x | 15.00 | 10 | TL \$316 |
| AJHM6 | HF-1 | 31-1350-15 | 13.50 | x | 15.00 | 8 | TL \$530 |
| ATV | | | | | | | |
| TJHN1 | | AT21-7-10 | 7.00 | x | 10.00 | X3 | TL \$124 |
| TJHN3 | | AT23-8-11 | 8.00 | x | 11.00 | 6 | TL \$136 |
| TJHN5 | | AT24-9-11 | 9.00 | x | 11.00 | 6 | TL \$158 |
| TRACKER ATT | | | | | | | |
| TJHT1 | | AT24-8-11 | 8.00 | x | 11.00 | 6 | TL \$181 |
| TJHT2 | | AT24-10-11 | 10.00 | x | 11.00 | 6 | TL \$168 |
| INDUSTRIAL, MINE SERVICE | | | | | | | |
| HARD ROCK LUG MINE & INDUSTRIAL | | | | | | | |
| TKJC1 | | 10.00-20 | 10.00 | x | 20.00 | 16.0 | TT \$986 |
| XTRA TRACTION LUG | | | | | | | |
| AKJD2 | | 825-15 | 8.25 | x | 15.00 | 24 | TT \$839 |
| AKJD7 | | 24x12x12 | 12.00 | x | 12.00 | 24 | TL \$538 |
| AKJD6 | | 35-15x15(14.50L-15) | 15.00 | x | 15.00 | 28 | TL \$1,452 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|--|---------------|---------------------|---------------|-----|-------------|------------------|
| XTRA TRACTION GRIP | | | | | | |
| AKJE1 | | 32x15-15 | 15.00 x 15.00 | 24 | TL | \$1,334 |
| <u>OFF-THE-ROAD, MED & HEAVY COMMERCIAL, RADIAL</u> | | | | | | |
| G-2 GRADER SERVICE - RL2F, SG2B | | | | | | |
| AMLA1 | G2 | 14.00R24 | 14.00 x 24.00 | X1 | TL | \$1,435 |
| E-2 HAULAGE SERVICE - RL2F/GP2B RL2+ | | | | | | |
| AMLB1 | E/L/G3 | 17.5R25 | 17.50 x 25.00 | X1 | TL | \$1,710 |
| AMLB8 | L5 | 1800R25 | 18.00 x 25.00 | X2 | TL | \$5,019 |
| AMLB2 | E/L/G3 | 20.5R25 | 20.50 x 25.00 | X1 | TL | \$2,255 |
| AMLB9 | E/L/G3 | 20.5R25 | 20.50 x 25.00 | X2 | TL | \$2,255 |
| AMLB15 | E4 | 21.00R35 | 21.00 x 35.00 | X2 | TL | \$9,308 |
| AMLB3 | E/L/G3 | 23.5R25 | 23.50 x 25.00 | X1 | TL | \$2,731 |
| AMLB10 | E/L/G3 | 23.5R25 | 23.50 x 25.00 | X2 | TL | \$2,731 |
| AMLB22 | E/L 3 | 29.5R25 | 29.50 x 25.00 | X2 | TL | \$5,616 |
| AMLB21 | E/L/G 3+T | 295R29 | 29.50 x 29.00 | X2 | TL | \$8,303 |
| FMLB23 | E3 | 40.5/75R39 | 40.50 x 39.00 | X2 | TL | \$14,321 |
| E-3 HAULAGE SERVICE - ROCK DESIGN RL3, RL3J, R | | | | | | |
| AMLC3 | E3+ | 1800R33 | 18.00 x 33.00 | X3 | TL | \$5,787 |
| AMLC5 | E3+ | 24.00R35 | 24.00 x 35.00 | X2 | TL | \$9,304 |
| AMLC6 | E3 | 29.5R29 | 29.50 x 29.00 | X2 | TL | \$7,932 |
| FMLC8 | E3 | 37.25R35 | 37.35 x 35.00 | X2 | TL | \$9,059 |
| E-4 RL4J/RL4 & RL4H/RL4 E4 | | | | | | |
| AMLD2 | E4 | 14.00R24 | 14.00 x 24.00 | X3 | TL | \$2,474 |
| AMLD3 | E4 | 14.00R25 | 14.00 x 25.00 | X3 | TL | \$2,474 |
| AMLD4 | E4 | 1800R25 | 18.00 x 25.00 | X2 | TL | \$4,117 |
| AMLD14 | E4 | 21.00R35 | 21.00 x 35.00 | X2 | TL | \$9,308 |
| AMLD7 | E4 | 27.00R49 | 27.00 x 49.00 | X2 | TL | \$16,297 |
| FMLD9 | E4 | 33.00R51 | 33.00 x 51.00 | X2 | TL | \$27,834 |
| FMLD11 | E4 | 37.00R57 | 37.00 x 57.00 | X2 | TL | \$50,675 |
| MOBILE CRANE | | | | | | |
| AMLF1 | E/L/G3 | 445/95R25 | 17.50 x 25.00 | UK | TL | \$2,123 |
| AMLF3 | E/L/G3 | 525/80R25 (20.5R25) | 20.60 x 25.00 | UK | TL | \$2,255 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|--|---------------|------------------|---------------|------|-------------|------------------|
| SPECIAL SERVICE - AT2A | | | | | | |
| AMLH1 | E/L/G 3 | 14.00R20 | 14.00 x 20.00 | 18 | TL | \$1,725 |
| AMLH3 | E/L/G 3 | 16.00R20 | 16.00 x 20.00 | 22 | TL | \$1,990 |
| AMLH2 | E/L/G3 | 17.5R25 | 17.50 x 25.00 | X1 | TL | \$1,710 |
| E-3 ROCK SERVICE SUPER HARD ROCK LUG | | | | | | |
| AMMF1 | L3 | 26.5-25 | 26.50 x 25.00 | 24 | TL | \$4,629 |
| <u>OFF-THE-ROAD, MED & HEAVY COMMERCIAL, BIAS</u> | | | | | | |
| E-1 HRR 1A | | | | | | |
| ANMB1 | E3 | 1400-24 | 14.00 x 24.00 | 20 | TT | \$2,198 |
| E-2 TRACTION EARTHOVER SURE GRIP | | | | | | |
| ANMC3 | E7 | 18.00-25 | 18.00 x 25.00 | 16 | TL | \$2,073 |
| E-3 ROCK SERVICE HARD ROCK LUG/HRL WC | | | | | | |
| ANME1 | E3 | 12.00-20 | 12.00 x 20.00 | 20 | TT | \$1,162 |
| ANME2 | E3 | 12.00-24 | 12.00 x 24.00 | 16 | TT | \$1,291 |
| ANME3 | E3 | 14.00-24 | 14.00 x 24.00 | 28 | TT | \$1,942 |
| ANME6 | E3 | 1600-25 | 16.00 x 25.00 | 28 | TL | \$3,460 |
| E-3 ROCK SERVICE SUPER HARD ROCK LUG | | | | | | |
| TNMF4 | L-5 | 29.5-25 | 29.50 x 25.00 | 28 | TL | \$10,146 |
| TNMF5 | L-4 | 29.5-29 | 29.50 x 29.00 | 28 | TL | \$8,834 |
| TNMF6 | E-3 | 29.5-29 | 29.50 x 29.00 | 34 | TL | \$7,977 |
| E-3 ROCK SERVICE SHRL8 | | | | | | |
| TNMG8 | L-3 | 29.5-25 | 29.50 x 25.00 | 28.0 | TL | \$7,279 |
| TNMG9 | L-3 | 29.5-25 | 29.50 x 25.00 | 34.0 | TL | \$8,075 |
| TNMG7 | E-3/L-3 | 33.25-29 | 33.25 x 29.00 | 38.0 | TL | \$10,382 |
| TNMG6 | E-3 | 33.25-35 | 33.25 x 35.00 | 38 | TL | \$12,473 |
| ANMG7 | E3 | 37.25-35 | 37.25 x 35.00 | 36 | TL | \$9,049 |
| ANMG9 | E3 | 375-39 | 37.50 x 39.00 | 52 | TL | \$13,585 |
| E-3 ROCK SERVICE ELV3A, ELV4B, ELV4/5A | | | | | | |
| ANMH9 | IND 3 | 1800-25 | 18.00 x 25.00 | 40 | TL | \$4,159 |
| ANMH4 | IND 5S | 18.00-25 | 18.00 x 25.00 | 40 | TL | \$4,968 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|---|---------------|------------------|---------------|-----|-------------|------------------|
| E-3 ROCK SERVICE HRL 3F | | | | | | |
| ANMJ2 | E3 | 3725-35 | 37.25 x 35.00 | 36 | TL | \$11,635 |
| ANMJ5 | E3 | 37.25-35 | 37.25 x 35.00 | 36 | TL | \$11,635 |
| ANMJ6 | E3 | 3725-35 | 37.25 x 35.00 | 36 | TL | \$11,635 |
| E-3 ROCK SERVICE WRL 3A | | | | | | |
| ANML1 | E3 | 14.00-20 | 14.00 x 20.00 | 24 | TT | \$1,711 |
| ANML2 | E3 | 14.00-24 | 14.00 x 24.00 | 24 | TT | \$1,813 |
| E-4 ROCK SERVICE HRL 4B | | | | | | |
| ANMN1 | E4 | 16.00-25 | 16.00 x 25.00 | 28 | TL | \$3,701 |
| ANMN4 | E4 | 21.00-35 | 21.00 x 35.00 | 36 | TL | \$8,249 |
| ANMN5 | E4 | 24.00-35 | 24.00 x 35.00 | 42 | TL | \$8,583 |
| ANMN9 | E4 | 36.00-51 | 36.00 x 51.00 | 58 | TL | \$25,227 |
| E-7 FLOTATION TYPE SAND RIB SRB 7A | | | | | | |
| TNMQ1 | E-3 | 17.5R25 | 17.50 x 25.00 | 1* | TL | \$2,120 |
| TNMQ2 | E-3 | 20.5R25 | 20.50 x 25.00 | 1* | TL | \$2,761 |
| TNMQ3 | E-3 | 23.5R25 | 23.50 x 25.00 | 1* | TL | \$3,697 |
| E-7 FLOTATION TYPE PAVER TIRE | | | | | | |
| ANMR1 | E7 | 1600-24 | 16.00 x 24.00 | 12 | TL | \$1,579 |
| G-2 SGG2A | | | | | | |
| TNMT10 | G-2 | 13.00-24 | 13.00 x 24.00 | 12 | TL | \$839 |
| TNMT6 | G-2 | 14.00-24 | 14.00 x 24.00 | 12 | TL | \$938 |
| TNMT8 | G-2 | 14.00-24 | 14.00 x 24.00 | 12 | TL | \$965 |
| G-2 SGLLD 2A L2 | | | | | | |
| ANMV2 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 12 | TL | \$818 |
| ANMV3 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 12 | TL | \$818 |
| ANMV4 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 16 | TL | \$907 |
| ANMV5 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 20 | TL | \$995 |
| G-2 SGLEL 2A ES/L2/G2 | | | | | | |
| TNMW1 | L-2 | 20.5-25 | 20.50 x 25.00 | 12 | TL | \$1,797 |
| TNMW2 | L-2 | 20.5-25 | 20.50 x 25.00 | 16 | TL | \$1,938 |
| TNMW5 | L-2 | 23.5-25 | 23.50 x 25.00 | 16 | TL | \$2,611 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|---|---------------|------------------|---------------|-----|-------------|------------------|
| G-3 RKG 3A | | | | | | |
| TNMX1 | G-2 | 14.00-24 | 14.00 x 24.00 | 14 | TL | \$1,029 |
| L-3 DOZER/LOADER SERVICE ROCK SERVICE E3/L3 | | | | | | |
| ANNB1 | E/G/L3 | 205-25 | 20.50 x 25.00 | 20 | TL | \$1,351 |
| ANNB2 | E/G/L3 | 235-25 | 23.50 x 25.00 | 16 | TL | \$3,998 |
| ANNB5 | E/L 3 | 23.5-25 | 23.50 x 25.00 | 16 | TL | \$3,998 |
| ANNB6 | E/L 3 | 23.5-25 | 23.50 x 25.00 | 20 | TL | \$4,211 |
| L-3 DOZER/LOADER SERVICE ROCK SHRL DL | | | | | | |
| TNNC3 | L-4 | 29.5-25 | 29.50 x 25.00 | 28 | TL | \$8,815 |
| L-3 DOZER/LOADER SERVICE ROCK HRL DL 3A & 3F | | | | | | |
| ANND2 | L/G3 | 265-25 | 26.50 x 25.00 | 20 | TL | \$6,000 |
| L-4 DOZER/LOADER SERVICE ROCK DEEP TREAD N | | | | | | |
| TNNG1 | L-5 | 35/65-33 | 35.00 x 33.00 | 42 | TL | \$17,150 |
| L-5 DOZER/LOADER SERVICE ROCK SUPER XTRA T | | | | | | |
| TNNL2 | L-4 | 35/65-33 | 35.00 x 33.00 | 42 | TL | \$15,458 |
| TNNL4 | L-5 | 41.25/70-39 | 41.25 x 39.00 | 42 | TL | \$26,985 |
| ANNL7 | L5 | 45/65-45 | 45.00 x 45.00 | 58 | TL | \$24,393 |
| L-5 DOZER/LOADER SERVICE SMOOTH SMO SL5B | | | | | | |
| ANNN3 | IND3 | 18.00-25 | 18.00 x 25.00 | 40 | TL | \$4,159 |
| L-5 DOZER/LOADER SERVICE SMOOTH SUPER XTRA | | | | | | |
| TNNO1 | L-5S | 295-25 | 29.50 x 25.00 | 28 | TL | \$12,652 |
| <u>INDUSTRIAL, SOLID</u> | | | | | | |
| SOLID, HIGH PERFORMANCE, OIL RESISTANT/STATI | | | | | | |
| IPPO5 | | 10x3x6-1/4 Grip | 3.00 x 10.00 | | NO | \$389 |
| IPPO4 | | 10x3-1/2x6 | 3.50 x 10.00 | | NO | \$421 |
| IPPO18 | | 12x3-1/2x8 | 3.50 x 12.00 | | NO | \$430 |
| IPPO23 | | 13x3-1/2x8 | 3.50 x 13.00 | | NO | \$489 |
| IPPO32 | | 15x3-1/2x11-1/4 | 3.50 x 15.00 | | NO | \$462 |
| IPPO1 | | 8-1/2x4x4 | 4.00 x 8.50 | | NO | \$533 |
| IPPO10 | | 10x4x6-1/2 | 4.00 x 10.00 | | NO | \$368 |
| IPPO6 | | 10x4x6-1/4 | 4.00 x 10.00 | | NO | \$430 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|---------|---------------|---------------------|--------------|-----|-------------|------------------|
| IPPO19 | | 12x4x8 | 4.00 x 12.00 | | NO | \$470 |
| IPPO47 | | 16-1/4x4x11-1/4 Lug | 4.00 x 16.25 | | NO | \$581 |
| IPPO30 | | 14x4-1/2x8 | 4.50 x 14.00 | | NO | \$639 |
| IPPO40 | | 16x4-1/2x10-1/2 Lug | 4.50 x 16.00 | | NO | \$694 |
| IPPO2 | | 9-5-5 Grip | 5.00 x 9.00 | | NO | \$398 |
| IPPO12 | | 10x5x6-1/2 | 5.00 x 10.00 | | NO | \$383 |
| IPPO7 | | 10x5x6-1/4 | 5.00 x 10.00 | | NO | \$429 |
| IPPO13 | | 10-1/2x5x5 | 5.00 x 10.50 | | NO | \$625 |
| IPPO31 | | 14x5x10 | 5.00 x 14.00 | | NO | \$586 |
| IPPO33 | | 15x5x11-1/4 | 5.00 x 15.00 | | NO | \$564 |
| IPPO38 | | 15-1/2x5x10 | 5.00 x 15.50 | | NO | \$656 |
| IPPO41 | | 16x5x10-1/2 | 5.00 x 16.00 | | NO | \$724 |
| IPPO48 | | 16-1/4x5x11-1/4 | 5.00 x 16.25 | | NO | \$626 |
| IPPO53 | | 17x5x12-1/8 | 5.00 x 17.00 | | NO | \$714 |
| IPPO63 | | 18x5x14 | 5.00 x 18.00 | | NO | \$637 |
| IPPO58 | | 18x5x12-1/8 | 5.00 x 18.00 | | NO | \$758 |
| IPPO68 | | 20x5x16 | 5.00 x 20.00 | | NO | \$849 |
| IPPO73 | | 21x5x15 | 5.00 x 21.00 | | NO | \$883 |
| IPPO79 | | 22x5x16 | 5.00 x 22.00 | | NO | \$942 |
| IPPO8 | | 10x6x6-1/4 | 6.00 x 10.00 | | NO | \$517 |
| IPPO14 | | 10-1/2x6x5 | 6.00 x 10.50 | | NO | \$650 |
| IPPO34 | | 15x6x11-1/4 | 6.00 x 15.00 | | NO | \$600 |
| IPPO42 | | 16x6x10-1/2 | 6.00 x 16.00 | | NO | \$813 |
| IPPO49 | | 16-1/4x6x11-1/4 | 6.00 x 16.25 | | NO | \$738 |
| IPPO59 | | 18x6x12-1/8 | 6.00 x 18.00 | | NO | \$853 |
| IPPO69 | | 20x6x16 | 6.00 x 20.00 | | NO | \$903 |
| IPPO74 | | 21x6x15 | 6.00 x 21.00 | | NO | \$1,103 |
| IPPO80 | | 22x6x16 | 6.00 x 22.00 | | NO | \$1,113 |
| IPPO22 | | 12-6-1/2x8 | 6.50 x 12.00 | | NO | \$651 |
| IPPO9 | | 10x7x6-1/4 | 7.00 x 10.00 | | NO | \$602 |
| IPPO35 | | 15x7x11-1/4 | 7.00 x 15.00 | | NO | \$746 |
| IPPO43 | | 16x7x10-1/2 | 7.00 x 16.00 | | NO | \$932 |
| IPPO50 | | 16-1/4x7x11-1/4 | 7.00 x 16.25 | | NO | \$920 |
| IPPO60 | | 18x7x12-1/8 | 7.00 x 18.00 | | NO | \$889 |
| IPPO70 | | 20x7x16 | 7.00 x 20.00 | | NO | \$1,092 |
| IPPO75 | | 21x7x15 | 7.00 x 21.00 | | NO | \$1,133 |
| IPPO81 | | 22x7x16 | 7.00 x 22.00 | | NO | \$1,336 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (I) | COST PER EACH |
|---------|---------------|------------------|-------|---|-------|-------------|------------------|
| IPPO94 | | 26x7x20 | 7.00 | x | 26.00 | NO | \$1,670 |
| CPPO1 | | 10x8x3 | 8.00 | x | 10.00 | NO | \$81 |
| IPPO36 | | 15x8x11-1/4 | 8.00 | x | 15.00 | NO | \$893 |
| IPPO61 | | 18x8x12-1/8 | 8.00 | x | 18.00 | NO | \$1,044 |
| IPPO66 | | 18x8x14 | 8.00 | x | 18.00 | NO | \$1,088 |
| IPPO71 | | 20x8x16 | 8.00 | x | 20.00 | NO | \$1,166 |
| IPPO76 | | 21x8x15 | 8.00 | x | 21.00 | NO | \$1,380 |
| IPPO82 | | 22x8x16 | 8.00 | x | 22.00 | NO | \$1,441 |
| IPPO37 | | 15x9x11-1/4 | 9.00 | x | 15.00 | NO | \$1,188 |
| IPPO67 | | 18x9x14 | 9.00 | x | 18.00 | NO | \$1,148 |
| IPPO62 | | 18x9x12-1/8 | 9.00 | x | 18.00 | NO | \$1,235 |
| IPPO72 | | 20x9x16 | 9.00 | x | 20.00 | NO | \$1,582 |
| IPPO77 | | 21x9x15 | 9.00 | x | 21.00 | NO | \$1,651 |
| IPPO16 | | 22x9x16 | 9.00 | x | 22.00 | NO | \$1,638 |
| IPPO83 | | 22x9x16 | 9.00 | x | 22.00 | NO | \$1,638 |
| IPPO92 | | 22x10x17-3/4 | 10.00 | x | 22.00 | NO | \$1,981 |
| IPPO84 | | 22x10x16 | 10.00 | x | 22.00 | NO | \$2,215 |
| IPPO95 | | 28x10x22 | 10.00 | x | 28.00 | NO | \$2,661 |
| IPPO78 | | 21x12x15 | 12.00 | x | 21.00 | NO | \$2,654 |
| IPPO86 | | 22x12x16 | 12.00 | x | 22.00 | NO | \$2,336 |
| IPPO96 | | 28x12x22 | 12.00 | x | 28.00 | NO | \$3,461 |
| IPPO87 | | 22x14x16 | 14.00 | x | 22.00 | NO | \$2,602 |
| IPPO93 | | 22x14x17-3/4 | 14.00 | x | 22.00 | NO | \$3,008 |
| IPPO88 | | 22x16x16 | 16.00 | x | 22.00 | NO | \$2,868 |
| IPPO98 | | 28x16x22 | 16.00 | x | 28.00 | NO | \$4,928 |

CONVEYOR/LOADER BELTING

CONVEYOR BELTING (GOODYEAR EP)

(Life = 5000 hrs)

| | | | | | | | |
|-------|------------------|-------|---|--------|---|----|---------|
| AZZA1 | Conveyor Belting | 24.00 | x | 50.00 | 2 | NO | \$1,158 |
| AZZA2 | Conveyor Belting | 24.00 | x | 60.00 | 2 | NO | \$1,354 |
| AZZA3 | Conveyor Belting | 24.00 | x | 70.00 | 2 | NO | \$1,550 |
| AZZA4 | Conveyor Belting | 24.00 | x | 80.00 | 2 | NO | \$1,745 |
| AZZA5 | Conveyor Belting | 24.00 | x | 90.00 | 2 | NO | \$1,941 |
| AZZA6 | Conveyor Belting | 24.00 | x | 100.00 | 2 | NO | \$2,137 |
| AZZA7 | Conveyor Belting | 24.00 | x | 110.00 | 2 | NO | \$2,333 |
| AZZA8 | Conveyor Belting | 24.00 | x | 120.00 | 2 | NO | \$2,529 |
| AZZA9 | Conveyor Belting | 24.00 | x | 130.00 | 2 | NO | \$2,725 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (I) | COST PER EACH |
|---------|---------------|------------------|----------------|-----|-------------|------------------|
| AZZA10 | | Conveyor Belting | 24.00 x 140.00 | 2 | NO | \$2,921 |
| AZZA11 | | Conveyor Belting | 24.00 x 150.00 | 2 | NO | \$3,116 |
| AZZA12 | | Conveyor Belting | 30.00 x 50.00 | 2 | NO | \$1,397 |
| AZZA13 | | Conveyor Belting | 30.00 x 60.00 | 2 | NO | \$1,641 |
| AZZA14 | | Conveyor Belting | 30.00 x 70.00 | 2 | NO | \$1,885 |
| AZZA15 | | Conveyor Belting | 30.00 x 80.00 | 2 | NO | \$2,128 |
| AZZA16 | | Conveyor Belting | 30.00 x 90.00 | 2 | NO | \$2,372 |
| AZZA17 | | Conveyor Belting | 30.00 x 100.00 | 2 | NO | \$2,616 |
| AZZA18 | | Conveyor Belting | 30.00 x 110.00 | 2 | NO | \$2,859 |
| AZZA19 | | Conveyor Belting | 30.00 x 120.00 | 2 | NO | \$3,103 |
| AZZA20 | | Conveyor Belting | 30.00 x 130.00 | 2 | NO | \$3,347 |
| AZZA21 | | Conveyor Belting | 30.00 x 140.00 | 2 | NO | \$3,590 |
| AZZA22 | | Conveyor Belting | 30.00 x 150.00 | 2 | NO | \$3,834 |
| AZZA23 | | Conveyor Belting | 36.00 x 50.00 | 2 | NO | \$1,636 |
| AZZA24 | | Conveyor Belting | 36.00 x 60.00 | 2 | NO | \$1,928 |
| AZZA25 | | Conveyor Belting | 36.00 x 70.00 | 2 | NO | \$2,219 |
| AZZA26 | | Conveyor Belting | 36.00 x 80.00 | 2 | NO | \$2,511 |
| AZZA27 | | Conveyor Belting | 36.00 x 90.00 | 2 | NO | \$2,803 |
| AZZA28 | | Conveyor Belting | 36.00 x 100.00 | 2 | NO | \$3,094 |
| AZZA29 | | Conveyor Belting | 36.00 x 110.00 | 2 | NO | \$3,386 |
| AZZA30 | | Conveyor Belting | 36.00 x 120.00 | 2 | NO | \$3,677 |
| AZZA31 | | Conveyor Belting | 36.00 x 130.00 | 2 | NO | \$3,969 |
| AZZA32 | | Conveyor Belting | 36.00 x 140.00 | 2 | NO | \$4,260 |
| AZZA33 | | Conveyor Belting | 36.00 x 150.00 | 2 | NO | \$4,552 |
| AZZA34 | | Conveyor Belting | 42.00 x 50.00 | 2 | NO | \$1,876 |
| AZZA35 | | Conveyor Belting | 42.00 x 60.00 | 2 | NO | \$2,215 |
| AZZA36 | | Conveyor Belting | 42.00 x 70.00 | 2 | NO | \$2,554 |
| AZZA37 | | Conveyor Belting | 42.00 x 80.00 | 2 | NO | \$2,894 |
| AZZA38 | | Conveyor Belting | 42.00 x 90.00 | 2 | NO | \$3,233 |
| AZZA39 | | Conveyor Belting | 42.00 x 100.00 | 2 | NO | \$3,573 |
| AZZA40 | | Conveyor Belting | 42.00 x 110.00 | 2 | NO | \$3,912 |
| AZZA41 | | Conveyor Belting | 42.00 x 120.00 | 2 | NO | \$4,251 |
| AZZA42 | | Conveyor Belting | 42.00 x 130.00 | 2 | NO | \$4,591 |
| AZZA43 | | Conveyor Belting | 42.00 x 140.00 | 2 | NO | \$4,930 |
| AZZA44 | | Conveyor Belting | 42.00 x 150.00 | 2 | NO | \$5,270 |
| AZZA45 | | Conveyor Belting | 48.00 x 50.00 | 3 | NO | \$2,565 |
| AZZA46 | | Conveyor Belting | 48.00 x 60.00 | 3 | NO | \$3,042 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (1) | COST PER EACH |
|---------|---------------|------------------|----------------|-----|-------------|------------------|
| AZZA47 | | Conveyor Belting | 48.00 x 70.00 | 3 | NO | \$3,519 |
| AZZA48 | | Conveyor Belting | 48.00 x 80.00 | 3 | NO | \$3,996 |
| AZZA49 | | Conveyor Belting | 48.00 x 90.00 | 3 | NO | \$4,474 |
| AZZA50 | | Conveyor Belting | 48.00 x 100.00 | 3 | NO | \$4,951 |
| AZZA51 | | Conveyor Belting | 48.00 x 110.00 | 3 | NO | \$5,428 |
| AZZA52 | | Conveyor Belting | 48.00 x 120.00 | 3 | NO | \$5,905 |
| AZZA53 | | Conveyor Belting | 48.00 x 130.00 | 3 | NO | \$6,383 |
| AZZA54 | | Conveyor Belting | 48.00 x 140.00 | 3 | NO | \$6,860 |
| AZZA55 | | Conveyor Belting | 48.00 x 150.00 | 3 | NO | \$7,337 |
| AZZA56 | | Conveyor Belting | 60.00 x 50.00 | 4 | NO | \$3,848 |
| AZZA57 | | Conveyor Belting | 60.00 x 60.00 | 4 | NO | \$4,582 |
| AZZA58 | | Conveyor Belting | 60.00 x 70.00 | 4 | NO | \$5,316 |
| AZZA59 | | Conveyor Belting | 60.00 x 80.00 | 4 | NO | \$6,050 |
| AZZA60 | | Conveyor Belting | 60.00 x 90.00 | 4 | NO | \$6,784 |
| AZZA61 | | Conveyor Belting | 60.00 x 100.00 | 4 | NO | \$7,518 |
| AZZA62 | | Conveyor Belting | 60.00 x 110.00 | 4 | NO | \$8,252 |
| AZZA63 | | Conveyor Belting | 60.00 x 120.00 | 4 | NO | \$8,986 |
| AZZA64 | | Conveyor Belting | 60.00 x 130.00 | 4 | NO | \$9,719 |
| AZZA65 | | Conveyor Belting | 60.00 x 140.00 | 4 | NO | \$10,453 |
| AZZA66 | | Conveyor Belting | 60.00 x 150.00 | 4 | NO | \$11,187 |

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APPENDIX G

TIRE LIFE AND TIRE WEAR FACTORS

SECTION I. TIRE WEAR FACTORS

The tire wear factors used in this pamphlet are listed in appendix D. The “useful life” of a new tire is the product of Condition Factors (CF) from I through V, the Wheel Position Factor (WPF), the Grade Factor (GF) (for Drive Tires only) and the Miscellaneous Condition (MC). These factors provide a percentage reduction to the maximum tire life. See chapter 2 for tire cost methodology.

Condition Factors, Wheel Position Factors, Grade Factor, and Miscellaneous Condition are derived from the Caterpillar Performance Handbook.

The factors shown below are examples specifically for a rear dump wagon.

| Condition Factors (CF): | Average | Severe |
|--|----------------|---------------|
| I. Maintenance | 0.981 | 0.763 |
| II. Speed | 0.872 | 0.763 |
| III. Curves | 0.981 | 0.872 |
| IV. Surface Condition | 0.981 | 0.763 |
| V. Loads | 1.090 | 0.709 |
| CF Product of the factors (I x II x III x IV x V) | 0.897 | 0.275 |
| VI. Wheel Position Factors (WPF): | | |
| WPF-FT Front Tire (FT) | 0.981 | 0.981 |
| WPF-DTR Drive Tire (DT) - Rear Dump | 0.818 | 0.709 |
| WPF-TT Trailing Tire (TT) | 1.090 | 1.090 |
| VII. Grade Factor (GF) (Drive Tires Only) | 0.981 | 0.763 |
| VIII. Miscellaneous Condition (MC) | 1.090 | 0.981 |

SECTION I. TIRE WEAR FACTORS (Continued)

**Example: Final Tire Wear Factors for Wagon, Rear Dump
(See Appendix D, Category W15)**

| | <u>Average</u> | <u>Severe</u> |
|---|----------------|---------------|
| Front Tire - Average = (CF = 0.897)(WPF-FT = 0.981)(MC = 1.090) | 0.96 | |
| Front Tire - Severe = (CF = 0.275)(WPF-FT = 0.981)(MC = 0.927) | 0.60 | |
| Drive Tire - Average = (CF = 0.897)(WPF-DTR = 0.763)(GF = 0.981)(MC = 1.090) | 0.78 | |
| Drive Tire - Severe = (CF = 0.275)(WPF-DTR = 0.732)(GF = 0.763)(MC = 0.927) | 0.15 | |
| Trailing Tire - Average = (CF = 0.897)(WPF-TT = 1.090)(MC = 1.090) | 1.07 | |
| Trailing Tire - Severe = (CF = 0.275)(WPF-TT = 1.090)(MC = 0.927) | 0.29 | |

SECTION II. MAXIMUM TIRE LIFE

Maximum tire life is used in the formula to determine tire wear cost and is located in Appendix F by type of tire.

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

A1 - ALLIED-GATOR, INC.

A2 - ASV INC.

A3 - AMERICAN PILEDRIVING EQUIPMENT, INC.

A4 - ATLAS COPCO WAGNER INC.

AA - AMERICAN AUGERS, INC.

AB - ALLMAND BROTHERS INC.

AC - ACE ENTERPRISES

AD - ACKER DRILL COMPANY INC.

AE - MARATHON EQUIPMENT

AF - AIRPLACO EQUIPMENT CO., INC.

AG - ARROW-MASTER, INC.

AH - AUTO CRANE CO.

AI - AMIDA INDUSTRIES, INC.

AJ - ALLEN ENGINEERING CORP.

AK - TYLER EQUIPMENT CO.

AL - ALLENTOWN EQUIPMENT

AM - AMERICAN CRANE CORPORATION (TEREX)

AN - ATLANTIC

AO - ALKOTA CLEANING SYSTEMS, INC.

AP - AMERICAN PILEDRIVING EQUIPMENT, INC.

AQ - AQUATICS UNLIMITED

AR - AMERICAN ROAD MACHINERY, INC.

AS - ATLAS COPCO CONSTRUCTION TOOLS INC.

AT - ANDERSON MAVOR INC.

AU - ALLIED CONSTRUCTION PRODUCTS

AV - ALIVA LTD.

AW - AIRMAN (HOKUETSU INDUSTRIES CO. LTD.)

AX - AMERICAN COMPACTION EQUIPMENT, INC.

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

AY - KOMLINE-SANDERSON ENGINEERING CO.

AZ - ALLIS-CHALMERS CORP.

B1 - BLAST ONE

BA - BADGER EQUIPMENT CO.

BB - BASCO

BC - NORTH STAR ENGINEERED PRODUCTS, INC.

BD - BRODERSON MANUFACTURING CORPORATION

BE - INGERSOLL RAND MATERIAL HANDLING

BF - BENFORD

BG - BARBER-GREENE COMPANY

BI - BOR-IT MANUFACTURING COMPANY INC.

BJ - BURKEEN MANUFACTURING CO.

BK - VOLVO [BLAW KNOX]

BL - BLASTRAC

BM - BROCE MANUFACTURING COMPANY

BN - BANDIT INDUSTRIES, INC.

BO - BOMAG

BQ - BELL EQUIPMENT NORTH AMERICA INC .

BR - BROOKVILLE MINING EQUIPMENT CORP.

BS - BALDERSON, INC.

BT - BREAKER TECHNOLOGY INC.

BU - BUSH HOG

BW - BOWIE INDUSTRIES, INC.

BX - BIL-JAX, INC.

BY - BUCYRUS INTERNATIONAL INC.

C1 - COYOTE LOADER SALES, INC.

C2 - CARELIFT EQUIPMENT

C3 - TIME CONDOR CORPORATION

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

| |
|--|
| C4 - CATERPILLAR LIFT TRUCKS, |
| C5 - CONSTRUCTION EQUIPMENT COMPANY |
| C6 - CANCADE |
| CA - CATERPILLAR INC. (MACHINE DIVISION) |
| CB - CONSOLIDATED BALING MACHINE COMPANY, INC |
| CC - CEMEN TECH |
| CD - CDS GROUP |
| CE - ATHEY PRODUCTS CORPORATION |
| CF - CGR COMPACTING |
| CG - CHEMGROUT, INC. |
| CH - CHAMPION ROAD MACHINERY-PRO PAV (WIRTGEN) |
| CI - CHIPMORE MANUFACTURING CO., INC. |
| CJ - COLD JET |
| CK - CHICAGO PNEUMATIC TOOL CO. |
| CL - CON-E-CO |
| CM - CLEMCO INDUSTRIES CORPORATION |
| CN - CEMEN TECH, INC. |
| CO - WASTE CONTROL SYSTEMS, INC. |
| CP - CRISAFULLI PUMP |
| CQ - CUSHION CUT, INC. (HUSQVARNA) |
| CR - CAMLEVER |
| CS - CASE CORPORATION |
| CT - CLEVELAND PACIFIC TRENCHER CO |
| CU - WASTEQUIP CUSCO INDUSTRIES |
| CV - CONMACO, INC. |
| CW - TEREX - CMI (TEREX ROADBUILDING) |
| CX - CMC (CONSTRUCTION MACHINERY COMPANY) |
| CY - CENTRIC |

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

CZ - CLYDE IRON WORKS

DA - ELCO INTERNATIONAL INC.

DC - DURCO FILTERS

DD - DELTA DREDGE & PUMP CORP.

DE - DEMOLITION TECHNOLOGIES

DF - DURA FLOAT

DG - DAINONG HEAVY INDUSTRIES, INC.

DH - DAEWOO HEAVY INDUSTRIES LTD.

DI - DICKSON INDUSTRIES INC.

DJ - CATERPILLAR/DJB

DL - BAUER-PILECO, INC.

DN - DYNATECH

DO - DOSCO CORPORATION

DP - DOOSAN PORTABLE POWER

DR - DRESSER MINING EQUIPMENT

DS - DREDGING SUPPLY COMPANY (DSC)

DT - SANDVIK [DRILLTECH]

DW - DITCH WITCH (THE CHARLES MACHINE WORKS)

DX - DYMAX

DY - DYNAPAC DIVISION - SVEDALA INDUSTRIES

EA - EAGER BEAVER

EC - ELGIN SWEEPER COMPANY

ED - EQUIPMENT DEVELOPMENT CO., INC. (EDCO)

EI - EIMCO JARVIS CLARK

EJ - CEDARAPIDS INC., A TEREX COMPANY

EL - ELICOTT MACHINE CORPORATION

EM - EXCEL MACHINERY LTD.

EN - EQUIPMENT NORTH

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

| | |
|----|--|
| EP | - ENVIRO-PAK |
| ES | - ESCO CORPORATION |
| ET | - E. D. ETNYRE & CO. |
| EU | - EUCLID INDUSTRIES, INC. |
| EV | - EVOQUA |
| EX | - EXCEL INDUSTRIES, INC. |
| EZ | - E-Z DRILL, INC. |
| FC | - FERMEC NORTH AMERICA LTD., A TEREX CO. |
| FE | - FELKER (TARGET) |
| FG | - FINN CORPORATION |
| FH | - FRUEHAUF TRAILER CORPORATION |
| FI | - FIATALLIS |
| FK | - FRANKLIN TREEFARMER |
| FL | - FLETCHER MINING EQUIPMENT |
| FN | - NEW HOLLAND NORTH AMERICA, INC. |
| FO | - FORD MOTOR COMPANY |
| FR | - FERGUSON MANUFACTURING & EQUIPMENT |
| FS | - FIVE STAR MANUFACTURING CO/ELGIN SWEEPER |
| FU | - FURUKAWA CO.,LTD. |
| G1 | - GRACO, INC. |
| GA | - GRADALL COMPANY |
| GB | - GAR-BRO MANUFACTURING COMPANY |
| GC | - GEHL COMPANY |
| GD | - GARDNER-DENVER INDUSTRIAL MACHINES |
| GE | - GENSCO AMERICA CO. LTD. |
| GF | - GRIFFIN DEWATERING CORP. |
| GH | - GEITH INC. |
| GI | - GALION DIVISION |

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

| | |
|----|---------------------------------------|
| GJ | - GENIE INDUSTRIES |
| GL | - GARLOCK EQUIPMENT CO. |
| GM | - GENERAL MOTORS |
| GN | - GALION DUMP BODIES, INC. |
| GO | - GOMACO CORPORATION |
| GR | - GORMAN-RUPP COMPANY |
| GT | - GILCREST EQUIPMENT COMPANY |
| GV | - GROVE CRANES (MANITOWOC) |
| GW | - GROVE MANLIFT (JLG) |
| HA | - HAZCO SERVICES, INC. |
| HB | - HAWCO (ANVIL ATTACHMENTS) |
| HC | - HAMM COMPACTORS, INC. |
| HD | - HYDRAULIC POWER SYSTEMS, INC. |
| HE | - HENDRIX MANUFACTURING COMPANY, INC. |
| HF | - HYDRA-MAC INTERNATIONAL, INC. |
| HG | - HUSQVARNA CONSTRUCTION PRODUCTS |
| HH | - ESG MANUFACTURING H&H PUMP & DREDGE |
| HI | - HITACHI CONSTRUCTION MACHINERY |
| HJ | - HOLMES |
| HM | - H&M VIBRO, INC. |
| HN | - HINO DIESEL TRUCKS (U.S.A.) INC. |
| HO | - RIVERSIDE PUMP MANUFACTURING |
| HP | - COMPACTION AMERICA |
| HQ | - HYPAC COMPACTION EQUIPMENT |
| HR | - HYDROCAL INC. |
| HU | - HYUNDAI CONSTRUCTION EQUIPMENT |
| HV | - HUSQVARNA FOREST & GARDEN CO. |
| HW | - HEWITT-ROBINS |

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

| | |
|----|---|
| HY | - HYSTER CO. |
| HZ | - HOFFCO-COMET |
| IA | - INGERSOLL RAND ROTARY-REC COMPRESSOR DIV |
| IB | - INGERSOLL RAND DRILLING (ATLAS COPCO) |
| IC | - INTERNATIONAL CONSTRUCTION EQUIPMENT, INC |
| ID | - KOMATSU DRESSER |
| IE | - IDEAL MANUFACTURING, INC. |
| IF | - INGERSOLL RAND PORTABLE COMPRESSOR DIV |
| IG | - INGRAM COMPACTING, LLC |
| IH | - NAVISTAR INTERNATIONAL TRANSPORTATION |
| IM | - INNOVATIVE MATERIAL SYSTEMS, INC. (IMS) |
| IN | - INGERSOLL RAND CO. |
| IP | - INGERSOLL RAND ROAD MACHINERY DIV |
| IR | - INGERSOLL RAND CO. |
| IS | - INSLEY DIVISION |
| IT | - NAVISTAR INTERNATIONAL CORPORATION |
| JC | - JCB INC. |
| JD | - JOHN DEERE |
| JE | - JCL EQUIPMENT CO. |
| JL | - JLG INDUSTRIES, INC. |
| JM | - JEFFREY MINING MACHINERY DIVISION |
| JO | - C. S. JOHNSON COMPANY |
| JP | - J-PYOTT |
| JR | - JRB COMPANY INC. |
| JS | - JOHNSTON SWEEPER COMPANY |
| JU | - ATI-BELL |
| KA | - KAWASAKI LOADERS, INC. |
| KB | - KOLBERG - PIONEER, INC |

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

KC - KOBELCO AMERICA INC.

KD - K-D MANITOU, INC.

KE - KENWORTH TRUCK COMPANY

KF - KNAPHEIDE MANUFACTURING CO.

KH - KOHLER COMPANY

KI - KLEIN PRODUCTS, INC.

KJ - KPI-JCI

KK - KEENE ENGINEERING INC.

KL - KOLMAN / ATHEY DIV.

KM - KOMATSU AMERICA INTERNATIONAL COMPANY

KN - KENT DEMOLITION TOOLS

KO - KOEHRING CRANES, INC.

KP - KOCH-WATER

KR - KORI CORPORATION

KU - KUBOTA TRACTOR CORPORATION

KW - KERSHAW MFG., CO.

KZ - KEIZER TECHNOLOGIES AMERICAS, INC

LA - LAYTON MANUFACTURING COMPANY

LB - LINK-BELT CONSTRUCTION EQUIPMENT CO.

LC - LINCOLN ELECTRIC COMPANY

LD - LEE-BOY

LE - LELY PACIFIC, INC.

LF - LOFTNESS / US ATTACHMENTS

LG - LITTLE GIANT CRANE & SHOVEL INC.

LH - LIEBHERR CONSTRUCTION EQUIPMENT CO.

LI - LINK-BELT CONSTRUCTION EQUIPMENT COMPANY

LK - LIFTKING INDUSTRIES, INC.

LL - OMNIQUIP, LULL

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

LN - LONDON MACHINERY INC.

LO - LORAIN CRANES DIVISION

LS - LAYMOR SWEEPERS

LU - LABOUNTY MANUFACTURING,

LY - BOART LONGYEAR COMPANY

LZ - LIEBHERR CONSTRUCTION EQUIPMENT CO.

M1 - MANITEX - MANITOWOC BOOM TRUCKS GROUP

M2 - MAULDIN - CALDER BROTHERS CORP.

M3 - MAYCO PUMP - MULTQUIP INC.

M4 - MITCHELL INDUSTRIAL TIRE COMPANY (MITCO)

M5 - MUNSON WORKBOATS

MA - MANITOWOC ENGINEERING CO.

MB - M-B COMPANIES, INC.

MC - VME NORTH AMERICA

MD - MDI/YUTANI

ME - MELROE BOBCAT

MF - MF INDUSTRIAL

MG - McMaster-Carr

MH - MITSUBISHI FUSO TRUCK OF AMERICA

MI - MITSUBISHI CONSTRUCTION EQUIP.

MJ - MILLER CURBER

MK - MKT MANUFACTURING, INC.

ML - ITT MARLOW PUMPS

MM - MACO-MUEDON

MN - GRANUTE-SATURN SYSTEMS(MAC CORPORATION)

MO - MORGAN MANUFACTURING CO.

MP - MIDLAND MACHINERY CO

MQ - MORBARK, INC.

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

MR - MOBILE DRILL

MS - MUSTANG UNITS COMPANY

MT - MACK TRUCKS, INC.

MU - MULTQUIP, INC.

MV - MAYVILLE ENGINEERING CO., INC.

MW - M-B-W, INC.

MX - MANITEX

MY - MIDLAND MANUFACTURING INC.

MZ - MARINE INLAND FABRICATORS

NA - NAGANO - LELY CORP.

NB - NASCO EQUIPMENT CO. INC.

NC - NATIONAL CRANE CORPORATION

NE - NEAL MANUFACTURING COMPANY, INC

NI - NIFTYLIFT INC. - USA

NL - NLB CORPORATION

NO - NORTHWEST ENGINEERING COMPANY

NP - NPK CONSTRUCTION EQUIPMENT

OE - OLIN PUMP

OK - O & K ORENSTEIN & KOPPEL INC.

OL - OLYMPIK CHAIN SAWS

ON - ONAN CORPORATION

OX - OX BODIES

PA - PALFINGER INC.

PB - PETTIBONE MICHIGAN LLC

PC - GETMAN BROTHERS MFG. COMPANY

PE - PETERBILT MOTORS COMPANY

PH - P & H

PI - PIQUA ENGINEERING

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

PL - PRO-LINE / ANVIL ATTACHMENTS

PN - PEMBERTON, INC.

PO - PROGRESSIVE DEVELOPMENT INC.

PP - PACIFIC RUBBER

PR - USFILTER PERRIN PRODUCTS

PS - POWER CURBERS, INC.

PT - PATENT CONSTRUCTION SYSTEMS

PU - PUTZMEISTER INC.

PV - PAVEMENT TECHNOLOGIES INETERNATIONAL

PW - POWERSCREEN INTERNATIONAL DISTRIBUTN LTD

PZ - PORT INDUSTRIES

RA - METSO MINERALS

RC - JOHNSON-ROSS (TEREX ROADBUILDING)

RD - REEDRILL (TEREX)

RE - NORSTAR PRODUCTS INTERNATIONAL, INC.

RI - REYNOLDS INTERNATIONAL, L.P.

RK - RAPID MIX

RL - REICHDRLILL

RM - ROME PLOW CO.

RN - ALLIED SYSTEMS COMPANY (RANGER)

RO - ROBBINS COMPANY

RQ - REED MANUFACTURING

RR - RAMMER - GR COSTRUTTORI - SANDVIK

RS - ROSCO, A LeeBoy COMPANY

RT - ROADTEC

RX - RAMMAX MACHINERY CO.

RZ - ROCKLAND MANUFACTURING COMPANY

S1 - STANLEY HYDRAULIC TOOLS

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

S2 - SCHRAMM, INC.

S3 - CHAMPION ROAD MACHINERY - SUPERPAC CO.

S4 - SUPERIOR INDUSTRIES, AN ASTEC COMPANY

S5 - SOMAT WASTE REDUCTION TECHNOLOGY

S6 - SUPERIOR TIRE & RUBBER CORP.

S7 - STIHL

SA - SAUERMAN (NATIONAL OILWELL VARCO)

SB - SCAT TRAK - OMNIQUIP - TEXTRON INC.

SC - SCHWING AMERICA INC.

SD - SIOUX STEAM CLEANER CORPORATION

SE - SEALMASTER, INC.

SF - SECO CORPORATION

SG - STONE CONSTRUCTION EQUIPMENT, INC.

SH - SHRED-TECH LIMITED

SI - SAKAI AMERICA, INC.

SJ - SKYJACK, INC.

SK - LTV ENERGY PRODUCTS (SKAGIT)

SL - SHUTTLELIFT, INC.

SM - SEAARK MARINE

SN - STEPHENS MANUFACTURING CO., INC.

SO - SOUTHWEST CONSTRUCTION EQUIPMENT CO.

SP - SPRAGUE AND HENWOOD

SQ - SCHAEFF INC.

SR - SULLAIR CORPORATION

SS - SAMSUNG CONSTRUCTION EQUIPMENT AMERICA

ST - STOW MANUFACTURING, INC.

SU - SULLIVAN-PALATEK, INC.

SV - SOMERO ENTERPRISES, INC.

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

SW - SNORKEL

SX - SELICK EQUIPMENT LIMITED

SY - SKY TRAK - OMNIQUIP - TEXTRON INC.

SZ - STRATO-LIFT INTERNATIONAL CORP.

TA - TAMPO MANUFACTURING CO., INC.

TB - TERRAMITE CONSTRUCTION EQUIPMENT

TC - TCM

TD - TADANO MANTIS

TE - TEREX CORPORATION

TF - THOMAS EQUIPMENT LTD.

TG - TIMBCO HYDRAULICS, INC.

TH - TEEMARK CORPORATION

TI - TIMBERJACK, A JOHN DEERE COMPANY

TJ - TRAMAC

TK - TAKEUCHI MFG. (U.S.), LTD

TL - BREAKER TECHNOLOGY, INC. (AN ASTEC CO.)

TM - TESMEC USA, INC.

TO - TORO

TR - TEREX MINING

TS - TELSMITH INC.

TT - TRAIL KING INDUSTRIES, INC.

TU - TITAN INTERNATIONAL, INC.

TV - TRAVERSE LIFT CO.

UE - UNDERGROUND EQUIPMENT & SUPPLY

UL - UNIVERSAL ENGINEERING - SVEDALA - METSO

UN - UNIT RIG

UP - UPRIGHT INC.

VA - VOEST-ALPINE

APPENDIX H MANUFACTURER LIST

CODE MANUFACTURER

VB - VIBROMAX AMERICA INC.

VE - VERMEER MANUFACTURING CO.

VI - VINCE HAGAN COMPANY

VO - VOLVO CONSTRUCTION EQUIPMENT GROUP

VP - VOGELA AMERICA - PRO-PAV DIV.

VS - VALLEY SLURRY SEAL / MACROPAVER DIVISION

VT - VALMET - PARTEK FOREST LLC

VU - VULCAN HAMMER

WA - HAULPAK DIVISION

WB - WEBER MASCHINENTECHNIK GMBH

WC - WACKER CORPORATION

WD - WALDON, INC.

WE - WEATHERFORD U.S. INC.

WF - WATSON INC.

WG - ATLAS COPCO WAGNER

WH - WIGGINS LIFT CO., INC.

WI - WILLMAR EQUIPMENT COMPANY

WL - WALKER MANUFACTURING CO., INC.

WN - WAIN-ROY, INC.

WO - WACO SCAFFOLDING & EQUIPMENT

WR - WEILER

WS - WHITEMAN CONSPLAY, INC.

WT - WIRTGEN AMERICAN, INC.

WV - WRT EQUIPMENT

XX - NO SPECIFIC MANUFACTURER

YA - YANMAR DIESEL AMERICA CORP

YB - ADVANCED ENVIRONMENTAL SOLUTIONS

ZZ - GENERIC EQUIPMENT

APPENDIX I
FEDERAL COST OF MONEY RATE
(Renegotiation or Prompt Payment Rate)

| EFFECTIVE MONTHS | EFFECTIVE DATE | RATE |
|------------------|----------------|--------|
| JULY - DECEMBER | 7/1/2001 | 5.875% |
| JANUARY - JUNE | 1/1/2002 | 5.500% |
| JULY - DECEMBER | 7/1/2002 | 5.250% |
| JANUARY - JUNE | 1/1/2003 | 4.250% |
| JULY - DECEMBER | 7/1/2003 | 3.125% |
| JANUARY - JUNE | 1/1/2004 | 4.000% |
| JULY - DECEMBER | 7/1/2004 | 4.500% |
| JANUARY - JUNE | 1/1/2005 | 4.250% |
| JULY - DECEMBER | 7/1/2005 | 4.500% |
| JANUARY - JUNE | 1/1/2006 | 5.125% |
| JULY - DECEMBER | 7/1/2006 | 5.750% |
| JANUARY - JUNE | 1/1/2007 | 5.250% |
| JULY - DECEMBER | 7/1/2007 | 5.750% |
| JANUARY - JUNE | 1/1/2008 | 4.750% |
| JULY - DECEMBER | 7/1/2008 | 5.125% |
| JANUARY - JUNE | 1/1/2009 | 5.625% |
| JULY - DECEMBER | 7/1/2009 | 4.875% |
| JANUARY - JUNE | 1/1/2010 | 3.250% |
| JULY - DECEMBER | 7/1/2010 | 3.125% |
| JANUARY - JUNE | 1/1/2011 | 2.625% |
| JULY - DECEMBER | 7/1/2011 | 2.500% |
| JANUARY - JUNE | 1/1/2012 | 2.000% |
| JULY - DECEMBER | 7/1/2012 | 1.750% |
| JANUARY - JUNE | 1/1/2013 | 1.375% |
| JULY - DECEMBER | 7/1/2013 | 1.750% |
| JANUARY - JUNE | 1/1/2014 | 2.125% |
| JULY - DECEMBER | 7/1/2014 | 2.000% |
| JANUARY - JUNE | 1/1/2015 | 2.125% |
| JULY - DECEMBER | 7/1/2015 | 2.375% |
| JANUARY - JUNE | 1/1/2016 | 2.500% |
| JULY - DECEMBER | 7/1/2016 | 1.875% |

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APPENDIX J **EQUIPMENT ACCESSORIES**

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories have been included with the major equipment listed in this pamphlet when they are not included with the basic cost and are offered by the manufacturer.

| CAT SUB | DESCRIPTION |
|----------------|---|
| C85.10 | CRANES, DRAGLINE AND CLAMSHELL, CRAWLER MOUNTED Power load lowering Independent swing and travel Third drum Torque converter (machines 1 1/2 cubic yard (cy) or larger) Approximately one-half maximum boom length Counterweight (standard) Fire extinguisher 5-B:C Swing and reverse signal (backup) alarm Boom angle indicator and a load-indicating device Drum rotation indicators Anti-two block (upper limit) devices Manufacturers' mandatory accessories |
| C85.20 | CRANES, LIFTING, CRAWLER MOUNTED Power load lowering Independent swing and travel Third drum Torque converter (machines 25 tons or larger) One-half maximum boom length (machines less than 60 tons) Maximum boom length at 360 degree rating (machines larger than 60 tons) Counterweight (standard) Fire extinguisher 5-B:C Swing and reverse signal (backup) alarm Boom angle indicator and a load-indicating device Drum rotation indicators Anti-two block (upper limit) devices Manufacturers' mandatory accessories Hook block on machines larger than 100 tons |
| C90.01 | TRUCK CRANES - LESS THAN 25 TONS |

| CAT SUB | DESCRIPTION |
|---------------|--|
| | Power load lowering Third drum Mechanical outriggers with screw jacks Maximum boom length at 360 degrees rating Counterweight (standard) Fire extinguisher 5-B:C Swing and reverse signal (backup) alarm Boom angle indicator and a load-indicating device Drum rotation indicators Anti-two block (upper limit) devices Manufacturers mandatory accessories |
| C90.02 | TRUCK CRANE - 25 TONS AND LARGER |
| C90.03 | Power load lowering |
| C90.04 | Third drum Hydraulic outriggers with screw jacks Torque converter when available (upper only) Maximum boom length at 360 degrees rating Counterweight (standard) Fire extinguisher 5-B:C Reverse signal (backup) alarm Boom angle indicator and a load-indicating device Drum rotation indicators Anti-two block (upper limit) devices Hook block on machines larger than 100 tons |
| G15 | GRADER Rollover protective structures (ROPS) with enclosed cab Ripper/scarifier, rear mounted Front wheel lean Power circle Hydraulic shift and tilt moldboard End bits Standard work lights Fire extinguisher 5-B:C Reverse signal (backup) alarm |
| H25 | EXCAVATORS, HYDRAULIC |
| H30 | Backhoe bucket (standard) Backhoe stick (medium length) Backhoe boom (one piece) |

| CAT SUB | DESCRIPTION |
|---------|---|
| | Backhoe bucket linkage (with cylinder) Guards Counterweight Standard work lights Reverse signal (backup) alarm ROPS Fire extinguisher 5-B:C |
| H35 | HYDRAULIC SHOVELS - CRAWLER MOUNTED Torque converter (machines 1 1/2 cy or larger) Counterweight Reverse signal (backup) alarm ROPS Fire extinguisher 5-B:C |
| L30 | LOADERS, BELT (CONVEYOR BELTS) Power unit Head pulley clutch and backstop Belt cleaner and belt installing equipment King pin attachments |
| L35 | LOADERS, 1 1/2 cy AND LARGER |
| L40 | Blower fan Guard, power train Automatic bucket positioner Standard counterweight <u>Machines less than 7 cy:</u> General purpose or excavating bucket with bolt on cutting edge and no teeth <u>Machines 7 cy or larger:</u> Rock bucket with bolt on cutting edge and teeth Standard work lights Reverse signal (backup) alarm ROPS Fire extinguisher 5-B:C |
| S10 | SCRAPERS |
| S15 | Control single lever |
| S20 | Blower fan Standard work light Guards, power train Reverse signal (backup) alarm |

| CAT | SUB | DESCRIPTION |
|-----|------------------------------|---|
| | | ROPS Fire extinguisher 5-B:C Supplemental steering |
| T15 | TRACTOR, CRAWLER | Hydraulic controls for ripper and blade Guards Blower fan Standard work lights Hook, front pull Track grousers (severe service for units over 200 hp) Counterweights where required Reverse signal (backup) alarm ROPS Universal blade |
| T20 | TRACTOR, WHEEL | Hydraulic controls for ripper and blade Guards Blower fan Standard work lights Blade Fire extinguisher 5-B:C Counterweights when required |
| T25 | TRACTOR, AGRICULTURAL | Independent power take-off (PTO) Standard work lights Fire extinguisher 5-B:C Counterweights when required 3-point hitch ROPS Hydraulic system with controls |
| T55 | TRUCKS, OFF-HIGHWAY | No spin differential Tachograph Engine and transmission guards Body liners |

APPENDIX K

Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | Blade cutting edges, wear plates, hard facing, and end plates | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|----------|--|----|---|----|--------|------|---|--|----------------------------------|-------------------------------------|------|
| SUB | | | | | | | | | | | |
| B15 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 95 | A | B | 8,000 | 0.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.80 |
| B25 0.00 | BUCKETS, CLAMSHELL | 15 | A | B | 8,000 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| B25 0.00 | BUCKETS, CLAMSHELL | 15 | S | B | 6,500 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| B35 0.00 | BUCKETS, DRAGL NE | 1 | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| B35 0.10 | LIGHT WEIGHT | 15 | A | B | 8,000 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| B35 0.10 | LIGHT WEIGHT | 15 | S | B | 6,500 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| B35 0.20 | MEDIUM WEIGHT | 15 | A | B | 9,000 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| B35 0.20 | MEDIUM WEIGHT | 15 | S | B | 7,000 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| B35 0.30 | HEAVY WEIGHT | 15 | A | B | 10,000 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| B35 0.30 | HEAVY WEIGHT | 15 | S | B | 8,000 | 0.10 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| G15 0.00 | GRADERS, MOTOR | 35 | A | B | 14,500 | 0.25 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.75 |
| G15 0.00 | GRADERS, MOTOR | 35 | S | B | 13,500 | 0.25 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.85 |
| H25 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | 1 | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | A | B | 8,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | S | B | 7,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | A | B | 8,500 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | S | B | 7,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.85 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | A | B | 12,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |

EK=Economic Key (Appendix E)

LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)

SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

APPENDIX K

Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | Blade cutting edges, wear plates, hard facing, and end plates | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|----------|-------------------------------------|----|---|----|--------|------|---|--|----------------------------------|-------------------------------|------|
| SUB | | | | | | | | | | | |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | S | B | 10,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.95 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | A | B | 16,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.00 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | S | B | 13,500 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | A | B | 19,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | S | B | 15,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.25 |
| H30 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | 1 | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| H30 0.01 | 0 THRU 1.0 CY | 65 | A | B | 8,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.50 |
| H30 0.01 | 0 THRU 1.0 CY | 65 | S | B | 6,500 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.55 |
| H30 0.02 | OVER 1 0 CY | 65 | A | B | 10,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.60 |
| H30 0.02 | OVER 1 0 CY | 65 | S | B | 8,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.65 |
| H35 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | 1 | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| H35 0.11 | DIESEL, 0 CY THRU 5 0 CY | 65 | A | B | 14,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.00 |
| H35 0.11 | DIESEL, 0 CY THRU 5 0 CY | 65 | S | B | 12,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.10 |
| H35 0.12 | DIESEL, OVER 5 0 CY | 65 | A | B | 16,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.20 |
| H35 0.12 | DIESEL, OVER 5 0 CY | 65 | S | B | 14,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.30 |
| H35 0.21 | ELECTRIC, OVER 2 5 CY | 65 | A | B | 18,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| H35 0.21 | ELECTRIC, OVER 2 5 CY | 65 | S | B | 16,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.90 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | A | B | 10,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.10 |

EK=Economic Key (Appendix E)

LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)

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DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

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APPENDIX K

Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | Blade cutting edges, wear plates, hard facing, and end plates | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|----------|---|----|---|----|--------|------|---|--|----------------------------------|-------------------------------------|------|
| SUB | | | | | | | | | | | |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | S | B | 8,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.25 |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | 1 | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | A | B | 9,250 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | S | B | 8,750 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | A | B | 13,500 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.70 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | S | B | 12,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.75 |
| L40 0.20 | SK D STEER | 45 | A | B | 8,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| L40 0.31 | TOOL CARR ER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | A | B | 10,000 | 0.25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.85 |
| L40 0.31 | TOOL CARR ER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | S | B | 9,250 | 0.25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.90 |
| L40 0.32 | TOOL CARR ER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | A | B | 12,000 | 0.15 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.85 |
| L40 0.32 | TOOL CARR ER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | S | B | 10,000 | 0.15 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.90 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | A | B | 8,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.35 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | S | B | 6,000 | 0.20 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.40 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | A | B | 10,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.80 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | S | B | 6,000 | 0.25 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.85 |
| L60 0.00 | LOG SK DDERS | 75 | A | B | 10,000 | 0.15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.70 |
| L60 0.00 | LOG SK DDERS | 75 | S | B | 8,000 | 0.15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.80 |
| P35 0.00 | PIPELAYERS | 70 | A | B | 14,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.95 |

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APPENDIX K

Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | Blade cutting edges, wear plates, hard facing, and end plates | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|----------|--|----|---|----|--------|------|---|--|----------------------------------|-------------------------------------|------|
| SUB | | | | | | | | | | | |
| P35 0.00 | PIPELAYERS | 70 | S | B | 11,500 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1.10 |
| R30 0.00 | ROLLERS, STATIC, SELF-PROPELLED | 1 | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| R30 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 55 | A | B | 12,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.80 |
| S10 0.00 | SCRAPERS, ELEVATING | 1 | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| S10 0.01 | 0 THRU 200 HP | 60 | A | B | 10,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.90 |
| S10 0.01 | 0 THRU 200 HP | 60 | S | B | 8,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1.00 |
| S10 0.02 | OVER 200 HP | 60 | A | B | 13,000 | 0.25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.95 |
| S10 0.02 | OVER 200 HP | 60 | S | B | 11,500 | 0.25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1.00 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 60 | A | B | 15,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.80 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 60 | S | B | 12,500 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.85 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 60 | A | B | 15,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.85 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 60 | S | B | 13,500 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.90 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | A | B | 12,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.70 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | S | B | 10,000 | 0.20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.75 |
| T15 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | 1 | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| T15 0.01 | 0 THRU 225 HP | 70 | A | B | 10,000 | 0.30 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.10 |
| T15 0.01 | 0 THRU 225 HP | 70 | S | B | 8,000 | 0.30 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.25 |
| T15 0.02 | 226 HP THRU 425 HP | 70 | A | B | 12,500 | 0.25 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.20 |

EK=Economic Key (Appendix E)

LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)

SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

APPENDIX K
Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | DESCRIPTION | EK | C | DC | LIFE | SLV | Blade cutting edges, wear plates, hard facing, and end plates | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|----------|------------------------------|----|---|----|--------|------|---|--|----------------------------------|-------------------------------|------|
| SUB | | | | | | | | | | | |
| T15 0.02 | 226 HP THRU 425 HP | 70 | S | B | 10,500 | 0.25 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.25 |
| T15 0.03 | OVER 425 HP | 70 | A | B | 15,000 | 0.20 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.20 |
| T15 0.03 | OVER 425 HP | 70 | S | B | 12,500 | 0.20 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1.35 |
| T20 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | A | B | 14,000 | 0.15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.60 |
| T20 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | S | B | 13,000 | 0.15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.65 |

EK=Economic Key (Appendix E)

LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)

SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)

RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

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APPENDIX L
GUIDE FOR ESTIMATING DRILL STEEL AND DRILL BIT COSTS

Guide for Estimating Drill Steel and Drill Bit Costs

Prepared for the
US Army Corps of Engineers, Walla Walla District
By Western Mine Engineering, Inc in cooperation
with Aventurine Engineering, Inc. 2006

August 2006

Cost Assumptions for Drill Steel and Drill Bit

General:

The approach to defining the scope of this cost guide was to confine the work to the basic drilling process and attendant drill bit and steel lives and costs. This not only simplified the study parameters but also ensured that future users of the study results could readily modify the data to suit their individual needs.

1. The steel costs reflect the cost of drilling steel only. All ancillary equipment such as couplings, striking bars, and hammer maintenance items were not included.
2. The bit life is indicative of the total life of each bit to include up to 10 sharpenings/grindings per bit. The bit costs, however, are list prices for each bit and do not reflect the costs associated with this process.
3. Costs for both bits and steel are list pricing based on manufacturers' catalogs or quotes. No additional materials, equipment costs, or other associated costs are included. No discounts were applied to the catalog list prices. Estimators will have to determine an appropriate discount for their individual cases. All prices are based on current, 2006 costs.
4. The bit and steel lives and penetration rates are based on time the bit is engaged in the hole. Adjustment for setup, tear down, and moving time between holes has not been considered.
5. Appropriate bits were identified primarily by drill type and then list prices were determined from manufacturers' catalogs. All bits were button type; with threaded button bits used for the top hammer percussion drills, down the hole (DTH) button bits for "DTH" drills, and tungsten carbide button, roller bits selected for rotary drills.
6. Large rotary drills often use 20' or longer drilling steel. It was our belief that most situations Corps of Engineers estimators face will fall in the range of percussion or smaller "DTH" drills. In these instances the 12' rod is appropriate. Cursory review of the costs of longer steel rods suggest that costs for a specific drill steel diameter do not vary dramatically on a per foot basis for longer rods. Therefore, the assumption is made that a direct conversion to cost per rod for longer lengths can be made in proportion to the cost for a 12' length rod. For further information, see the note at the lower right corner of each of the spreadsheets for a detailed procedure to make the conversion for rod length and hole depth.

Example of Estimating Drill Steel and Drill Bit Costs

General:

The approach is to define the scope of the work and determine an estimated cost for drill steel and bits from the answers to the questions below. Follow the simplified steps to arrive at the estimated costs.

Determine parameters:

1. Determine the type of drilling method – percussion, down the hole (DTH), or rotary.
2. Determine the manufacturer and model of drilling equipment or determine equivalency of equipment used in this guide.
3. Determine the material that will be drilled through.
4. Determine the hole diameter of drill.
5. Determine the length of drill rod required to drill hole to the required depth.

Determine costs: (This is an example on how to determine costs)

1. Determine the type of drilling method – **down the hole (DTH)**.
2. Determine the manufacturer/model of drilling equipment – **Atlas Copco DM25SP**.
3. Determine the material that will be drilled - **Basalt**.
4. Determine the hole diameter of drill – **5"**.
5. Determine the length of drill rod required – **90 feet**.
6. Calculate drill steel costs from cost tables:
 - a. Cost of drill steel \$/foot per rod ranges \$0.034 to \$0.025 → will use **\$0.034**.
 - b. Based on 90' of drilling at 12' lengths of drill rod – $(90'/12') = 7.5$ rods are required. **Round up to next whole number = 8 rods**.
 - c. From drill steel cost adjustment factor chart: for 8 rods the **factor is 4.5**.
 - d. From instructions: $\$0.034 \times 4.5 = \$0.1530/\text{If of hole drilled}$.
7. Determine drill bit costs from cost tables – costs range from **\$0.55 to \$0.40/If**.

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DRILL MODEL - **Atlas Copco ROC D5 - percussion**

Bit Life (feet/bit)

| | 1.75 | 2.00 | 2.50 |
|--------------|-------------|-------------|---|
| Granite | 1,506 | - | 2,037 Hole Diameter (inches) |
| Basalt | 674 | - | 912 649 878 608 823 |
| Gabbro | 1,002 | - | 1,356 964 1,305 904 1,223 |
| Shale | 1,427 | - | 1,931 1,373 1,858 1,287 1,742 |
| Sandstone | 524 | - | 709 504 682 473 639 |
| Siltstone | 3,779 | - | 5,112 3,636 4,919 3,409 4,612 |
| Conglomerate | 292 | - | 395 281 380 263 356 |
| Breccia | 2,181 | - | 2,951 2,099 2,839 1,968 2,662 |
| Limestone | 1,835 | - | 2,483 1,766 2,389 1,656 2,240 |
| Schist | 3,414 | - | 4,619 3,285 4,444 3,080 4,167 |
| Slate | 1,710 | - | 2,313 1,645 2,226 1,542 2,087 |
| Gneiss | 735 | - | 995 707 957 663 897 |

Drill Steel Life (feet/rod)

| | 1.75 | 2.00 | 2.50 |
|--------------|-------------|-------------|---|
| Granite | 2,720 | - | 3,680 Hole Diameter (inches) |
| Basalt | 1,417 | - | 1,918 1,364 1,279 1,730 |
| Gabbro | 1,600 | - | 2,164 1,539 2,083 1,443 1,953 |
| Shale | 2,855 | - | 3,863 2,747 3,717 2,576 3,485 |
| Sandstone | 2,978 | - | 4,029 2,865 3,877 2,687 3,635 |
| Siltstone | 2,964 | - | 4,011 2,852 3,859 2,674 3,618 |
| Conglomerate | 3,425 | - | 4,633 3,295 4,458 3,090 4,180 |
| Breccia | 4,739 | - | 6,412 4,560 6,170 4,276 5,785 |
| Limestone | 3,931 | - | 5,318 3,782 5,117 3,546 4,798 |
| Schist | 4,828 | - | 6,532 4,646 6,285 4,356 5,893 |
| Slate | 3,133 | - | 4,239 3,015 4,079 2,827 3,824 |
| Gneiss | 2,849 | - | 3,855 2,742 3,709 2,571 3,478 |

Penetration Rate (feet/hour)

| | 1.75 | 2.00 | 2.50 |
|--------------|-------------|-------------|---|
| Granite | 98 | - | 132 Hole Diameter (inches) |
| Basalt | 57 | - | 77 48 65 37 50 |
| Gabbro | 63 | - | 85 53 72 41 55 |
| Shale | 102 | - | 138 87 117 66 90 |
| Sandstone | 105 | - | 142 90 121 69 93 |
| Siltstone | 105 | - | 142 89 121 68 92 |
| Conglomerate | 118 | - | 160 101 136 77 104 |
| Breccia | 155 | - | 210 132 179 101 137 |
| Limestone | 133 | - | 180 113 153 86 117 |
| Schist | 158 | - | 213 134 181 103 139 |
| Slate | 110 | - | 149 94 127 72 97 |
| Gneiss | 102 | - | 137 86 117 66 89 |

Bit Cost (\$/foot)

| | 1.75 | 2.00 | 2.50 |
|--------------|-------------|-------------|---|
| Granite | \$ 0.04 | - | \$ 0.03 Hole Diameter (inches) |
| Basalt | \$ 0.09 | - | \$ 0.07 \$ 0.11 \$ 0.08 \$ 0.16 \$ 0.12 |
| Gabbro | \$ 0.06 | - | \$ 0.05 \$ 0.07 \$ 0.05 \$ 0.11 \$ 0.08 |
| Shale | \$ 0.04 | - | \$ 0.03 \$ 0.05 \$ 0.04 \$ 0.08 \$ 0.06 |
| Sandstone | \$ 0.12 | - | \$ 0.09 \$ 0.14 \$ 0.10 \$ 0.21 \$ 0.15 |
| Siltstone | \$ 0.02 | - | \$ 0.01 \$ 0.02 \$ 0.01 \$ 0.03 \$ 0.02 |
| Conglomerate | \$ 0.21 | - | \$ 0.16 \$ 0.25 \$ 0.18 \$ 0.37 \$ 0.28 |
| Breccia | \$ 0.03 | - | \$ 0.02 \$ 0.03 \$ 0.02 \$ 0.05 \$ 0.04 |
| Limestone | \$ 0.03 | - | \$ 0.02 \$ 0.04 \$ 0.03 \$ 0.06 \$ 0.04 |
| Schist | \$ 0.02 | - | \$ 0.01 \$ 0.02 \$ 0.02 \$ 0.03 \$ 0.02 |
| Slate | \$ 0.04 | - | \$ 0.03 \$ 0.04 \$ 0.03 \$ 0.06 \$ 0.05 |
| Gneiss | \$ 0.08 | - | \$ 0.06 \$ 0.10 \$ 0.07 \$ 0.15 \$ 0.11 |

Drill Steel Cost (\$/foot per rod)

| | 1.75 | 2.00 | 2.50 |
|--------------|-------------|-------------|--|
| Granite | \$ 0.103 | - | \$ 0.07 Hole Diameter (inches) |
| Basalt | \$ 0.198 | - | \$ 0.146 \$ 0.205 \$ 0.152 \$ 0.253 \$ 0.187 |
| Gabbro | \$ 0.175 | - | \$ 0.129 \$ 0.182 \$ 0.134 \$ 0.224 \$ 0.166 |
| Shale | \$ 0.098 | - | \$ 0.072 \$ 0.102 \$ 0.075 \$ 0.126 \$ 0.093 |
| Sandstone | \$ 0.094 | - | \$ 0.069 \$ 0.098 \$ 0.072 \$ 0.121 \$ 0.089 |
| Siltstone | \$ 0.094 | - | \$ 0.070 \$ 0.098 \$ 0.073 \$ 0.121 \$ 0.090 |
| Conglomerate | \$ 0.082 | - | \$ 0.060 \$ 0.085 \$ 0.063 \$ 0.105 \$ 0.078 |
| Breccia | \$ 0.059 | - | \$ 0.044 \$ 0.061 \$ 0.045 \$ 0.076 \$ 0.056 |
| Limestone | \$ 0.071 | - | \$ 0.053 \$ 0.074 \$ 0.055 \$ 0.091 \$ 0.068 |
| Schist | \$ 0.058 | - | \$ 0.043 \$ 0.060 \$ 0.045 \$ 0.074 \$ 0.055 |
| Slate | \$ 0.089 | - | \$ 0.066 \$ 0.093 \$ 0.069 \$ 0.115 \$ 0.085 |
| Gneiss | \$ 0.098 | - | \$ 0.073 \$ 0.102 \$ 0.075 \$ 0.126 \$ 0.093 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|-----------------------|---------------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

DRILL MODEL - **Atlas Copco ROC D7 - percussion**

Bit Life (feet/bit)

| | 2.50 | 3.00 | 4.00 | |
|--------------|-------|------|-------|-------------------------------|
| Granite | 1,203 | - | 1,628 | Hole Diameter (inches) |
| Basalt | 539 | - | 729 | 499 |
| Gabbro | 801 | - | 1,083 | 742 |
| Shale | 1,140 | - | 1,542 | 1,057 |
| Sandstone | 418 | - | 566 | 388 |
| Siltstone | 3,019 | - | 4,084 | 2,798 |
| Conglomerate | 233 | - | 315 | 216 |
| Breccia | 1,742 | - | 2,357 | 1,615 |
| Limestone | 1,466 | - | 1,983 | 1,359 |
| Schist | 2,727 | - | 3,690 | 2,528 |
| Slate | 1,366 | - | 1,848 | 1,266 |
| Gneiss | 587 | - | 795 | 544 |
| | | | | 1,421 |
| | | | | 636 |
| | | | | 946 |
| | | | | 1,347 |
| | | | | 494 |
| | | | | 3,566 |
| | | | | 275 |
| | | | | 2,058 |
| | | | | 1,732 |
| | | | | 3,222 |
| | | | | 1,613 |
| | | | | 694 |

Drill Steel Life (feet/rod)

| | 2.50 | 3.00 | 4.00 | |
|--------------|-------|------|-------|-------------------------------|
| Granite | 2,173 | - | 2,940 | Hole Diameter (inches) |
| Basalt | 1,132 | - | 1,532 | 1,050 |
| Gabbro | 1,278 | - | 1,729 | 1,185 |
| Shale | 2,281 | - | 3,086 | 2,115 |
| Sandstone | 2,379 | - | 3,218 | 2,205 |
| Siltstone | 2,368 | - | 3,204 | 2,195 |
| Conglomerate | 2,736 | - | 3,701 | 2,536 |
| Breccia | 3,786 | - | 5,122 | 3,510 |
| Limestone | 3,140 | - | 4,249 | 2,911 |
| Schist | 3,857 | - | 5,218 | 3,576 |
| Slate | 2,503 | - | 3,386 | 2,320 |
| Gneiss | 2,276 | - | 3,080 | 2,110 |
| | | | | 2,567 |
| | | | | 1,338 |
| | | | | 1,510 |
| | | | | 2,695 |
| | | | | 2,810 |
| | | | | 2,798 |
| | | | | 3,232 |
| | | | | 4,473 |
| | | | | 3,710 |
| | | | | 4,556 |
| | | | | 2,957 |
| | | | | 2,689 |

Penetration Rate (feet/hour)

| | 2.50 | 3.00 | 4.00 | |
|--------------|------|------|------|-------------------------------|
| Granite | 87 | - | 117 | Hole Diameter (inches) |
| Basalt | 50 | - | 68 | 37 |
| Gabbro | 56 | - | 75 | 41 |
| Shale | 90 | - | 122 | 66 |
| Sandstone | 93 | - | 126 | 68 |
| Siltstone | 93 | - | 126 | 92 |
| Conglomerate | 105 | - | 142 | 76 |
| Breccia | 137 | - | 186 | 100 |
| Limestone | 118 | - | 159 | 86 |
| Schist | 140 | - | 189 | 102 |
| Slate | 97 | - | 132 | 71 |
| Gneiss | 90 | - | 122 | 66 |
| | | | | 49 |
| | | | | 29 |
| | | | | 32 |
| | | | | 51 |
| | | | | 53 |
| | | | | 72 |
| | | | | 71 |
| | | | | 81 |
| | | | | 106 |
| | | | | 67 |
| | | | | 67 |
| | | | | 90 |
| | | | | 79 |
| | | | | 107 |
| | | | | 55 |
| | | | | 75 |
| | | | | 51 |
| | | | | 69 |

Bit Cost (\$/foot)

| | 2.50 | 3.00 | 4.00 | |
|--------------|---------|------|---------|-------------------------------|
| Granite | \$ 0.08 | - | \$ 0.06 | Hole Diameter (inches) |
| Basalt | \$0.18 | - | \$0.13 | \$0.26 |
| Gabbro | \$0.12 | - | \$0.09 | \$0.18 |
| Shale | \$ 0.09 | - | \$ 0.06 | \$ 0.12 |
| Sandstone | \$ 0.23 | - | \$ 0.17 | \$ 0.34 |
| Siltstone | \$ 0.03 | - | \$ 0.02 | \$ 0.05 |
| Conglomerate | \$ 0.42 | - | \$ 0.31 | \$ 0.61 |
| Breccia | \$ 0.06 | - | \$ 0.04 | \$ 0.08 |
| Limestone | \$ 0.07 | - | \$ 0.05 | \$ 0.10 |
| Schist | \$ 0.04 | - | \$ 0.03 | \$ 0.05 |
| Slate | \$ 0.07 | - | \$ 0.05 | \$ 0.10 |
| Gneiss | \$ 0.17 | - | \$ 0.12 | \$ 0.24 |
| | | | | \$ 0.21 |
| | | | | \$ 0.47 |
| | | | | \$ 0.32 |
| | | | | \$ 0.24 |
| | | | | \$ 0.17 |
| | | | | \$ 0.45 |
| | | | | \$ 0.08 |
| | | | | \$ 0.06 |
| | | | | \$ 0.81 |
| | | | | \$ 0.11 |
| | | | | \$ 0.13 |
| | | | | \$ 0.07 |
| | | | | \$ 0.14 |
| | | | | \$ 0.43 |
| | | | | \$ 0.32 |

Drill Steel Cost (\$/foot per rod)

| | 2.50 | 3.00 | 4.00 | |
|--------------|---------|------|---------|-------------------------------|
| Granite | \$0.129 | - | \$0.095 | Hole Diameter (inches) |
| Basalt | \$0.247 | - | \$0.183 | \$0.309 |
| Gabbro | \$0.219 | - | \$0.162 | \$0.273 |
| Shale | \$0.123 | - | \$0.091 | \$0.153 |
| Sandstone | \$0.118 | - | \$0.087 | \$0.147 |
| Siltstone | \$0.118 | - | \$0.087 | \$0.148 |
| Conglomerate | \$0.102 | - | \$0.076 | \$0.128 |
| Breccia | \$0.074 | - | \$0.055 | \$0.092 |
| Limestone | \$0.089 | - | \$0.066 | \$0.111 |
| Schist | \$0.073 | - | \$0.054 | \$0.091 |
| Slate | \$0.112 | - | \$0.083 | \$0.140 |
| Gneiss | \$0.123 | - | \$0.091 | \$0.154 |
| | | | | \$0.215 |
| | | | | \$0.412 |
| | | | | \$0.365 |
| | | | | \$0.270 |
| | | | | \$0.151 |
| | | | | \$0.196 |
| | | | | \$0.145 |
| | | | | \$0.197 |
| | | | | \$0.170 |
| | | | | \$0.126 |
| | | | | \$0.123 |
| | | | | \$0.110 |
| | | | | \$0.148 |
| | | | | \$0.089 |
| | | | | \$0.186 |
| | | | | \$0.138 |
| | | | | \$0.151 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

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DRILL MODEL - **Atlas Copco ECM590 - percussion**

Bit Life (feet/bit)

| | 2.50 | 3.50 | 4.50 | |
|--------------|-------------|-------------|-------------------------------------|-------|
| Granite | 1,168 | - | 1,580 Hole Diameter (inches) | 1,434 |
| Basalt | 523 | - | 708 | 475 |
| Gabbro | 778 | - | 1,052 | 706 |
| Shale | 1,107 | - | 1,498 | 1,005 |
| Sandstone | 406 | - | 550 | 369 |
| Siltstone | 2,931 | - | 3,966 | 2,660 |
| Conglomerate | 226 | - | 306 | 205 |
| Breccia | 1,692 | - | 2,289 | 1,535 |
| Limestone | 1,424 | - | 1,926 | 1,292 |
| Schist | 2,648 | - | 3,583 | 2,403 |
| Slate | 1,326 | - | 1,794 | 1,203 |
| Gneiss | 570 | - | 771 | 517 |
| | | | | 986 |
| | | | | 343 |
| | | | | 441 |
| | | | | 642 |
| | | | | 597 |
| | | | | 888 |
| | | | | 934 |
| | | | | 1,264 |
| | | | | 2,474 |
| | | | | 3,347 |
| | | | | 191 |
| | | | | 259 |
| | | | | 1,428 |
| | | | | 1,932 |
| | | | | 1,201 |
| | | | | 1,626 |
| | | | | 3,251 |
| | | | | 2,235 |
| | | | | 3,024 |
| | | | | 1,119 |
| | | | | 1,514 |
| | | | | 481 |
| | | | | 651 |

Bit Cost (\$/foot)

| | 2.50 | 3.50 | 4.50 | |
|--------------|-------------|-------------|--------------------------------------|--------|
| Granite | \$0.08 | - | \$0.06 Hole Diameter (inches) | \$0.11 |
| Basalt | \$0.19 | - | 708 | \$0.34 |
| Gabbro | \$0.13 | - | 475 | \$0.25 |
| Shale | \$0.09 | - | 550 | \$0.17 |
| Sandstone | \$0.24 | - | 369 | \$0.41 |
| Siltstone | \$0.03 | - | 499 | \$0.30 |
| Conglomerate | \$0.43 | - | 3599 | \$0.12 |
| Breccia | \$0.06 | - | 2,474 | \$0.29 |
| Limestone | \$0.07 | - | 3,347 | \$0.78 |
| Schist | \$0.04 | - | 1,911 | \$0.04 |
| Slate | \$0.07 | - | 1,514 | \$0.11 |
| Gneiss | \$0.17 | - | 651 | \$0.14 |
| | | | | \$0.20 |
| | | | | \$0.45 |
| | | | | \$0.21 |
| | | | | \$0.58 |
| | | | | \$0.08 |
| | | | | \$1.04 |
| | | | | \$0.14 |
| | | | | \$0.22 |
| | | | | \$0.16 |
| | | | | \$0.09 |
| | | | | \$0.24 |
| | | | | \$0.18 |
| | | | | \$0.56 |
| | | | | \$0.41 |

Drill Steel Life (feet/rod)

| | 2.50 | 3.50 | 4.50 | |
|--------------|-------------|-------------|-------------------------------------|-------|
| Granite | 2,110 | - | 2,855 Hole Diameter (inches) | 2,590 |
| Basalt | 1,100 | - | 1,488 | 998 |
| Gabbro | 1,241 | - | 1,679 | 1,126 |
| Shale | 2,215 | - | 2,997 | 2,010 |
| Sandstone | 2,310 | - | 3,125 | 2,096 |
| Siltstone | 2,300 | - | 3,111 | 2,087 |
| Conglomerate | 2,657 | - | 3,594 | 2,411 |
| Breccia | 3,676 | - | 4,974 | 3,336 |
| Limestone | 3,049 | - | 4,125 | 2,767 |
| Schist | 3,745 | - | 5,067 | 3,399 |
| Slate | 2,430 | - | 3,288 | 2,205 |
| Gneiss | 2,210 | - | 2,990 | 2,006 |
| | | | | 1,781 |
| | | | | 1,255 |
| | | | | 928 |
| | | | | 1,047 |
| | | | | 1,417 |
| | | | | 2,719 |
| | | | | 1,869 |
| | | | | 2,529 |
| | | | | 2,836 |
| | | | | 1,950 |
| | | | | 2,638 |
| | | | | 1,941 |
| | | | | 3,262 |
| | | | | 2,242 |
| | | | | 3,033 |
| | | | | 4,514 |
| | | | | 3,103 |
| | | | | 4,198 |
| | | | | 3,744 |
| | | | | 2,573 |
| | | | | 3,482 |
| | | | | 4,277 |
| | | | | 3,161 |
| | | | | 2,051 |
| | | | | 2,775 |
| | | | | 1,865 |
| | | | | 2,524 |

Drill Steel Cost (\$/foot per rod)

| | 2.50 | 3.50 | 4.50 | |
|--------------|-------------|-------------|--------------------------------------|---------|
| Granite | \$0.154 | - | \$0.11 Hole Diameter (inches) | \$0.157 |
| Basalt | \$0.295 | - | 2,855 | \$0.408 |
| Gabbro | \$0.261 | - | 1,488 | \$0.361 |
| Shale | \$0.146 | - | 1,679 | \$0.202 |
| Sandstone | \$0.140 | - | 3,125 | \$0.194 |
| Siltstone | \$0.141 | - | 3,111 | \$0.104 |
| Conglomerate | \$0.122 | - | 3,594 | \$0.090 |
| Breccia | \$0.088 | - | 4,974 | \$0.122 |
| Limestone | \$0.106 | - | 4,125 | \$0.079 |
| Schist | \$0.087 | - | 5,067 | \$0.120 |
| Slate | \$0.133 | - | 3,288 | \$0.099 |
| Gneiss | \$0.147 | - | 2,990 | \$0.108 |
| | | | | \$0.229 |
| | | | | \$0.324 |
| | | | | \$0.287 |
| | | | | \$0.161 |
| | | | | \$0.209 |
| | | | | \$0.154 |
| | | | | \$0.210 |
| | | | | \$0.155 |
| | | | | \$0.182 |
| | | | | \$0.134 |
| | | | | \$0.090 |
| | | | | \$0.131 |
| | | | | \$0.117 |
| | | | | \$0.158 |
| | | | | \$0.095 |
| | | | | \$0.147 |
| | | | | \$0.161 |

(Based pm 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|-----------------------|---------------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

DRILL MODEL - **Atlas Copco ECM720 - percussion**

Bit Life (feet/bit)

| | 4.00 | 4.50 | 5.00 | |
|--------------|-------|------|-------------------------------------|-------|
| Granite | 2,305 | - | 3,118 Hole Diameter (inches) | 3,014 |
| Basalt | 1,032 | - | 1,396 | 997 |
| Gabbro | 1,534 | - | 2,075 | 1,483 |
| Shale | 2,184 | - | 2,955 | 2,111 |
| Sandstone | 802 | - | 1,085 | 775 |
| Siltstone | 5,783 | - | 7,824 | 5,589 |
| Conglomerate | 447 | - | 604 | 432 |
| Breccia | 3,338 | - | 4,516 | 3,227 |
| Limestone | 2,809 | - | 3,800 | 2,715 |
| Schist | 5,225 | - | 7,069 | 5,050 |
| Slate | 2,617 | - | 3,540 | 2,529 |
| Gneiss | 1,125 | - | 1,522 | 1,087 |
| | | | | 1,471 |
| | | | | 1,055 |
| | | | | 1,427 |

Drill Steel Life (feet/rod)

| | 4.00 | 4.50 | 5.00 | |
|--------------|-------|------|-------------------------------------|-------|
| Granite | 4,163 | - | 5,632 Hole Diameter (inches) | 5,444 |
| Basalt | 2,169 | - | 2,935 | 2,097 |
| Gabbro | 2,448 | - | 3,313 | 2,367 |
| Shale | 4,370 | - | 5,912 | 4,224 |
| Sandstone | 4,557 | - | 6,166 | 4,405 |
| Siltstone | 4,537 | - | 6,138 | 4,385 |
| Conglomerate | 5,241 | - | 7,091 | 5,066 |
| Breccia | 7,253 | - | 9,813 | 7,011 |
| Limestone | 6,016 | - | 8,139 | 5,815 |
| Schist | 7,389 | - | 9,997 | 7,142 |
| Slate | 4,795 | - | 6,487 | 4,635 |
| Gneiss | 4,361 | - | 5,900 | 4,215 |
| | | | | 5,702 |
| | | | | 4,089 |
| | | | | 5,532 |

Penetration Rate (feet/hour)

| | 4.00 | 4.50 | 5.00 | |
|--------------|------|------|-----------------------------------|-----|
| Granite | 100 | - | 135 Hole Diameter (inches) | 117 |
| Basalt | 58 | - | 78 | 50 |
| Gabbro | 64 | - | 87 | 56 |
| Shale | 104 | - | 141 | 90 |
| Sandstone | 108 | - | 146 | 93 |
| Siltstone | 107 | - | 145 | 93 |
| Conglomerate | 121 | - | 163 | 105 |
| Breccia | 158 | - | 214 | 137 |
| Limestone | 136 | - | 183 | 118 |
| Schist | 161 | - | 218 | 140 |
| Slate | 112 | - | 152 | 97 |
| Gneiss | 104 | - | 140 | 90 |
| | | | | 122 |
| | | | | 79 |
| | | | | 104 |
| | | | | 123 |
| | | | | 86 |
| | | | | 79 |
| | | | | 107 |

Bit Cost (\$/foot)

| | 4.00 | 4.50 | 5.00 | |
|--------------|--------|------|--------------------------------------|--------|
| Granite | \$0.10 | - | \$0.07 Hole Diameter (inches) | \$0.09 |
| Basalt | \$0.22 | - | \$0.16 | \$0.27 |
| Gabbro | \$0.15 | - | \$0.11 | \$0.18 |
| Shale | \$0.10 | - | \$0.08 | \$0.13 |
| Sandstone | \$0.28 | - | \$0.21 | \$0.35 |
| Siltstone | \$0.04 | - | \$0.03 | \$0.05 |
| Conglomerate | \$0.50 | - | \$0.37 | \$0.62 |
| Breccia | \$0.07 | - | \$0.05 | \$0.08 |
| Limestone | \$0.08 | - | \$0.06 | \$0.10 |
| Schist | \$0.04 | - | \$0.03 | \$0.05 |
| Slate | \$0.09 | - | \$0.06 | \$0.11 |
| Gneiss | \$0.20 | - | \$0.15 | \$0.25 |
| | | | | \$0.18 |
| | | | | \$0.30 |
| | | | | \$0.22 |

Drill Steel Cost (\$/foot per rod)

| | 4.00 | 4.50 | 5.00 | |
|--------------|---------|------|--------------------------------------|---------|
| Granite | \$0.098 | - | \$0.07 Hole Diameter (inches) | \$0.104 |
| Basalt | \$0.188 | - | \$0.139 | \$0.271 |
| Gabbro | \$0.166 | - | \$0.123 | \$0.240 |
| Shale | \$0.093 | - | \$0.069 | \$0.134 |
| Sandstone | \$0.089 | - | \$0.066 | \$0.129 |
| Siltstone | \$0.090 | - | \$0.066 | \$0.130 |
| Conglomerate | \$0.078 | - | \$0.057 | \$0.112 |
| Breccia | \$0.056 | - | \$0.041 | \$0.081 |
| Limestone | \$0.068 | - | \$0.050 | \$0.098 |
| Schist | \$0.055 | - | \$0.041 | \$0.080 |
| Slate | \$0.085 | - | \$0.063 | \$0.123 |
| Gneiss | \$0.093 | - | \$0.069 | \$0.135 |
| | | | | \$0.100 |
| | | | | \$0.139 |
| | | | | \$0.103 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

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DRILL MODEL - **Atlas Copco DM25SP - DTH**

Bit Life (feet/bit)

| | 3.50 | 5.00 | 6.50 | |
|--------------|-------|------|-------|-------------------------------|
| Granite | 2,498 | - | 3,380 | Hole Diameter (inches) |
| Basalt | 1,118 | - | 1,513 | 1,009 |
| Gabbro | 1,663 | - | 2,250 | 1,500 |
| Shale | 2,367 | - | 3,203 | 2,136 |
| Sandstone | 869 | - | 1,176 | 784 |
| Siltstone | 6,268 | - | 8,481 | 5,655 |
| Conglomerate | 484 | - | 655 | 437 |
| Breccia | 3,618 | - | 4,896 | 3,265 |
| Limestone | 3,044 | - | 4,119 | 2,747 |
| Schist | 5,664 | - | 7,663 | 5,110 |
| Slate | 2,836 | - | 3,837 | 2,559 |
| Gneiss | 1,219 | - | 1,650 | 1,100 |
| | | | | 1,489 |
| | | | | 1,020 |
| | | | | 1,380 |

Drill Steel Life (feet/rod)

| | 3.50 | 5.00 | 6.50 | |
|--------------|--------|------|--------|-------------------------------|
| Granite | 28,996 | - | 39,229 | Hole Diameter (inches) |
| Basalt | 16,978 | - | 22,970 | 15,317 |
| Gabbro | 18,752 | - | 25,371 | 16,918 |
| Shale | 30,177 | - | 40,827 | 27,225 |
| Sandstone | 31,235 | - | 42,259 | 28,180 |
| Siltstone | 31,120 | - | 42,103 | 28,076 |
| Conglomerate | 35,035 | - | 47,400 | 31,608 |
| Breccia | 45,750 | - | 61,896 | 41,275 |
| Limestone | 39,235 | - | 53,082 | 35,397 |
| Schist | 46,452 | - | 62,847 | 41,908 |
| Slate | 32,566 | - | 44,060 | 29,381 |
| Gneiss | 30,123 | - | 40,755 | 27,177 |
| | | | | 36,768 |
| | | | | 25,195 |
| | | | | 34,087 |

Penetration Rate (feet/hour)

| | 3.50 | 5.00 | 6.50 | |
|--------------|------|------|------|-------------------------------|
| Granite | 129 | - | 175 | Hole Diameter (inches) |
| Basalt | 75 | - | 102 | 49 |
| Gabbro | 83 | - | 113 | 54 |
| Shale | 135 | - | 182 | 88 |
| Sandstone | 140 | - | 189 | 91 |
| Siltstone | 139 | - | 188 | 90 |
| Conglomerate | 157 | - | 212 | 102 |
| Breccia | 205 | - | 278 | 134 |
| Limestone | 176 | - | 238 | 114 |
| Schist | 209 | - | 282 | 136 |
| Slate | 146 | - | 197 | 95 |
| Gneiss | 134 | - | 182 | 88 |
| | | | | 118 |
| | | | | 64 |
| | | | | 86 |

Bit Cost (\$/foot)

| | 3.50 | 5.00 | 6.50 | |
|--------------|--------|------|--------|-------------------------------|
| Granite | \$0.16 | - | \$0.12 | Hole Diameter (inches) |
| Basalt | \$0.37 | - | \$0.27 | 5.05 |
| Gabbro | \$0.25 | - | \$0.18 | 3.97 |
| Shale | \$0.17 | - | \$0.13 | 2.67 |
| Sandstone | \$0.47 | - | \$0.35 | 7.65 |
| Siltstone | \$0.07 | - | \$0.05 | 5.24 |
| Conglomerate | \$0.85 | - | \$0.63 | 1.26 |
| Breccia | \$0.11 | - | \$0.08 | 0.41 |
| Limestone | \$0.13 | - | \$0.10 | 2.54 |
| Schist | \$0.07 | - | \$0.05 | 3.44 |
| Slate | \$0.14 | - | \$0.11 | 3.20 |
| Gneiss | \$0.34 | - | \$0.25 | 1.38 |

Drill Steel Cost (\$/foot per rod)

| | 3.50 | 5.00 | 6.50 | |
|--------------|---------|------|---------|-------------------------------|
| Granite | \$0.016 | - | \$0.012 | Hole Diameter (inches) |
| Basalt | \$0.028 | - | \$0.020 | 5.05 |
| Gabbro | \$0.025 | - | \$0.018 | 3.97 |
| Shale | \$0.016 | - | \$0.011 | 2.67 |
| Sandstone | \$0.015 | - | \$0.011 | 7.65 |
| Siltstone | \$0.015 | - | \$0.011 | 5.24 |
| Conglomerate | \$0.013 | - | \$0.010 | 1.26 |
| Breccia | \$0.010 | - | \$0.008 | 0.41 |
| Limestone | \$0.012 | - | \$0.009 | 2.54 |
| Schist | \$0.010 | - | \$0.007 | 3.44 |
| Slate | \$0.014 | - | \$0.011 | 3.20 |
| Gneiss | \$0.016 | - | \$0.011 | 1.38 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

DRILL MODEL - **Atlas Copco DM30 -DTH**

Bit Life (feet/bit)

| | 5.50 | 6.00 | 6.50 | | | | | | |
|--------------|-------|------|-------|---|-------|-------|-------|---|-------|
| Granite | 1,946 | - | 2,633 | Hole Dia 6000 (inches) 2,568 | 1,855 | - | 2,509 | | |
| Basalt | 871 | - | 1,179 | 850 | - | 1,150 | 830 | - | 1,124 |
| Gabbro | 1,296 | - | 1,753 | 1,263 | - | 1,709 | 1,235 | - | 1,670 |
| Shale | 1,845 | - | 2,496 | 1,799 | - | 2,434 | 1,758 | - | 2,378 |
| Sandstone | 677 | - | 916 | 660 | - | 893 | 645 | - | 873 |
| Siltstone | 4,884 | - | 6,608 | 4,763 | - | 6,444 | 4,654 | - | 6,297 |
| Conglomerate | 377 | - | 510 | 368 | - | 498 | 360 | - | 486 |
| Breccia | 2,819 | - | 3,814 | 2,749 | - | 3,720 | 2,687 | - | 3,635 |
| Limestone | 2,372 | - | 3,209 | 2,313 | - | 3,130 | 2,260 | - | 3,058 |
| Schist | 4,413 | - | 5,970 | 4,303 | - | 5,822 | 4,205 | - | 5,689 |
| Slate | 2,210 | - | 2,990 | 2,155 | - | 2,916 | 2,106 | - | 2,849 |
| Gneiss | 950 | - | 1,285 | 927 | - | 1,254 | 905 | - | 1,225 |

Drill Steel Life (feet/rod)

| | 5.50 | 6.00 | 6.50 | | | | | | |
|--------------|--------|------|--------|--|--------|--------|--------|---|--------|
| Granite | 26,110 | - | 35,320 | Hole Dia 6000 (inches) 34,450 | 24,881 | - | 33,663 | | |
| Basalt | 15,288 | - | 20,684 | 14,909 | - | 20,171 | 14,569 | - | 19,711 |
| Gabbro | 16,886 | - | 22,846 | 16,468 | - | 22,280 | 16,092 | - | 21,771 |
| Shale | 27,174 | - | 36,765 | 26,500 | - | 35,853 | 25,895 | - | 35,034 |
| Sandstone | 28,127 | - | 38,054 | 27,429 | - | 37,110 | 26,803 | - | 36,263 |
| Siltstone | 28,023 | - | 37,914 | 27,328 | - | 36,974 | 26,704 | - | 36,129 |
| Conglomerate | 31,549 | - | 42,684 | 30,766 | - | 41,625 | 30,064 | - | 40,675 |
| Breccia | 41,197 | - | 55,738 | 40,176 | - | 54,355 | 39,258 | - | 53,114 |
| Limestone | 35,331 | - | 47,800 | 34,455 | - | 46,615 | 33,668 | - | 45,551 |
| Schist | 41,830 | - | 56,593 | 40,792 | - | 55,190 | 39,861 | - | 53,929 |
| Slate | 29,326 | - | 39,676 | 28,599 | - | 38,692 | 27,945 | - | 37,809 |
| Gneiss | 27,126 | - | 36,700 | 26,453 | - | 35,790 | 25,849 | - | 34,972 |

Penetration Rate (feet/hour)

| | 5.50 | 6.00 | 6.50 | | | | | | |
|--------------|------|------|------|---|----|-----|-----|---|-----|
| Granite | 81 | - | 110 | Hole Diameter 6000 (inches) 99 | 67 | - | 90 | | |
| Basalt | 47 | - | 64 | 43 | - | 58 | 39 | - | 52 |
| Gabbro | 52 | - | 71 | 47 | - | 64 | 43 | - | 58 |
| Shale | 85 | - | 115 | 76 | - | 103 | 69 | - | 94 |
| Sandstone | 88 | - | 119 | 79 | - | 107 | 72 | - | 97 |
| Siltstone | 87 | - | 118 | 79 | - | 107 | 72 | - | 97 |
| Conglomerate | 99 | - | 133 | 89 | - | 120 | 81 | - | 109 |
| Breccia | 129 | - | 175 | 116 | - | 158 | 106 | - | 143 |
| Limestone | 111 | - | 150 | 100 | - | 135 | 91 | - | 122 |
| Schist | 131 | - | 178 | 118 | - | 160 | 107 | - | 145 |
| Slate | 92 | - | 124 | 83 | - | 112 | 75 | - | 101 |
| Gneiss | 85 | - | 115 | 76 | - | 103 | 69 | - | 94 |

Bit Cost (\$/foot)

| | 5.50 | 6.00 | 6.50 | | | | | | |
|--------------|--------|------|--------|--|--------|--------|--------|---|--------|
| Granite | \$0.30 | - | \$0.22 | Hole Dia 6000 (inches) \$0.25 | \$0.35 | - | \$0.26 | | |
| Basalt | \$0.66 | - | \$0.49 | \$0.74 | - | \$0.55 | \$0.77 | - | \$0.57 |
| Gabbro | \$0.44 | - | \$0.33 | \$0.50 | - | \$0.37 | \$0.52 | - | \$0.38 |
| Shale | \$0.31 | - | \$0.23 | \$0.35 | - | \$0.26 | \$0.36 | - | \$0.27 |
| Sandstone | \$0.85 | - | \$0.63 | \$0.95 | - | \$0.71 | \$0.99 | - | \$0.73 |
| Siltstone | \$0.12 | - | \$0.09 | \$0.13 | - | \$0.10 | \$0.14 | - | \$0.10 |
| Conglomerate | \$1.52 | - | \$1.13 | \$1.71 | - | \$1.27 | \$1.78 | - | \$1.32 |
| Breccia | \$0.20 | - | \$0.15 | \$0.23 | - | \$0.17 | \$0.24 | - | \$0.18 |
| Limestone | \$0.24 | - | \$0.18 | \$0.27 | - | \$0.20 | \$0.28 | - | \$0.21 |
| Schist | \$0.13 | - | \$0.10 | \$0.15 | - | \$0.11 | \$0.15 | - | \$0.11 |
| Slate | \$0.26 | - | \$0.19 | \$0.29 | - | \$0.22 | \$0.30 | - | \$0.22 |
| Gneiss | \$0.61 | - | \$0.45 | \$0.68 | - | \$0.50 | \$0.71 | - | \$0.52 |

Drill Steel Cost (\$/foot per rod)

| | 5.50 | 6.00 | 6.50 | | | | | | |
|--------------|---------|------|---------|---|---------|---------|---------|---|---------|
| Granite | \$0.020 | - | \$0.019 | Hole Dia 6000 (inches) \$0.017 | \$0.029 | - | \$0.021 | | |
| Basalt | \$0.034 | - | \$0.025 | \$0.040 | - | \$0.030 | \$0.050 | - | \$0.037 |
| Gabbro | \$0.031 | - | \$0.023 | \$0.036 | - | \$0.027 | \$0.045 | - | \$0.033 |
| Shale | \$0.019 | - | \$0.014 | \$0.023 | - | \$0.017 | \$0.028 | - | \$0.021 |
| Sandstone | \$0.019 | - | \$0.014 | \$0.022 | - | \$0.016 | \$0.027 | - | \$0.020 |
| Siltstone | \$0.019 | - | \$0.014 | \$0.022 | - | \$0.016 | \$0.027 | - | \$0.020 |
| Conglomerate | \$0.017 | - | \$0.012 | \$0.019 | - | \$0.014 | \$0.024 | - | \$0.018 |
| Breccia | \$0.013 | - | \$0.009 | \$0.015 | - | \$0.011 | \$0.018 | - | \$0.014 |
| Limestone | \$0.015 | - | \$0.011 | \$0.017 | - | \$0.013 | \$0.021 | - | \$0.016 |
| Schist | \$0.013 | - | \$0.009 | \$0.015 | - | \$0.011 | \$0.018 | - | \$0.013 |
| Slate | \$0.018 | - | \$0.013 | \$0.021 | - | \$0.015 | \$0.026 | - | \$0.019 |
| Gneiss | \$0.019 | - | \$0.014 | \$0.023 | - | \$0.017 | \$0.028 | - | \$0.021 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

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DRILL MODEL - **Atlas Copco DM45 -DTH**

Bit Life (feet/bit)

| | 5.00 | 6.50 | 8.00 | |
|--------------|-------|------|-------|-------------------------------|
| Granite | 2,580 | - | 3,490 | Hole Diameter (inches) |
| Basalt | 1,155 | - | 1,563 | 1,071 |
| Gabbro | 1,717 | - | 2,323 | 1,592 |
| Shale | 2,445 | - | 3,308 | 2,267 |
| Sandstone | 897 | - | 1,214 | 832 |
| Siltstone | 6,473 | - | 8,758 | 6,001 |
| Conglomerate | 500 | - | 677 | 464 |
| Breccia | 3,737 | - | 5,056 | 3,464 |
| Limestone | 3,144 | - | 4,254 | 2,915 |
| Schist | 5,849 | - | 7,913 | 5,422 |
| Slate | 2,929 | - | 3,963 | 2,715 |
| Gneiss | 1,259 | - | 1,704 | 1,168 |
| | | | | 3,236 |
| | | | | 2,253 |
| | | | | - |
| | | | | 3,048 |
| | | | | 1,449 |
| | | | | 1,009 |
| | | | | - |
| | | | | 1,364 |
| | | | | 2,154 |
| | | | | 1,499 |
| | | | | - |
| | | | | 2,029 |
| | | | | 784 |
| | | | | - |
| | | | | 1,060 |
| | | | | 5,652 |
| | | | | - |
| | | | | 7,647 |
| | | | | 437 |
| | | | | - |
| | | | | 591 |
| | | | | 3,944 |
| | | | | - |
| | | | | 2,745 |
| | | | | - |
| | | | | 3,714 |
| | | | | 5,107 |
| | | | | - |
| | | | | 6,910 |
| | | | | 3,674 |
| | | | | - |
| | | | | 2,557 |
| | | | | - |
| | | | | 3,460 |
| | | | | 1,100 |
| | | | | - |
| | | | | 1,488 |

Bit Cost (\$/foot)

| | 5.00 | 6.50 | 8.00 | |
|--------------|--------|------|--------|-------------------------------|
| Granite | \$0.21 | - | \$0.16 | Hole Diameter (inches) |
| Basalt | \$0.48 | - | \$0.35 | 0.60 |
| Gabbro | \$0.32 | - | \$0.24 | 0.40 |
| Shale | \$0.22 | - | \$0.17 | 0.28 |
| Sandstone | \$0.61 | - | \$0.45 | 0.77 |
| Siltstone | \$0.08 | - | \$0.06 | 0.11 |
| Conglomerate | \$1.10 | - | \$0.81 | 1.38 |
| Breccia | \$0.15 | - | \$0.11 | 0.18 |
| Limestone | \$0.17 | - | \$0.13 | 0.22 |
| Schist | \$0.09 | - | \$0.07 | 0.12 |
| Slate | \$0.19 | - | \$0.14 | 0.24 |
| Gneiss | \$0.44 | - | \$0.32 | 0.55 |
| | | | | \$0.20 |
| | | | | \$0.55 |
| | | | | - |
| | | | | \$0.40 |
| | | | | \$1.22 |
| | | | | - |
| | | | | \$0.90 |
| | | | | \$0.82 |
| | | | | - |
| | | | | \$0.61 |
| | | | | \$0.58 |
| | | | | - |
| | | | | \$0.43 |
| | | | | \$1.57 |
| | | | | - |
| | | | | \$1.16 |
| | | | | \$0.22 |
| | | | | - |
| | | | | \$0.16 |
| | | | | \$2.82 |
| | | | | - |
| | | | | \$2.08 |
| | | | | \$0.38 |
| | | | | - |
| | | | | \$0.28 |
| | | | | \$0.45 |
| | | | | - |
| | | | | \$0.33 |
| | | | | \$0.24 |
| | | | | - |
| | | | | \$0.18 |
| | | | | \$0.48 |
| | | | | - |
| | | | | \$0.36 |
| | | | | \$1.12 |
| | | | | - |
| | | | | \$0.83 |

Drill Steel Life (feet/rod)

| | 5.00 | 6.50 | 8.00 | |
|--------------|--------|------|--------|-------------------------------|
| Granite | 28,482 | - | 38,534 | Hole Diameter (inches) |
| Basalt | 16,677 | - | 22,563 | 15,461 |
| Gabbro | 18,420 | - | 24,921 | 17,077 |
| Shale | 29,642 | - | 40,104 | 27,480 |
| Sandstone | 30,681 | - | 41,510 | 28,444 |
| Siltstone | 30,568 | - | 41,357 | 28,339 |
| Conglomerate | 34,414 | - | 46,560 | 31,904 |
| Breccia | 44,939 | - | 60,799 | 41,662 |
| Limestone | 38,539 | - | 52,141 | 35,729 |
| Schist | 45,628 | - | 61,733 | 42,301 |
| Slate | 31,989 | - | 43,279 | 29,656 |
| Gneiss | 29,589 | - | 40,032 | 27,432 |
| | | | | 35,724 |
| | | | | 24,869 |
| | | | | - |
| | | | | 33,646 |
| | | | | 14,561 |
| | | | | - |
| | | | | 19,701 |
| | | | | 23,104 |
| | | | | - |
| | | | | 21,760 |
| | | | | 37,179 |
| | | | | - |
| | | | | 25,882 |
| | | | | - |
| | | | | 35,017 |
| | | | | 38,483 |
| | | | | - |
| | | | | 26,789 |
| | | | | - |
| | | | | 36,245 |
| | | | | 26,691 |
| | | | | - |
| | | | | 43,165 |
| | | | | - |
| | | | | 30,049 |
| | | | | - |
| | | | | 40,654 |
| | | | | 56,366 |
| | | | | - |
| | | | | 39,238 |
| | | | | - |
| | | | | 53,087 |
| | | | | 48,339 |
| | | | | - |
| | | | | 33,651 |
| | | | | - |
| | | | | 45,527 |
| | | | | 57,231 |
| | | | | - |
| | | | | 39,841 |
| | | | | - |
| | | | | 53,902 |
| | | | | 40,123 |
| | | | | - |
| | | | | 27,931 |
| | | | | - |
| | | | | 37,789 |
| | | | | 37,113 |
| | | | | - |
| | | | | 25,836 |
| | | | | - |
| | | | | 34,955 |

Drill Steel Cost (\$/foot per rod)

| | 5.00 | 6.50 | 8.00 | |
|--------------|---------|------|---------|-------------------------------|
| Granite | \$0.021 | - | \$0.016 | Hole Diameter (inches) |
| Basalt | \$0.036 | - | \$0.027 | 0.047 |
| Gabbro | \$0.033 | - | \$0.024 | 0.042 |
| Shale | \$0.020 | - | \$0.015 | 0.026 |
| Sandstone | \$0.020 | - | \$0.014 | 0.025 |
| Siltstone | \$0.020 | - | \$0.014 | 0.025 |
| Conglomerate | \$0.017 | - | \$0.013 | 0.023 |
| Breccia | \$0.013 | - | \$0.010 | 0.017 |
| Limestone | \$0.016 | - | \$0.011 | 0.020 |
| Schist | \$0.013 | - | \$0.010 | 0.017 |
| Slate | \$0.019 | - | \$0.014 | 0.024 |
| Gneiss | \$0.020 | - | \$0.015 | 0.026 |
| | | | | \$0.020 |
| | | | | \$0.029 |
| | | | | - |
| | | | | \$0.021 |
| | | | | \$0.035 |
| | | | | - |
| | | | | \$0.045 |
| | | | | - |
| | | | | \$0.033 |
| | | | | \$0.028 |
| | | | | - |
| | | | | \$0.021 |
| | | | | \$0.027 |
| | | | | - |
| | | | | \$0.020 |
| | | | | \$0.019 |
| | | | | - |
| | | | | \$0.024 |
| | | | | - |
| | | | | \$0.018 |
| | | | | - |
| | | | | \$0.016 |
| | | | | - |
| | | | | \$0.013 |
| | | | | - |
| | | | | \$0.018 |
| | | | | - |
| | | | | \$0.026 |
| | | | | - |
| | | | | \$0.019 |
| | | | | - |
| | | | | \$0.028 |
| | | | | - |
| | | | | \$0.021 |

(Based on 12 foot drilling rod length.)

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

DRILL MODEL - **Atlas Copco DM M2 -DTH**

Bit Life (feet/bit)

| | 8.88 | 10.00 | 11.875 | |
|--------------|-------|-------|--------|-------------------------------|
| Granite | 1,779 | - | 2,407 | Hole Diameter (inches) |
| Basalt | 796 | - | 1,078 | 770 |
| Gabbro | 1,184 | - | 1,602 | 1,144 |
| Shale | 1,686 | - | 2,281 | 1,629 |
| Sandstone | 619 | - | 837 | 598 |
| Siltstone | 4,464 | - | 6,039 | 4,313 |
| Conglomerate | 345 | - | 467 | 333 |
| Breccia | 2,577 | - | 3,486 | 2,490 |
| Limestone | 2,168 | - | 2,933 | 2,095 |
| Schist | 4,033 | - | 5,457 | 3,897 |
| Slate | 2,020 | - | 2,733 | 1,951 |
| Gneiss | 868 | - | 1,175 | 839 |
| | | | | 2,325 |
| | | | | 1,636 |
| | | | | - |
| | | | | 2,213 |
| | | | | 901 |
| | | | | 1,473 |
| | | | | 2,097 |
| | | | | 569 |
| | | | | 770 |
| | | | | 5,553 |
| | | | | 4104 |
| | | | | 317 |
| | | | | 429 |
| | | | | 3,205 |
| | | | | 2,834 |
| | | | | 1,993 |
| | | | | 2,697 |
| | | | | 5,017 |
| | | | | 2,640 |
| | | | | 1,857 |
| | | | | 2,512 |
| | | | | 798 |
| | | | | 1,080 |

Bit Cost (\$/foot)

| | 8.88 | 10.00 | 11.875 | |
|--------------|--------|-------|--------|-------------------------------|
| Granite | \$0.78 | - | \$0.58 | Hole Diameter (inches) |
| Basalt | \$1.74 | - | \$1.29 | 2.47 |
| Gabbro | \$1.17 | - | \$0.86 | 1.66 |
| Shale | \$0.82 | - | \$0.61 | 1.17 |
| Sandstone | \$2.24 | - | \$1.65 | 3.18 |
| Siltstone | \$0.31 | - | \$0.23 | 0.44 |
| Conglomerate | \$4.02 | - | \$2.97 | 5.70 |
| Breccia | \$0.54 | - | \$0.40 | 0.76 |
| Limestone | \$0.64 | - | \$0.47 | 0.91 |
| Schist | \$0.34 | - | \$0.25 | 0.49 |
| Slate | \$0.69 | - | \$0.51 | 0.97 |
| Gneiss | \$1.59 | - | \$1.18 | 2.26 |
| | | | | \$0.82 |
| | | | | \$2.75 |
| | | | | -\$ |
| | | | | \$2,03 |
| | | | | -\$ |
| | | | | \$4.54 |
| | | | | -\$ |
| | | | | \$3.06 |
| | | | | -\$ |
| | | | | \$2.15 |
| | | | | -\$ |
| | | | | \$5.85 |
| | | | | -\$ |
| | | | | \$1.10 |
| | | | | -\$ |
| | | | | \$0.81 |
| | | | | -\$ |
| | | | | \$1.40 |
| | | | | -\$ |
| | | | | \$1.67 |
| | | | | -\$ |
| | | | | \$0.90 |
| | | | | -\$ |
| | | | | \$1.79 |
| | | | | -\$ |
| | | | | \$4.17 |

Drill Steel Life (feet/rod)

| | 8.88 | 10.00 | 11.875 | |
|--------------|--------|-------|--------|-------------------------------|
| Granite | 25,947 | - | 35,103 | Hole Diameter (inches) |
| Basalt | 15,193 | - | 20,555 | 14,679 |
| Gabbro | 16,781 | - | 22,704 | 16,213 |
| Shale | 27,004 | - | 36,535 | 26,090 |
| Sandstone | 27,951 | - | 37,817 | 27,005 |
| Siltstone | 27,848 | - | 37,677 | 26,905 |
| Conglomerate | 31,352 | - | 42,417 | 30,290 |
| Breccia | 40,940 | - | 55,390 | 39,554 |
| Limestone | 35,110 | - | 47,502 | 33,921 |
| Schist | 41,569 | - | 56,240 | 40,161 |
| Slate | 29,143 | - | 39,428 | 28,156 |
| Gneiss | 26,957 | - | 36,471 | 26,044 |
| | | | | 33,917 |
| | | | | 23,856 |
| | | | | - |
| | | | | 32,276 |
| | | | | 18,898 |
| | | | | 20,874 |
| | | | | 33,590 |
| | | | | 34,768 |
| | | | | 34,640 |
| | | | | 38,998 |
| | | | | 50,925 |
| | | | | 43,673 |
| | | | | 51,707 |
| | | | | 36,250 |
| | | | | 33,531 |

Drill Steel Cost (\$/foot per rod)

| | 8.88 | 10.00 | 11.875 | |
|--------------|---------|-------|---------|-------------------------------|
| Granite | \$0.038 | - | \$0.028 | Hole Diameter (inches) |
| Basalt | \$0.065 | - | \$0.048 | 0.068 |
| Gabbro | \$0.059 | - | \$0.044 | 0.061 |
| Shale | \$0.037 | - | \$0.027 | 0.038 |
| Sandstone | \$0.036 | - | \$0.026 | 0.037 |
| Siltstone | \$0.036 | - | \$0.026 | 0.037 |
| Conglomerate | \$0.032 | - | \$0.023 | 0.033 |
| Breccia | \$0.024 | - | \$0.018 | 0.025 |
| Limestone | \$0.028 | - | \$0.021 | 0.029 |
| Schist | \$0.024 | - | \$0.018 | 0.025 |
| Slate | \$0.034 | - | \$0.025 | 0.035 |
| Gneiss | \$0.037 | - | \$0.027 | 0.038 |
| | | | | \$0.029 |
| | | | | \$0.042 |
| | | | | -\$ |
| | | | | \$0.031 |
| | | | | -\$ |
| | | | | \$0.053 |
| | | | | -\$ |
| | | | | \$0.048 |
| | | | | -\$ |
| | | | | \$0.030 |
| | | | | -\$ |
| | | | | \$0.029 |
| | | | | -\$ |
| | | | | \$0.039 |
| | | | | -\$ |
| | | | | \$0.029 |
| | | | | -\$ |
| | | | | \$0.035 |
| | | | | -\$ |
| | | | | \$0.026 |
| | | | | -\$ |
| | | | | \$0.023 |
| | | | | -\$ |
| | | | | \$0.031 |
| | | | | -\$ |
| | | | | \$0.019 |
| | | | | -\$ |
| | | | | \$0.026 |
| | | | | -\$ |
| | | | | \$0.027 |
| | | | | -\$ |
| | | | | \$0.040 |
| | | | | -\$ |

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

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DRILL MODEL - **Atlas Copco DM25SP - Rotary**

Bit Life (feet/bit)

| | 3.88 | 5.00 | 6.25 | | | | | | |
|--------------|-------|------|-------|-------------------------------|-------|-------|-------|-------|-------|
| Granite | 3,585 | - | 4,851 | Hole Diameter (inches) | 4,552 | 3,182 | - | 4,305 | |
| Basalt | 1,878 | - | 2,541 | 1,762 | - | 2,384 | 1,667 | - | 2,255 |
| Gabbro | 2,118 | - | 2,865 | 1,987 | - | 2,689 | 1,880 | - | 2,543 |
| Shale | 3,762 | - | 5,090 | 3,531 | - | 4,777 | 3,339 | - | 4,518 |
| Sandstone | 3,922 | - | 5,307 | 3,681 | - | 4,980 | 3,481 | - | 4,710 |
| Siltstone | 3,905 | - | 5,283 | 3,664 | - | 4,957 | 3,466 | - | 4,689 |
| Conglomerate | 4,506 | - | 6,096 | 4,228 | - | 5,720 | 3,999 | - | 5,411 |
| Breccia | 6,220 | - | 8,415 | 5,836 | - | 7,896 | 5,520 | - | 7,468 |
| Limestone | 5,166 | - | 6,990 | 4,848 | - | 6,559 | 4,585 | - | 6,203 |
| Schist | 6,335 | - | 8,571 | 5,945 | - | 8,043 | 5,623 | - | 7,607 |
| Slate | 4,125 | - | 5,581 | 3,871 | - | 5,237 | 3,661 | - | 4,953 |
| Gneiss | 3,754 | - | 5,079 | 3,523 | - | 4,766 | 3,332 | - | 4,508 |

Drill Steel Life (feet/rod)

| | 3.88 | 5.00 | 6.25 | | | | | | |
|--------------|--------|------|--------|-------------------------------|--------|--------|--------|--------|--------|
| Granite | 44,519 | - | 60,231 | Hole Diameter (inches) | 56,519 | 39,512 | - | 53,457 | |
| Basalt | 26,067 | - | 35,267 | 24,460 | - | 33,093 | 23,135 | - | 31,301 |
| Gabbro | 28,792 | - | 38,954 | 27,017 | - | 36,552 | 25,553 | - | 34,572 |
| Shale | 46,333 | - | 62,685 | 43,477 | - | 58,821 | 41,121 | - | 55,635 |
| Sandstone | 47,957 | - | 64,883 | 45,001 | - | 60,884 | 42,563 | - | 57,586 |
| Siltstone | 47,780 | - | 64,644 | 44,835 | - | 60,659 | 42,406 | - | 57,373 |
| Conglomerate | 53,792 | - | 72,777 | 50,476 | - | 68,291 | 47,741 | - | 64,591 |
| Breccia | 70,243 | - | 95,034 | 65,913 | - | 89,176 | 62,342 | - | 84,345 |
| Limestone | 60,240 | - | 81,501 | 56,527 | - | 76,478 | 53,465 | - | 72,334 |
| Schist | 71,321 | - | 96,493 | 66,925 | - | 90,545 | 63,299 | - | 85,640 |
| Slate | 50,001 | - | 67,649 | 46,919 | - | 63,479 | 44,377 | - | 60,040 |
| Gneiss | 46,250 | - | 62,574 | 43,400 | - | 58,717 | 41,048 | - | 55,536 |

Penetration Rate (feet/hour)

| | 3.88 | 5.00 | 6.25 | | | | | | |
|--------------|------|------|------|-------------------------------|----|----|----|----|----|
| Granite | 57 | - | 77 | Hole Diameter (inches) | 46 | 22 | - | 29 | |
| Basalt | 33 | - | 45 | 20 | - | 27 | 13 | - | 17 |
| Gabbro | 37 | - | 50 | 22 | - | 30 | 14 | - | 19 |
| Shale | 60 | - | 81 | 36 | - | 48 | 23 | - | 31 |
| Sandstone | 62 | - | 83 | 37 | - | 50 | 23 | - | 32 |
| Siltstone | 61 | - | 83 | 37 | - | 50 | 23 | - | 32 |
| Conglomerate | 69 | - | 94 | 41 | - | 56 | 26 | - | 36 |
| Breccia | 91 | - | 123 | 54 | - | 73 | 34 | - | 47 |
| Limestone | 78 | - | 105 | 46 | - | 63 | 29 | - | 40 |
| Schist | 92 | - | 125 | 55 | - | 74 | 35 | - | 47 |
| Slate | 64 | - | 87 | 38 | - | 52 | 24 | - | 33 |
| Gneiss | 59 | - | 80 | 35 | - | 48 | 23 | - | 31 |

Bit Cost (\$/foot)

| | 3.88 | 5.00 | 6.25 | | | | | | |
|--------------|--------|------|--------|-------------------------------|--------|--------|--------|--------|--------|
| Granite | \$0.32 | - | \$0.24 | Hole Diameter (inches) | \$0.36 | \$0.69 | - | \$0.51 | |
| Basalt | \$0.61 | - | \$0.45 | \$0.92 | - | \$0.68 | \$1.32 | - | \$0.98 |
| Gabbro | \$0.54 | - | \$0.40 | \$0.82 | - | \$0.61 | \$1.17 | - | \$0.87 |
| Shale | \$0.31 | - | \$0.23 | \$0.46 | - | \$0.34 | \$0.66 | - | \$0.49 |
| Sandstone | \$0.29 | - | \$0.22 | \$0.44 | - | \$0.33 | \$0.63 | - | \$0.47 |
| Siltstone | \$0.29 | - | \$0.22 | \$0.44 | - | \$0.33 | \$0.64 | - | \$0.47 |
| Conglomerate | \$0.26 | - | \$0.19 | \$0.39 | - | \$0.28 | \$0.55 | - | \$0.41 |
| Breccia | \$0.18 | - | \$0.14 | \$0.28 | - | \$0.21 | \$0.40 | - | \$0.30 |
| Limestone | \$0.22 | - | \$0.16 | \$0.34 | - | \$0.25 | \$0.48 | - | \$0.36 |
| Schist | \$0.18 | - | \$0.13 | \$0.27 | - | \$0.20 | \$0.39 | - | \$0.29 |
| Slate | \$0.28 | - | \$0.21 | \$0.42 | - | \$0.31 | \$0.60 | - | \$0.45 |
| Gneiss | \$0.31 | - | \$0.23 | \$0.46 | - | \$0.34 | \$0.66 | - | \$0.49 |

Drill Steel Cost (\$/foot per rod)

| | 3.88 | 5.00 | 6.25 | | | | | | |
|--------------|---------|------|---------|-------------------------------|---------|---------|---------|---------|---------|
| Granite | \$0.012 | - | \$0.009 | Hole Diameter (inches) | \$0.028 | \$0.047 | - | \$0.035 | |
| Basalt | \$0.020 | - | \$0.015 | \$0.065 | - | \$0.048 | \$0.081 | - | \$0.060 |
| Gabbro | \$0.018 | - | \$0.014 | \$0.059 | - | \$0.043 | \$0.073 | - | \$0.054 |
| Shale | \$0.011 | - | \$0.008 | \$0.036 | - | \$0.027 | \$0.046 | - | \$0.034 |
| Sandstone | \$0.011 | - | \$0.008 | \$0.035 | - | \$0.026 | \$0.044 | - | \$0.033 |
| Siltstone | \$0.011 | - | \$0.008 | \$0.035 | - | \$0.026 | \$0.044 | - | \$0.033 |
| Conglomerate | \$0.010 | - | \$0.007 | \$0.031 | - | \$0.023 | \$0.039 | - | \$0.029 |
| Breccia | \$0.007 | - | \$0.006 | \$0.024 | - | \$0.018 | \$0.030 | - | \$0.022 |
| Limestone | \$0.009 | - | \$0.006 | \$0.028 | - | \$0.021 | \$0.035 | - | \$0.026 |
| Schist | \$0.007 | - | \$0.005 | \$0.024 | - | \$0.017 | \$0.030 | - | \$0.022 |
| Slate | \$0.011 | - | \$0.008 | \$0.034 | - | \$0.025 | \$0.042 | - | \$0.031 |
| Gneiss | \$0.011 | - | \$0.008 | \$0.036 | - | \$0.027 | \$0.046 | - | \$0.034 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

DRILL MODEL - Atlas Copco DM30 -Rotary

Bit Life (feet/bit)

| | 5.50 | | 6.00 | | 6.75 | | | | |
|--------------|-------------|---|-------------------------------------|-------|-------------|-------|-------|---|-------|
| Granite | 3,347 | - | 4,528 Hole Diameter (inches) | 4,431 | 3,180 | - | 4,302 | | |
| Basalt | 1,753 | - | 2,372 | 1,716 | - | 2,321 | 1,666 | - | 2,254 |
| Gabbro | 1,977 | - | 2,675 | 1,934 | - | 2,617 | 1,878 | - | 2,541 |
| Shale | 3,512 | - | 4,752 | 3,437 | - | 4,649 | 3,337 | - | 4,515 |
| Sandstone | 3,661 | - | 4,954 | 3,583 | - | 4,847 | 3,479 | - | 4,707 |
| Siltstone | 3,645 | - | 4,931 | 3,567 | - | 4,826 | 3,463 | - | 4,686 |
| Conglomerate | 4,206 | - | 5,690 | 4,116 | - | 5,568 | 3,996 | - | 5,407 |
| Breccia | 5,806 | - | 7,855 | 5,681 | - | 7,686 | 5,516 | - | 7,463 |
| Limestone | 4,822 | - | 6,524 | 4,719 | - | 6,384 | 4,582 | - | 6,199 |
| Schist | 5,913 | - | 8,000 | 5,786 | - | 7,829 | 5,619 | - | 7,602 |
| Slate | 3,851 | - | 5,210 | 3,768 | - | 5,098 | 3,659 | - | 4,950 |
| Gneiss | 3,504 | - | 4,741 | 3,429 | - | 4,639 | 3,330 | - | 4,505 |

Drill Steel Life (feet/rod)

| | 5.50 | | 6.00 | | 6.75 | | | | |
|--------------|-------------|---|---------------|-------------------------------|-------------|--------|--------|--------|--------|
| Granite | 41,556 | - | 56,222 | Hole Diameter (inches) | 55,014 | 39,485 | - | 53,421 | |
| Basalt | 24,332 | - | 32,920 | 23,809 | - | 32,212 | 23,119 | - | 31,279 |
| Gabbro | 26,875 | - | 36,360 | 26,298 | - | 35,579 | 25,536 | - | 34,549 |
| Shale | 43,248 | - | 58,513 | 42,319 | - | 57,255 | 41,093 | - | 55,597 |
| Sandstone | 44,765 | - | 60,564 | 43,803 | - | 59,263 | 42,534 | - | 57,546 |
| Siltstone | 44,600 | - | 60,341 | 43,642 | - | 59,045 | 42,377 | - | 57,334 |
| Conglomerate | 50,211 | - | 67,932 | 49,132 | - | 66,473 | 47,709 | - | 64,547 |
| Breccia | 65,567 | - | 88,708 | 64,158 | - | 86,802 | 62,299 | - | 84,288 |
| Limestone | 56,230 | - | 76,076 | 55,022 | - | 74,441 | 53,428 | - | 72,285 |
| Schist | 66,573 | - | 90,070 | 65,143 | - | 88,135 | 63,256 | - | 85,582 |
| Slate | 46,673 | - | 63,146 | 45,670 | - | 61,789 | 44,347 | - | 59,999 |
| Gneiss | 43,172 | - | 58,409 | 42,244 | - | 57,154 | 41,020 | - | 55,498 |

Penetration Rate (feet/hour)

| | 5.50 | | 6.00 | | 6.75 | | | |
|--------------|------|----------|------|----------------------------|---------|-----|---|----|
| | Hole | Diameter | Bar | (inches) | Bar | Bar | | |
| Granite | 32 | - | 43 | Hole Diameter Bar (inches) | 36 | 21 | - | 28 |
| Basalt | 18 | - | 25 | | 15 - 21 | 12 | - | 16 |
| Gabbro | 20 | - | 28 | | 17 - 23 | 13 | - | 18 |
| Shale | 33 | - | 45 | | 28 - 37 | 22 | - | 29 |
| Sandstone | 34 | - | 46 | | 29 - 39 | 23 | - | 31 |
| Siltstone | 34 | - | 46 | | 29 - 39 | 22 | - | 30 |
| Conglomerate | 38 | - | 52 | | 32 - 44 | 25 | - | 34 |
| Breccia | 50 | - | 68 | | 42 - 57 | 33 | - | 45 |
| Limestone | 43 | - | 58 | | 36 - 49 | 28 | - | 38 |
| Schist | 51 | - | 69 | | 43 - 58 | 34 | - | 46 |
| Slate | 36 | - | 48 | | 30 - 40 | 24 | - | 32 |
| Gneiss | 33 | - | 45 | | 28 - 37 | 22 | - | 29 |

Bit Cost (\$/foot)

| | 5.50 | | 6.00 | | 6.75 | | | | |
|--------------|-------------|---|--------------------------------------|--------|-------------|--------|--------|---|--------|
| Granite | \$0.59 | - | \$0.44 Hole Diameter (inches) | \$0.48 | \$0.77 | - | \$0.57 | | |
| Basalt | \$1.12 | - | \$0.83 | \$1.24 | - | \$0.92 | \$1.48 | - | \$1.09 |
| Gabbro | \$1.00 | - | \$0.74 | \$1.10 | - | \$0.81 | \$1.31 | - | \$0.97 |
| Shale | \$0.56 | - | \$0.42 | \$0.62 | - | \$0.46 | \$0.74 | - | \$0.55 |
| Sandstone | \$0.54 | - | \$0.40 | \$0.59 | - | \$0.44 | \$0.71 | - | \$0.52 |
| Siltstone | \$0.54 | - | \$0.40 | \$0.60 | - | \$0.44 | \$0.71 | - | \$0.53 |
| Conglomerate | \$0.47 | - | \$0.35 | \$0.52 | - | \$0.38 | \$0.62 | - | \$0.46 |
| Breccia | \$0.34 | - | \$0.25 | \$0.38 | - | \$0.28 | \$0.45 | - | \$0.33 |
| Limestone | \$0.41 | - | \$0.30 | \$0.45 | - | \$0.33 | \$0.54 | - | \$0.40 |
| Schist | \$0.33 | - | \$0.25 | \$0.37 | - | \$0.27 | \$0.44 | - | \$0.32 |
| Slate | \$0.51 | - | \$0.38 | \$0.57 | - | \$0.42 | \$0.67 | - | \$0.50 |
| Gneiss | \$0.56 | - | \$0.42 | \$0.62 | - | \$0.46 | \$0.74 | - | \$0.55 |

Drill Steel Cost (\$/foot per rod)

| | 5.50 | | 6.00 | | 6.75 | | | | |
|--------------|-------------|---|-------------|------------------------|-------------|---------|----------|---------|----------|
| Granite | \$0.045 | - | \$0.034 | Hole Diameter (inches) | \$0.034 | \$0.047 | - | \$0.035 | |
| Basalt | \$0.077 | - | \$0.057 | \$0 .079 | - | \$0.058 | \$0 .081 | - | \$0 .060 |
| Gabbro | \$0.070 | - | \$0.051 | \$0 .071 | - | \$0.053 | \$0 .073 | - | \$0 .054 |
| Shale | \$0.043 | - | \$0.032 | \$0 .044 | - | \$0.033 | \$0 .046 | - | \$0 .034 |
| Sandstone | \$0.042 | - | \$0.031 | \$0 .043 | - | \$0.032 | \$0 .044 | - | \$0 .033 |
| Siltstone | \$0.042 | - | \$0.031 | \$0 .043 | - | \$0.032 | \$0 .044 | - | \$0 .033 |
| Conglomerate | \$0.037 | - | \$0.028 | \$0 .038 | - | \$0.028 | \$0 .039 | - | \$0 .029 |
| Breccia | \$0.029 | - | \$0.021 | \$0 .029 | - | \$0.022 | \$0 .030 | - | \$0 .022 |
| Limestone | \$0.033 | - | \$0.025 | \$0 .034 | - | \$0.025 | \$0 .035 | - | \$0 .026 |
| Schist | \$0.028 | - | \$0.021 | \$0 .029 | - | \$0.021 | \$0 .030 | - | \$0 .022 |
| Slate | \$0.040 | - | \$0.030 | \$0 .041 | - | \$0.030 | \$0 .042 | - | \$0 .031 |
| gneiss | \$0.043 | - | \$0.032 | \$0 .044 | - | \$0.033 | \$0 .046 | - | \$0 .034 |

(Based on 12 foot drilling rod length)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|-----------------------|---------------|
| 1 | 1 0 |
| 2 | 1 5 |
| 3 | 2 0 |
| 4 | 2 5 |
| 5 | 3 0 |
| 6 | 3 5 |
| 7 | 4 0 |
| 8 | 4 5 |
| 9 | 5 0 |
| 10 | 5 5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

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DRILL MODEL - **Atlas Copco DM45 -Rotary**

Bit Life (feet/bit)

| | 5.00 | 6.75 | 7.875 | |
|--------------|-------|------|-------|-------------------------------|
| Granite | 3,619 | - | 4,897 | Hole Diameter (inches) |
| Basalt | 1,896 | - | 2,565 | 1,759 |
| Gabbro | 2,138 | - | 2,893 | 1,984 |
| Shale | 3,798 | - | 5,139 | 3,524 |
| Sandstone | 3,960 | - | 5,357 | 3,674 |
| Siltstone | 3,942 | - | 5,333 | 3,658 |
| Conglomerate | 4,549 | - | 6,154 | 4,220 |
| Breccia | 6,279 | - | 8,495 | 5,825 |
| Limestone | 5,215 | - | 7,056 | 4,839 |
| Schist | 6,395 | - | 8,652 | 5,934 |
| Slate | 4,164 | - | 5,634 | 3,864 |
| Gneiss | 3,790 | - | 5,128 | 3,517 |
| | | | | 4,758 |
| | | | | 3,384 |
| | | | | 4,578 |

Drill Steel Life (feet/rod)

| | 5.00 | 6.75 | 7.875 | |
|--------------|--------|------|--------|-------------------------------|
| Granite | 44,942 | - | 60,803 | Hole Diameter (inches) |
| Basalt | 26,314 | - | 35,602 | 24,415 |
| Gabbro | 29,065 | - | 39,323 | 26,967 |
| Shale | 46,772 | - | 63,280 | 43,397 |
| Sandstone | 48,412 | - | 65,499 | 44,919 |
| Siltstone | 48,234 | - | 65,258 | 44,753 |
| Conglomerate | 54,302 | - | 73,468 | 50,383 |
| Breccia | 70,909 | - | 95,936 | 65,792 |
| Limestone | 60,812 | - | 82,275 | 56,423 |
| Schist | 71,998 | - | 97,409 | 66,802 |
| Slate | 50,476 | - | 68,291 | 46,833 |
| Gneiss | 46,689 | - | 63,168 | 43,320 |
| | | | | 58,609 |
| | | | | 41,685 |
| | | | | 56,397 |

Penetration Rate (feet/hour)

| | 5.00 | 6.75 | 7.875 | |
|--------------|------|------|-------|-------------------------------|
| Granite | 50 | - | 68 | Hole Diameter (inches) |
| Basalt | 29 | - | 39 | 16 |
| Gabbro | 32 | - | 44 | 17 |
| Shale | 52 | - | 71 | 28 |
| Sandstone | 54 | - | 73 | 29 |
| Siltstone | 54 | - | 73 | 29 |
| Conglomerate | 61 | - | 82 | 33 |
| Breccia | 80 | - | 108 | 43 |
| Limestone | 68 | - | 92 | 37 |
| Schist | 81 | - | 109 | 44 |
| Slate | 56 | - | 76 | 31 |
| Gneiss | 52 | - | 70 | 28 |
| | | | | 38 |
| | | | | 21 |
| | | | | 27 |
| | | | | 20 |
| | | | | 12 |
| | | | | 16 |
| | | | | 13 |
| | | | | 17 |
| | | | | 21 |
| | | | | 28 |
| | | | | 21 |
| | | | | 29 |
| | | | | 24 |
| | | | | 33 |
| | | | | 32 |
| | | | | 43 |
| | | | | 27 |
| | | | | 37 |
| | | | | 32 |
| | | | | 44 |
| | | | | 22 |
| | | | | 30 |
| | | | | 21 |
| | | | | 28 |

Bit Cost (\$/foot)

| | 5.00 | 6.75 | 7.875 | |
|--------------|--------|------|--------|-------------------------------|
| Granite | \$0.45 | - | \$0.33 | Hole Diameter (inches) |
| Basalt | \$0.86 | - | \$0.64 | 1,40 |
| Gabbro | \$0.76 | - | \$0.56 | 1,24 |
| Shale | \$0.43 | - | \$0.32 | 0,70 |
| Sandstone | \$0.41 | - | \$0.30 | 0,67 |
| Siltstone | \$0.41 | - | \$0.31 | 0,67 |
| Conglomerate | \$0.36 | - | \$0.26 | 0,58 |
| Breccia | \$0.26 | - | \$0.19 | 0,42 |
| Limestone | \$0.31 | - | \$0.23 | 0,51 |
| Schist | \$0.25 | - | \$0.19 | 0,42 |
| Slate | \$0.39 | - | \$0.29 | 0,64 |
| Gneiss | \$0.43 | - | \$0.32 | 0,70 |
| | | | | 0,52 |
| | | | | 0,89 |
| | | | | - |
| | | | | \$0.66 |
| | | | | \$1.32 |
| | | | | \$1.58 |
| | | | | \$1.17 |
| | | | | \$0.63 |
| | | | | \$0.48 |
| | | | | \$0.39 |
| | | | | \$0.60 |
| | | | | \$0.66 |

Drill Steel Cost (\$/foot per rod)

| | 5.00 | 6.75 | 7.875 | |
|--------------|---------|------|---------|-------------------------------|
| Granite | \$0.035 | - | \$0.028 | Hole Diameter (inches) |
| Basalt | \$0.060 | - | \$0.044 | 0,077 |
| Gabbro | \$0.054 | - | \$0.040 | 0,069 |
| Shale | \$0.034 | - | \$0.025 | 0,043 |
| Sandstone | \$0.033 | - | \$0.024 | 0,042 |
| Siltstone | \$0.033 | - | \$0.024 | 0,042 |
| Conglomerate | \$0.029 | - | \$0.022 | 0,037 |
| Breccia | \$0.022 | - | \$0.017 | 0,028 |
| Limestone | \$0.026 | - | \$0.019 | 0,033 |
| Schist | \$0.022 | - | \$0.016 | 0,028 |
| Slate | \$0.031 | - | \$0.023 | 0,040 |
| Gneiss | \$0.034 | - | \$0.025 | 0,043 |
| | | | | 0,032 |
| | | | | 0,045 |
| | | | | \$0.049 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

DRILL MODEL - **Atlas Copco DM M2 -Rotary**

Bit Life (feet/bit)

| | 9.00 | 9.875 | 11.00 | |
|--------------|-------|-------|------------------------------|-------|
| Granite | 3,312 | - | 4,481 Hole Diameter (inches) | 4,378 |
| Basalt | 1,735 | - | 2,347 | 1,695 |
| Gabbro | 1,956 | - | 2,647 | 1,912 |
| Shale | 3,476 | - | 4,702 | 3,396 |
| Sandstone | 3,623 | - | 4,902 | 3,540 |
| Siltstone | 3,607 | - | 4,880 | 3,525 |
| Conglomerate | 4,162 | - | 5,631 | 4,067 |
| Breccia | 5,745 | - | 7,773 | 5,614 |
| Limestone | 4,772 | - | 6,457 | 4,663 |
| Schist | 5,852 | - | 7,917 | 5,718 |
| Slate | 3,811 | - | 5,156 | 3,723 |
| Gneiss | 3,468 | - | 4,692 | 3,389 |
| | | | | 4,585 |
| | | | | 3,299 |
| | | | | 4,463 |

Drill Steel Life (feet/rod)

| | 9.00 | 9.875 | 11.00 | |
|--------------|--------|-------|-------------------------------|--------|
| Granite | 41,124 | - | 55,639 Hole Diameter (inches) | 54,365 |
| Basalt | 24,079 | - | 32,578 | 23,528 |
| Gabbro | 26,596 | - | 35,983 | 25,987 |
| Shale | 42,800 | - | 57,905 | 41,820 |
| Sandstone | 44,300 | - | 59,936 | 43,286 |
| Siltstone | 44,137 | - | 59,715 | 43,127 |
| Conglomerate | 49,690 | - | 67,228 | 48,552 |
| Breccia | 64,887 | - | 87,788 | 63,401 |
| Limestone | 55,647 | - | 75,287 | 54,373 |
| Schist | 65,883 | - | 89,135 | 64,374 |
| Slate | 46,189 | - | 62,490 | 45,131 |
| Gneiss | 42,724 | - | 57,803 | 41,746 |
| | | | | 56,479 |
| | | | | 40,637 |
| | | | | 54,979 |

Penetration Rate (feet/hour)

| | 9.00 | 9.875 | 11.00 | |
|--------------|------|-------|---------------------------|----|
| Granite | 21 | - | 29 Hole Diameter (inches) | 24 |
| Basalt | 12 | - | 17 | 10 |
| Gabbro | 14 | - | 18 | 11 |
| Shale | 22 | - | 30 | 18 |
| Sandstone | 23 | - | 31 | 19 |
| Siltstone | 23 | - | 31 | 19 |
| Conglomerate | 26 | - | 35 | 21 |
| Breccia | 34 | - | 46 | 28 |
| Limestone | 29 | - | 39 | 24 |
| Schist | 34 | - | 46 | 28 |
| Slate | 24 | - | 32 | 20 |
| Gneiss | 22 | - | 30 | 18 |
| | | | | 25 |
| | | | | 15 |
| | | | | 20 |

Bit Cost (\$/foot)

| | 9.00 | 9.875 | 11.00 | |
|--------------|---------|-------|--------------------------------|---------|
| Granite | \$ 1.08 | - | \$ 0.80 Hole Diameter (inches) | \$ 1.09 |
| Basalt | \$ 2.07 | - | \$ 1.53 | \$ 2.82 |
| Gabbro | \$ 1.83 | - | \$ 1.36 | \$ 2.50 |
| Shale | \$ 1.03 | - | \$ 0.76 | \$ 1.41 |
| Sandstone | \$ 0.99 | - | \$ 0.73 | \$ 1.35 |
| Siltstone | \$ 0.99 | - | \$ 0.74 | \$ 1.36 |
| Conglomerate | \$ 0.86 | - | \$ 0.64 | \$ 1.18 |
| Breccia | \$ 0.62 | - | \$ 0.46 | \$ 0.85 |
| Limestone | \$ 0.75 | - | \$ 0.56 | \$ 1.03 |
| Schist | \$ 0.61 | - | \$ 0.45 | \$ 0.84 |
| Slate | \$ 0.94 | - | \$ 0.70 | \$ 1.29 |
| Gneiss | \$ 1.03 | - | \$ 0.76 | \$ 1.41 |
| | | | | \$ 1.04 |
| | | | | \$ 1.71 |
| | | | | \$ 1.26 |

Drill Steel Cost (\$/foot per rod)

| | 9.00 | 9.875 | 11.00 | |
|---|----------|-------|---------------------------------|----------|
| Granite | \$ 0.067 | - | \$ 0.050 Hole Diameter (inches) | \$ 0.051 |
| Basalt | \$ 0.115 | - | \$ 0.085 | \$ 0.117 |
| Gabbro | \$ 0.104 | - | \$ 0.077 | \$ 0.106 |
| Shale | \$ 0.064 | - | \$ 0.048 | \$ 0.066 |
| Sandstone | \$ 0.062 | - | \$ 0.046 | \$ 0.064 |
| Siltstone | \$ 0.063 | - | \$ 0.046 | \$ 0.064 |
| Conglomerate | \$ 0.056 | - | \$ 0.041 | \$ 0.057 |
| Breccia | \$ 0.043 | - | \$ 0.031 | \$ 0.044 |
| Limestone | \$ 0.050 | - | \$ 0.037 | \$ 0.051 |
| Schist | \$ 0.042 | - | \$ 0.031 | \$ 0.043 |
| Slate | \$ 0.060 | - | \$ 0.044 | \$ 0.061 |
| Gneiss | \$ 0.065 | - | \$ 0.048 | \$ 0.066 |
| | | | | \$ 0.049 |
| (Based on 12 foot drilling rod length.) | | | | |

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

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DRILL MODEL - **Bucyrus International 59R -Rotary**

Bit Life (feet/bit)

| | 12.25 | 15.00 | 16.00 |
|--------------|----------|-------|----------|
| Granite | 3379.984 | - | 4572.916 |
| Basalt | 1770.653 | - | 2395.589 |
| Gabbro | 1996.573 | - | 2701.246 |
| Shale | 3546.993 | - | 4798.873 |
| Sandstone | 3697.769 | - | 5002.863 |
| Siltstone | 3681.304 | - | 4980.588 |
| Conglomerate | 4247.818 | - | 5747.048 |
| Breccia | 5863.339 | - | 7932.753 |
| Limestone | 4870.335 | - | 6589.277 |
| Schist | 5972.24 | - | 8080.09 |
| Slate | 3888.976 | - | 5261.555 |
| Gneiss | 3539.394 | - | 4788.591 |
| | | | 3364.924 |
| | | | 4552.544 |
| | | | 3311.153 |
| | | | 4479.796 |

Drill Steel Life (feet/rod)

| | 12.25 | 15.00 | 16.00 |
|--------------|----------|-------|-----------|
| Granite | 41969.55 | - | 56782.916 |
| Basalt | 24574.25 | - | 33247.51 |
| Gabbro | 27142.87 | - | 36722.71 |
| Shale | 43679.22 | - | 59095.42 |
| Sandstone | 45210.83 | - | 61167.6 |
| Siltstone | 45044.11 | - | 60942.03 |
| Conglomerate | 50711.07 | - | 68609.09 |
| Breccia | 66219.99 | - | 89591.75 |
| Limestone | 56790.17 | - | 76833.76 |
| Schist | 67236.6 | - | 90967.16 |
| Slate | 47137.81 | - | 63774.69 |
| Gneiss | 43601.73 | - | 58990.58 |
| | | | 41452.44 |
| | | | 56082.72 |
| | | | 40790.04 |
| | | | 55186.53 |

Penetration Rate (feet/hour)

| | 12.25 | 15.00 | 16.00 |
|--------------|----------|-------|----------|
| Granite | 19.00236 | - | 25.70996 |
| Basalt | 11.03265 | - | 14.92652 |
| Gabbro | 12.205 | - | 16.51264 |
| Shale | 19.78892 | - | 26.77325 |
| Sandstone | 20.49398 | - | 27.72715 |
| Siltstone | 20.41721 | - | 27.62329 |
| Conglomerate | 23.02897 | - | 31.15684 |
| Breccia | 30.19898 | - | 40.85745 |
| Limestone | 25.83581 | - | 34.95433 |
| Schist | 30.66998 | - | 41.49468 |
| Slate | 21.38157 | - | 28.92801 |
| Gneiss | 19.75326 | - | 26.725 |
| | | | 13.09935 |
| | | | 17.72265 |
| | | | 11.49218 |
| | | | 15.54824 |

Bit Cost (\$/foot)

| | 12.25 | 15.00 | 16.00 |
|--------------|---------|-------|---------------------------|
| Granite | \$ 1.95 | - | \$ Hole Diameter (inches) |
| Basalt | \$3.73 | - | \$2.76 |
| Gabbro | \$ 3.31 | - | \$2.44 |
| Shale | \$ 1.86 | - | \$1.38 |
| Sandstone | \$1.79 | - | \$1.32 |
| Siltstone | \$1.79 | - | \$1.33 |
| Conglomerate | \$ 1.55 | - | \$1.15 |
| Breccia | \$1.13 | - | \$0.83 |
| Limestone | \$1.36 | - | \$1.00 |
| Schist | \$1.11 | - | \$0.82 |
| Slate | \$1.70 | - | \$1.25 |
| Gneiss | \$1.87 | - | \$1.38 |
| | | | \$3.07 |
| | | | \$2.27 |
| | | | \$3.32 |
| | | | \$2.45 |
| | | | \$2.18 |
| | | | \$3.18 |
| | | | \$3.20 |
| | | | \$2.36 |
| | | | \$1.90 |
| | | | \$2.77 |
| | | | \$2.05 |
| | | | \$1.37 |
| | | | \$2.01 |
| | | | \$1.48 |
| | | | \$1.65 |
| | | | \$2.42 |
| | | | \$1.79 |
| | | | \$1.35 |
| | | | \$1.97 |
| | | | \$1.46 |
| | | | \$2.07 |
| | | | \$3.03 |
| | | | \$2.24 |
| | | | \$3.33 |
| | | | \$2.46 |

Drill Steel Cost (\$/foot per rod)

| | 12.25 | 15.00 | 16.00 |
|--------------|----------|-------|---------|
| Granite | \$ 0.078 | - | \$0.056 |
| Basalt | \$0.133 | - | \$0.104 |
| Gabbro | \$0.121 | - | \$0.089 |
| Shale | \$ 0.075 | - | \$0.055 |
| Sandstone | \$ 0.072 | - | \$0.054 |
| Siltstone | \$ 0.073 | - | \$0.054 |
| Conglomerate | \$ 0.065 | - | \$0.048 |
| Breccia | \$ 0.049 | - | \$0.037 |
| Limestone | \$ 0.058 | - | \$0.043 |
| Schist | \$ 0.049 | - | \$0.036 |
| Slate | \$ 0.069 | - | \$0.051 |
| Gneiss | \$ 0.075 | - | \$0.055 |
| | | | \$0.061 |
| | | | \$0.058 |
| | | | \$0.080 |
| | | | \$0.059 |
| | | | \$0.077 |
| | | | \$0.056 |
| | | | \$0.056 |
| | | | \$0.056 |
| | | | \$0.050 |
| | | | \$0.050 |
| | | | \$0.053 |
| | | | \$0.045 |
| | | | \$0.062 |
| | | | \$0.046 |
| | | | \$0.038 |
| | | | \$0.055 |
| | | | \$0.059 |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|----------------|---------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

DRILL MODEL - **Atlas Copco TBH4 - Rotary**

Bit Life (feet/bit)

| | 5.00 | 6.750 | 7.875 |
|--------------|-------------|--------------|--------------|
| Granite | 3,526 | - | 4,770 |
| Basalt | 1,847 | - | 2,499 |
| Gabbro | 2,083 | - | 2,818 |
| Shale | 3,700 | - | 5,006 |
| Sandstone | 3,857 | - | 5,219 |
| Siltstone | 3,840 | - | 5,195 |
| Conglomerate | 4,431 | - | 5,995 |
| Breccia | 6,116 | - | 8,275 |
| Limestone | 5,080 | - | 6,873 |
| Schist | 6,230 | - | 8,429 |
| Slate | 4,057 | - | 5,488 |
| Gneiss | 3,692 | - | 4,995 |
| | | | |
| | | | |

Drill Steel Life (feet/rod)

| | 5.00 | 6.750 | 7.875 |
|--------------|-------------|--------------|--------------|
| Granite | 43,780 | - | 59,23 |
| Basalt | 25,634 | - | 34,681 |
| Gabbro | 28,313 | - | 38,306 |
| Shale | 45,563 | - | 61,644 |
| Sandstone | 47,161 | - | 63,806 |
| Siltstone | 46,987 | - | 63,570 |
| Conglomerate | 52,888 | - | 71,568 |
| Breccia | 69,076 | - | 93,456 |
| Limestone | 59,239 | - | 80,147 |
| Schist | 70,136 | - | 94,890 |
| Slate | 49,171 | - | 66,525 |
| Gneiss | 45,482 | - | 61,535 |
| | | | |
| | | | |

Penetration Rate (feet/hour)

| | 5.00 | 6.750 | 7.875 |
|--------------|-------------|--------------|--------------|
| Granite | 45 | - | 60 |
| Basalt | 26 | - | 35 |
| Gabbro | 29 | - | 39 |
| Shale | 46 | - | 63 |
| Sandstone | 48 | - | 65 |
| Siltstone | 48 | - | 65 |
| Conglomerate | 54 | - | 73 |
| Breccia | 71 | - | 96 |
| Limestone | 61 | - | 82 |
| Schist | 72 | - | 97 |
| Slate | 50 | - | 68 |
| Gneiss | 46 | - | 63 |
| | | | |
| | | | |

Bit Cost (\$/foot)

| | 5.00 | 6.750 | 7.875 |
|--------------|-------------|--------------|--------------|
| Granite | \$0.46 | - | \$0.34 |
| Basalt | \$0.88 | - | \$0.65 |
| Gabbro | \$0.78 | - | \$0.58 |
| Shale | \$0.44 | - | \$0.33 |
| Sandstone | \$0.42 | - | \$0.31 |
| Siltstone | \$0.42 | - | \$0.31 |
| Conglomerate | \$0.37 | - | \$0.27 |
| Breccia | \$0.27 | - | \$0.20 |
| Limestone | \$0.32 | - | \$0.24 |
| Schist | \$0.26 | - | \$0.19 |
| Slate | \$0.40 | - | \$0.30 |
| Gneiss | \$0.44 | - | \$0.33 |
| | | | |
| | | | |

Drill Steel Cost (\$/foot per rod)

| | 5.00 | 6.750 | 7.875 |
|--------------|-------------|--------------|--------------|
| Granite | \$0.036 | - | \$0.02 |
| Basalt | \$0.062 | - | \$0.046 |
| Gabbro | \$0.056 | - | \$0.041 |
| Shale | \$0.035 | - | \$0.026 |
| Sandstone | \$0.034 | - | \$0.025 |
| Siltstone | \$0.034 | - | \$0.025 |
| Conglomerate | \$0.030 | - | \$0.022 |
| Breccia | \$0.023 | - | \$0.017 |
| Limestone | \$0.027 | - | \$0.020 |
| Schist | \$0.023 | - | \$0.017 |
| Slate | \$0.032 | - | \$0.024 |
| Gneiss | \$0.035 | - | \$0.026 |
| | | | |
| | | | |

(Based on 12 foot drilling rod length.)

Drill Steel Cost Adjustment Factor

| Number of rods | Factor |
|-----------------------|---------------|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

| <u>BIT AND DRILL STEEL PRICE DATABASE</u> | | | | | | |
|--|----------|-----------|----------------------------------|------------------------|----------|-----------|
| | | | <u>Effective date - 8/2006</u> | | | |
| <u>Drill Bits</u> | | | <u>Drill Rod</u> | | | |
| Bit Type | Bit Size | Bit Price | | Rod Type | Rod Size | Rod Price |
| Button - drop center | 1-3/4" | \$62 | | Percussion rod - 12 ft | | \$280 |
| | 2" | \$69 | | | | \$324 |
| | 2-1.2" | \$98 | | | | \$407 |
| | 3" | \$131 | | R32 | | \$568 |
| | 3-1.2" | \$159 | | T38 | | |
| | 4" | \$223 | | T45 | | |
| | 4-1.2" | \$268 | DTH rod .910" | | | \$384 |
| | 5" | \$321 | 3.0 76mm | | | \$431 |
| | | | 4.0 102mm | | | \$491 |
| | | | 4.5 114mm | | | \$592 |
| | | | 5.5 140mm | | | \$815 |
| DTH - concave face | 3-1/2" | \$410 | | | | |
| | 5" | \$550 | | | | |
| | 5-1/2" | \$575 | | | | |
| | 6" | \$630 | Rotary rod - 25' to 30' | | | \$3,300 |
| | 6-1/2" | \$640 | | | | \$3,900 |
| | 8" | \$1,230 | | | | \$6,900 |
| | 8-7/8" | \$1,385 | 4" x 25' | | | \$6,800 |
| | 10" | \$1,900 | 5" x 25' | | | \$7,500 |
| | 11-7/8 | \$4,500 | 7" x 30' | | | |
| | | | 8-5/8" x 30' | | | |
| | | | 10-3/4" x 27.5 | | | |
| TRICONE - carbide insert | 3-7/8" | \$1,150 | | | | |
| | 5" | \$1,629 | | | | |
| | 5-1/2" | \$1,972 | All unit prices are manufacturer | | | |
| | 6" | \$2,131 | list prices. Discounts or | | | |
| | 6-1/4" | \$2,207 | premiums may apply depending | | | |
| | 6-3/4" | \$2,463 | upon market conditions. | | | |
| | 7-7/8" | \$3,023 | | | | |
| | 9" | \$3,589 | | | | |
| | 9-7/8" | \$4,787 | | | | |
| | 11" | \$5,640 | | | | |
| | 12-1/4" | \$6,603 | | | | |
| | 15" | \$10,367 | | | | |
| | 16" | \$11,016 | | | | |

Prepared by Western Mine Division, InfoMine USA, Inc. in cooperation with Aventurine Engineering, Inc. 2006

ROTARY BLASTHOLE DRILLS

Bucyrus manufactures electric rotary blasthole drills with the most innovative features on the market, including programmed drill control, rack and pinion pull-down, hydrostatic propel drives and more. [Contact us](#) today for more information about any of our performance-packed drills!



59R

Max. hole size: 444 mm (17-1/2 in)
Max. bit loading: 74,830 kg (165,000 lbs)
Working weight: 183,673 kg (405,000 lbs)



49RIII

Max. hole size: 406 mm (16 in)
Max. bit loading: 63,975 kg (141,000 lbs)
Working weight: 154,224 kg (340,000 lbs)



39HR

Max. hole size: 349 mm (13-3/4 in)
Max. bit loading: 55,000 kg (122,000 lbs)
Working weight: 122,500 kg (270,000 lbs)



35HR Series

Max. hole size: 270 mm (10-5/8 in)
Max. bit loading: 34,000 kg (75,000 lbs)
Working weight: 54,432 kg (120,000 lbs)

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Infrastructure - Drilling Solutions



Drilling Solutions

Ingersoll-Rand has been in the drilling business since Simon Ingersoll invented his first rock drill in 1871. This innovative piece of machinery revolutionized the drilling industry and set the pace for the company's future.

Ingersoll-Rand drills are designed and manufactured to a stringent set of quality standards, assuring you of the most efficient and reliable drills available anywhere.

Now in our second century, we are proud of the comprehensive line of Ingersoll-Rand drilling equipment for the mining, exploration, oil and gas, quarry and water well industries around the world.

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- Exploration Drills
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- Down Hole Drills
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Select Model:

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DM25/S
DM30
DM45/L
DM50/L
DM-L/L
DM45/S
DM-LS
DM-M2
DM-M3
DM-H2
351



The DM45/LP is a hydraulic rotary head drive, multi-pass, crawler-mounted drill rig with a 45,000 lb. (20,400 kg) bit load capacity. The standard two-motor spur gear rotary head is rated from 9,000 ft-lb. (12,204 N-m) at 0-100 RPM and 5,400 ft-lb. (732 N-m) at 0-160 RPM. The DM45/LP can drill from 5-1/8 to 7-7/8 in. (130 to 200 mm) diameter blastholes to depths of 180 ft. (55 m) with a 30 ft. (9.1 m) drill pipe change. Two low-pressure Ingersoll-Rand compressor options are available with your choice of Caterpillar or Cummins engines.

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DHD

DHD Drill Selector

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- ## Down Hole Drills Threaded Access

Hollow Anchor System Literature

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|----------------------|--|---|--|----------------|--|
| Diameter | | Nominal Hole Diameter | | 6-8 in. | |
| Power Pack | | | | | |
| Engine #1 | | Cummins QSX15 (425 HP @ 1800 rpm) | | | |
| Compressor #1 | | 900 @ 110 CFM @ PSI / 25.5 @ 758 m3/min@kPA | | | |
| Engine #2 | | CAT C15 (425 HP @ 1800 RPM) | | | |
| Compressor #2 | | 900 @ 110 CFM @ PSI / 25.5 @ 758 m3/min@kPA | | | |
| Engine #3 | | Cummins QSX15 (475 HP @ 1800 RPM) | | | |
| Compressor #3 | | 1050 @ 110 CFM @ PSI / 29.7 @ 758 m3/min@kPA | | | |
| Engine #4 | | Cat C15 (475 HP @ 1800 RPM) | | | |
| Compressor #4 | | 1050 @ 110 CFM @ PSI / 29.7 @ 758 m3/min@kPA | | | |
| Rotation | | | | | |
| Type | | 2-motor variable displacement, high torque/high speed | | | |
| Head Torque | | High torque: 9,000 ft-lb @ 100 rpm | | | |
| Speed | | High speed: 5,400 ft-lb @ 160 rpm rpm | | | |
| Feed System | | | | | |
| Type | | Hydraulic cyls. w/cable pulldown & chain pullback | | | |
| Bit Load | | 45,000 lb / 20,411 kg | | | |
| Tower | | | | | |
| Pipe Length | | 30 ft. / 9.1 m. | | | |
| Fabrication | | 4-member open front w/rectangular hollow steel tubing/double cut lacing | | | |
| Undercarriage | | | | | |
| Model | | Caterpillar 325L or equivalent | | | |

| | |
|--------------------------------|---|
| Length | 15.3 ft. / 4.66 m |
| Capacity | Carousel Capable of 180 ft. |
| Options | Contact your local IR distributor for a complete list of options. |
| Option #1 | |
| Weight & Dimensions | |
| Height (Tower Up) | 43 ft. / 13.11 m |
| Approx. Working Weight | 77,000 - 85,000 lbs. / 34,900 - 38,600 kg. |
| Material To Be Drilled | |
| Soft | Yes |
| Mining | Yes |
| Quarry | Yes |
| Drilling Method | |
| Rotary | Yes |



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Infrastructure - Drilling Solutions

Rotary - DM30

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[DM30](#)

[DM45/LP](#)

[DM50/LP](#)

[DM-L/LP](#)

[DM45/SP](#)

[DM-LSP](#)

[DM-M2](#)

[DM-M3](#)

[DM-H2](#)

[351](#)



The DM30 is a hydraulic tophead drive, multi-pass, crawler-mounted drill rig designed for blastholes ranging from 5-1/8 to 6-3/4 in. (130 to 171 mm) in diameter. On-board depth capability is up to 150 ft. (45.7 m). For rotary drilling, the DM30 can assert a bit load force up to 30,000 lb. (13,608 kg) and rotation speeds of 0-130 RPM. This rig can also be used with downhole drills when equipped with a high-pressure air compressor option.

[[SPECS](#)] [[FEATURES](#)] [[LITERATURE](#)]

| | | |
|-------------------|--|---|
| Diameter | Nominal Hole Diameter | 5-6 in. |
| Power Pack | | |
| Engine #1 | Cummins QSX15 (525 HP @ 1800 RPM) | |
| Compressor #1 | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA | |
| Engine #2 | CAT C15 (525 HP @ 1800 RPM) | |
| Compressor #2 | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA | |
| Engine #3 | Cummins QSX15 (425 HP @ 1800 RPM) | |
| Compressor #3 | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA | |
| Engine #4 | CAT C15 (425 HP @ 1800 RPM) | |
| Compressor #4 | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA | |
| Floating Sub Base | Isolates components from drilling and propel shock loads/maintains alignment | |
| Type | Rotation | Rotary Tophead |
| Head Torque | | 5,400 ft-lb. / 7,322 N-m |
| Speed | | 0-100 rpm |
| Type | Feed System | Single cylinder, cable feed |
| Bit Load | | 30,000 lb / (13,608) kg |
| Pipe Length | Tower | 30 ft. / 9.1 m. |
| Construction | | 4 member open front with hollow steel tubing. |

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|-------------------------------|---|
| Manufacturer | Undercarriage <input type="checkbox"/> Caterpillar |
| Options | Contact your local IR distributor for a complete list of options. |
| Option #1 | |
| Height (Tower Up) | 44.3 ft. / 13.4 m |
| Approx. Working Weight | 68,000 lbs. / 30,844 kg. |
| Material To Be Drilled | |
| Hard | <input type="checkbox"/> Yes |
| Medium | <input type="checkbox"/> Yes |
| Soft | <input type="checkbox"/> Yes |
| Drill Application | |
| Mining | <input type="checkbox"/> Yes |
| Quarry | <input type="checkbox"/> Yes |
| Drilling Method | |
| Rotary | <input type="checkbox"/> Yes |
| DHD | <input type="checkbox"/> Yes |



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Rotary - DM25/SP

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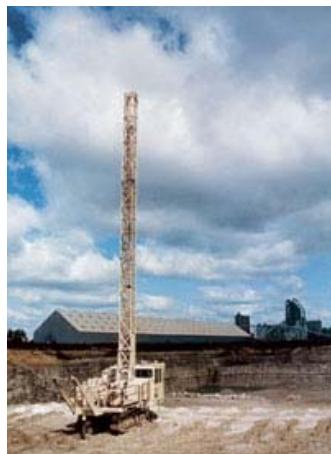
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[DM-M2](#)

[DM-M3](#)

[DM-H2](#)

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The DM25SP is a crawler-mounted rotary table drill rig designed for single-pass blasthole drilling to depths of up to 50 ft. (15.2 m) and diameters of 3-1/2 to 6-3/4 in. (89 to 171 mm). This drill is capable of rotary drilling with 25,000 lb. (11,340 kg) of bit load at 0-200 rpm. The DM25SP can also be used with downhole drills when equipped with a high-pressure air compressor option.

[[SPECS](#)] [[FEATURES](#)] [[LITERATURE](#)]

| | | |
|----------------------|---|---------|
| Diameter | Nominal Hole Diameter | 5-6 in. |
| Power Pack | | |
| Engine #1 | Cummins QSX15 (525 HP @ 1800 RPM) | |
| Compressor #1 | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA | |
| Engine #2 | CAT C15 (525 HP @ 1800 RPM) | |
| Compressor #2 | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA | |
| Engine #3 | Cummins QSX15 (425 HP @ 1800 RPM) | |
| Compressor #3 | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA | |
| Engine #4 | CAT C15 (425 HP @ 1800 RPM) | |
| Compressor #4 | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA | |
| Rotation | | |
| Type | Rotary Table Drive | |
| Speed | 0-170 rpm | |
| Torque | 3,500 / (4,746 N-m) | |
| Feed System | | |
| Type | Heavy-duty chains through cluster sprocket | |
| Pulldown | 25,000 lbs. / 11,340 kg. | |
| Tower | | |
| Construction | 4 main member, open front, rectangular steel tubing | |
| #1 Single pass depth | 40 ft. / 12.2 m. | |
| #2 Single pass depth | 50 ft. / 15.2 m. | |
| Undercarriage | | |

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| Type | Excavator |
| Option #1 | Contact your local IR distributor for a complete list of options. |
| Weight | Varies according to drill pipe: 60,000 - 62,000 lb / 27,216-28,123 kg |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| Quarry | Yes |
| Rotary | Yes |
| DHD | Yes |



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Infrastructure - Drilling Solutions

Rotary - DM-M2

Select Model:

[T4BH](#)

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[DM30](#)

[DM45/LP](#)

[DM50/LP](#)

[DM-L/LP](#)

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[DM-M2](#)

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[DM-H2](#)

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Designed for rotary or downhole drilling of up to 10-5/8 in. (270 mm) diameter blastholes, the DM-M2 provides 75,000 lb. (34,000 kg) of bit load and a 35 ft. (10 m) drill pipe change. Advanced frame and tower design and a unique, patented carriage feed system allow on-board drill depths to 175 ft. (53 m). Compressor/engine packages in both low-pressure, [1900 CFM @ 110 PSI (51 m³/min. @ 758 kPa)] for rotary drilling and high pressure [1250 CFM @ 350 PSI (35.4 m³/min. @ 2,413 kPa)], for downhole drilling, are available.

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| | | |
|---------------|-----------------------|--|
| Diameter | Nominal Hole Diameter | 9-11 in. |
| Engine #1 | Power Pack | Caterpillar 3412E / EPA certified |
| Compressor #1 | | 1900 @ 100 CFM @ PSI / 53.8 @ 690 m ³ /min@kPA |
| Engine #2 | | Cummins QSK19 / EPA certified |
| Compressor #2 | | 1900 @ 100 CFM @ PSI / 53.8 @ 690 m ³ /min@kPA |
| Engine #3 | | Caterpillar 3412E / EPA certified |
| Compressor #3 | | 1250 @ 350 CFM @ PSI / 35.4 @ 2413 m ³ /min@kPA |
| Type | Rotation | Two-motor, variable displacement |
| Speed Range | | 0-150 rpm, variable |
| Head Torque | | 0-8,640 ft-lbs (0-11,714 Nm) (forward) |
| Type | Feed System | Patented carriage feed |
| Weight on Bit | | 0 to 75,000 lb. / 0 to 34,019 kg |
| Pipe Length | Tower | 35 ft. / 10.7 m. |
| Construction | | 4 member open front with hollow steel tubing. |
| Model | Undercarriage | Caterpillar 330EL or equivalent |
| Size | Carousel | Holds 2 to 4 drill pipe depending on pipe diameter |

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| Options | |
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| Option #1 | Contact your local IR distributor for a complete list of options. |
| Weight & Dimensions | |
| Height (Tower Up) | 56.2 ft. / 17.1 m |
| Approx. Working Weight | 120,000 - 133,500 lbs. / 54,400 - 60,555 kg. |
| Material To Be Drilled | |
| Medium | Yes |
| Soft | Yes |
| Drill Application | |
| Mining | Yes |
| Drilling Method | |
| Rotary | Yes |
| DHD | Yes |



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Infrastructure - Drilling Solutions

Rotary - T4BH

Select Model:

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The T4BH is a truck-mounted, hydraulic tophead drive multi pass rotary drill specifically designed for production blast hole drilling to depths of 150 ft. (45.7 m) with a 25 ft. (7.6 m) drill pipe change. Nominal hole size is 5-1/8 to 7-7/8 in. (130 to 200 mm) for rotary or DHD drilling methods. Feed pressure generates a bit load force of up to 30,000 lb. (12,610 kg). An angle drilling option is available. All drill functions are controlled from the newly designed operator cab.

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| | | |
|--------------------|-----------------------|--|
| Diameter | Nominal Hole Diameter | 6-9 in. |
| Chassis (Standard) | Carrier | Crane Carrier, Custom, 3 axle, 6X4 |
| Engine | | CAT C10 (305 HP) |
| Engine #1 | Power Pack | Cummins QSX19 (525 HP @ 1800 RPM) |
| Compressor #1 | | IR HR2-900/350 CFM @ PSI / 25 5/2413 m3/min@kPA |
| Engine #2 | | Cummins QSX19 (600 HP @ 1800 RPM) |
| Compressor #2 | | 1050 @ 350 CFM @ PSI / 129.7 @ 2413 m3/min@kPA |
| Engine #3 | | Cummins QSK-19C (700 HP @ 2100 RPM) |
| Compressor #3 | | IR HR2.5 - 1250/350 CFM @ PSI / (35.39 @ 2413) m3/min@kPA |
| Floating Sub Base | | Isolates components from drilling and propel shock loads/maintains alignment |
| Type | Rotation | Rotary Tophead |
| Speed Range | | 0-160 RPM (std) |
| Head Torque | | 6,500 ft-lb. / (8,814 N-m) |
| Option | | 7,165 ft-lb @ 0-130 RPM / 9,716 N-m @ 0-130 RPM |
| Type | Feed System | Hydraulic cylinders w/cable and chain |
| Pulldown | | 0-37,700 lbs. / 17,108 kg. |

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| Pipe Length | Tower 25 ft. / 7.6 m. |
| Construction | 4 member open front with ASTM A500 GRB steel tubing. |
| Operator Cab | Cab & Controls New cab designed to optimize operator comfort and safety |
| Controls | All operational functions controlled from driller console in cab |
| Option #1 | Options Contact your local distributor for a complete list of options. |
| Height (Tower Up) | Weight & Dimensions 28-3/4 ft. / 8.7 m |
| Approx. Working Weight | 58,000 lbs. / 26,309 kg. |
| Hard | Material To Be Drilled Yes |
| Medium | Yes |
| Soft | Yes |
| Mining | Drill Application Yes |
| Quarry | Yes |
| Rotary | Drilling Method Yes |



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DHD - DM-M2

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Designed for rotary or downhole drilling of up to 10-5/8 in. (270 mm) diameter blastholes, the DM-M2 provides 75,000 lb. (34,000 kg) of bit load and a 35 ft. (10 m) drill pipe change. Advanced frame and tower design and a unique, patented carriage feed system allow on-board drill depths to 175 ft. (53 m). Compressor/engine packages in both low-pressure, [1900 CFM @ 110 PSI (51 m³/min. @ 758 kPa)] for rotary drilling and high pressure [1250 CFM @ 350 PSI (35.4 m³/min. @ 2,413 kPa)], for downhole drilling, are available.

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| | |
|-----------------------|---|
| Nominal Hole Diameter | |
| Diameter | 9-11 in. |
| Power Pack | |
| Engine #1 | Caterpillar 3412E / EPA certified |
| Compressor #1 | |
| Engine #2 | 1900 @ 100 CFM @ PSI / 53.8 @ 690 m ³ /min@kPA |
| Compressor #2 | |
| Engine #3 | Cummins QSK19 / EPA certified |
| Compressor #3 | |
| Engine #3 | 1900 @ 100 CFM @ PSI / 53.8 @ 690 m ³ /min@kPA |
| Rotation | |
| Type | Two-motor, variable displacement |
| Speed Range | 0-150 rpm, variable |
| Head Torque | 0-8,640 ft-lbs (0-11,714 Nm) (forward) |
| Feed System | |
| Type | Patented carriage feed |
| Weight on Bit | 0 to 75,000 lb. / 0 to 34,019 kg |
| Tower | |
| Pipe Length | 35 ft. / 10.7 m. |
| Construction | |
| Model | 4 member open front with hollow steel tubing. |
| Undercarriage | |
| Carousel | Caterpillar 330EL or equivalent |
| Size | Holds 2 to 4 drill pipe depending on pipe diameter |

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| Options | |
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| Option #1 | Contact your local IR distributor for a complete list of options. |
| Weight & Dimensions | |
| Height (Tower Up) | 56.2 ft. / 17.1 m |
| Approx. Working Weight | 120,000 - 133,500 lbs. / 54,400 - 60,555 kg. |
| Material To Be Drilled | |
| Medium | Yes |
| Soft | Yes |
| Drill Application | |
| Mining | Yes |
| Drilling Method | |
| Rotary | Yes |
| DHD | Yes |



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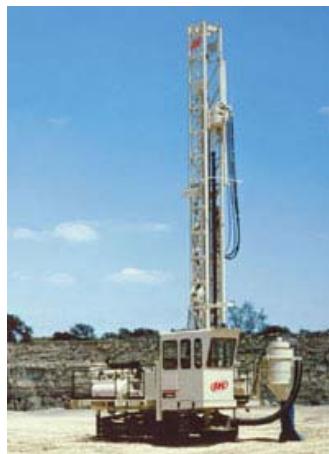
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DHD - DM30

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The DM30 is a hydraulic tophead drive, multi-pass, crawler-mounted drill rig designed for blastholes ranging from 5-1/8 to 6-3/4 in. (130 to 171 mm) in diameter. On-board depth capability is up to 150 ft. (45.7 m). For rotary drilling, the DM30 can assert a bit load force up to 30,000 lb. (13,608 kg) and rotation speeds of 0-130 RPM. This rig can also be used with downhole drills when equipped with a high-pressure air compressor option.

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| | | |
|-------------------|--|---|
| Diameter | Nominal Hole Diameter | 5-6 in. |
| Power Pack | | |
| Engine #1 | Cummins QSX15 (525 HP @ 1800 RPM) | |
| Compressor #1 | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA | |
| Engine #2 | CAT C15 (525 HP @ 1800 RPM) | |
| Compressor #2 | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA | |
| Engine #3 | Cummins QSX15 (425 HP @ 1800 RPM) | |
| Compressor #3 | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA | |
| Engine #4 | CAT C15 (425 HP @ 1800 RPM) | |
| Compressor #4 | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA | |
| Floating Sub Base | Isolates components from drilling and propel shock loads/maintains alignment | |
| Type | Rotation | Rotary Tophead |
| Head Torque | | 5,400 ft-lb. / 7,322 N-m |
| Speed | | 0-100 rpm |
| Type | Feed System | Single cylinder, cable feed |
| Bit Load | | 30,000 lb / (13,608) kg |
| Pipe Length | Tower | 30 ft. / 9.1 m. |
| Construction | | 4 member open front with hollow steel tubing. |

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| | |
|-------------------------------|---|
| Manufacturer | Undercarriage <input type="checkbox"/> Caterpillar |
| Options | Contact your local IR distributor for a complete list of options. |
| Option #1 | |
| Height (Tower Up) | 44.3 ft. / 13.4 m |
| Approx. Working Weight | 68,000 lbs. / 30,844 kg. |
| Material To Be Drilled | |
| Hard | <input type="checkbox"/> Yes |
| Medium | <input type="checkbox"/> Yes |
| Soft | <input type="checkbox"/> Yes |
| Drill Application | |
| Mining | <input type="checkbox"/> Yes |
| Quarry | <input type="checkbox"/> Yes |
| Drilling Method | |
| Rotary | <input type="checkbox"/> Yes |
| DHD | <input type="checkbox"/> Yes |



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DHD - DM25/SP

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- [DM-L/HP](#)
- [DM-M2](#)



The DM25SP is a crawler-mounted rotary table drill rig designed for single-pass blasthole drilling to depths of up to 50 ft. (15.2 m) and diameters of 3-1/2 to 6-3/4 in. (89 to 171 mm). This drill is capable of rotary drilling with 25,000 lb. (11,340 kg) of bit load at 0-200 rpm. The DM25SP can also be used with downhole drills when equipped with a high-pressure air compressor option.

[[SPECS](#)] | [[FEATURES](#)] | [[LITERATURE](#)]

| | |
|-----------------------|---|
| Nominal Hole Diameter | |
| Diameter | 5-6 in. |
| Power Pack | |
| Engine #1 | Cummins QSX15 (525 HP @ 1800 RPM) |
| Compressor #1 | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| Engine #2 | CAT C15 (525 HP @ 1800 RPM) |
| Compressor #2 | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| Engine #3 | Cummins QSX15 (425 HP @ 1800 RPM) |
| Compressor #3 | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| Engine #4 | CAT C15 (425 HP @ 1800 RPM) |
| Compressor #4 | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| Rotation | |
| Type | Rotary Table Drive |
| Speed | 0-170 rpm |
| Torque | 3,500 / (4,746 N-m) |
| Feed System | |
| Type | Heavy-duty chains through cluster sprocket |
| Pulldown | 25,000 lbs. / 11,340 kg. |
| Tower | |
| Construction | 4 main member, open front, rectangular steel tubing |
| #1 Single pass depth | 40 ft. / 12.2 m. |
| #2 Single pass depth | 50 ft. / 15.2 m. |
| Undercarriage | |

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| | |
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| Type | Excavator |
| Option #1 | Contact your local IR distributor for a complete list of options. |
| Weight | Varies according to drill pipe: 60,000 - 62,000 lb / 27,216-28,123 kg |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| Quarry | Yes |
| Rotary | Yes |
| DHD | Yes |



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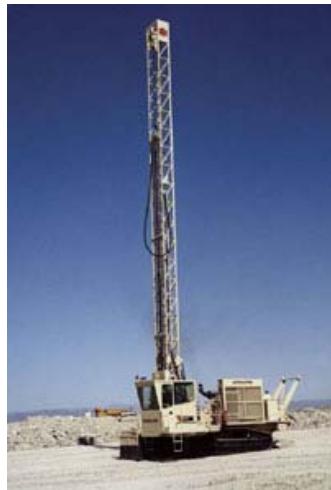
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DHD - DM45/SP

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| | | |
|----------------------|---|---------|
| Diameter | Nominal Hole Diameter | 5-7 in. |
| Power Pack | | |
| Engine #1 | Cummins QSX15 (525 HP @ 1800 RPM) | |
| Compressor #1 | 900/350 CFM @ PSI / 25.5/2413 m3/min@kPA | |
| Engine #2 | CAT C15 (525 HP @ 1800 RPM) | |
| Compressor #2 | 900/350 CFM @ PSI / 25.5/2413 m3/min@kPA | |
| Engine #3 | Cummins QSX15 (600 HP @ 1800 RPM) | |
| Compressor #3 | 1070/350 CFM @ PSI / 30.30/2,413 m3/min@kPA | |
| Engine #4 | CAT C16 (600 HP @ 1800 RPM) | |
| Compressor #4 | 1070/350 CFM @ PSI / 30.30/2413 m3/min@kPA | |
| Rotation | | |
| Type | Rotary table w/kelly drive | |
| Speed | 0-200 rpm | |
| Torque | 4,000 ft-lb / (5,424 N-m) | |
| Feed System | | |
| Type | Chain and cable | |
| Pulldown | 25,000 lbs. / 11,340 kg. | |
| Type | Single Pass | |
| Pipe Length | 50 ft. / 15.2 m. | |
| | 4 member open front with rectangular steel | |

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| | |
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| Construction | tubing |
| Type | Undercarriage |
| | Excavator-type |
| Option #1 | Options |
| | Contact your local IR distributor for a complete list of options. |
| | Weight & Dimensions |
| Height (Tower Up) | 76-1/2 ft. / 23.3 m |
| Approx. Working Weight | 75,000 - 78,000 lbs. / 34,020 - 35,400 kg. |
| | Material To Be Drilled |
| Hard | Yes |
| Medium | Yes |
| | Drill Application |
| Mining | Yes |
| Quarry | Yes |
| | Drilling Method |
| DHD | Yes |



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Infrastructure - Drilling Solutions

Pneumatic Crawler - ECM350

Select Model:

- [LM100A](#)
- [CM348](#)
- [ECM350](#)



This agile, powerful drill climbs steep grades over roughest ground, and takes the punishment. You have seen thousands of them on construction jobs of all kinds around the world. The basic ECM350 design has seen many improvements in its years of service? but every drill produced has set the world standard for reliability and performance in its time. The ECM350 is also a fine quarry drill when teamed with an Ingersoll-Rand air compressor. This high-performance team gets more work done faster, more efficiently, and keeps doing it longer than anything else in its class.

| [SPECS] | [FEATURES] | [LITERATURE] |
|------------------------|-----------------------|--|
| Diameter | Nominal Hole Diameter | 2-1/2 - 5-1/2 in. |
| Drifter #1 | Drifter | VL140 |
| Hole Diameter #1 | | 2.5-4 " / 64-102 mm |
| Rotation Speed #1 | | 0 - 72 rpm |
| Frequency #1 | | 2100 BPM |
| Air Consumption #1 | | 750 SCFM @ 100 PSI / 21.2 m ³ /min @ 7 kg/cm ² |
| Stroke #1 | | 5-1/2 in. / 140 mm. |
| Bore #1 | | 5-1/2 in. / 140 mm. |
| Weight #1 | | 421 lb. / 191 kg. |
| Guide Dump #1 | Guide | 180 ° |
| Guide Swing (L/R) | | 50 deg / 35 deg |
| Boom Swing (L/R) #1 | Boom | 40 ° / 35 ° |
| Boom Lift (Up/Down) #1 | | 45 ° / 15 ° |
| Weight | Air Rotary Head | 554 lb. / 252 kg. |
| Torque Max. | | 1492 Nm @ 8.4 kg/cm ² / (1100 lb-ft @ 120 PSI) |
| Rotation | | 0 - 72 |
| Air Consumption | | 120 CFM @ 50 RPM & 90 PSI / 3.4 m ³ /min @ 50 RPM & 6.3 kg/cm ² |
| Gear Ratio | | 33:1 |
| Horse Power | | 2.23 kw @ 6.3 kg/cm ² (3.0 hp @ 90 psig) / 3.13 kw @ 8.4 kg/cm ² (4.2 hp @ 120 psig) |
| Feed/Pullback Force | General | 3,000 lb / 1,361 kg |

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| Downhole Drills | |
|---|---------------------------------|
| O.D. #1 | 3.62 in. / 92 mm. |
| Length (bit ext.) #1 | 45.7 in. / 1161 mm. |
| Air Consumption @ 10.5 kg/cm? (150 PSIG) #1 | 5.1 m?/min / (180 SCFM) |
| Air Consumption @ 17.6 kg/cm? (250 PSIG) #1 | 9.9 m?/min / (350 SCFM) |
| Drill #2 | DHD350R |
| Hole Diameter #2 | 5-1/8 - 5-1/2 in. / 130-140 mm. |
| Weight (less bit) #2 | 151 lb. / 68.5 kg. |
| O.D. #2 | 4.5 in. / 114 mm. |
| Length (bit ext.) #2 | 54.6 in. / 1388 mm. |
| Air Consumption @ 10.5 kg/cm? (150 PSIG) #2 | 7.9 m?/min / (280 SCFM) |
| Air Consumption @ 17.6 kg/cm? (250 PSIG) #2 | 14.7 m?/min / (520 SCFM) |
| Crawclair Drill Specifications | |
| Net weight | 12,900 lb. / 5851 kg. |
| Overall shipping length | 12 ft. 0 in. / 3645 mm. |
| Width | 8 ft 0 in. / 2438 mm. |
| Height (vertical guide) | 18 ft. 10 in. / 5753 mm. |
| Steel change | 12 ft. / 3645 mm. |
| Drill travel | 14 ft. 3 in. / 4356 mm. |
| Max. horizontal boom swing | 40? left, 35? right |
| Max. vertical boom movement | 45? above, 15? below |
| Max. guide swing | 50? left, 35? right |
| Max guide dump | 180? |
| Ground clearance | 12 in. / 292 mm. |
| Grouser width | 10 in. / 254 mm. |
| Weight & Dimensions | |
| Ground Clearance | 12 " / 292 mm |
| Shipping Width | 96 " / 2438 mm |
| Shipping Length | 144 " / 3645 mm |
| Approx. Working Weight | 12,900 lbs. / 5851 kg. |
| Material To Be Drilled | |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| Drill Application | |
| Mining | Yes |
| Construction | Yes |
| Quarry | Yes |
| Drilling Method | |
| Drifter | Yes |



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Infrastructure - Drilling Solutions

Hydraulic Crawler - ECM-720

Select Model:

- [ECM470](#)
- [ECM580](#)
- [ECM590](#)
- [ECM660II](#)
- [ECM-720](#)



They said it couldn't be done... hey were wrong. The new ECM-720 crawler drill delivers a perfect balance of productivity and cost efficiency. Hole straightness, faster penetration rates, long accessory life, and increased profitability are just a few of the results you can expect with the ECM-720.

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| | | |
|------------------------|-----------------------|--|
| Diameter | Nominal Hole Diameter | 4-1/2 - 5-1/2 in. |
| Type | Drifter | Montabert HC-200A |
| Boom Swing | Boom & Guide | 45 deg right / 20 deg left maximum |
| Vertical Boom Movement | | 50 deg up / 20 deg down maximum |
| Guide Swing | | 20 deg right / 90 deg left maximum |
| Guide Dump | | 135 deg maximum |
| Boom Extension | | 36 in. / 914 mm |
| Guide Extension | | 5 ft / 1,524 mm |
| Overall Guide Length | | 27 ft 6 in / 8.4 m |
| Drifter Travel | | 16 ft. 11 in. / 5.15 m |
| Type | Engine | CAT 3176 C-10 |
| Rated Power | | 365 HP / 272 kW |
| Operating Speed | | 1,800 rpm |
| Type | Compressor | Ingersoll-Rand Rotary Screw |
| Volume | | 480 CFM / 13.6 m ³ /min |
| Pressure | | 150 PSI / 10.3 BAR |
| Operator Cab | Cab & Controls | ROPS/FOPS |
| Noise level | | 80 dBA |
| Gradeability | General | 35 deg (70 percent) ° |
| Tramming Speed | | 2.0 mph / 3.3 km/hr |
| Ground clearance | | 17 in. / 432 mm. |
| Grouser Width | | 13-3/4 in. / 349 mm mm. |
| Rod Changer Capacity | | (6) 12 ft (3.66 m) / (6) 14 ft (4.27 m) opt. |
| Weight | Shipping Information | 45,900 lb / 20,820 kg |

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| | |
|---------------------|-------------------------------|
| Width | 8 ft 3 in / 2.5 m |
| Length | 35 ft 8 in / 10.9 m |
| Height | 10 ft 8 in / 3.3 m |
| | Material To Be Drilled |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| | Drill Application |
| Mining | Yes |
| Construction | Yes |
| Quarry | Yes |
| | Drilling Method |
| Drifter | Yes |



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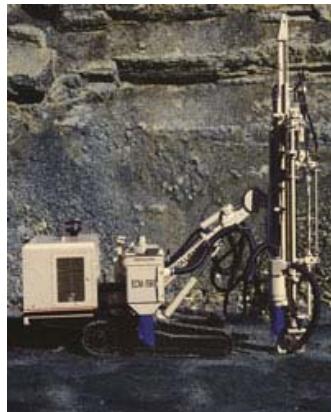


Infrastructure - Drilling Solutions

Hydraulic Crawler - ECM590

Select Model:

- [ECM470](#)
- [ECM580](#)
- [ECM590](#)
- [ECM660II](#)
- [ECM-720](#)



The ECM-590 is a self-contained, cableless hydraulic crawler drill capable of drilling up to 4 in. (102 mm) holes. It is available in either a YH70 drifter and rod rack configuration for smaller hole work, or with a YH80 and rod changer for higher production requirements. An extended guide option for 20 ft. (6.1 m) starter steel is available.

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| Nominal Hole Diameter | |
|-------------------------------|--|
| Diameter | 2-1/2 - 4-1/2 in. |
| Drifter #1 | YH70 |
| Hole Diameter #1 | 2.5-4 " / 64-102 mm |
| Rotation Speed #1 | 0-200 rpm |
| Frequency #1 | 2800 BPM |
| Weight #1 | 419 lb. / 190 kg. |
| Steel Size #1 | T45/T38 |
| Drifter #2 | YH80A |
| Hole Diameter #2 | 2.5-4.5 in. / 64-114 mm. |
| Rotation Speed #2 | 0-200 rpm |
| Frequency #2 | 2600 BPM |
| Weight #2 | 462 lb. / 210 kg. |
| Steel Size #2 | T51/T45 |
| Hydraulic Pressure | 2130 psi / 150 kg/cm? |
| Boom & Guide | |
| Horizontal Boom Swing | 30 deg R / 34.6 deg L |
| Vertical Boom Movement | 51 deg up / 15 deg down |
| Guide Swing | 48 deg R / 40 deg L |
| Guide Dump | 180 deg |
| Boom Extension - YH70 (YH80A) | 48 in (30 in) / 1,219 mm (762 mm) |
| Drifter Travel - YH70 (YH80A) | 15 ft 4 in (14 ft) / 3,099 mm (4,267 mm) |
| Guide Extension | 4 ft / 1,219 mm |
| Overall Guide Length | 23 ft 8 in / 7,214 mm |
| Engine | |
| Type | Cummins 6CT8.3 |
| Rated Power | 215 HP / 159 kW |
| Operating Speed | 2350 rpm |

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| IR Rotary Screw Compressor | |
|---------------------------------|-----------------------------------|
| Compressor pressure(max) | 140 psig / 9.8 kg/cm ² |
| Compressor volume | 250 cfm / 7 m ³ /min |
| Gradeability | General 35 ° |
| Tramming Speed | 2 mph / 3.3 km/hr |
| Grouser Width | 12 in. / 305 mm. |
| Steel length | starter rod 14 ft. / 4.27 m. |
| Weight & Dimensions | |
| Length | 232 9 " / 5918 mm |
| Weight #2 | 24,500 lb. / 11,150 kg. |
| Ground Clearance | 18 " / 457 mm |
| Shipping Width | 95.98 " / 2438 mm |
| Shipping Height | 112 " / 2845 mm |
| Material To Be Drilled | |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| Construction | Drill Application Yes |
| Drifter | Drilling Method Yes |



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Infrastructure - Drilling Solutions

Pneumatic Crawler - LM100A

Select Model:

[LM100A](#)

[CM348](#)

[ECM350](#)



The LM100A is a small class pneumatic Crawlair[?], capable of drilling 1-3/4" to 4- 1/2" (44 - 114 mm) diameter holes. It can be equipped with either of two drifters or a BRH rotary head for downhole drilling. The LM100A is ideal for applications in confined areas where hand-held tools are not enough, and is light enough to transport by helicopter. Like all Ingersoll-Rand crawler drills, the LM100A is "Abuse Resistant". It keeps coming back for more!

[\[SPECS \]](#)

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| | |
|----------------------|---|
| Diameter | Nominal Hole Diameter 1-3/4 - 2-1/2 in. |
| Overall Track Length | Carrier 72 " / 1845 mm |
| Ground Clearance | 9 " / 230 mm |
| Oscillation | 20 ° |
| Air Motors | 4.5 HP |
| Gradeability | 30 ° |
| Tramming Speed | 0-2 mph / 0-3.2 km/hr |
| Type | Ingersoll-Rand YD90 |
| Hole Diameter #1 | 1.75-2.5 " / 44-64 mm |
| Frequency #1 | 1600 BPM |
| Air Consumption #1 | 375 scfm @ 100 psi & 50 rpm / 10.6 m ³ /min @ 7 kg/cm ² & 50 rpm |
| Stroke #1 | 3.4 in. / 85 mm. |
| Bore #1 | 3.5 in. / 90 mm. |
| Steel Size #1 | 10 ft / 3048 mm |
| Drifter #2 | VL120 |
| Hole Diameter #2 | 2 - 3.5 in. / 51 - 89 mm. |
| Frequency #2 | 1900 BPM |
| Air Consumption #2 | 600 SCFM @ 50 RPM & 100 psi / 17 0 m ³ /min @ 50 RPM & 7 kg/cm ² |
| Stroke #2 | 3.62 in. / 92 mm. |
| Bore #2 | 4.75 in. / 120 mm. |
| Steel Size #2 | 10 ft / 3048 mm |
| Guide Dump #1 | Guide 75 ° |
| Guide Swing (L/R) | 45 deg/45 deg |

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| Guide Extension #1 | 29 " / 750 mm |
| Drill Rod Length | 10 ft. / 3 m |
| Feed Motor Pull | 3000 lbs. / 1360 kg. |
| | |
| Boom | |
| Boom Swing (L/R) #1 | 30/35 ° |
| Boom Lift (Up/Down) #1 | 45/30 ° |
| Coverage Length | 107 " / 2720 mm |
| Max. Drill Height (Horizontal) | 99 " / 2510 mm |
| | |
| BRH Rotary Head | |
| Weight | 304 lbs. / 138 kg. |
| Torque Maximum | 700 lb.-ft. / 96.7 kg.-m |
| Rotation Range | 0 - 50 RPM |
| Air Consumption | 120 SCFM @ 50 RPM & 100 psi / 3.39 m ³ /min @ 50 RPM & 7 kg/cm ² |
| Gear Ratio | 20:1 |
| Horse Power @ 100 psi (7 kg/cm) | 4.5 HP / 3.35 kW |
| | |
| Weight & Dimensions | |
| Width | 75 " / 1905 mm |
| Length (Boom @45°) | 195 " / 4950 mm |
| Minimum Height | 44 " / 1120 mm |
| Height (Boom @45°) | 188 " / 4775 mm |
| Hole Size | 1.75-4.5 " / 44-114 mm |
| Weight Less Drifter | 5400 lbs. / 2450 kg. |
| | |
| Material To Be Drilled | |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| | |
| Drill Application | |
| Mining | Yes |
| Construction | Yes |
| Quarry | Yes |
| | |
| Drilling Method | |
| Drifter | Yes |



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GLOSSARY TERMS AND ABBREVIATIONS

| | |
|--------|--|
| AVF | average value factor |
| bhp | brake horsepower |
| CAT | category |
| CENWW | U.S. Army Corps of Engineers, Walla Walla District |
| CMR | cost of money rate |
| cwt | hundredweight |
| D | diesel |
| DC | discount code |
| DEPR | depreciation |
| DT | drive tire |
| E | electricity |
| EAF | economic adjustment factor |
| EK | economic key |
| EP | Engineer Pamphlet |
| ER | Engineer Regulation |
| ETL | Engineer Technical Letter |
| FAR | Federal Acquisition Regulation |
| EFAR | Engineer Federal Acquisition Regulation |
| FCCM | facilities capital cost of money |
| FOG | filters, oil, and grease |
| FT | front tire |
| G | gas |
| G&A | general and administrative |
| gal | gallon |
| GCW | gross combined weight |
| GVW | gross vehicle weight |
| hp | horsepower |
| HPF | horsepower factor |
| hr | hour |
| ID No. | identification number |
| IGE | Independent Government Estimate |
| kW | kilowatt |
| LAF | labor adjustment factor |
| lbs | pounds |
| LIFE | economic life |
| N | number of years |
| PDF | portable document format |
| PTO | power take off |
| RCF | repair cost factor |
| RF | repair factor |
| ROPS | rollover protective structures |

30 Nov 16

| | |
|-------|---------------------------------------|
| RPR | repairs |
| SCR | special contract requirements |
| SLV | salvage value |
| SUB | subcategory |
| TCI | tire cost index |
| TEV | total equipment value |
| TT | trailing tire |
| USACE | United States Army Corps of Engineers |
| WHPY | working hours per year |
| wk | week |
| WLS | water, lube, and supplies |
| yr | year |

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