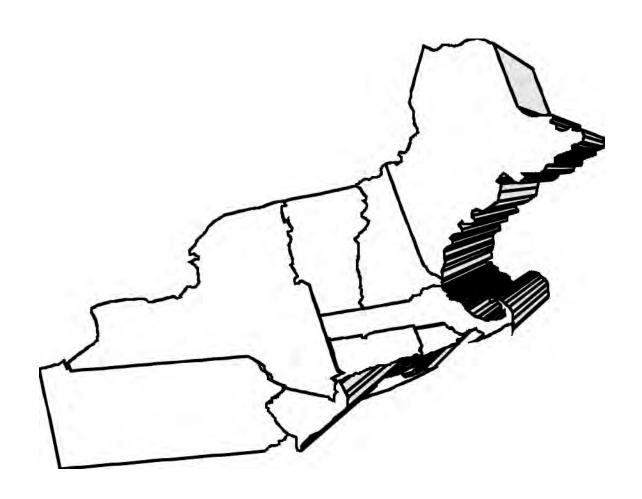
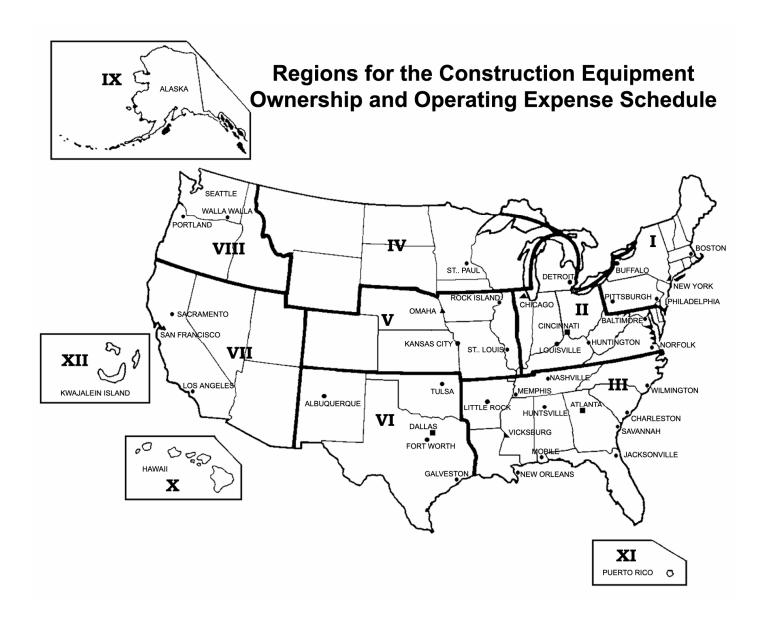


Construction Equipment Ownership and Operating Expense Schedule

Region I







DEPARTMENT OF THE ARMY U.S. Army Corps of Engineers Washington, DC 20314-1000

CECW-EC

Pamphlet No. 1110-1-8

30 April 2014

Engineering and Design CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

- 1. <u>Purpose</u>. 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. <u>Applicability</u>. 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)

ADAM S. ROTH Colonel, EN Chief of Staff EP 1110-1-8 30 Apr 14

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DEPARTMENT OF THE ARMY U.S. Army Corps of Engineers Washington, DC 20314-1000

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CHAPTER 1

Introduction

- 1.1 <u>Use</u>. 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 contractorowned 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 <u>Regions</u>. This pamphlet is published in 12 volumes, each volume uses pricing and factors developed for a specific geographic region. The numbering of the pamphlets volume corresponds to its respective region. A listing of the volumes along with a description of the geographic region is contained in Appendix A.
- 1.3 <u>Decision Flow Process</u>. 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 <u>How to Obtain Assistance</u>. 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 <u>How to Obtain CHECKRATE</u>. A Microsoft Excel® workbook, named "CHECKRATE," has been developed 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/. by selecting "Missions", and selecting "Cost Engineering". Expand the Product Support Section by clicking on the plus sign next to "Construction Equipment Rates (EP 1110-1-8) and CHECKRATE", then follow the link to Download CHECKRATE.

1.6 <u>How to Obtain this Publication</u>. 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". Additional instructions in Appendix A.

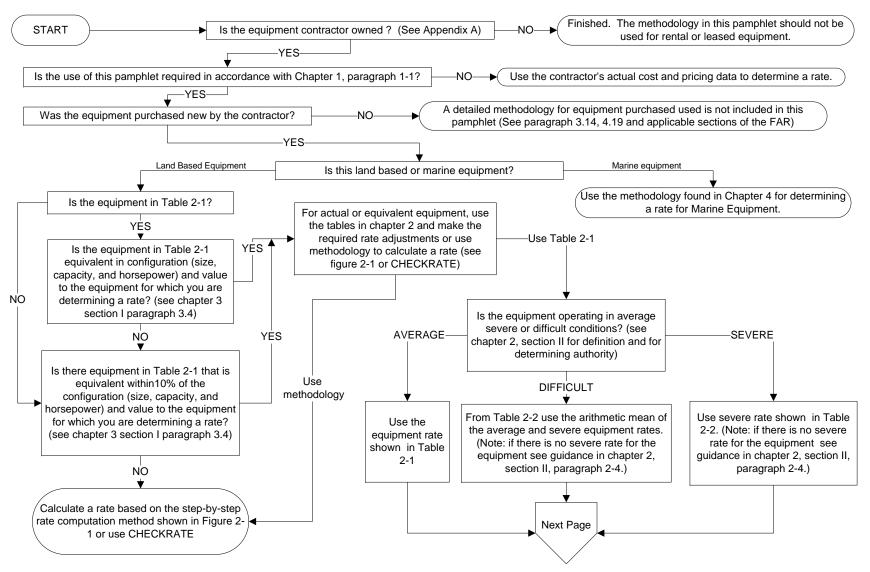


Figure 1-1. Methodology for Developing an Hourly Ownership and Operating Rate for Construction Equipment

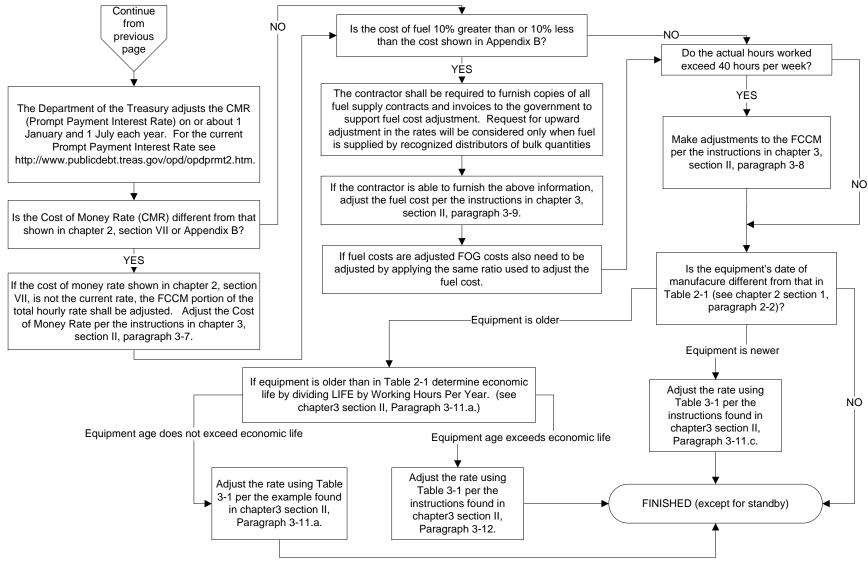


Figure 1-1. Methodology for Developing an Hourly Ownership and Operating Rate for Construction Equipment "f7 cbHL"

CHAPTER 2

Methodology for Construction Equipment

SECTION I. GENERAL

- 2.1 <u>Contents</u>. 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 <u>Basis for Equipment Rates</u>. The hourly rates shown in table 2-1 reflect catalog list prices of equipment manufactured in 2011 (3 years old). List prices for equipment manufactured in years other than 2011 have been adjusted to a 2011 price level using economic indexes. 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 <u>Total Hourly Rate</u>. 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. <u>Operating Cost Elements</u>. 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. <u>Exclusions to Hourly Rates</u>. Total hourly rates for owning and operating equipment <u>do not include</u> 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 <u>Average, Difficult, or Severe Conditions</u>. 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 <u>Determination of Condition</u>. For contract modifications, the contracting officer determines the equipment operating condition to be used. This determination is based on contract specifications, site conditions, basis of any 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.

SECTION III. EQUIPMENT SELECTION

- 2.6 <u>General</u>. 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 <u>Truck Selection</u>. 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 <u>Crawler Tractor Selection</u>. 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 those attachments that are required to perform the work shall be allowed.
- 2.9 <u>Equipment Accessories</u>. Equipment accessories included on the major pieces of equipment in table 2-1 are listed in appendix J.

SECTION IV. EQUIPMENT VALUE

- 2.10 <u>List Price and Accessories</u>. The total list price includes those accessories normally purchased by the contractor plus required safety features.
- 2.11 <u>Discount Code (DC)</u>. 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 <u>Sales or Import Tax</u>. 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 <u>Freight</u>. 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 <u>Total Equipment Value(TEV)</u>. 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 <u>Economic Life (LIFE)</u>. 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 1 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 <u>Salvage Value (SLV)</u>. 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 <u>Salvage Value Percentage</u>. 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:

- 2.20 <u>Depreciation</u>. 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:

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

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 2014 and the year of manufacture is 2011 (3 years old). These indexes 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 January 2014 CMR [2.125 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 a reduction of 25 percent to avoid duplication when applying estimated markups for overhead and profit. The discounted CMR is then 1.70 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 http://www.treasurydirect.gov/govt/rates/tcir/tcir_opdprmt2.htm. The CMR should be adjusted to the actual period that the equipment is used. Expressed by formula, FCCM cost equals the following:

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

Where:

- a. TEV is the total equipment value found in table 2-1.
- b. Average Value Factor (AVF) = [[(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 = 2.125% (Jan Jun 2014 rate) / 1.25 = 1.70%.
 - 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 <u>Fuel Cost</u>. 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:

Fuel Cost/hr = Horsepower (hp) x Fuel Cost/Gallon (gal) x 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. <u>Fuel Factor Gas or Diesel Fuel</u>. 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:

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

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 Fuel Factor-Equipment and Fuel Factor-Carrier, 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

industry wide. Pounds fuel (consumed) per bhp-hr is based on the following averages and is used consistently throughout this pamphlet:

Gasoline = 0.55 lbs per bhp-hr Diesel = 0.34 lbs per bhp-hr

(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:

Gasoline = 6 lbs per gal

Diesel = 7 lbs per gal

d. <u>Fuel Factor - Electricity</u>. 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:

Fuel Factor (kW/hr) = HPF x 1kW per electric hp - hr

- e. <u>Fuel and Electricity Cost</u>. 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 are also shown in appendix B.
- 2.24 <u>Filters, Oil, and Grease(FOG) Cost</u>. 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:

FOG Cost/hr = FOG Factor x Fuel Cost/hr x LAF

Where:

- (1) The FOG Factor is the percent allowance expressed as a decimal factor under each fuel type heading E (electricity), G (gas), or 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 LAF (labor adjustment factor) 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 section 2-20). The estimated hourly rate for repairs is computed as follows:

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

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 year of manufacture tire index by the present-year tire index. For table 2-1, the present year is 2014 and the year of manufacture is 2011 (3 years old). These indexes 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:

$$RF = RCF \times EAF \times LAF$$

Where:

- (5) The RCF (repair cost factor) is shown in appendix D. This factor varies depending on the operating condition of the equipment (average or severe).
- (6) The EAF (economic adjustment factor) is used to adjust the RCF to current price levels. The EAF is equal to the <u>economic index for the present year</u> divided by the <u>economic index for the year of manufacture</u>. Indexes listed in appendix E are used to develop the EAF. Economic indexes are determined as follows:
- (a) Economic Index for the Present Year. This is the economic index for the present year (2014 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 (2011 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 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 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 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 (FT), drive (DT), and trailing (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:

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

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 <u>Tire Repair Cost</u>. 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:

Tire Repair Cost = Total Hourly Tire Wear Cost \times 0.15 \times LAF

SECTION IX. STANDBY HOURLY RATE

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

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

- a. Paid standby shall not exceed 40 hours per week (7 calendar days) (based on a 40 hour workweek) 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 <u>Computation Example</u>. 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).
 - 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 01

1. EQUIPMENT INFORMATION AND EXPENSE FACTORS ID No: C90LB001 a. Equipment Specification Data: Equipment Description: CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 150 TON / 260' BOOM, 8X4 (2)Model and Series: HC-238H II Present Year or Year of Use: (3)2014 (4) Year Manufactured: 2011 (5) Horsepower - Equipment: 200 Horsepower - Carrier: 445 (6) (7) Fuel - Equipment: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; Enter number 6-marine diesel from 0 to 6 ==> D-off - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; Enter number D-on 6-marine diesel from 0 to 6 ==> Shipping Weight (cwt): 1,913 cwt Tire size and number of tires: (Cost of tires based on present year, see 1.a.(3) and App. F): App F Code **Unit Price** Size/Ply No. Cost (a) Front (FT): 14-25/20 ANMB1 4 \$2,327 \$9,308 \$2,327 (b) Drive (DT): 14-25/20 ANMB1 8 \$18,616 (c) Trailing (TT): 0 \$0 \$0 (d) Total Tire Cost: \$27,924 (10) List Price + Accessories: [at Year (yr) of Manufacture] \$1,690,826 OR actual purchase price: USE APPENDIX D TO COMPLETE THE FOLLOWING DATA: C90 b. Category and Subcategory Number: 0.04 c. Hourly Expense Calculation Factors: Economic Key (EK): 20 A AVERAGE (2) Condition (C): A=Average D=Difficult S=Severe Discount Code (DC): $\mathbf{B} = 7.5\%$ (0.075) or $\mathbf{S} = 15.0\%$ (0.15) 0.075 (3)(4) Life in Hours (LIFE): 20,000 Salvage Value Percentage (SLV): 0.20 (5) Fuel Factor - Equipment [Electric (E) Gas (G) Diesel (D)]: 0.024 Fuel Factor - Carrier (E G D): 0.005 Filter, Oil, and Grease (FOG) Factor (E G D): (8) 0.110 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

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3.

4.

2. EQUIPMENT VALUE

| a. | List F | Price + Accessories: [a | t Year (yr) of Manu | facture] | | | | = \$1,690,826 |
|-------------------|-------------------------------------|--|---|--|-----------------------------|---|---------|--|
| | (1) | Discount: | (List Price {1.a.(10)} | | , | Discount Cod {1.c.(3)} | е | |
| | | | <u>(\$1,690,826</u> | + \$0.0 | <u>)(0)</u> x | 0.075 | | = - [\$126,812] |
| | (2) | Subtotal {2.a.} - {2.a.(1) | } | | | | Subtota | al = \$1,564,014 |
| | (3) | Sales or Import Tax: | Subtotal {2.a.(2)} | х | | Tax Rate {'Appendix B} | | |
| | | | <u>\$1,564,014</u> | х | | 6.00% | | = \$93,841 |
| | (4) | Total Discounted Price: | Subtotal: 2.a.(2) + | · 2.a.(3) | | | Subtota | al = <u>\$1,657,855</u> |
| | | | | | Fr | eight Rate pe | er | |
| b. | Freig | ght: | Shipping Weight | х | | cwt | | |
| | | | {1.a.(8)} 1,913 cwt | x | | {Appendix B} \$11.41 /cwt | | = \$21,827 |
| | | | <u> </u> | | | *************************************** | | |
| | | | | | | | | |
| | | | | | | | | |
| c. | | AL EQUIPMENT VALU {2.a.(4)} + {2.b} OR actu | E (TEV): al purchase price {1a.(| 10)} | | TOTAL [2.]: | | = \$1,679,682 |
| C. | + | | al purchase price {1a.(| | ts.) | TOTAL [2.]: | | = \$1,679,682 |
| | (See | {2.a.(4)} + {2.b} OR actu | al purchase price {1a.(| | ts.) | TOTAL [2.]: | | = \$1,679,682 |
| | (See | {2.a.(4)} + {2.b} OR actu chapter 3 for used and ov CIATION PERIOD (N) LIFE | al purchase price {1a.(| adjustmen | ear (WHP | | | = \$1,679,682 |
| . <u>DE</u> | (See | {2.a.(4)} + {2.b} OR actu chapter 3 for used and ov CIATION PERIOD (N) LIFE {1.c.(4)} | al purchase price {1a.(erage equipment rate / Working H | e adjustmen ours Per Y {Appen | ear (WHF | | | |
| . <u>Di</u> a. | (See | {2.a.(4)} + {2.b} OR actu chapter 3 for used and ov CIATION PERIOD (N) LIFE {1.c.(4)} 20,000 hr | al purchase price {1a.(erage equipment rate | adjustmen | ear (WHF | | | = \$1,679,682 = 14.71 yrs (N) |
| . <u>Di</u> a. | (See | {2.a.(4)} + {2.b} OR actu chapter 3 for used and ov CIATION PERIOD (N) LIFE {1.c.(4)} | al purchase price {1a.(erage equipment rate / Working H | e adjustmen ours Per Y {Appen | ear (WHF | | | |
| . <u>DE</u> a. | (See | {2.a.(4)} + {2.b} OR actu chapter 3 for used and ov CIATION PERIOD (N) LIFE {1.c.(4)} 20,000 hr | al purchase price {1a.(erage equipment rate / Working H | e adjustmen ours Per Y {Appen | ear (WHF | | | |
| . <u>DE</u> a. | (See EPRE | {2.a.(4)} + {2.b} OR actu chapter 3 for used and ov CIATION PERIOD (N) LIFE {1.c.(4)} 20,000 hr | al purchase price {1a.(erage equipment rate / Working H | e adjustmen ours Per Y {Appen | ear (WHF | | | |
| . <u>DE</u> a. | (See EPRE | {2.a.(4)} + {2.b} OR actural chapter 3 for used and over the content of the chapter 3 for used and over the chapter 3 for used | al purchase price {1a.(erage equipment rate / Working H / | ours Per Y {Appen 1,360 | ear (WHF | | | = 14.71 yrs (N) |
| . <u>DE</u> a. | (See EPRE | (2.a.(4)) + (2.b) OR acture chapter 3 for used and over the content of the chapter 3 for used and over the chapter 3 for used and over the chapter 3 for used and over the chapter 3 for used and content of the chapter 3 for | al purchase price {1a.(erage equipment rate / Working H / Tire Index, Prese Year or Year of | ours Per Y {Appen 1,360 | ear (WHF | | | = 14.71 yrs (N) |
| . <u>DE</u> a. | (See EPRE | (2.a.(4)) + (2.b) OR acture chapter 3 for used and over the content of the chapter 3 for used and over the chapter 3 for used and chapter 3 for used 3 for used and chapter 3 for used 3 f | al purchase price {1a.(erage equipment rate / Working H / Tire Index, Prese Year or Year of / Use, {1.a.(3)} Appendix E, EK=100 | ours Per Y {Appen 1,360 | ear (WHF | | | = 14.71 yrs (N) Tire Cost Index (TCI) |
| . <u>DE</u> a. | (See EPRE | (2.a.(4)) + (2.b) OR acture chapter 3 for used and over the content of the chapter 3 for used and over the chapter 3 for used | al purchase price {1a.(erage equipment rate / Working H / Tire Index, Prese Year or Year of / Use, {1.a.(3)} | ours Per Y {Appen 1,360 | ear (WHF | | | = 14.71 yrs (N) |
| . <u>DE</u> a. | (See EPRE | (2.a.(4)) + (2.b) OR acture chapter 3 for used and over the content of the chapter 3 for used and over the chapter 3 for used | al purchase price {1a.(erage equipment rate / Working H / Tire Index, Prese Year or Year of / Use, {1.a.(3)} Appendix E, EK=100 / 4050 x (1.0-SLV) | e adjustmen ours Per Y {Appen 1,360 | ear (WHF dix B) hr/yr | Y) = N Tire Cost)] | / LIFE | = 14.71 yrs (N) Tire Cost Index (TCI) |
| . <u>DE</u> a. | (See EPRE MNEF Depr (1) | {2.a.(4)} + {2.b} OR acture chapter 3 for used and over the content of the chapter 3 for used and over the chapter 3 for used | al purchase price {1a.(erage equipment rate / Working H / Tire Index, Prese Year or Year of / Use, {1.a.(3)} Appendix E, EK=100 / 4050 | e adjustmen ours Per Y {Appen 1,360 | ear (WHF dix B) hr/yr | Y) = N | | = 14.71 yrs (N) Tire Cost Index (TCI) |

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

Region 01

4. OWNERSHIP COST (Continued)

b. Facilities Capital Cost of Money (FCCM):

| | | | | | | | | | Avg Value |
|-----|-------------------|---|--------------|---|---------------|---|------------------|---|-------------|
| (1) | [(N - 1.0) | Х | (1.0 + SLV) | + | 2.0] | / | (2.0 x N) | = | Factor |
| | {3.a.} | | {1.c.5.} | | | | {3.a.} | | (AVF) |
| | [(14.71 yr - 1.0) | Х | (1.0 + 0.20) | + | 2.0] | / | (2.0 x 14.71 yr) | = | 0.627 |
| | | | | | | | | | |
| | | | | | Adjusted | | | | |
| (2) | TEV | Х | AVF | х | Cost-of-Money | / | WHPY | | |
| ` , | {2.c.} | | {4.b.(1)} | | {Appendix B} | | {Appendix B} | | |
| | \$1,679,682 | Х | 0.627 | х | 1.70% | / | 1,360 hr/yr | = | \$13.16 /hr |
| | | | | | | | | _ | |

c. Total Hourly ownership cost: $\{4.a.(2)\} + \{4.b.(2)\}$

TOTAL [4.]: = \$78.99 /hr

5. OPERATING COST

- a. Fuel Costs:
 - (1) Equipment:

| Fuel Factor {1.c.(6)} 0.024 | . х х | Horsepower (hp) {1.a.(5)} 200 hp | x x | Fuel Cost per Gallon (gal) {Appendix B} \$3.66 /gal = \$17.57 /hr |
|--|----------|--|--------|---|
| (2) Carrier: { 1.c.(4)} | | | | |
| Fuel Factor {1.c.(7)} | x | Horse power (hp) {1.a.(6)} | х | Fuel Cost per gal {Appendix B} |
| <u>0.005</u> | Х | <u>445 hp</u> | X | \$4.19 /gal = \$9.32 /hr |
| (3) Total Hourly Fuel {5.a (1)} + {5.a (2)} | | | | Total [5.a.] = \$26.89 /hr |

- b. FOG Cost:
 - (1) Equipment:

| | | Equipment Hourly | | Labor Adjustment |
|--------------|---|-------------------------|---|--------------------|
| FOG Factor | Х | Fuel Cost | Х | Factor (LAF) |
| {1.c.(8)} | | {5.a.(1)} | | {Appendix B} |
| <u>0.110</u> | X | <u>\$17.57 /hr</u> | Х | 1.15 = \$2.22 / hr |

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

Region 01

5. OPERATING COST (Continued)

| | (2) | Carrier: | _ | Carrior Hourly | | | | | | | | |
|----|------|--|-------------|-----------------------------|--------|--|----------|-----------|---|--------------|--------------|-------------|
| | | FOG Factor | х | Carrier Hourly Fuel Cost | х | LAF | | | | | | |
| | | {1.c.(8)} | | {5.a.(2)} | | {Appendix B} | | | | | | ¢4.40 /h |
| | | <u>0.110</u> | Х | \$9.32 /hr | Х | <u>1.15</u> | | | | | = | \$1.18 /hr |
| | | | | | | | | | | | | |
| | (3) | Total Hourly FOG C {5.b.(1)} + {5.b.(2)} | ost: | | | | | | | Total [5.b.] | = | \$3.40 /hr |
| c. | Alte | ernative Fuel/FOG Co (See chapter 2, paragrap | | or guidance on w | hen to | use.) | | | | Total [5.c.] | = | \$0.00 hr |
| | | | | | | | | | | | | |
| d. | Rep | pair Cost: | | | | | | | | | | |
| | (1) | Economic Adjustme EK is from {1c. (1)} | nt Facto | r (EAF): | | | | | | | | |
| | | Economic Index, Pr Use, Appendix E | 1.a.(3)} | | f / | Economic Inc Manufacture Appendix E, E | e, {1 | .a.(4)} | | | | |
| | | <u>736</u> | <u>88</u> | | / | <u>7031</u> | <u>1</u> | | | | = | 1.048 |
| | | (See table 3-1 for last year | ar of econo | omic life.) | | | | | | | | |
| | (2) | Repair Factor (RF): | | | | | | | | | | |
| | | RCF {1.c.(10)} | x | EAF {5.d.(1)} | x | LAF {Appendix B} | | | | | | |
| | | 0.90 | х | 1.048 | х | 1.15 | | | | | = | 1.085 |
| | | <u>0.00</u> | • | 1.10 1.0 | - | <u></u> | | | | | | |
| | (3) | Repair Cost: | | | | | | | | | | |
| | | [TEV | _ | (TCI | х | Tire Cost)] | х | RF | / | LIFE | | |
| | | {2.c.} | | (101 {4.a.(1)} | ^ | {1.a.(9)(d)} | ^ | {5.d.(2)} | , | {1.c.(4)} | | |
| | | [\$1,679,682 | - | (0.970 | х | \$27,924)] | х | 1.085 | / | 20,000 | | |
| | (4) | Total Hourly Repair | Cost: | | | | | | | Total [5.d.] | l = <u> </u> | \$89.65 /hr |

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

Region 01

5. **OPERATING COST** (Continued)

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

(1) Front Tires (FT):

(2) Drive Tires (DT):

(3) Trailing Tires (TT):

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

f. Tire Repair Cost:

Total Tire Wear Cost

 $\begin{array}{lll} & \text{per Hour} & \text{x} & (0.15 \text{ x LAF}) \\ & \{5.e.(4)\} & & \{\text{Appendix B}\} \\ & \$15.40 \ / \text{hr} & \text{x} & (0.15 \text{ x 1.15}) \end{array}$

Total [5.f.] = \$2.66 /hr

g. TOTAL HOURLY OPERATING COST:

Sum {5.a.} through{ 5.f.}

Total [5.] = \$138.00 /hr

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

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6. HOURLY RATES

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

$$\begin{array}{cccc} \text{Ownership Cost} & \textbf{+} & \text{Operating Cost} \\ & & & & & \{\text{5.g.}\} \end{array}$$

= \$216.99 /hr

b. Other Work Shifts Hourly Rate:

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

= \$212.60 /hr

c. Standby Hourly Rate:

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

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

= \$46.08 /hr

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 2011.

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

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|----|----------|-------------|---|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|----|
| AT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CW |
| 10 | AGGRE | GATE / CHII | P SPREADERS | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | SELF-PROPELLED | | | | | | | | | | |
| | | ROSCO | O, A LeeBoy COMPANY | | | | | | | | | | |
| | A10RS003 | SPRH | CHIP SPREADER, SELF PROPELLED, 10' WIDE, 1.70 CY, 2WD | 152 HP | D-off | | \$121,380 | 48.32 | 6.89 | 11.75 | 1.01 | 18.91 | 14 |
| | A10RS004 | SPRH | CHIP SPREADER, SELF PROPELLED, 11' WIDE, 1.80 CY, 2WD | 152 HP | D-off | | \$122,151 | 48.50 | 6.94 | 11.83 | 1.02 | 18.91 | 15 |
| | A10RS005 | SPRH | CHIP SPREADER, SELF PROPELLED, 12' WIDE, 2.03 CY, 2WD | 152 HP | D-off | | \$122,729 | 48.62 | 6.96 | 11.88 | 1.02 | 18.91 | 1! |
| | A10RS006 | SPRH | CHIP SPREADER, SELF PROPELLED, 13' WIDE, 2.28 CY, 2WD | 152 HP | D-off | | \$123,018 | 48.69 | 6.99 | 11.91 | 1.03 | 18.91 | 1! |
| | A10RS007 | SPRH | CHIP SPREADER, SELF PROPELLED, 15' WIDE, 2.53 CY, 2WD | 152 HP | D-off | | \$124,463 | 49.01 | 7.07 | 12.06 | 1.04 | 18.91 | 15 |
| | A10RS008 | SPREADPRO | CHIP SPREADER, SELF PROPELLED, 16' WIDE, 4.50 CY, 4WD | 205 HP | D-off | | \$240,052 | 82.20 | 13.75 | 23.49 | 2.00 | 25.51 | 15 |
| | SUBCAT | EGORY 0.20 | TOWED & TAILGATE | | | | | | | | | | |
| | | AMERICA | N ROAD MACHINERY, INC. | | | | | | | | | | |
| | A10AR001 | TG-505C | CHIP SPREADER, TAILGATE, 8' WIDE (ADD DUMP TRUCK) | | | | \$3,389 | 0.89 | 0.26 | 0.45 | 0.03 | 0.00 | |
| | A10AR002 | ODELL 900 | CHIP SPREADER, TOWED, 8' WIDE, 3 CY (ADD DUMP TRUCK) | | | | \$16,427 | 4.54 | 1.24 | 2.19 | 0.14 | 0.00 | 4 |
| | | s | EALMASTER, INC. | | | | | | | | | | |
| | A10SE001 | R-1 E2310 | CHIP SPREADER, TAILGATE, 8' WIDE, 1.13 CY (ADD DUMP TRUCK) | | | | \$12,987 | 3.43 | 0.98 | 1.73 | 0.11 | 0.00 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | ADJUSTABLE ELEMENTS | | | |
|-----|----------|---------------|---|--------|-------|--------------------|----------------|---------|---------|------------------------|------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| A10 | | | SEALMASTER, INC. (continued) | | | | | | | | | | |
| | A10SE002 | R-1 E2500 | CHIP SPREADER, TOWED, 8' WIDE, 1.13 CY (ADD DUMP TRUCK) | | | | \$15,285 | 4.04 | 1.15 | 2.04 | 0.13 | 0.00 | 30 |
| A15 | AIR CO | MPRESSORS | S, PORTABLE | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | ROTARY SCREW | | | | | | | | | | |
| | | DOOSA | N PORTABLE POWER | | | | | | | | | | |
| | A15DP001 | P185WJD | AIR COMPRESSOR, 185 CFM, 100 PSI (ADD HOSE) | 56 HP | D-off | | \$21,317 | 12.31 | 1.00 | 1.66 | 0.17 | 7.38 | 21 |
| | A15DP002 | HP375WJD | AIR COMPRESSOR, 375 CFM, 150 PSI (ADD HOSE) | 110 HP | D-off | | \$46,147 | 24.91 | 2.20 | 3.64 | 0.38 | 14.49 | 38 |
| | A15DP003 | VHP400WJD | AIR COMPRESSOR, 400 CFM, 200 PSI (ADD HOSE) | 174 HP | D-off | | \$60,895 | 37.22 | 2.90 | 4.80 | 0.50 | 22.93 | 53 |
| | A15DP004 | HP450WJD | AIR COMPRESSOR, 450 CFM, 150 PSI (ADD HOSE) | 174 HP | D-off | | \$60,895 | 37.22 | 2.90 | 4.80 | 0.50 | 22.93 | 53 |
| | A15DP010 | XHP1070WCAT | AIR COMPRESSOR, 1,070 CFM, 350 PSI (ADD HOSE) | 400 HP | D-off | | \$191,133 | 94.84 | 9.13 | 15.14 | 1.56 | 52.70 | 152 |
| | A15DP011 | XP535WCU | AIR COMPRESSOR, 535 CFM, 125 PSI (ADD HOSE) | 173 HP | D-off | | \$80,754 | 40.65 | 3.87 | 6.41 | 0.66 | 22.79 | 53 |
| | A15DP012 | HP750WCU-T4I | AIR COMPRESSOR, 750 CFM, 150 PSI (ADD HOSE) | 270 HP | D-off | | \$124,316 | 63.19 | 5.94 | 9.83 | 1.02 | 35.58 | 87 |
| | A15DP013 | XP825WCU-T4I | AIR COMPRESSOR, 825 CFM, 125 PSI (ADD HOSE) | 270 HP | D-off | | \$124,316 | 63.19 | 5.94 | 9.83 | 1.02 | 35.58 | 87 |
| | A15DP014 | XP1000WCU-T4I | AIR COMPRESSOR, 1,000 CFM, 125 PSI (ADD HOSE) | 305 HP | D-off | | \$206,955 | 83.55 | 9.86 | 16.34 | 1.69 | 40.19 | 104 |
| | A15DP015 | HP915WCU-T4I | AIR COMPRESSOR, 915 CFM, 150 PSI (ADD HOSE) | 305 HP | D-off | | \$103,547 | 64.64 | 4.94 | 8.17 | 0.85 | 40.19 | 104 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | IORSEPOWER JEL TYPE | VALUE (TEV) | TOTAL H RATES | | ı | JUSTAB LEMENT | | |
|-----|----------|--------------------------|--|------------|------------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | SUL | LAIR CORPORATION | | | | | | | | | |
| | A15SR006 | 125DPQJD | AIR COMPRESSOR, 125 CFM, 100 PSI (ADD HOSE) | 76 HP D-0 | ff | \$13,486 | 13.87 | 0.63 | 1.03 | 0.11 | 10.01 | 24 |
| | A15SR007 | 130DPQJD | AIR COMPRESSOR, 130 CFM, 100 PSI (ADD HOSE) | 77 HP D-0 | ff | \$13,525 | 14.05 | 0.63 | 1.04 | 0.11 | 10.15 | 26 |
| | A15SR004 | 185 | AIR COMPRESSOR, 185 CFM, 100 PSI (ADD HOSE) | 78 HP D-0 | ff | \$13,486 | 14.17 | 0.63 | 1.03 | 0.11 | 10.28 | 24 |
| | A15SR005 | 260 | AIR COMPRESSOR, 260 CFM, 100 PSI (ADD HOSE) | 80 HP D-0 | ff | \$18,059 | 15.31 | 0.85 | 1.40 | 0.15 | 10.54 | 26 |
| | A15SR008 | 375HDPQJD | AIR COMPRESSOR, 375 CFM, 150 PSI (ADD HOSE) | 123 HP D-0 | ff | \$30,779 | 24.09 | 1.45 | 2.39 | 0.25 | 16.21 | 42 |
| | A15SR009 | 425DPQJD | AIR COMPRESSOR, 425 CFM, 100 PSI (ADD HOSE) | 124 HP D-0 | ff | \$30,778 | 24.24 | 1.45 | 2.39 | 0.25 | 16.34 | 42 |
| | A15SR010 | 600HDTQCA | AIR COMPRESSOR, 600 CFM, 150 PSI (ADD HOSE) | 230 HP D-0 | ff | \$66,218 | 46.62 | 3.11 | 5.14 | 0.54 | 30.30 | 100 |
| | A15SR011 | 750HHDTQCA | AIR COMPRESSOR, 750 CFM, 175 PSI (ADD HOSE) | 300 HP D-0 | ff | \$77,827 | 59.23 | 3.68 | 6.07 | 0.64 | 39.53 | 103 |
| | A15SR002 | 900XH | AIR COMPRESSOR, 900 CFM, 350 PSI (ADD HOSE) | 440 HP D-0 | ff | \$158,139 | 94.88 | 7.50 | 12.42 | 1.29 | 57.97 | 157 |
| | A15SR012 | 1050DTQCA | AIR COMPRESSOR, 1,050 CFM, 100 PSI (ADD HOSE) | 300 HP D-0 | ff | \$76,640 | 59.02 | 3.62 | 5.98 | 0.63 | 39.53 | 105 |
| | A15SR013 | 1300HDTQCA | AIR COMPRESSOR, 1,300 CFM, 150 PSI (ADD HOSE) | 450 HP D-0 | ff | \$135,566 | 92.21 | 6.46 | 10.69 | 1.11 | 59.29 | 156 |
| | A15SR014 | 1600HDTQCA | AIR COMPRESSOR, 1,600 CFM, 100 PSI (ADD HOSE) | 450 HP D-0 | ff | \$148,339 | 94.68 | 6.98 | 11.54 | 1.21 | 59.29 | 162 |
| | | NO SPECIFIC MANUFACTURER | | | | | | | | | | |
| | A15XX019 | 85G | AIR COMPRESSOR, 85 CFM, 100 PSI (ADD HOSE) | 30 HP G | | \$11,605 | 11.04 | 0.53 | 0.88 | 0.09 | 7.69 | 14 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------|---|--------------|--------------------|----------------|---------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| A15 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | |
| | A15XX020 | 85D | AIR COMPRESSOR, 85 CFM, 100 PSI (ADD HOSE) | 30 HP D-off | | \$22,176 | 8.57 | 1.05 | 1.73 | 0.18 | 3.95 | 24 |
| | A15XX021 | 100G | AIR COMPRESSOR, 100 CFM, 100 PSI (ADD HOSE) | 50 HP G | | \$15,442 | 17.68 | 0.73 | 1.19 | 0.13 | 12.82 | 17 |
| | A15XX022 | 100D | AIR COMPRESSOR, 100 CFM, 125 PSI (ADD HOSE) | 35 HP D-off | | \$22,697 | 9.42 | 1.08 | 1.77 | 0.19 | 4.61 | 17 |
| | A15XX023 | 125G | AIR COMPRESSOR, 125 CFM, 100 PSI (ADD HOSE) | 65 HP G | | \$16,254 | 22.25 | 0.76 | 1.25 | 0.13 | 16.66 | 20 |
| | A15XX024 | 130 | AIR COMPRESSOR, 130 CFM, 100 PSI (ADD HOSE) | 50 HP D-off | | \$25,550 | 12.19 | 1.21 | 2.00 | 0.21 | 6.59 | 18 |
| | A15XX025 | 160G | AIR COMPRESSOR, 160 CFM, 125 PSI (ADD HOSE) | 60 HP G | | \$17,762 | 21.06 | 0.84 | 1.37 | 0.15 | 15.38 | 23 |
| | A15XX026 | 175D | AIR COMPRESSOR, 175 CFM, 100 PSI (ADD HOSE) | 70 HP D-off | | \$28,623 | 15.73 | 1.35 | 2.24 | 0.23 | 9.22 | 27 |
| | A15XX027 | 175G | AIR COMPRESSOR, 175 CFM, 125 PSI (ADD HOSE) | 90 HP G | | \$18,470 | 30.07 | 0.87 | 1.43 | 0.15 | 23.07 | 24 |
| | A15XX028 | 185D | AIR COMPRESSOR, 185 CFM, 100 PSI (ADD HOSE) | 80 HP D-off | | \$29,287 | 17.36 | 1.39 | 2.30 | 0.24 | 10.54 | 24 |
| | A15XX029 | 185G | AIR COMPRESSOR, 185 CFM, 125 PSI (ADD HOSE) | 70 HP G | | \$19,966 | 24.42 | 0.94 | 1.55 | 0.16 | 17.95 | 23 |
| | A15XX030 | 250 | AIR COMPRESSOR, 250 CFM, 100 PSI (ADD HOSE) | 85 HP D-off | | \$38,750 | 19.83 | 1.85 | 3.05 | 0.32 | 11.20 | 31 |
| | A15XX031 | 300 | AIR COMPRESSOR, 300 CFM, 125 PSI (ADD HOSE) | 110 HP D-off | | \$56,537 | 26.81 | 2.70 | 4.48 | 0.46 | 14.49 | 37 |
| | A15XX032 | 375 | AIR COMPRESSOR, 375 CFM, 125 PSI (ADD HOSE) | 115 HP D-off | | \$51,598 | 26.68 | 2.45 | 4.05 | 0.42 | 15.15 | 37 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| A15 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | A15XX033 | 450 | AIR COMPRESSOR, 450 CFM, 125 PSI (ADD HOSE) | 170 HP | D-off | | \$68,957 | 38.14 | 3.24 | 5.36 | 0.56 | 22.40 | 89 |
| | A15XX034 | 600 | AIR COMPRESSOR, 600 CFM, 150 PSI (ADD HOSE) | 250 HP | D-off | | \$95,585 | 54.97 | 4.53 | 7.49 | 0.78 | 32.94 | 99 |
| | A15XX035 | 750 | AIR COMPRESSOR, 750 CFM, 125 PSI (ADD HOSE) | 275 HP | D-off | | \$101,767 | 59.84 | 4.83 | 7.99 | 0.83 | 36.23 | 93 |
| | A15XX036 | 825 | AIR COMPRESSOR, 825 CFM, 125 PSI (ADD HOSE) | 275 HP | D-off | | \$109,634 | 61.28 | 5.21 | 8.62 | 0.90 | 36.23 | 104 |
| | A15XX037 | 900 | AIR COMPRESSOR, 900 CFM, 125 PSI (ADD HOSE) | 310 HP | D-off | | \$117,149 | 67.90 | 5.57 | 9.22 | 0.96 | 40.85 | 93 |
| | A15XX038 | 1200 | AIR COMPRESSOR, 1,200 CFM, 125 PSI (ADD HOSE) | 360 HP | D-off | | \$177,832 | 86.42 | 8.49 | 14.07 | 1.45 | 47.43 | 150 |
| | A15XX039 | 1300 | AIR COMPRESSOR, 1,400 CFM, 150 PSI (ADD HOSE) | 460 HP | D-off | | \$186,153 | 102.98 | 8.86 | 14.67 | 1.52 | 60.61 | 180 |
| | A15XX040 | 1600 | AIR COMPRESSOR, 1,600 CFM, 150 PSI (ADD HOSE) | 500 HP | D-off | | \$200,364 | 111.57 | 9.55 | 15.81 | 1.64 | 65.88 | 151 |
| | SUBCAT | EGORY 0.20 | SHOP TYPE | | | | | | | | | | |
| ı | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | A15XX041 | 60/5 | AIR COMPRESSOR, 21 CFM, 60 GAL (ADD HOSE) | 5 HP | E | | \$3,807 | 1.33 | 0.17 | 0.27 | 0.03 | 0.50 | 3 |
| | A15XX042 | 60/7.5 | AIR COMPRESSOR, 26 CFM, 60 GAL (ADD HOSE) | 7 HP | E | | \$4,932 | 1.79 | 0.22 | 0.35 | 0.04 | 0.69 | 3 |
| | A15XX043 | 120/10 | AIR COMPRESSOR, 41 CFM, 120 GAL (ADD HOSE) | 10 HP | E | | \$5,889 | 2.40 | 0.26 | 0.42 | 0.05 | 0.99 | 4 |
| | A15XX044 | 120/15 | AIR COMPRESSOR, 58 CFM, 120 GAL (ADD HOSE) | 15 HP | E | | \$6,920 | 3.32 | 0.30 | 0.49 | 0.05 | 1.49 | 4 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| A15 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | |
| | A15XX045 | 120/25 | AIR COMPRESSOR, 108 CFM, 120 GAL (ADD HOSE) | 25 HP E | | \$12,263 | 5.64 | 0.54 | 0.87 | 0.10 | 2.48 | 4 |
| | A15XX046 | 120/30 | AIR COMPRESSOR, 130 CFM, 120 GAL (ADD HOSE) | 30 HP E | | \$13,782 | 6.63 | 0.60 | 0.98 | 0.11 | 2.97 | 5 |
| A20 | AIR HO | SE, TOOLS | & EQUIPMENT | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | AIR DRILL HOSE | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | A20XX001 | | AIR HOSE, 0.75", 100', 18 MB AIR DRILL | | | \$1,702 | 1.39 | 0.25 | 0.46 | 0.02 | 0.00 | 1 |
| | A20XX002 | | AIR HOSE, 1.00", 100', 18 MB AIR DRILL | | | \$1,973 | 1.62 | 0.29 | 0.54 | 0.02 | 0.00 | 1 |
| | A20XX003 | | AIR HOSE, 1.25", 100', 18 MB AIR DRILL | | | \$2,448 | 1.99 | 0.35 | 0.66 | 0.02 | 0.00 | 1 |
| | A20XX004 | | AIR HOSE, 1.50", 100', 18 MB AIR DRILL | | | \$3,196 | 2.62 | 0.47 | 0.87 | 0.03 | 0.00 | 1 |
| | A20XX005 | | AIR HOSE, 2.00", 100', 18 MB AIR DRILL | | | \$4,537 | 3.71 | 0.66 | 1.23 | 0.04 | 0.00 | 2 |
| | A20XX006 | | AIR HOSE, 2.50", 100', HARDROCK | | | \$5,533 | 4.52 | 0.80 | 1.50 | 0.05 | 0.00 | 3 |
| 1 | A20XX007 | | AIR HOSE, 3.00", 100', HARDROCK | | | \$6,710 | 5.48 | 0.97 | 1.82 | 0.06 | 0.00 | 4 |
| | A20XX008 | | AIR HOSE, 4.00", 100', HARDROCK | | | \$8,945 | 7.31 | 1.30 | 2.43 | 0.08 | 0.00 | 5 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | _ | ORSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------|--|-------------|----------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | SUBCATI | EGORY 0.20 | SANDBLAST HOSE | | | | | | | | | |
| | | CLEMCO IN | IDUSTRIES CORPORATION | | | | | | | | | |
| | A20CM017 | | SANDBLAST HOSE, 0.75"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | \$470 | 0.41 | 0.07 | 0.13 | 0.00 | 0.00 | 1 |
| | A20CM018 | | SANDBLAST HOSE, 1.00"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | \$552 | 0.48 | 0.08 | 0.15 | 0.00 | 0.00 | 1 |
| | A20CM020 | | SANDBLAST HOSE, 1.25"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | \$482 | 0.41 | 0.07 | 0.13 | 0.00 | 0.00 | 1 |
| | A20CM019 | | SANDBLAST HOSE, 1.50"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | \$784 | 0.68 | 0.12 | 0.21 | 0.01 | 0.00 | 1 |
| | SUBCATI | EGORY 0.30 | SANDBLASTERS, BREAKERS, & MIS | . AIR TOOLS | | | | | | | | |
| | | CHICAGO | PNEUMATIC TOOL CO. | | | | | | | | | |
| | A20CK002 | CP-0009A | ROTARY / CHIP HAMMER, 8 LB, AIR (ADD 30 CFM COMPRESSOR & BIT COSTS) | 20 CFM A | | \$1,019 | 0.48 | 0.09 | 0.15 | 0.01 | 0.00 | 1 |
| | A20CK001 | CP-0014RR | ROTARY / CHIP HAMMER, 15 LB, AIR (ADD 30 CFM COMPRESSOR & BIT COSTS) | 32 CFM A | | \$1,767 | 0.83 | 0.15 | 0.27 | 0.01 | 0.00 | 1 |
| | A20CK003 | CP-0022 | ROCK DRILL, 30 LB, AIR (ADD 50 CFM COMPRESSOR & BIT COSTS) | 56 CFM A | | \$1,981 | 0.94 | 0.17 | 0.30 | 0.02 | 0.00 | 1 |
| | A20CK005 | CP-0069 | ROCK DRILL, 55 LB, AIR (ADD 140 CFM COMPRESSOR & BIT COSTS) | 130 CFM A | | \$2,506 | 1.19 | 0.21 | 0.38 | 0.02 | 0.00 | 1 |
| | A20CK006 | CP-0111-CHLA | BREAKER-FOUR BOLT, 25 LB (ADD 50 CFM COMPRESSOR & BIT COSTS) | 45 CFM A | | \$1,243 | 0.59 | 0.11 | 0.19 | 0.01 | 0.00 | 1 |
| | A20CK008 | CP-1230-S | BREAKER-FOUR BOLT, 60 LB (ADD 65 CFM COMPRESSOR & BIT COSTS) | 63 CFM A | | \$1,393 | 0.66 | 0.12 | 0.21 | 0.01 | 0.00 | 1 |
| | A20CK010 | CP-1240-S | BREAKER-FOUR BOLT, 90 LB (ADD 90 CFM COMPRESSOR & BIT COSTS) | 81 CFM A | | \$1,510 | 0.71 | 0.13 | 0.23 | 0.01 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------|---|---------|---|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | CLEMCO IN | DUSTRIES CORPORATION | | | | | | | | | | |
| | A20CM010 | PACKAGE TWO | SANDBLASTER, 2 CF CAP, W/0.50" D X 25'L HOSE (ADD 100 CFM COMPRESSOR & NOZZLE COST) | 100 CFM | Α | | \$4,771 | 2.31 | 0.40 | 0.72 | 0.04 | 0.00 | 4 |
| | A20CM011 | PACKAGE FOUR | SANDBLASTER, 4 CF CAP, W/1.00"D X 25'L HOSE (ADD 170 CFM COMPRESSOR & NOZZLE COST) | 170 CFM | Α | | \$6,144 | 2.96 | 0.51 | 0.92 | 0.05 | 0.00 | 5 |
| | A20CM012 | PACKAGE SIX | SANDBLASTER, 6 CF CAP, W/1.25"D X 25'L HOSE (ADD 200 CFM COMPRESSOR & NOZZLE COST) | 200 CFM | Α | | \$6,899 | 3.38 | 0.58 | 1.03 | 0.06 | 0.00 | 6 |
| | A20CM013 | | SANDBLASTER, 60 CF CAP, W/1.25"D X 50'L HOSE (ADD 450 CFM COMPRESSOR & NOZZLE COST) | 450 CFM | Α | | \$24,798 | 11.73 | 1.99 | 3.58 | 0.20 | 0.00 | 30 |
| | A20CM014 | | SANDBLASTER, 120 CF CAP, W/1.25"D X 50'L HOSE (ADD 700 CFM COMPRESSOR & NOZZLE COST) | 700 CFM | Α | | \$29,209 | 13.26 | 2.17 | 3.85 | 0.24 | 0.00 | 35 |
| | A20CM015 | | SANDBLASTER, 160 CF CAP, W/1.25"D X 50'L HOSE (ADD 900 CFM COMPRESSOR & NOZZLE COST) | 900 CFM | Α | | \$36,854 | 17.23 | 2.88 | 5.16 | 0.30 | 0.00 | 45 |
| | A20CM016 | | SANDBLAST ABRASIVE STORAGE HOPPER, 700 CF, 8' DEEP,10' WIDE & 23' HIGH (ADD SAND BLASTER & ACCESSORIES) | | | | \$18,026 | 8.80 | 1.50 | 2.70 | 0.15 | 0.00 | 69 |
| | | WAC | KER CORPORATION | | | | | | | | | | |
| | A20WC002 | EHB11/BL/110 | BREAKER/DRILL, 40 LB, ELECTRIC (ADD 2 KW GENERATOR & BIT COSTS) | 2 HP | E | | \$1,363 | 1.04 | 0.11 | 0.20 | 0.01 | 0.17 | 1 |
| | A20WC004 | BH 23 | BREAKER/DRIVER, 65 LB, W/POWER UNIT (ADD BIT COSTS) | 4 HP | G | | \$3,957 | 2.89 | 0.33 | 0.59 | 0.03 | 0.89 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | ENGINE HO AND FUE | | VALUE (TEV) | TOTAL H | | | JUSTAE LEMEN | | |
|-----|----------|------------------------|--|----------------------|---------|----------------|---------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | A20XX021 | STANDARD 25- 35 LBS | PAVEMENT BREAKER, 25-35 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | \$1,396 | 0.66 | 0.12 | 0.21 | 0.01 | 0.00 | 1 |
| | A20XX022 | SILENCED 35- 45 LBS | PAVEMENT BREAKER, 35-45 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | \$1,488 | 0.70 | 0.12 | 0.22 | 0.01 | 0.00 | 1 |
| | A20XX023 | SILENCED 60- 65 LBS | PAVEMENT BREAKER, 60-65 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | \$1,545 | 0.72 | 0.13 | 0.23 | 0.01 | 0.00 | 1 |
| | A20XX024 | SILENCED 80- 90 LBS | PAVEMENT BREAKER, 80-90 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | \$1,629 | 0.76 | 0.13 | 0.24 | 0.01 | 0.00 | 1 |
| | A20XX025 | 60 DRY | ROCK DRILL, DRY, 60 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | \$2,557 | 1.20 | 0.21 | 0.38 | 0.02 | 0.00 | 1 |
| A25 | ASPHA | LT PAVING I | DISTRIBUTORS | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ASPHALT PAVING DISTRIBUTORS | | | | | | | | | |
| | | ROSCO |), A LeeBoy COMPANY | | | | | | | | | |
| | A25RS006 | MAXIMIZER 11 | ASPHALT DISTRIBUTOR, 1,900 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | \$66,672 | 23.26 | 5.54 | 10.00 | 0.54 | 0.00 | 70 |
| | A25RS008 | MAXIMIZER 11 | ASPHALT DISTRIBUTOR, 3,000 GAL, 400 GPM, TRUCK MTD (ADD 42,000 GVW TRUCK) | | | \$76,443 | 27.14 | 6.36 | 11.47 | 0.62 | 0.00 | 97 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | A25XX001 | 1000G | ASPHALT DISTRIBUTOR, 1,000 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | | \$72,953 | 24.82 | 6.06 | 10.94 | 0.59 | 0.00 | 64 |
| | A25XX002 | 2500G | ASPHALT DISTRIBUTOR, 2,500 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | | \$76,770 | 26.97 | 6.39 | 11.52 | 0.63 | 0.00 | 89 |
| | A25XX003 | 3500G | ASPHALT DISTRIBUTOR, 3,500 GAL, 400 GPM, TRUCK MTD (ADD 42,000 GVW TRUCK) | | | | \$78,012 | 27.95 | 6.49 | 11.70 | 0.64 | 0.00 | 104 |
| A30 | ASPHA | LT PAVERS | & MISCELLANEOUS ROAD EQU | IPMENT | | | | | | | | | |
| | SUBCATI | EGORY 0.10 | SELF PROPELLED | | | | | | | | | | |
| | | BARBE | ER-GREENE COMPANY | | | | | | | | | | |
| | A30BG004 | BG225C | ASPHALT FINISHER, 8' WIDE SCREED, CRAWLER, W/15' 6" SCREED EXTENSION, 177 CF HOPPER | 112 HP | D-off | | \$378,913 | 118.63 | 23.19 | 40.26 | 3.06 | 13.94 | 336 |
| | A30BG005 | BG2455D | ASPHALT FINISHER, 10' WIDE SCREED, CRAWLER, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 224 HP | D-off | | \$403,223 | 140.97 | 24.68 | 42.84 | 3.26 | 27.87 | 374 |
| | A30BG003 | BG260D | ASPHALT FINISHER, 10' WIDE SCREED, WHEEL, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 224 HP | D-off | | \$385,720 | 135.22 | 21.91 | 37.57 | 3.12 | 27.87 | 382 |
| | BL | AW KNOX CO | NSTRUCTION EQUIPMENT CORP. | | | | | | | | | | |
| | A30BK011 | PF-161 | ASPHALT PAVER/FINISHER, 8' WIDE SCREED, WHEEL, 181 CF HOPPER | 107 HP | D-off | | \$270,476 | 87.65 | 15.64 | 26.89 | 2.19 | 13.32 | 210 |
| | A30BK013 | PF-3172 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, WHEEL, 182 CF HOPPER | 145 HP | D-off | | \$322,126 | 106.42 | 18.93 | 32.63 | 2.61 | 18.04 | 299 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|---------------|---|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| A30 | | | BLAW KNOX CONSTRUCTION EQUIPMENT CORP. (continued) | | | | | | | | | | |
| | A30BK015 | PF-6160 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, WHEEL, 230 CF HOPPER | 184 HP | D-off | | \$371,081 | 125.20 | 21.72 | 37.44 | 3.00 | 22.90 | 361 |
| | A30BK018 | PF-6110 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, CRAWLER, 218 CF HOPPER | 184 HP | D-off | | \$409,178 | 135.42 | 25.05 | 43.48 | 3.31 | 22.90 | 400 |
| | A30BK019 | RW 100 A | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-10' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 72.5 CF HOPPER | 105 HP | D-off | | \$289,190 | 92.07 | 17.56 | 30.43 | 2.34 | 13.07 | 245 |
| | A30BK020 | RW 195 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 2'-10' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 73 CF HOPPER | 173 HP | D-off | | \$378,422 | 125.64 | 23.02 | 39.91 | 3.06 | 21.53 | 330 |
| | A30BK021 | TITAN 325 EPM | ASPHALT PAVER, 32.8' WIDE, CRAWLER W/DUAL TAMPER SCREED, 270 CF HOPPER | 176 HP | D-off | | \$398,187 | 131.34 | 24.38 | 42.31 | 3.22 | 21.90 | 399 |
| | A30BK022 | PF-2181 | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 2 WHEEL DRIVE, 182 CF HOPPER | 145 HP | D-off | | \$304,726 | 101.75 | 17.85 | 30.78 | 2.46 | 18.04 | 283 |
| | A30BK023 | PF-4410 | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER, 155 CF HOPPER | 145 HP | D-off | | \$348,701 | 113.72 | 21.35 | 37.05 | 2.82 | 18.04 | 269 |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | | |
| | A30CA013 | AP-655D | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER, 177 CF HOPPER | 174 HP | D-off | | \$276,056 | 98.41 | 16.90 | 29.33 | 2.23 | 21.65 | 402 |
| | A30CA002 | AP-600D | ASPHALT PAVER, 8' WIDE+2' EXT. PAVEMASTER SCREED, WHEEL, 230 CF HOPPER | 174 HP | D-off | | \$287,543 | 101.99 | 16.58 | 28.49 | 2.33 | 21.65 | 319 |
| | A30CA008 | AP-1000D | ASPHALT PAVER, 10' - 12' WIDE PAVEMASTER SCREED, WHEEL, 215 CF HOPPER | 224 HP | D-off | | \$332,932 | 121.10 | 19.28 | 33.18 | 2.69 | 27.87 | 468 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|----------------------|---|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| A30 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | A30CA016 | AP-1055D | ASPHALT PAVER, 10' WIDE SCREED, CRAWLER, 215 CF HOPPER | 224 HP | D-off | | \$447,900 | 151.42 | 27.42 | 47.59 | 3.62 | 27.87 | 413 |
| | CHA | AMPION ROAD | MACHINERY-PRO PAV (WIRTGEN | | | | | | | | | | |
| | A30CH001 | 780WB | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 190 CF HOPPER | 110 HP | D-off | | \$294,953 | 94.61 | 17.14 | 29.49 | 2.39 | 13.69 | 265 |
| | A30CH002 | 880WB | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 190 CF HOPPER | 152 HP | D-off | | \$321,521 | 107.24 | 18.89 | 32.57 | 2.60 | 18.91 | 315 |
| | A30CH003 | 880RTB | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER-RUBBER TRACK, 190 CF HOPPER | 152 HP | D-off | | \$323,893 | 108.08 | 19.83 | 34.41 | 2.62 | 18.91 | 282 |
| | A30CH004 | 1010WB | ASPHALT PAVER, 10' WIDE SCREED, WHEEL, 205 CF HOPPER | 152 HP | D-off | | \$338,753 | 111.76 | 19.88 | 34.27 | 2.74 | 18.91 | 305 |
| | A30CH005 | 1110WB | ASPHALT PAVER, 10' WIDE SCREED, WHEEL, 225 CF HOPPER | 173 HP | D-off | | \$369,713 | 123.37 | 21.70 | 37.42 | 2.99 | 21.53 | 343 |
| | A30CH006 | 1110RTB SWIFTRACK | ASPHALT PAVER, 10' WIDE SCREED, CRAWLER-RUBBER TRACK, 225 CF HOPPER | 200 HP | D-off | | \$430,927 | 143.50 | 26.39 | 45.79 | 3.49 | 24.89 | 402 |
| | | | GEHL COMPANY | | | | | | | | | | |
| | A30GC002 | 1448 | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 80 CF HOPPER | 25 HP | D-off | | \$41,612 | 14.65 | 2.49 | 4.29 | 0.34 | 3.11 | 67 |
| | A30GC004 | 1648 | ASPHALT PAVER, 9' WIDE SCREED, CRAWLER, 120 CF HOPPER | 41 HP | D-off | | \$59,712 | 21.76 | 3.65 | 6.34 | 0.48 | 5.10 | 85 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | I | - | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------|--|-------|------|-------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | ١ | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCATI | EGORY 0.20 | TOWED | | | | | | | | | | | |
| | | MIDL | AND MACHINERY CO | | | | | | | | | | | |
| | A30MP001 | SPD-8 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-8' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 80 CF HOPPER | 80 I | HP | D-off | | \$172,776 | 42.46 | 8.32 | 13.82 | 1.41 | 9.08 | 185 |
| | A30MP002 | SPD-10 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-10' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 80 CF HOPPER | 100 I | HP | D-off | | \$193,824 | 48.97 | 9.34 | 15.51 | 1.58 | 11.35 | 275 |
| | SUBCATI | EGORY 0.30 | SLURRY SEAL PAVERS (Cold mix) | | | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | | |
| | A30XX001 | MINIMAC | ASPHALT PAVER, SLURRY SEAL PAVER 8' WIDE, SELF PROPELLED, WHEEL, 80 CF HOPPER | 110 | HP | D-off | | \$161,590 | 34.96 | 6.54 | 10.47 | 1.30 | 11.68 | 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 | | \$197,666 | 38.88 | 8.18 | 13.18 | 1.59 | 11.68 | 175 |
| | SUBCATI | EGORY 0.40 | MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | |
| | BL | AW KNOX COI | NSTRUCTION EQUIPMENT CORP. | | | | | | | | | | | |
| | A30BK024 | MC-330 | ASPHALT PAVER, MOBILE CONVEYOR, 60" WIDE BELT, WHEEL (ADD ASPHALT PAVER UNIT) | 184 | HP | D-off | | \$386,825 | 96.09 | 18.12 | 29.91 | 3.16 | 20.88 | 430 |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | A30CA007 | BG-260 D | ASPHALT PAVER, ASPHALT WINDROW ELEVATOR, WHEEL (ADD ASPHALT PAVER UNIT) | 107 | HP | D-off | | \$267,212 | 63.64 | 12.65 | 20.93 | 2.18 | 12.14 | 171 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | M | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | | LEE-BOY | | | | | | | | | | |
| | A30LD001 | 3000 | ASPHALT PAVER, ASPHALT FORCE FEED LOADER, 30" WIDE BELT, WINDROW OR LOOSE, WHEEL (ADD ASPHALT PAVER UNIT) | 110 HP | D-off | | \$157,225 | 43.94 | 7.17 | 11.75 | 1.29 | 12.48 | 198 |
| | | ROADTEC (AS | STEC INDUSTRIES COMPANY) | | | | | | | | | | |
| | A30RT001 | SB-1500 | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 15 TON HOPPER, 600 TPH, 65" WIDE CONVEYOR, WHEEL | 300 HP | D-off | | \$423,020 | 117.43 | 20.35 | 33.78 | 3.46 | 34.04 | 672 |
| | A30RT007 | SB-2500E | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 25 TON HOPPER, 1000 TPH, 69" WIDE CONVEYOR, WHEEL | 300 HP | D-off | | \$461,975 | 125.97 | 21.88 | 36.19 | 3.78 | 34.04 | 780 |
| A35 | ASPHA | LT PAVING | KETTLES | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ASPHALT PAVING KETTLES | | | | | | | | | | |
| | | AEROIL P | RODUCTS COMPANY, INC. | | | | | | | | | | |
| | A35AE001 | KEB-80T | ASPHALT/PAVEMENT KETTLE, 80 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | \$5,425 | 4.79 | 0.36 | 0.62 | 0.05 | 1.11 | 9 |
| | A35AE002 | KEB-115T | ASPHALT/PAVEMENT KETTLE, 115 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | \$8,627 | 6.45 | 0.59 | 1.04 | 0.07 | 1.11 | 11 |
| | A35AE003 | KEB-170T | ASPHALT/PAVEMENT KETTLE, 170 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | \$10,495 | 7.41 | 0.75 | 1.32 | 0.09 | 1.11 | 15 |
| | A35AE004 | KEB-260T | ASPHALT/PAVEMENT KETTLE, 260 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | \$12,232 | 8.84 | 0.89 | 1.55 | 0.11 | 1.11 | 19 |
| | A35AE005 | KEB-350T | ASPHALT/PAVEMENT KETTLE, 350 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | \$14,276 | 11.58 | 1.00 | 1.75 | 0.12 | 1.11 | 20 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | NE HOR ID FUEL | SEPOWER . TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|---------|-------------------|-------------------|----------------|---------|---------|--------|------------------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| A40 | ASPHA | LT & CONC | RETE MILLERS / PROFILERS / PI | ANERS | S / RO | TARY GRII | NDERS | | | | | | |
| | SUBCAT | EGORY 0.00 | ASPHALT & CONCRETE MILLERS / PR | OFILERS | / PLAN | IERS / ROTA | RY GRINDE | RS | | | | | |
| | | CATERPILL | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | A40CA008 | PM-200 | ASPHALT COLD PLANER, 75" W X 10" D, CRAWLER (ADD CUTTING TEETH COSTS) | 575 HP | D-off | | \$565,625 | 303.34 | 42.60 | 75.42 | 4.89 | 94.70 | 505 |
| | A40CA009 | PM-201 | ASPHALT COLD PLANER, 83" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 650 HP | D-off | | \$648,462 | 346.04 | 48.83 | 86.46 | 5.60 | 107.06 | 735 |
| | | TEREX - C | MI (TEREX ROADBUILDING) | | | | | | | | | | |
| | A40CW001 | PR-950 | ASPHALT PROFILER, MAX 12.5' W X 15" D, CRAWLER (ADD CUTTING TEETH COSTS) | 950 HP | D-off | | \$888,227 | 485.15 | 66.89 | 118.43 | 7.67 | 156.47 | 1,205 |
| | | ROADTEC (A | STEC INDUSTRIES COMPANY) | | | | | | | | | | |
| | A40RT008 | RX-400E | ASPHALT COLD PLANER, 40" W X 10" D, WHEEL (ADD CUTTING TEETH COSTS) | 325 HP | D-off | | \$406,184 | 199.05 | 29.37 | 51.71 | 3.51 | 53.53 | 470 |
| | A40RT009 | RX-400E | ASPHALT COLD PLANER, 52" W X 8" D, CRAWLER (ADD CUTTING TEETH COSTS) | 325 HP | D-off | | \$413,799 | 203.99 | 31.16 | 55.17 | 3.57 | 53.53 | 470 |
| | A40RT010 | RX-600E | ASPHALT COLD PLANER, 78" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 620 HP | D-off | | \$510,409 | 292.64 | 38.44 | 68.05 | 4.41 | 102.11 | 592 |
| | A40RT011 | RX-700E | ASPHALT COLD PLANER, 98" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 700 HP | D-off | | \$602,875 | 339.62 | 45.40 | 80.38 | 5.21 | 115.29 | 840 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | Ī | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|---------|---------|-------|-----------------|--------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | JN. | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| A40 | | | ROADTEC (ASTEC INDUSTRIES COMPANY) (continued) | | | | | | | | | | |
| | A40RT012 | RX-900E | ASPHALT COLD PLANER, 150" W X 8" D, CRAWLER (ADD CUTTING TEETH COSTS) | 700 HP | D-off | | \$720,921 | 380.46 | 54.29 | 96.12 | 6.23 | 115.29 | 920 |
| A45 | ASPHA | LT RECYCL | ERS & SEALERS | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ASPHALT RECYCLERS & SEALERS | | | | | | | | | | |
| | | AEROIL P | RODUCTS COMPANY, INC. | | | | | | | | | | |
| | A45AE001 | HEPR-52V | ASPHALT RESURFACER-PATCHER, 4' WIDE, 17.3 SF, 600,000 BTU INFRA-RED HEATER, TRAILER MTD | | | | \$13,303 | 12.19 | 1.15 | 2.06 | 0.12 | 0.00 | 11 |
| | A45AE002 | HEPR-96V | ASPHALT RESURFACER-PATCHER, 8' WIDE, 32.0 SF, 1,200,000 BTU INFRA-RED HEATER, TRAILER MTD | | | | \$20,505 | 22.14 | 1.79 | 3.21 | 0.18 | 0.00 | 16 |
| | A45AE003 | IPRS96V | ASPHALT RESURFACER-PATCHER, 10' WIDE, 40.0 SF, 1,420,000 BTU INFRA-RED HEATER, TRAILER MTD | | | | \$46,999 | 35.06 | 4.15 | 7.45 | 0.42 | 0.00 | 17 |
| | | ROSC | O, A LeeBoy COMPANY | | | | | | | | | | |
| | A45RS001 | RA-2000 | ASPHALT SPRAY PATCHER, 300 GAL, ARTICULATED BOOM - 17' R, TRAILER MTD | 80 HP | D-off | | \$52,606 | 31.15 | 4.62 | 8.30 | 0.47 | 9.08 | 60 |
| | A45RS002 | RA-300 | ASPHALT SPRAY PATCHER, 400 GAL, TELESCOPIC BOOM - 22' EXT, TRUCK MTD | 210 HP | D-on | | \$168,781 | 97.18 | 15.00 | 27.00 | 1.50 | 27.28 | 179 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | GINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|-------|--------------------|--------------------|----------------|------------------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | N | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | S | EALMASTER, INC. | | | | | | | | | | |
| | A45SE003 | SP300 DUAL | ASPHALT SEALCOATER, 320 GAL, 75 GPM, 108" WIDE DUAL SPRAY, SQUEEGEE, SELF PROPELLED | 30 H | P D-off | | \$43,030 | 22.48 | 3.75 | 6.74 | 0.38 | 3.40 | 38 |
| | A45SE004 | TR-1000 | ASPHALT SEALCOATER, 1000 GAL, 50 GPM, 88" WIDE SPRAY BAR, TRAILER MTD | 13 H | P G | | \$26,263 | 13.69 | 2.19 | 3.92 | 0.23 | 2.89 | 52 |
| B10 | BATCH | PLANTS, A | SPHALT & CONCRETE | | | | | | | | | | |
| | SUBCAT | EGORY 0.20 | CONCRETE | | | | | | | | | | |
| | | | CEMEN TECH | | | | | | | | | | |
| | 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 H | P G | | \$52,174 | 21.14 | 2.98 | 5.07 | 0.44 | 4.00 | 80 |
| | 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 H | P G | | \$56,861 | 60.13 | 3.02 | 5.10 | 0.47 | 36.26 | 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 H | P G | | \$74,389 | 74.52 | 3.86 | 6.47 | 0.62 | 44.49 | 194 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | EN | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------------|---|-----|------|---|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B10 | | | CEMEN TECH (continued) | | | | | | | | | | | |
| | 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 | | \$86,387 | 77.91 | 4.56 | 7.67 | 0.72 | 44.49 | 204 |
| | B10CC012 | 210 BBL | BATCH PLANT, SILO, CEMENT, 830 CF, 210 BARREL (BATCH PLANT ATTACHMENT) | 18 | HP (| G | | \$25,090 | 11.93 | 1.47 | 2.51 | 0.21 | 4.00 | 35 |
| | B10CC011 | HS-240 | BATCH PLANT, SILO, CEMENT, 38 TON HORIZONTAL 240 BARREL (BATCH PLANT ATTACHMENT) | 20 | HP I | E | | \$24,181 | 9.98 | 1.41 | 2.42 | 0.20 | 1.72 | 45 |
| | B10CC013 | 300 BBL | BATCH PLANT, SILO, CEMENT, 1,200 CF, 300 BARRL (BATCH PLANT ATTACHMENT) | 18 | HP (| G | | \$32,945 | 14.03 | 1.93 | 3.29 | 0.28 | 4.00 | 48 |
| | B10CC014 | | BATCH PLANT, CEMENT LOADING AUGER, 6" DIA, 19' LONG (BATCH PLANT ATTACHMENT) | 5 | HP I | E | | \$7,451 | 3.12 | 0.44 | 0.75 | 0.06 | 0.43 | 10 |
| | | | CON-E-CO | | | | | | | | | | | |
| | B10CL025 | MTM 12 | BATCH PLANT, CONCRETE MIXER, 12 CY, TILT DRUM, 11.67' DIA, REMOVABLE AXLES, TRAILER MTD (ADD DRY BATCH PLANT) | 200 | HP I | E | | \$306,506 | 106.45 | 17.76 | 30.39 | 2.56 | 17.16 | 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 I | E | | \$94,863 | 29.02 | 5.27 | 8.96 | 0.79 | 3.00 | 190 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|-----|-----|---|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B10 | | | CON-E-CO (continued) | | | | | | | | | | | |
| | 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 | | \$177,267 | 52.09 | 9.91 | 16.85 | 1.48 | 2.57 | 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 | | \$337,653 | 105.42 | 19.23 | 32.82 | 2.82 | 10.30 | 426 |
| | B10CL027 | | BATCH PLANT, CEMENT SILO, 1,910 CF, 475 BARREL (BATCH PLANT ATTACHMENT) | | | | | \$23,762 | 6.22 | 1.39 | 2.38 | 0.20 | 0.00 | 144 |
| | B10CL042 | | BATCH PLANT, SCREW CONVEYOR, 6" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 5 | HP | E | | \$3,572 | 1.61 | 0.21 | 0.36 | 0.03 | 0.43 | 5 |
| | B10CL045 | | BATCH PLANT, SCREW CONVEYOR, 6" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 10 | HP | E | | \$4,588 | 2.53 | 0.27 | 0.46 | 0.04 | 0.86 | 11 |
| | B10CL036 | | BATCH PLANT, SCREW CONVEYOR, 9" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 8 | HP | Е | | \$3,920 | 2.09 | 0.23 | 0.39 | 0.03 | 0.69 | 9 |
| | B10CL040 | | BATCH PLANT, SCREW CONVEYOR, 9" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 20 | HP | E | | \$5,433 | 4.08 | 0.32 | 0.54 | 0.05 | 1.72 | 16 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|----------------------|---|----|------|---|--------------------|----------------|------------------|---------|-------|------------------|------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B10 | | | CON-E-CO (continued) | | | | | | | | | | | |
| | B10CL032 | | BATCH PLANT, SCREW CONVEYOR, 12" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 10 | HP | E | | \$4,688 | 2.56 | 0.28 | 0.47 | 0.04 | 0.86 | 10 |
| | B10CL034 | | BATCH PLANT, SCREW CONVEYOR, 12" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 20 | HP | E | | \$9,377 | 5.11 | 0.55 | 0.94 | 0.08 | 1.72 | 20 |
| | | EXCE | EL 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 | | \$478,150 | 132.60 | 27.11 | 46.23 | 3.99 | 5.56 | 590 |
| | B10EM002 | | BATCH PLANT, CEMENT SILO, 45 TON HORIZONTAL 350 BARREL (BATCH PLANT ATTACHMENT) | 10 | HP | E | | \$32,938 | 10.58 | 1.72 | 2.88 | 0.28 | 0.86 | 45 |
| | B10EM003 | | BATCH PLANT, CEMENT SILO, 2,200 CF (BARREL CAP 550 MAX / 450 MIN) W/DRIVE- THRU TYPE UNDERSTRUCTURE (BATCH PLANT ATTACHMENT) | | | | | \$30,970 | 8.10 | 1.81 | 3.10 | 0.26 | 0.00 | 222 |
| | | JOHNSON-RO | SS (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 | Е | | \$170,000 | 48.40 | 9.60 | 16.35 | 1.42 | 1.29 | 3,000 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | i | REGION 1 | | _ | ORSEPOWER IEL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|---|------|------|-----------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B10 | | | JOHNSON-ROSS (TEREX ROADBUILDING) (continued) | | | | | | | | | | |
| | 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 H | HP E | | \$232,379 | 70.97 | 13.03 | 22.17 | 1.94 | 4.29 | 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 l | HP E | | \$214,999 | 65.84 | 12.02 | 20.44 | 1.80 | 3.90 | 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 F | HP E | | \$275,883 | 78.05 | 15.77 | 26.94 | 2.30 | 2.57 | 250 |
| | B10RC027 | | BATCH PLANT, CONCRETE MIXER, 4.5 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 40 H | HP E | | \$163,318 | 49.99 | 9.53 | 16.33 | 1.36 | 3.43 | 34 |
| | B10RC028 | | BATCH PLANT, CONCRETE MIXER, 6.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 60 H | HP E | | \$183,468 | 58.18 | 10.71 | 18.35 | 1.53 | 5.15 | 45 |
| | B10RC029 | | BATCH PLANT, CONCRETE MIXER, 8.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 80 H | HP E | | \$207,370 | 67.32 | 12.10 | 20.74 | 1.73 | 6.86 | 60 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | EN | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------|---|-----|------|---|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | ı | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B10 | | | JOHNSON-ROSS (TEREX ROADBUILDING) (continued) | | | | | | | | | | | |
| | B10RC030 | | BATCH PLANT, CONCRETE MIXER, 10.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 100 | HP | Ε | | \$225,955 | 76.10 | 13.19 | 22.60 | 1.89 | 8.58 | 75 |
| | B10RC031 | | BATCH PLANT, CONCRETE MIXER, 12.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 120 | HP | E | | \$238,572 | 82.30 | 13.92 | 23.86 | 1.99 | 10.30 | 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 | | \$264,182 | 83.63 | 14.89 | 25.36 | 2.21 | 6.44 | 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 | | \$84,243 | 25.81 | 4.39 | 7.38 | 0.70 | 2.15 | 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 | | \$160,893 | 46.64 | 8.87 | 15.05 | 1.34 | 2.57 | 340 |
| | B10SN032 | MUSTANG 5 | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/3 AGGREGATE STORAGE BINS, 29.6 TON, 40 CY/ 3 BIN 5 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 251 BARREL, 47 TON CEMENT SILO, TRAILER MTD (ADD 115 KW GENERATOR) | 30 | HP | E | | \$129,107 | 38.57 | 7.00 | 11.84 | 1.08 | 2.57 | 420 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | l . | - | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------------------|---|------|------|---|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ľ | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B10 | | | STEPHENS MANUFACTURING CO., INC. (continued) | | | | | | | | | | | |
| | 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) | 20 H | ∃P I | E | | \$179,016 | 50.04 | 9.91 | 16.84 | 1.49 | 1.72 | 360 |
| | B10SN036 | MUSTANG 10 | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/3 AGGREGATE BIN STORAGE, 75 TON, 55 CY/2 BIN 10 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 351 BARREL, 65 TON CEMENT SILO, TRAILER MTD (ADD 115 KW GENERATOR) | 45 H | ∃P I | E | | \$168,540 | 50.88 | 9.31 | 15.79 | 1.41 | 3.86 | 500 |
| | 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 H | ∃P I | E | | \$188,200 | 53.91 | 10.45 | 17.75 | 1.57 | 2.57 | 300 |
| | SUBCAT | EGORY 0.30 | PUGMILL | | | | | | | | | | | |
| | | KOLE | BERG - PIONEER, INC | | | | | | | | | | | |
| | B10KB001 | 52 PORTABLE PUGMILL | BATCH PLANT, PUGMILL, CONTINUOUS MIXER, 48" DIA TWIN SHAFT X 6' LONG, W/9 CY FEEDER HOPPER/ 36" X 11.5' BELT FEEDER/ 30" X 27' CONVEYOR/ WATER OR ASPHALT PUMP & METER (ADD 95 KW GENERATOR & ANY MATERIAL FEEDS) | 95 H | ∃P [| E | | \$190,808 | 52.60 | 8.97 | 14.81 | 1.56 | 8.15 | 190 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B10 | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | |
| | B10KB002 | 52S PORTABLE PUGMILL | BATCH PLANT, PUGMILL, CONTINUOUS MIXER, 48" DIA TWIN SHAFT X 8' LONG, W/13 CY FEEDER HOPPER/ TWO - 36" X 11.5' BELT FEEDERS/ 2ND 11 CY FEEDER HOPPER/ 30" X 27' CONVEYOR/ WATER OR ASPHALT PUMP & METER (ADD 220 KW GENERATOR & ANY MATERIAL FEEDS) | 220 HP | Е | | \$339,615 | 100.54 | 16.11 | 26.65 | 2.78 | 18.88 | 230 |
| B15 | BROOM | IS, STREET | SWEEPERS & FLUSHERS | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | BROOMS, STREET SWEEPERS & FLU | SHERS | | | | | | | | | |
| | | BROCE MA | NUFACTURING COMPANY | | | | | | | | | | |
| | B15BM001 | RJ-350 | BROOM, 8' BROOM PATH, PAVEMENT, SELF PROPELLED | 80 HP | D-off | | \$49,490 | 22.44 | 3.18 | 5.57 | 0.39 | 9.08 | 50 |
| | | ELGIN | SWEEPER COMPANY | | | | | | | | | | |
| | B15EC002 | PELICAN P | STREET SWEEPER, 10' BROOM PATH, 3.5 CY HOPPER, 180 GAL WATER TANK, SELF PROPELLED | 100 HP | D-off | | \$159,857 | 52.02 | 10.12 | 17.74 | 1.25 | 11.35 | 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 | \$221,705 | 65.55 | 13.99 | 24.50 | 1.74 | 9.83 | 150 |
| | B15EC003 | BROOM BEAR FL42H | STREET SWEEPER, 12' BROOM PATH, 4.5 CY HOPPER, 350 GAL WATER TANK, SELF PROPELLED | 230 HP | D-off | | \$212,694 | 81.73 | 13.60 | 23.86 | 1.67 | 26.10 | 213 |
| | B15EC004 | MEGAWIND | STREET SWEEPER AND CATCH BASIN CLEANER, 12' BROOM PATH, 13 CY HOPPER, 335 GAL WATER TANK, SELF PROPELLED | 115 HP | D-off | 230 HP D-off | \$235,638 | 78.24 | 15.11 | 26.51 | 1.85 | 18.10 | 238 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB | | |
|-----|----------|---------------|--|-------|-------|--------------------|----------------|---------|----------|------|--------|------|-----|
| САТ | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | AIN | CARRIER | 2011 (\$) | | <u> </u> | | FCCM | FUEL | сwт |
| | | 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) | | | | \$8,717 | 2.23 | 0.56 | 0.98 | 0.07 | 0.00 | 10 |
| | B15MB002 | НТ | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, PTO DRIVE (ADD 45-100 HP TRACTOR) | | | | \$10,531 | 2.71 | 0.67 | 1.18 | 0.08 | 0.00 | 12 |
| | B15MB003 | 53T | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, TOWED, HYDRAULIC (ADD TOWING UNIT) | | | | \$15,322 | 3.95 | 0.94 | 1.64 | 0.12 | 0.00 | 18 |
| | B15MB004 | 53MH | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, TOWED (ADD TOWING UNIT) | 18 HP | G | | \$17,667 | 8.75 | 1.09 | 1.90 | 0.14 | 4.00 | 17 |
| | | ROSCO |), A LeeBoy COMPANY | | | | | | | | | | |
| | B15RS005 | CHALLENGER II | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 125 GAL WATER TANK, SELF PROPELLED | 80 HP | D-off | | \$56,478 | 24.16 | 3.55 | 6.22 | 0.44 | 9.08 | 75 |
| | B15RS001 | RB-48 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 150 GAL WATER TANK, SELF PROPELLED | 80 HP | D-off | | \$43,422 | 20.95 | 2.75 | 4.81 | 0.34 | 9.08 | 52 |
| | | TERRAMITE C | CONSTRUCTION EQUIPMENT | | | | | | | | | | |
| | B15TB001 | TSS46 | STREET SWEEPER, 6' BROOM PATH, W/SPRINKLER AND 2 - 50 GAL WATER TANKS, SELF PROPELLED | 37 HP | D-off | | \$23,971 | 10.66 | 1.50 | 2.61 | 0.19 | 4.20 | 34 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | EN | | ORSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | ı | JUSTAB LEMENT | | |
|-----|----------|--------------------|---|-------|----------|----------------------|----------------|------------------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B15 | | | TERRAMITE CONSTRUCTION EQUIPMENT (continued) | | | | | | | | | | |
| | B15TB002 | TSS48 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 2 - 50 GAL WATER TANKS, SELF PROPELLED | 37 I | HP D-off | | \$24,109 | 10.69 | 1.51 | 2.63 | 0.19 | 4.20 | 34 |
| | | | WALDON, INC. | | | | | | | | | | |
| | B15WD001 | SWEEPMASTER 250 | BROOM, 7.5' BROOM PATH, PAVEMENT, SELF PROPELLED | 80 I | HP D-off | | \$39,091 | 19.89 | 2.47 | 4.32 | 0.31 | 9.08 | 48 |
| | B15WD002 | SWEEPMASTER 250 | BROOM, 90" BROOM PATH, PAVEMENT, W/SPRINKLER AND 180 GAL WATER TANK, SELF PROPELLED | 80 I | HP D-off | | \$40,601 | 20.26 | 2.57 | 4.49 | 0.32 | 9.08 | 48 |
| B20 | BRUSH | CHIPPERS | | | | | | | | | | | |
| | | | BRUSH CHIPPERS | | | | | | | | | | |
| | | BAND | IT INDUSTRIES, INC. | | | | | | | | | | |
| | B20BN001 | 65XP | BRUSH CHIPPER, 6" CAPACITY, DISC TYPE, TRAILER MTD | 44 1 | HP G | | \$11,828 | 14.39 | 0.74 | 1.30 | 0.09 | 9.79 | 19 |
| | B20BN002 | 90XP | BRUSH CHIPPER, 9" CAPACITY, DISC TYPE, TRAILER MTD | 84 1 | HP G | | \$16,352 | 25.83 | 1.02 | 1.78 | 0.13 | 18.68 | 44 |
| | B20BN003 | 200XP | BRUSH CHIPPER, 12" CAPACITY, DISC TYPE, TRAILER MTD | 140 I | HP G | | \$19,117 | 40.96 | 1.20 | 2.10 | 0.15 | 31.14 | 58 |
| | B20BN005 | 1390XP | BRUSH CHIPPER, 13" CAPACITY, DRUM TYPE, TRAILER MTD | 142 | HP G | | \$23,633 | 42.66 | 1.50 | 2.61 | 0.19 | 31.59 | 66 |
| | B20BN006 | 1590XP | BRUSH CHIPPER, 17" CAPACITY, DRUM TYPE, TRAILER MTD | 142 | HP G | | \$29,349 | 44.14 | 1.86 | 3.25 | 0.23 | 31.59 | 87 |
| | B20BN007 | 1890XP | BRUSH CHIPPER, 18" CAPACITY, DRUM TYPE, TRAILER MTD | 142 | HP D-off | | \$34,041 | 27.11 | 2.10 | 3.66 | 0.27 | 16.11 | 92 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | · | REGION 1 | ENGINE HO AND FUE | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|----------------------|---------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | | MORBARK, INC. | | | | | | | | | |
| | B20MQ001 | M12R | BRUSH CHIPPER, 12" CAPACITY, DRUM TYPE, TRAILER MTD | 84 HP D-off | | \$33,853 | 19.63 | 2.17 | 3.79 | 0.27 | 9.53 | 45 |
| | B20MQ003 | M15R | BRUSH CHIPPER, 15" CAPACITY, DRUM TYPE, TRAILER MTD | 142 HP D-off | | \$50,595 | 31.46 | 3.22 | 5.64 | 0.40 | 16.11 | 89 |
| | B20MQ004 | M18R | BRUSH CHIPPER, 18" CAPACITY, DRUM TYPE, TRAILER MTD | 200 HP D-off | | \$69,169 | 43.72 | 4.33 | 7.58 | 0.54 | 22.69 | 94 |
| | B20MQ005 | 22 RXL | BRUSH CHIPPER, LOG CHIPPER, 22" CAPACITY, DISC TYPE, TRAILER MTD | 875 HP D-off | | \$548,034 | 256.72 | 34.74 | 60.87 | 4.30 | 99.28 | 813 |
| B25 | BUCKE | TS, CLAMSI | HELL | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | BUCKETS, CLAMSHELL | | | | | | | | | |
| | | HAWCO | (ANVIL ATTACHMENTS) | | | | | | | | | |
| | B25HB001 | MWRH-050 | BUCKET, CLAMSHELL, 0.5 CY, HEAVY DUTY/DIGGING | | | \$25,113 | 5.68 | 1.62 | 2.83 | 0.20 | 0.00 | 30 |
| | B25HB003 | MWRH-100 | BUCKET, CLAMSHELL, 1.0 CY, HEAVY DUTY/DIGGING | | | \$27,265 | 6.16 | 1.75 | 3.07 | 0.21 | 0.00 | 48 |
| | B25HB005 | MWRH-150 | BUCKET, CLAMSHELL, 1.5 CY, HEAVY DUTY/DIGGING | | | \$28,642 | 6.46 | 1.83 | 3.22 | 0.22 | 0.00 | 66 |
| | B25HB007 | MWRH-200 | BUCKET, CLAMSHELL, 2.0 CY, HEAVY DUTY/DIGGING | | | \$34,274 | 7.75 | 2.20 | 3.86 | 0.27 | 0.00 | 78 |
| | B25HB008 | MWRH-250 | BUCKET, CLAMSHELL, 2.5 CY, HEAVY DUTY/DIGGING | | | \$35,408 | 8.00 | 2.27 | 3.98 | 0.28 | 0.00 | 91 |
| | B25HB009 | MWRH-300 | BUCKET, CLAMSHELL, 3.0 CY, HEAVY DUTY/DIGGING | | | \$37,112 | 8.39 | 2.38 | 4.18 | 0.29 | 0.00 | 103 |
| | B25HB010 | MWRH-350 | BUCKET, CLAMSHELL, 3.5 CY, HEAVY DUTY/DIGGING | | | \$42,970 | 9.70 | 2.76 | 4.83 | 0.34 | 0.00 | 131 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------|---|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B25 | | | HAWCO (ANVIL ATTACHMENTS) (continued) | | | | | | | | | |
| | B25HB011 | MWRH-400 | BUCKET, CLAMSHELL, 4.0 CY, HEAVY DUTY/DIGGING | | | \$44,859 | 10.13 | 2.88 | 5.05 | 0.35 | 0.00 | 145 |
| | B25HB012 | MWRH-450 | BUCKET, CLAMSHELL, 4.5 CY, HEAVY DUTY/DIGGING | | | \$45,687 | 10.32 | 2.93 | 5.14 | 0.36 | 0.00 | 165 |
| | B25HB013 | MWHR-500 | BUCKET, CLAMSHELL, 5.0 CY, HEAVY DUTY/DIGGING | | | \$46,724 | 10.56 | 3.00 | 5.26 | 0.37 | 0.00 | 173 |
| | B25HB014 | MWRH-550 | BUCKET, CLAMSHELL, 5.5 CY, HEAVY DUTY/DIGGING | | | \$51,350 | 11.60 | 3.29 | 5.78 | 0.40 | 0.00 | 178 |
| | B25HB015 | MWRH-600 | BUCKET, CLAMSHELL, 6.0 CY, HEAVY DUTY/DIGGING | | | \$53,069 | 11.99 | 3.41 | 5.97 | 0.42 | 0.00 | 199 |
| | | NO SF | PECIFIC MANUFACTURER | | | | | | | | | |
| | B25XX001 | 1/4SSN | BUCKET, CLAMSHELL, 0.2 CY, SQUARE NOSE, STANDARD | | | \$18,006 | 4.07 | 1.16 | 2.03 | 0.14 | 0.00 | 14 |
| | B25XX002 | 1/2SSN | BUCKET, CLAMSHELL, 0.5 CY, SQUARE NOSE, STANDARD | | | \$19,439 | 4.39 | 1.25 | 2.19 | 0.15 | 0.00 | 27 |
| | B25XX003 | 3/4SSN | BUCKET, CLAMSHELL, 0.7 CY, SQUARE NOSE, STANDARD | | | \$20,943 | 4.73 | 1.34 | 2.36 | 0.16 | 0.00 | 35 |
| | B25XX004 | 1SSN | BUCKET, CLAMSHELL, 1.0 CY, SQUARE NOSE, STANDARD | | | \$22,448 | 5.08 | 1.45 | 2.53 | 0.18 | 0.00 | 43 |
| | B25XX005 | 1-1/4SSN | BUCKET, CLAMSHELL, 1.2 CY, SQUARE NOSE, STANDARD | | | \$23,576 | 5.32 | 1.51 | 2.65 | 0.18 | 0.00 | 49 |
| | B25XX006 | 1-1/2SSN | BUCKET, CLAMSHELL, 1.5 CY, SQUARE NOSE, STANDARD | | | \$27,439 | 6.20 | 1.77 | 3.09 | 0.22 | 0.00 | 64 |
| | B25XX007 | 1-3/4SSN | BUCKET, CLAMSHELL, 1.7 CY, SQUARE NOSE, STANDARD | | | \$28,516 | 6.44 | 1.83 | 3.21 | 0.22 | 0.00 | 67 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|----------|---|----------------------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B25 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | |
| | B25XX008 | 2SSN | BUCKET, CLAMSHELL, 2.0 CY, SQUARE NOSE, STANDARD | | | \$31,730 | 7.17 | 2.04 | 3.57 | 0.25 | 0.00 | 76 |
| | B25XX009 | 2-1/2SSN | BUCKET, CLAMSHELL, 2.5 CY, SQUARE NOSE, STANDARD | | | \$37,391 | 8.44 | 2.40 | 4.21 | 0.29 | 0.00 | 92 |
| | B25XX010 | 3SSN | BUCKET, CLAMSHELL, 3.0 CY, SQUARE NOSE, STANDARD | | | \$39,503 | 8.92 | 2.53 | 4.44 | 0.31 | 0.00 | 98 |
| | B25XX011 | 3-1/2SSN | BUCKET, CLAMSHELL, 3.5 CY, SQUARE NOSE, STANDARD | | | \$42,973 | 9.70 | 2.76 | 4.83 | 0.34 | 0.00 | 108 |
| | B25XX012 | 4SSN | BUCKET, CLAMSHELL, 4.0 CY, SQUARE NOSE, STANDARD | | | \$46,747 | 10.56 | 3.00 | 5.26 | 0.37 | 0.00 | 119 |
| | B25XX013 | 4-1/2SSN | BUCKET, CLAMSHELL, 4.5 CY, SQUARE NOSE, STANDARD | | | \$55,487 | 12.52 | 3.55 | 6.24 | 0.43 | 0.00 | 145 |
| | B25XX014 | 5SSN | BUCKET, CLAMSHELL, 5.0 CY, SQUARE NOSE, STANDARD | | | \$58,483 | 13.21 | 3.75 | 6.58 | 0.46 | 0.00 | 154 |
| | B25XX015 | 5-1/2SSN | BUCKET, CLAMSHELL, 5.5 CY, SQUARE NOSE, STANDARD | | | \$59,809 | 13.51 | 3.84 | 6.73 | 0.47 | 0.00 | 158 |
| | B25XX016 | 6SSN | BUCKET, CLAMSHELL, 6.0 CY, SQUARE NOSE, STANDARD | | | \$62,267 | 14.07 | 4.00 | 7.01 | 0.49 | 0.00 | 166 |
| | B25XX017 | 6-1/2SSN | BUCKET, CLAMSHELL, 6.5 CY, SQUARE NOSE, STANDARD | | | \$66,076 | 14.92 | 4.24 | 7.43 | 0.52 | 0.00 | 177 |
| | B25XX018 | 7SSN | BUCKET, CLAMSHELL, 7.0 CY, SQUARE NOSE, STANDARD | | | \$69,381 | 15.67 | 4.45 | 7.81 | 0.54 | 0.00 | 185 |
| | B25XX019 | 7-1/2SSN | BUCKET, CLAMSHELL, 7.5 CY, SQUARE NOSE, STANDARD | | | \$71,695 | 16.19 | 4.60 | 8.07 | 0.56 | 0.00 | 192 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|----|----------|------------|---|-----------|---------------------|----------------|------------------|---------|------|-----------------|------|-----|
| AT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| 30 | BUCKE | TS, CONCR | ETE | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | GENERAL PURPOSE, MANUAL TRIP | | | | | | | | | |
| | | GAR-BRO N | IANUFACTURING COMPANY | | | | | | | | | |
| | B30GB018 | 413-G | BUCKET, CONCRETE, GENERAL PURPOSE, 0.5 CY | | | \$3,355 | 0.78 | 0.23 | 0.40 | 0.03 | 0.00 | 4 |
| | B30GB001 | 433-G | BUCKET, CONCRETE, GENERAL PURPOSE, 1.0 CY | | | \$4,227 | 0.98 | 0.28 | 0.50 | 0.03 | 0.00 | 6 |
| | B30GB002 | 442-G | BUCKET, CONCRETE, GENERAL PURPOSE, 1.5 CY | | | \$5,530 | 1.28 | 0.37 | 0.66 | 0.04 | 0.00 | 8 |
| | B30GB003 | 462-G | BUCKET, CONCRETE, GENERAL PURPOSE, 2.0 CY | | | \$6,818 | 1.58 | 0.46 | 0.81 | 0.05 | 0.00 | 10 |
| | B30GB004 | 493-G | BUCKET, CONCRETE, GENERAL PURPOSE, 3.0 CY | | | \$9,854 | 2.28 | 0.66 | 1.17 | 0.07 | 0.00 | 14 |
| | B30GB005 | 4123-G | BUCKET, CONCRETE, GENERAL PURPOSE, 4.0 CY | | | \$11,767 | 2.73 | 0.79 | 1.40 | 0.09 | 0.00 | 18 |
| | SUBCAT | EGORY 0.20 | LAYDOWN | | | | | | | | | |
| | | GAR-BRO N | IANUFACTURING COMPANY | | | | | | | | | |
| | B30GB006 | 425-A | BUCKET, CONCRETE, LAYDOWN, 1.0 CY, HEAVY DUTY AIR GATE | | | \$26,508 | 6.35 | 1.78 | 3.15 | 0.20 | 0.00 | 26 |
| | B30GB007 | 465-A | BUCKET, CONCRETE, LAYDOWN, 2.0 CY, HEAVY DUTY AIR GATE | | | \$28,702 | 6.87 | 1.93 | 3.41 | 0.22 | 0.00 | 32 |
| | B30GB008 | 495-A | BUCKET, CONCRETE, LAYDOWN, 3.0 CY, HEAVY DUTY AIR GATE | | | \$31,816 | 7.62 | 2.13 | 3.78 | 0.24 | 0.00 | 40 |
| | B30GB009 | 4125-A | BUCKET, CONCRETE, LAYDOWN, 4.0 CY, HEAVY DUTY AIR GATE | | | \$35,297 | 8.45 | 2.37 | 4.19 | 0.27 | 0.00 | 51 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B30 | | | GAR-BRO MANUFACTURING COMPANY (continued) | | | | | | | | | |
| | B30GB010 | 4155-A | BUCKET, CONCRETE, LAYDOWN, 5.0 CY, HEAVY DUTY AIR GATE | | | \$44,692 | 10.70 | 3.00 | 5.31 | 0.34 | 0.00 | 73 |
| | SUBCATI | EGORY 0.30 | LOWBOY | | | | | | | | | |
| | | | CAMLEVER | | | | | | | | | |
| | B30CR001 | LB-375 | BUCKET, CONCRETE, LOWBOY, 0.38 CY | - | | \$4,594 | 1.13 | 0.31 | 0.55 | 0.03 | 0.00 | 2 |
| | B30CR002 | LB-050 | BUCKET, CONCRETE, LOWBOY, 0.5 CY | | | \$5,154 | 1.27 | 0.35 | 0.61 | 0.04 | 0.00 | 2 |
| | B30CR003 | LB-075 | BUCKET, CONCRETE, LOWBOY, 0.75 CY | | | \$5,718 | 1.41 | 0.38 | 0.68 | 0.04 | 0.00 | 3 |
| | B30CR004 | LB-100 | BUCKET, CONCRETE, LOWBOY, 1.0 CY | | | \$6,065 | 1.50 | 0.41 | 0.72 | 0.05 | 0.00 | 5 |
| | B30CR005 | LB-150 | BUCKET, CONCRETE, LOWBOY, 1.5 CY | | | \$7,515 | 1.86 | 0.51 | 0.89 | 0.06 | 0.00 | 6 |
| | B30CR009 | LXB-150 | BUCKET, CONCRETE, LOWBOY, 1.5 CY | | | \$8,006 | 1.97 | 0.54 | 0.95 | 0.06 | 0.00 | 6 |
| | B30CR006 | LB-200 | BUCKET, CONCRETE, LOWBOY, 2.0 CY | | | \$9,279 | 2.29 | 0.62 | 1.10 | 0.07 | 0.00 | 8 |
| | B30CR010 | LXB-200 | BUCKET, CONCRETE, LOWBOY, 2.0 CY | | | \$9,775 | 2.41 | 0.65 | 1.16 | 0.07 | 0.00 | 6 |
| | B30CR011 | LXB-300 | BUCKET, CONCRETE, LOWBOY, 3.0 CY | | | \$12,255 | 3.03 | 0.82 | 1.46 | 0.09 | 0.00 | 6 |
| | B30CR012 | LXB-400 | BUCKET, CONCRETE, LOWBOY, 4.0 CY | | | \$14,375 | 3.55 | 0.97 | 1.71 | 0.11 | 0.00 | 6 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|-----------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | SUBCAT | EGORY 0.40 | LOW SLUMP | | | | | | | | | |
| | | GAR-BRO M | IANUFACTURING COMPANY | | | | | | | | | |
| | B30GB011 | 440-A | BUCKET, CONCRETE, LOW SLUMP, 1.0 CY, AIR GATE | | | \$17,181 | 4.24 | 1.15 | 2.04 | 0.13 | 0.00 | 20 |
| | B30GB012 | 450-A | BUCKET, CONCRETE, LOW SLUMP, 1.5 CY, AIR GATE | | | \$17,816 | 4.40 | 1.19 | 2.12 | 0.13 | 0.00 | 21 |
| | B30GB013 | 460-A | BUCKET, CONCRETE, LOW SLUMP, 2.0 CY, AIR GATE | | | \$18,484 | 4.56 | 1.24 | 2.19 | 0.14 | 0.00 | 24 |
| | B30GB014 | 493-A | BUCKET, CONCRETE, LOW SLUMP, 3.0 CY, AIR GATE | | | \$24,319 | 6.00 | 1.63 | 2.89 | 0.18 | 0.00 | 49 |
| | B30GB015 | 4139-A | BUCKET, CONCRETE, LOW SLUMP, 4.0 CY, AIR GATE | | | \$25,195 | 6.22 | 1.69 | 2.99 | 0.19 | 0.00 | 52 |
| | B30GB016 | 4200-A | BUCKET, CONCRETE, LOW SLUMP, 6.0 CY, AIR GATE | | | \$42,067 | 10.39 | 2.82 | 5.00 | 0.32 | 0.00 | 78 |
| | B30GB017 | 4250-A | BUCKET, CONCRETE, LOW SLUMP, 8.0 CY, AIR GATE | | | \$45,650 | 11.27 | 3.06 | 5.42 | 0.35 | 0.00 | 90 |
| B35 | BUCKE | TS, DRAGLI | NE | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | LIGHT WEIGHT | | | | | | | | | |
| | | HENDRIX MAN | IUFACTURING COMPANY, INC. | | | | | | | | | |
| | B35HE001 | LS | BUCKET, DRAGLINE, 0.75 CY, LIGHT WEIGHT/PERFORATED | | | \$8,168 | 1.84 | 0.52 | 0.92 | 0.06 | 0.00 | 15 |
| | B35HE002 | LS | BUCKET, DRAGLINE, 1.0 CY, LIGHT WEIGHT/PERFORATED | | | \$9,574 | 2.17 | 0.62 | 1.08 | 0.08 | 0.00 | 18 |
| | B35HE003 | LS | BUCKET, DRAGLINE, 1.5 CY, LIGHT WEIGHT/PERFORATED | | | \$13,564 | 3.07 | 0.88 | 1.53 | 0.11 | 0.00 | 26 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------|---|----------------------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B35 | | | HENDRIX MANUFACTURING COMPANY, INC. (continued) | | | | | | | | | |
| | B35HE004 | LS | BUCKET, DRAGLINE, 2.0 CY, LIGHT WEIGHT/PERFORATED | - | | \$16,375 | 3.70 | 1.05 | 1.84 | 0.13 | 0.00 | 32 |
| | B35HE005 | LS | BUCKET, DRAGLINE, 2.5 CY, LIGHT WEIGHT/PERFORATED | | | \$18,753 | 4.24 | 1.21 | 2.11 | 0.15 | 0.00 | 37 |
| | B35HE006 | LS | BUCKET, DRAGLINE, 3.0 CY, LIGHT WEIGHT/PERFORATED | | | \$23,384 | 5.28 | 1.50 | 2.63 | 0.18 | 0.00 | 46 |
| | B35HE007 | LS | BUCKET, DRAGLINE, 3.5 CY, LIGHT WEIGHT/PERFORATED | | | \$25,431 | 5.74 | 1.63 | 2.86 | 0.20 | 0.00 | 50 |
| | B35HE008 | LS | BUCKET, DRAGLINE, 4.0 CY, LIGHT WEIGHT/PERFORATED | | | \$33,392 | 7.54 | 2.14 | 3.76 | 0.26 | 0.00 | 65 |
| | B35HE009 | LS | BUCKET, DRAGLINE, 4.5 CY, LIGHT WEIGHT/PERFORATED | | | \$35,025 | 7.91 | 2.24 | 3.94 | 0.27 | 0.00 | 69 |
| | B35HE010 | LS | BUCKET, DRAGLINE, 5.0 CY, LIGHT WEIGHT/PERFORATED | | | \$40,517 | 9.15 | 2.60 | 4.56 | 0.32 | 0.00 | 85 |
| | B35HE011 | LS | BUCKET, DRAGLINE, 6.0 CY, LIGHT WEIGHT/PERFORATED | | | \$43,866 | 9.90 | 2.81 | 4.93 | 0.34 | 0.00 | 92 |
| | B35HE012 | LS | BUCKET, DRAGLINE, 7.0 CY, LIGHT WEIGHT/PERFORATED | | | \$47,980 | 10.84 | 3.08 | 5.40 | 0.38 | 0.00 | 101 |
| | B35HE013 | LS | BUCKET, DRAGLINE, 8.0 CY, LIGHT WEIGHT/PERFORATED | | | \$53,168 | 12.01 | 3.41 | 5.98 | 0.42 | 0.00 | 112 |
| | B35HE014 | LS | BUCKET, DRAGLINE, 9.0 CY, LIGHT WEIGHT/PERFORATED | | | \$60,838 | 13.74 | 3.90 | 6.84 | 0.48 | 0.00 | 128 |
| | B35HE015 | LS | BUCKET, DRAGLINE, 10.0 CY, LIGHT WEIGHT/PERFORATED | | | \$66,130 | 14.94 | 4.24 | 7.44 | 0.52 | 0.00 | 139 |
| | B35HE016 | LS | BUCKET, DRAGLINE, 12.0 CY, LIGHT WEIGHT/PERFORATED | | | \$78,988 | 17.84 | 5.07 | 8.89 | 0.62 | 0.00 | 166 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------|---|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B35 | | | HENDRIX MANUFACTURING COMPANY, INC. (continued) | | | | | | | | | |
| | B35HE017 | LS | BUCKET, DRAGLINE, 14.0 CY, LIGHT WEIGHT/PERFORATED | | | \$90,875 | 20.52 | 5.82 | 10.22 | 0.71 | 0.00 | 191 |
| | | SAUERMAN | I (NATIONAL OILWELL VARCO) | | | | | | | | | |
| | B35SA001 | SC-1050-K | BUCKET, DRAGLINE, 1.0 CY, CRESCENT, W/CARRIER | | | \$58,752 | 13.27 | 3.77 | 6.61 | 0.46 | 0.00 | 15 |
| | B35SA003 | SC-1070-K | BUCKET, DRAGLINE, 2.0 CY, CRESCENT, W/CARRIER | | | \$88,089 | 19.89 | 5.65 | 9.91 | 0.69 | 0.00 | 25 |
| | B35SA004 | SC-1090-K | BUCKET, DRAGLINE, 3.0 CY, CRESCENT, W/CARRIER | | | \$132,236 | 29.87 | 8.48 | 14.88 | 1.04 | 0.00 | 36 |
| | B35SA005 | SC-1100-K | BUCKET, DRAGLINE, 4.0 CY, CRESCENT, W/CARRIER | | | \$176,334 | 39.82 | 11.30 | 19.84 | 1.38 | 0.00 | 49 |
| | B35SA006 | SC-1110-K | BUCKET, DRAGLINE, 5.0 CY, CRESCENT, W/CARRIER | | | \$220,631 | 49.83 | 14.14 | 24.82 | 1.73 | 0.00 | 58 |
| | B35SA007 | SC-1120-K | BUCKET, DRAGLINE, 6.0 CY, CRESCENT, W/CARRIER | | | \$264,396 | 59.70 | 16.94 | 29.74 | 2.07 | 0.00 | 68 |
| | B35SA008 | SC-1130-K | BUCKET, DRAGLINE, 8.0 CY, CRESCENT, W/CARRIER | | | \$352,475 | 79.60 | 22.59 | 39.65 | 2.76 | 0.00 | 88 |
| | B35SA009 | SC-1140-K | BUCKET, DRAGLINE, 10.0 CY,CRESCENT, W/CARRIER | | | \$440,517 | 99.48 | 28.23 | 49.56 | 3.45 | 0.00 | 106 |
| | B35SA010 | SC-1150-K | BUCKET, DRAGLINE, 12.0 CY,CRESCENT, W/CARRIER | | | \$528,713 | 119.40 | 33.88 | 59.48 | 4.14 | 0.00 | 132 |
| | | NO SP | PECIFIC MANUFACTURER | | | | | | | | | |
| | B35XX001 | 6-1/2L | BUCKET, DRAGLINE, 6.5 CY, LIGHT WEIGHT | | | \$32,491 | 7.34 | 2.08 | 3.66 | 0.25 | 0.00 | 94 |
| | B35XX002 | 7-1/2L | BUCKET, DRAGLINE, 7.5 CY, LIGHT WEIGHT | | | \$36,537 | 8.25 | 2.35 | 4.11 | 0.29 | 0.00 | 106 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|---|----------------------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B35 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | |
| | B35XX003 | 8-1/2L | BUCKET, DRAGLINE, 8.5 CY, LIGHT WEIGHT | | | \$40,398 | 9.12 | 2.59 | 4.54 | 0.32 | 0.00 | 116 |
| | B35XX004 | 9-1/2L | BUCKET, DRAGLINE, 9.5 CY, LIGHT WEIGHT | | | \$46,072 | 10.40 | 2.95 | 5.18 | 0.36 | 0.00 | 132 |
| | B35XX005 | 11L | BUCKET, DRAGLINE, 11.0 CY, LIGHT WEIGHT | | | \$51,728 | 11.69 | 3.32 | 5.82 | 0.41 | 0.00 | 148 |
| | B35XX006 | 13L | BUCKET, DRAGLINE, 13.0 CY, LIGHT WEIGHT | | | \$63,628 | 14.37 | 4.08 | 7.16 | 0.50 | 0.00 | 178 |
| | SUBCAT | EGORY 0.20 | MEDIUM WEIGHT | | | | | | | | | |
| | | HENDRIX MAN | IUFACTURING COMPANY, INC. | | | | | | | | | |
| | B35HE018 | TS | BUCKET, DRAGLINE, 0.75 CY, MEDIUM WEIGHT | | | \$8,829 | 1.78 | 0.51 | 0.88 | 0.07 | 0.00 | 17 |
| | B35HE019 | TS | BUCKET, DRAGLINE, 1.0 CY, MEDIUM WEIGHT | | | \$10,111 | 2.04 | 0.59 | 1.01 | 0.08 | 0.00 | 19 |
| | B35HE020 | TS | BUCKET, DRAGLINE, 1.5 CY, MEDIUM WEIGHT | | | \$14,432 | 2.90 | 0.83 | 1.44 | 0.11 | 0.00 | 28 |
| | B35HE021 | TS | BUCKET, DRAGLINE, 2.0 CY, MEDIUM WEIGHT | | | \$18,215 | 3.67 | 1.05 | 1.82 | 0.14 | 0.00 | 36 |
| | B35HE022 | TS | BUCKET, DRAGLINE, 2.5 CY, MEDIUM WEIGHT | | | \$21,007 | 4.23 | 1.21 | 2.10 | 0.16 | 0.00 | 41 |
| | B35HE023 | TS | BUCKET, DRAGLINE, 3.0 CY, MEDIUM WEIGHT | | | \$25,101 | 5.05 | 1.45 | 2.51 | 0.19 | 0.00 | 49 |
| | B35HE024 | TS | BUCKET, DRAGLINE, 3.5 CY, MEDIUM WEIGHT | | | \$27,686 | 5.58 | 1.60 | 2.77 | 0.21 | 0.00 | 54 |
| | B35HE025 | TS | BUCKET, DRAGLINE, 4.0 CY, MEDIUM WEIGHT | | | \$35,873 | 7.23 | 2.08 | 3.59 | 0.28 | 0.00 | 70 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------|--|----------------------|--------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| B35 | | | HENDRIX MANUFACTURING COMPANY, INC. (continued) | | | | | | | | | |
| | B35HE026 | TS | BUCKET, DRAGLINE, 4.5 CY, MEDIUM WEIGHT | | | \$36,638 | 7.38 | 2.11 | 3.66 | 0.28 | 0.00 | 72 |
| | B35HE027 | TS | BUCKET, DRAGLINE, 5.0 CY, MEDIUM WEIGHT | | | \$44,404 | 8.94 | 2.56 | 4.44 | 0.34 | 0.00 | 93 |
| | B35HE028 | TS | BUCKET, DRAGLINE, 6.0 CY, MEDIUM WEIGHT | | | \$45,913 | 9.25 | 2.65 | 4.59 | 0.35 | 0.00 | 96 |
| | B35HE029 | TS | BUCKET, DRAGLINE, 7.0 CY, MEDIUM WEIGHT | | | \$52,942 | 10.66 | 3.06 | 5.29 | 0.41 | 0.00 | 111 |
| | B35HE030 | TS | BUCKET, DRAGLINE, 8.0 CY, MEDIUM WEIGHT | | | \$58,338 | 11.75 | 3.37 | 5.83 | 0.45 | 0.00 | 122 |
| | B35HE031 | TS | BUCKET, DRAGLINE, 9.0 CY, MEDIUM WEIGHT | | | \$70,988 | 14.31 | 4.10 | 7.10 | 0.55 | 0.00 | 149 |
| | B35HE032 | TS | BUCKET, DRAGLINE, 10.0 CY, MEDIUM WEIGHT | | | \$75,639 | 15.23 | 4.36 | 7.56 | 0.58 | 0.00 | 159 |
| | B35HE033 | TS | BUCKET, DRAGLINE, 12.0 CY, MEDIUM WEIGHT | | | \$96,374 | 19.42 | 5.56 | 9.64 | 0.74 | 0.00 | 202 |
| | B35HE034 | TS | BUCKET, DRAGLINE, 14.0 CY, MEDIUM WEIGHT | | | \$107,393 | 21.64 | 6.20 | 10.74 | 0.83 | 0.00 | 225 |
| | | NO S | SPECIFIC MANUFACTURER | | | | | | | | | |
| | B35XX007 | 6-1/2M | BUCKET, DRAGLINE, 6.5 CY, MEDIUM WEIGHT | | | \$36,715 | 7.39 | 2.12 | 3.67 | 0.28 | 0.00 | 101 |
| | B35XX008 | 7-1/2M | BUCKET, DRAGLINE, 7.5 CY, MEDIUM WEIGHT | | | \$41,980 | 8.46 | 2.42 | 4.20 | 0.32 | 0.00 | 117 |
| | B35XX009 | 8-1/2M | BUCKET, DRAGLINE, 8.5 CY, MEDIUM WEIGHT | | | \$45,203 | 9.11 | 2.61 | 4.52 | 0.35 | 0.00 | 126 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|---|-----------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B35 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | |
| | B35XX010 | 9-1/2M | BUCKET, DRAGLINE, 9.5 CY, MEDIUM WEIGHT | | | \$53,781 | 10.84 | 3.11 | 5.38 | 0.42 | 0.00 | 152 |
| | B35XX011 | 11M | BUCKET, DRAGLINE, 11.0 CY, MEDIUM WEIGHT | | | \$59,474 | 11.99 | 3.44 | 5.95 | 0.46 | 0.00 | 169 |
| | B35XX012 | 13M | BUCKET, DRAGLINE, 13.0 CY, MEDIUM WEIGHT | | | \$75,365 | 15.19 | 4.35 | 7.54 | 0.58 | 0.00 | 211 |
| | SUBCAT | EGORY 0.30 | HEAVY WEIGHT | | | | | | | | | |
| | | HENDRIX MAN | NUFACTURING COMPANY, INC. | | | | | | | | | |
| | B35HE035 | MH-S | BUCKET, DRAGLINE, 2.75 CY, HEAVY WEIGHT | | | \$32,977 | 6.00 | 1.74 | 2.97 | 0.25 | 0.00 | 69 |
| | B35HE036 | MH-S | BUCKET, DRAGLINE, 3.0 CY, HEAVY WEIGHT | | | \$34,410 | 6.26 | 1.81 | 3.10 | 0.26 | 0.00 | 72 |
| | B35HE037 | MH-S | BUCKET, DRAGLINE, 3.5 CY, HEAVY WEIGHT | | | \$38,708 | 7.05 | 2.04 | 3.48 | 0.30 | 0.00 | 81 |
| | B35HE038 | MH-S | BUCKET, DRAGLINE, 4.0 CY, HEAVY WEIGHT | | | \$52,570 | 9.57 | 2.77 | 4.73 | 0.40 | 0.00 | 110 |
| | B35HE039 | MH-S | BUCKET, DRAGLINE, 4.5 CY, HEAVY WEIGHT | | | \$58,787 | 10.70 | 3.10 | 5.29 | 0.45 | 0.00 | 123 |
| | B35HE040 | MH-S | BUCKET, DRAGLINE, 5.0 CY, HEAVY WEIGHT | | | \$60,690 | 11.04 | 3.19 | 5.46 | 0.46 | 0.00 | 127 |
| | B35HE041 | MH-S | BUCKET, DRAGLINE, 6.0 CY, HEAVY WEIGHT | | | \$64,993 | 11.84 | 3.43 | 5.85 | 0.50 | 0.00 | 136 |
| | B35HE042 | MH-S | BUCKET, DRAGLINE, 7.0 CY, HEAVY WEIGHT | | | \$83,634 | 15.23 | 4.41 | 7.53 | 0.64 | 0.00 | 175 |
| | B35HE043 | MH-S | BUCKET, DRAGLINE, 8.0 CY, HEAVY WEIGHT | | | \$86,024 | 15.66 | 4.53 | 7.74 | 0.66 | 0.00 | 180 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B35 | | | HENDRIX MANUFACTURING COMPANY, INC. (continued) | | | | | | | | | |
| | B35HE044 | MH-S | BUCKET, DRAGLINE, 9.0 CY, HEAVY WEIGHT | | | \$111,833 | 20.35 | 5.88 | 10.06 | 0.85 | 0.00 | 234 |
| | B35HE045 | MH-S | BUCKET, DRAGLINE, 10.0 CY, HEAVY WEIGHT | | | \$115,762 | 21.07 | 6.09 | 10.42 | 0.88 | 0.00 | 243 |
| | B35HE046 | MH-S | BUCKET, DRAGLINE, 12.0 CY, HEAVY WEIGHT | | | \$137,673 | 25.06 | 7.25 | 12.39 | 1.05 | 0.00 | 289 |
| | B35HE047 | MH-S | BUCKET, DRAGLINE, 14.0 CY, HEAVY WEIGHT | | | \$146,508 | 26.68 | 7.72 | 13.19 | 1.12 | 0.00 | 309 |
| | | NO S | SPECIFIC MANUFACTURER | | | | | | | | | |
| | B35XX013 | 3/4H | BUCKET, DRAGLINE, 0.75 CY, HEAVY WEIGHT | | | \$9,247 | 1.68 | 0.49 | 0.83 | 0.07 | 0.00 | 20 |
| | B35XX014 | 1H | BUCKET, DRAGLINE, 1.0 CY, HEAVY WEIGHT | | | \$10,388 | 1.89 | 0.55 | 0.93 | 0.08 | 0.00 | 23 |
| | B35XX015 | 1-1/2H | BUCKET, DRAGLINE, 1.5 CY, HEAVY WEIGHT | | | \$15,449 | 2.81 | 0.82 | 1.39 | 0.12 | 0.00 | 35 |
| | B35XX016 | 2H | BUCKET, DRAGLINE, 2.0 CY, HEAVY WEIGHT | | | \$17,640 | 3.21 | 0.93 | 1.59 | 0.13 | 0.00 | 42 |
| | B35XX017 | 2-1/2H | BUCKET, DRAGLINE, 2.5 CY, HEAVY WEIGHT | | | \$19,273 | 3.51 | 1.02 | 1.73 | 0.15 | 0.00 | 48 |
| | B35XX018 | 5-1/2H | BUCKET, DRAGLINE, 5.5 CY, HEAVY WEIGHT | | | \$41,227 | 7.50 | 2.17 | 3.71 | 0.31 | 0.00 | 113 |
| | B35XX019 | 6-1/2H | BUCKET, DRAGLINE, 6.5 CY, HEAVY WEIGHT | | | \$44,023 | 8.02 | 2.32 | 3.96 | 0.34 | 0.00 | 125 |
| | B35XX020 | 7-1/2H | BUCKET, DRAGLINE, 7.5 CY, HEAVY WEIGHT | | | \$49,663 | 9.04 | 2.62 | 4.47 | 0.38 | 0.00 | 135 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | <u> </u> | REGION 1 | E | | | | SEPOWER . TYPE | VALUE (TEV) | TOTAL H | | | JUSTAE LEMEN | | |
|-----|----------|------------|--|-----|-----|------|----|-------------------|----------------|---------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | M | AIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| B35 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | | | |
| | B35XX021 | 8-1/2H | BUCKET, DRAGLINE, 8.5 CY, HEAVY WEIGHT | | | | | | \$54,095 | 9.85 | 2.85 | 4.87 | 0.41 | 0.00 | 159 |
| | B35XX022 | 9-1/2H | BUCKET, DRAGLINE, 9.5 CY, HEAVY WEIGHT | | | | | | \$68,221 | 12.42 | 3.59 | 6.14 | 0.52 | 0.00 | 181 |
| | B35XX023 | 11H | BUCKET, DRAGLINE, 11.0 CY, HEAVY WEIGHT | | | | | | \$73,104 | 13.31 | 3.85 | 6.58 | 0.56 | 0.00 | 198 |
| C05 | CHAIN | SAWS | | | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CHAIN SAWS | | | | | | | | | | | | |
| | | OLY | MPYK CHAIN SAWS | | | | | | | | | | | | |
| | C05OL001 | 941 | CHAIN SAW, 16"-18" BAR | 2 | HP | G | | | \$376 | 1.56 | 0.09 | 0.17 | 0.00 | 0.70 | 1 |
| | C05OL002 | 962 | CHAIN SAW, 16"-24" BAR | 5 | HP | G | | | \$593 | 2.86 | 0.15 | 0.27 | 0.01 | 1.44 | 1 |
| | C05OL003 | 970 | CHAIN SAW, 16"-36" BAR | 5 | HP | G | | | \$721 | 3.29 | 0.17 | 0.32 | 0.01 | 1.59 | 1 |
| | C05OL004 | 980 | CHAIN SAW, 16"-42" BAR | 6 | HP | G | | | \$785 | 3.59 | 0.19 | 0.35 | 0.01 | 1.74 | 1 |
| C10 | COMPA | CTORS, WA | ALK-BEHIND OR REMOTE CONTI | ROL | LE | R | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | COMPACTORS, RAMMERS / TAMPER | S & | VIB | RATO | RY | PLATES | | | | | | | |
| | | COMPAC | CTION AMERICA (BOMAG) | | | | | | | | | | | | |
| | C10BO001 | BT 60/4 | COMPACTOR, RAMMER, TAMPER, 11" X 13.2" SHOE, 2,630 LBS IMPACT | 3 | HP | G | | | \$4,130 | 3.59 | 0.53 | 0.98 | 0.04 | 0.92 | 2 |
| | C10BO003 | BP 10/36-2 | COMPACTOR, VIBROPLATE, 14.2" X 22" PLATE, 2,250 LBS IMPACT | 4 | HP | G | | | \$1,587 | 2.34 | 0.20 | 0.38 | 0.01 | 1.22 | 2 |
| | C10BO004 | BP 18/45-2 | COMPACTOR, VIBROPLATE, 17.7" X 22" PLATE, 4,050 LBS IMPACT | 6 | HP | G | | | \$1,863 | 3.20 | 0.24 | 0.44 | 0.02 | 1.83 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|----|----|-------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | ΙN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C10 | | | COMPACTION AMERICA (BOMAG) (continued) | | | | | | | | | | | |
| | C10BO008 | BPR 55/65D | COMPACTOR, VIBROPLATE, 25.6" X 35.4" PLATE, REVERSIBLE, 11,250 LBS IMPACT | 9 | HP | D-off | | \$16,340 | 11.71 | 2.08 | 3.88 | 0.14 | 1.42 | 10 |
| | | WAC | CKER CORPORATION | | | | | | | | | | | |
| | C10WC003 | DS 70 | COMPACTOR, RAMMER, 13" X 13" SHOE, 3,550 LBS IMPACT | 4 | HP | D-off | | \$3,957 | 3.15 | 0.50 | 0.94 | 0.03 | 0.63 | 2 |
| | C10WC006 | BPU 2540 A | COMPACTOR, VIBROPLATE, 19.5" X 25.5" PLATE, REVERSIBLE, 5,600 LBS IMPACT | 6 | HP | G | | \$5,155 | 5.06 | 0.65 | 1.22 | 0.04 | 1.68 | 3 |
| | C10WC007 | BPU 3545A | COMPACTOR, VIBROPLATE, 23.5" X 35.5" PLATE, REVERSIBLE, 7,550 LBS IMPACT | 9 | HP | G | | \$7,886 | 7.95 | 1.01 | 1.87 | 0.07 | 2.75 | 7 |
| | C10WC008 | DPU 4045H | COMPACTOR, VIBROPLATE, 24" X 35.5" PLATE, REVERSIBLE, 9,000 LBS IMPACT | 9 | HP | D-off | | \$14,227 | 10.40 | 1.81 | 3.38 | 0.12 | 1.42 | 7 |
| | C10WC015 | DPU 7060 | COMPACTOR, VIBROPLATE, 25.5" X 42" PLATE, REVERSIBLE, 15,600 LBS IMPACT | 14 | HP | D-off | | \$28,170 | 19.90 | 3.59 | 6.69 | 0.24 | 2.20 | 15 |
| | SUBCAT | EGORY 0.20 | ROLLERS, VIBRATORY | | | | | | | | | | | |
| | | COMPAC | CTION AMERICA (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 | | \$8,441 | 6.38 | 0.98 | 1.79 | 0.08 | 1.22 | 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 | | \$19,802 | 12.66 | 2.29 | 4.21 | 0.18 | 0.79 | 13 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------|--|----|----|-------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C10 | | | COMPACTION AMERICA (BOMAG) (continued) | | | | | | | | | | | |
| | 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-off | | \$22,265 | 14.65 | 2.57 | 4.73 | 0.20 | 1.26 | 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 | | \$24,837 | 16.36 | 2.86 | 5.28 | 0.22 | 1.42 | 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-off | | \$50,889 | 33.60 | 5.87 | 10.81 | 0.46 | 2.99 | 45 |
| | | RAN | IMAX MACHINERY CO. | | | | | | | | | | | |
| | C10RX001 | P23/16FM | COMPACTOR, TRENCH ROLLER, VIBRATORY, 23"W X 14.6"DIA, QUAD PADFOOT DRUMS, WALK BEHIND, 7,875 LBS IMPACT | 8 | HP | D-off | | \$33,142 | 21.12 | 3.82 | 7.04 | 0.30 | 1.26 | 16 |
| | C10RX002 | P33/24FMR | COMPACTOR, TRENCH ROLLER, VIBRATORY, 33"W X 21.7"DIA, QUAD PADFOOT DRUMS, WALK BEHIND, 15,652 LBS IMPACT | 14 | HP | D-off | | \$45,788 | 29.69 | 5.28 | 9.73 | 0.41 | 2.20 | 30 |
| | C10RX003 | P47/40KM | COMPACTOR, TRENCH ROLLER, VIBRATORY, 47"W X 22"DIA, QUAD PADFOOT DRUMS, RIDE ON, 21,600 LBS IMPACT | 33 | HP | D-off | | \$76,652 | 51.39 | 8.84 | 16.29 | 0.69 | 5.19 | 66 |
| | | WA | CKER CORPORATION | | | | | | | | | | | |
| | C10WC010 | RSS800A | COMPACTOR, ROLLER, VIBRATORY, 28"W X 22"DIA, SINGLE SMOOTH DRUM, WALK BEHIND, 3,400 LBS IMPACT | 11 | HP | G | | \$10,134 | 9.77 | 1.17 | 2.15 | 0.09 | 3.36 | 11 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|--|----|----|-------|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C10 | | | WACKER CORPORATION (continued) | | | | | | | | | | | |
| | C10WC017 | RD7H | COMPACTOR, ROLLER, VIBRATORY,25.5"W X 16.5"DIA, DOUBLE SMOOTH DRUM, WALK BEHIND, 2,925 LBS IMPACT | 9 | HP | D-off | | \$13,456 | 9.59 | 1.55 | 2.86 | 0.12 | 1.42 | 16 |
| | C10WC019 | RT 56-SC | COMPACTOR, ROLLER, VIBRATORY, 22"W X 20"DIA, DOUBLE SMOOTH DRUM, WALK BEHIND, 7,000/14,000 LBS IMPACT | 20 | HP | D-off | | \$33,393 | 23.38 | 3.85 | 7.10 | 0.30 | 3.15 | 31 |
| | C10WC016 | RT 82-SC | COMPACTOR, TRENCH ROLLER, VIBRATORY, 32"W X 20"DIA, DOUBLE TAMPING FOOT DRUMS, WALK BEHIND, 7,000/14,000 LBS IMPACT | 20 | HP | D-off | | \$35,220 | 24.47 | 4.06 | 7.48 | 0.32 | 3.15 | 33 |
| C15 | CONCR | ETE CLEAN | ERS / ABRASIVE BLASTERS | | | | | | | | | | | |
| | | EGORY 0.10 | WALK BEHIND | | | | | | | | | | | |
| | | US | FILTER/BLASTRAC | | | | | | | | | | | |
| | C15BL001 | 1-8DEC & BDC- 1216 | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 8" PATH (ADD 4 KVA GENERATOR & BLAST MEDIA COST) | 2 | HP | E | | \$9,957 | 5.66 | 1.09 | 1.99 | 0.09 | 0.18 | 2 |
| | C15BL003 | 1-10DSG1 & 6- 54DCG1 | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 10" PATH (ADD 30 KVA GENERATOR & BLAST MEDIA COST) | 10 | HP | E | | \$39,295 | 22.20 | 4.29 | 7.86 | 0.36 | 0.92 | 7 |
| | C15BL004 | 1-15DSG1 & 6- 54DCG1 | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 15" PATH (ADD 30 KVA GENERATOR & BLAST MEDIA COST) | 15 | HP | E | | \$45,152 | 26.08 | 4.94 | 9.03 | 0.42 | 1.39 | 8 |
| | C15BL005 | 2-20DT & 8- 54DCG1 | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 20" PATH (ADD 75 KVA GENERATOR & BLAST MEDIA COST) | 30 | HP | E | | \$63,374 | 37.45 | 6.92 | 12.67 | 0.58 | 2.77 | 12 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|-----|----|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | E | EQUIPMENT DI | EVELOPMENT CO., INC. (EDCO) | | | | | | | | | | | |
| | C15ED002 | CPM-8 | CONCRETE GRINDER, WALK BEHIND, TRAFFIC LINE REMOVER, 8" CUTTING PATH | 9 | HP | G | | \$5,168 | 5.00 | 0.57 | 1.03 | 0.05 | 2.14 | 2 |
| | C15ED001 | TLR-7 | CONCRETE GRINDER, WALK BEHIND, TRAFFIC LINE REMOVER, 7" CUTTING WIDTH | 11 | HP | G | | \$8,557 | 7.21 | 0.94 | 1.71 | 0.08 | 2.61 | 5 |
| | SUBCAT | EGORY 0.20 | TRUCK/TRAILER MOUNTED | | | | | | | | | | | |
| | | us | FILTER/BLASTRAC | | | | | | | | | | | |
| | C15BL006 | 2-4800 DH | CONCRETE BLASTER, SELF PROPELLED, 48" PATH | 350 | HP | D-off | | \$472,763 | 182.95 | 27.59 | 47.28 | 3.95 | 57.65 | 255 |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | | |
| | C15XX001 | | CONCRETE CLEANER/ABRASIVE BLASTER, TRUCK MOUNTED, GINDER/BLASTER, 4" - 16" CLEANING PATH WIDTH | 86 | HP | D-on | 180 HP D-off | \$146,498 | 72.85 | 8.42 | 14.39 | 1.22 | 32.03 | 138 |
| C20 | CONCR | ETE BUGGI | ES | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CONCRETE BUGGIES | | | | | | | | | | | |
| | | WAC | KER CORPORATION | | | | | | | | | | | ĺĺ |
| | C20WC002 | WB 16A | CONCRETE BUGGY, 16 CF BUCKET, 2,500 LBS, WALK & RIDE, 4X2 | 13 | HP | G | | \$12,659 | 8.69 | 1.23 | 2.22 | 0.12 | 3.09 | 13 |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | | |
| | C20XX001 | 16G | CONCRETE BUGGY, 16 CF BUCKET, 1,500 LBS | 13 | HP | G | | \$8,277 | 6.94 | 0.81 | 1.45 | 0.08 | 3.09 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|---------------|---|----|----|---|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C25 | CONCR | RETE FINISH | ERS/SCREEDS/SPREADERS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | FINISHERS/TROWELS | | | | | | | | | | | |
| | | ALLEN | ENGINEERING CORP. | | | | | | | | | | | |
| | C25AJ015 | PRO 900 | CONCRETE TROWEL, RIDING, 2 - 36" DIA ROTORS, 8 BLADES | 20 | HP | G | | \$12,486 | 10.08 | 1.11 | 2.00 | 0.11 | 4.75 | 8 |
| | C25AJ016 | PRO 1050 | CONCRETE TROWEL, RIDING, 2 - 42" DIA ROTORS, 8 BLADES | 24 | HP | G | | \$14,000 | 11.74 | 1.24 | 2.24 | 0.12 | 5.70 | 9 |
| | C25AJ018 | PRO 1200 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 8 BLADES | 24 | HP | G | | \$14,537 | 11.94 | 1.30 | 2.33 | 0.13 | 5.70 | 11 |
| | C25AJ019 | SUPER PRO 400 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 8 BLADES | 34 | HP | G | | \$19,961 | 16.68 | 1.78 | 3.19 | 0.18 | 8.08 | 13 |
| | | STOW I | MANUFACTURING, INC. | | | | | | | | | | | |
| | C25ST001 | SCT36H80 | CONCRETE FINISHER, WALK BEHIND, ROTO TROWEL, 36" DIA ROTOR, 4 BLADES | 8 | HP | G | | \$2,810 | 3.23 | 0.25 | 0.45 | 0.02 | 1.90 | 3 |
| | C25ST002 | SCT46H80 | CONCRETE FINISHER, WALK BEHIND, ROTO TROWEL, 46" DIA ROTOR, 4 BLADES | 9 | HP | G | | \$2,882 | 3.53 | 0.26 | 0.46 | 0.03 | 2.14 | 3 |
| | | WAC | KER CORPORATION | | | | | | | | | | | |
| | C25WC002 | CT48ADP | CONCRETE FINISHER, WALK BEHIND, POWER TROWEL, 48" DIA ROTOR, 4 BLADES | 8 | HP | G | | \$3,521 | 3.49 | 0.31 | 0.56 | 0.03 | 1.90 | 3 |
| | SUBCAT | EGORY 0.20 | VIBRATORY SCREED | | | | | | | | | | | |
| | | ALLEN | ENGINEERING CORP. | | | | | | | | | | | |
| | C25AJ003 | 12HED | CONCRETE, VIBRATORY SCREED, 22.5' WIDE | 6 | HP | G | | \$8,600 | 4.82 | 0.77 | 1.38 | 0.08 | 1.43 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|---------------------|--|----|------|-------|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C25 | | | ALLEN ENGINEERING CORP. (continued) | | | | | | | | | | | |
| | C25AJ001 | 12 HD | CONCRETE, VIBRATORY SCREED, 20' WIDE | 6 | HP | G | | \$5,079 | 3.52 | 0.46 | 0.81 | 0.05 | 1.43 | 5 |
| | C25AJ004 | 12HED | CONCRETE, VIBRATORY SCREED, 32.5' WIDE | 9 | HP | G | | \$9,710 | 6.04 | 0.87 | 1.55 | 0.09 | 2.14 | 8 |
| | C25AJ005 | 12HED | CONCRETE, VIBRATORY SCREED, 42.5' WIDE | 11 | HP | G | | \$10,860 | 7.02 | 0.97 | 1.74 | 0.10 | 2.61 | 11 |
| | C25AJ006 | 12HED | CONCRETE, VIBRATORY SCREED, 50' WIDE | 11 | HP | G | | \$12,274 | 7.53 | 1.09 | 1.96 | 0.11 | 2.61 | 12 |
| | C25AJ007 | 12HED | CONCRETE, VIBRATORY SCREED, 55' WIDE | 11 | HP | G | | \$12,966 | 7.78 | 1.15 | 2.07 | 0.11 | 2.61 | 13 |
| | SUBCAT | EGORY 0.25 | VIBRATORY LASER SCREED | | | | | | | | | | | |
| | | SOMER | O ENTERPRISES, INC. | | | | | | | | | | | |
| | C25SV003 | S-100 | CONCRETE, VIBRATORY LASER SCREED, 8' WIDE X 12' BOOM | 30 | HP | D-off | | \$158,142 | 34.05 | 8.24 | 13.68 | 1.40 | 3.40 | 72 |
| | C25SV002 | SXP (VERSATILE) | CONCRETE, VIBRATORY LASER SCREED, 8' WIDE X 20' BOOM | 65 | HP | D-off | | \$316,111 | 68.74 | 16.55 | 27.47 | 2.81 | 7.37 | 126 |
| | C25SV001 | SXP (PRODUCTIVE) | CONCRETE, VIBRATORY LASER SCREED, 12' WIDE X 20' BOOM | 65 | HP | D-off | | \$336,399 | 72.60 | 17.60 | 29.21 | 2.99 | 7.37 | 151 |
| | SUBCAT | EGORY 0.30 | MATERIAL/TOPPING SPREADERS | | | | | | | | | | | |
| | | ALLEN | ENGINEERING CORP. | | | | | | | | | | | |
| | C25AJ008 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 12.5' WIDE | 6 | HP | G | | \$17,311 | 4.75 | 0.91 | 1.51 | 0.15 | 1.22 | 11 |
| | C25AJ009 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 20' WIDE | 6 | HP | G | | \$18,383 | 4.96 | 0.97 | 1.61 | 0.16 | 1.22 | 12 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------------------|---|----|-----|-------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C25 | | | ALLEN ENGINEERING CORP. (continued) | | | | | | | | | | | |
| | C25AJ010 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 30' WIDE | 6 | HP | G | | \$19,646 | 5.19 | 1.03 | 1.72 | 0.17 | 1.22 | 13 |
| | C25AJ011 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 40' WIDE | 6 | HP | G | | \$21,043 | 5.46 | 1.11 | 1.84 | 0.19 | 1.22 | 14 |
| | C25AJ012 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 50' WIDE | 6 | HP | G | | \$22,337 | 5.71 | 1.18 | 1.95 | 0.20 | 1.22 | 15 |
| | C25AJ013 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 60' WIDE | 6 | HP | G | | \$23,652 | 5.96 | 1.25 | 2.07 | 0.21 | 1.22 | 17 |
| C35 | CONCR | ETE GUNIT | ERS / SHOTCRETERS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CONCRETE GUNITERS / SHOTCRETER | s | | | | | | | | | | |
| | | AIRPLAC | CO EQUIPMENT CO., INC. | | | | | | | | | | | |
| | 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 | Α | | \$16,664 | 6.57 | 1.03 | 1.75 | 0.15 | 0.00 | 6 |
| | C35AF004 | 634D Mix Elevator | CONCRETE GUNITER/SHOTCRETER, DRY BATCH MIXER, 13 CY/HR, W/FEEDER, TRAILER MTD (ADD SHOTCRETE MACHINE) | 30 | HP | D-off | | \$47,460 | 19.53 | 2.92 | 5.02 | 0.41 | 3.95 | 45 |
| | 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 | | \$69,573 | 29.16 | 4.26 | 7.30 | 0.61 | 7.12 | 81 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|---------------------------|--|----|------|-------|--------------------|----------------|---------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | ALLE | NTOWN EQUIPMENT | | | | | | | | | | | |
| | C35AL003 | 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 | | \$16,914 | 5.44 | 0.95 | 1.59 | 0.15 | 0.50 | 11 |
| | C35AL013 | AG-15 AUTOMATIC GUN | CONCRETE GUNITER/SHOTCRETER, ROTARY PUMP, WET/DRY, 3 - 15 CY/HR, W/HOPPER/ 100' - 1.5" DIA HOSE/ & NOZZLE (ADD 300 - 900 CFM COMPRESSOR) | 9 | CFM | Α | | \$14,346 | 4.27 | 0.85 | 1.43 | 0.13 | 0.00 | 15 |
| | C35AL008 | 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 | Α | | \$27,646 | 7.92 | 1.72 | 2.96 | 0.24 | 0.00 | 13 |
| | C35AL002 | 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) | 30 | HP | D-off | | \$47,515 | 18.41 | 2.85 | 4.87 | 0.41 | 3.95 | 47 |
| | C35AL014 | POWER CRETER 10 | CONCRETE GUNITER/SHOTCRETER, GROUT/MUD JACK/ SHOTCRETE, 10 CY/HR, 2,085 PSI, W/30 GAL HOPPER/ 74 GAL MIXER, TRAILER MTD (ADD 3" HOSE LINE) | 61 | HP | D-off | | \$72,540 | 29.60 | 4.49 | 7.71 | 0.63 | 8.04 | 30 |
| | | | ALIVA LTD. | | | | | | | | | | | |
| | C35AV008 | AL 246 | CONCRETE GUNITER/SHOTCRETER, DRY/SEMI-WET, 1.4 - 2.3 CY/HR, W/1 GAL HOPPER/ ROTARY PUMP/ 100' - 1.5" DIA HOSE/ NOZZLE/ & AIR COMPRESSOR | 7 | HP | E | | \$29,766 | 11.28 | 1.86 | 3.19 | 0.26 | 0.69 | 9 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|----|-----|---|--------------------|----------------|---------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C35 | | | ALIVA LTD. (continued) | | | | | | | | | | | |
| | C35AV009 | AL 252 | CONCRETE GUNITER/SHOTCRETER, DRY/SEMI-WET, 5 - 10 CY/HR, W/4.2 GAL HOPPER/ ROTARY PUMP/ 100' - 2.36" DIA HOSE/ NOZZLE/ & AIR COMPRESSOR | 16 | HP | E | | \$36,260 | 14.46 | 2.27 | 3.89 | 0.32 | 1.58 | 18 |
| | C35AV010 | AL 262 | CONCRETE GUNITER/SHOTCRETER, WET/DRY, 9 - 13 CY/HR, W/4.2 GAL HOPPER/ ROTARY PUMP/ 100' - 2.36" DIA HOSE/ NOZZLE/ & AIR COMPRESSOR | 26 | HP | E | | \$67,588 | 24.62 | 4.21 | 7.24 | 0.59 | 2.57 | 27 |
| | 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 | | \$96,679 | 31.67 | 5.96 | 10.24 | 0.84 | 1.98 | 33 |
| | C35AV011 | AL 302 | CONCRETE GUNITER/SHOTCRETER, SHOTCRETE HYDRAULIC SPRAYER ARM, 25.6 ' HIGH (ADD TRUCK OR SMALL TRAILER & SHOTCRETE UNIT) | 12 | HP | E | | \$53,560 | 18.62 | 3.34 | 5.74 | 0.47 | 1.19 | 50 |
| | C35AV012 | AL 307 | CONCRETE GUNITERS / SHOTCRETERS, SHOTCRETE HYDRAULIC SPRAYER ARM, 52.5' HIGH (ADD TRUCK OR SMALL TRAILER & SHOTCRETE UNIT) | 20 | HP | E | | \$154,939 | 48.31 | 9.65 | 16.60 | 1.35 | 1.98 | 68 |
| C40 | CONCR | ETE MIXINO | GUNITS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CONCRETE MIXING UNITS | | | | | | | | | | | |
| | C40CC001 | SCD2-50H | CEMEN TECH CONCRETE MIXERS, STATIONARY CONCRETE DISPENSER, 15 CY/HR, 2 - 4.5 CY MATERIAL CAPACITY | 10 | HP | E | | \$32,823 | 13.55 | 2.92 | 5.25 | 0.29 | 0.92 | 23 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-----------|--|----|------|---|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | | MULTIQUIP, INC. | | | | | | | | | | | |
| | C40MU001 | WM 70SH8 | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 7 CF, TRAILER MTD | 8 | HP | G | | \$3,841 | 3.56 | 0.31 | 0.56 | 0.03 | 1.90 | 8 |
| | C40MU002 | WM 120SHH | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 12 CF, TRAILER MTD | 13 | HP | G | | \$7,790 | 6.40 | 0.67 | 1.20 | 0.07 | 3.09 | 11 |
| | C40MU003 | MC 64SH8 | CONCRETE MIXERS, MIXER, CONCRETE, 6 CF, TRAILER MTD | 8 | HP | G | | \$3,787 | 3.55 | 0.31 | 0.56 | 0.03 | 1.90 | 7 |
| | C40MU004 | MC 94SH8 | CONCRETE MIXERS, MIXER, CONCRETE, 9 CF, TRAILER MTD | 8 | HP | G | | \$4,354 | 3.77 | 0.37 | 0.65 | 0.04 | 1.90 | 8 |
| | | STOW | MANUFACTURING, INC. | | | | | | | | | | | |
| | C40ST001 | CMS44E | CONCRETE MIXERS, MIXER, CONCRETE, 4 CF, TRAILER MTD | 1 | HP | E | | \$2,386 | 1.12 | 0.19 | 0.33 | 0.02 | 0.05 | 5 |
| | C40ST002 | CMS44H | CONCRETE MIXERS, MIXER, CONCRETE, 4 CF, TRAILER MTD | 6 | HP | G | | \$2,610 | 2.43 | 0.21 | 0.37 | 0.02 | 1.31 | 5 |
| | C40ST003 | CMS64E | CONCRETE MIXERS, MIXER, CONCRETE, 6 CF, TRAILER MTD | 2 | HP | E | | \$3,046 | 1.63 | 0.25 | 0.44 | 0.03 | 0.18 | 7 |
| | C40ST005 | CMS94E | CONCRETE MIXERS, MIXER, CONCRETE, 9 CF, TRAILER MTD | 2 | HP | E | | \$3,991 | 1.96 | 0.34 | 0.59 | 0.04 | 0.14 | 8 |
| | | NO SF | PECIFIC MANUFACTURER | | | | | | | | | | | |
| | C40XX001 | 8E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 8 CF, ELECTRIC, PORTABLE | 2 | HP | Е | | \$3,016 | 1.60 | 0.27 | 0.48 | 0.03 | 0.18 | 7 |
| | C40XX002 | 8G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 8 CF, GAS, PORTABLE | 7 | HP | G | | \$3,235 | 3.11 | 0.29 | 0.52 | 0.03 | 1.66 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|----|----|-------|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C40 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | | |
| | C40XX003 | 10E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 10 CF, ELECTRIC, PORTABLE | 3 | HP | E | | \$4,338 | 2.24 | 0.39 | 0.69 | 0.04 | 0.28 | 9 |
| | C40XX004 | 10G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 10 CF, GAS, PORTABLE | 8 | HP | G | | \$4,357 | 3.81 | 0.39 | 0.70 | 0.04 | 1.90 | 10 |
| | C40XX005 | 12E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 12 CF, ELECTRIC, PORTABLE | 5 | HP | E | | \$5,221 | 2.92 | 0.47 | 0.84 | 0.05 | 0.46 | 11 |
| | C40XX006 | 16E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 16 CF, ELECTRIC, PORTABLE | 5 | HP | E | | \$9,962 | 4.65 | 0.89 | 1.59 | 0.09 | 0.46 | 12 |
| | C40XX007 | 16G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 16 CF, GAS, PORTABLE | 9 | HP | G | | \$9,456 | 5.94 | 0.84 | 1.51 | 0.08 | 2.14 | 13 |
| C45 | CONCR | ETE PAVIN | G MACHINES | | | | | | | | | | | |
| | | EGORY 0.00 | CONCRETE PAVING MACHINES | | | | | | | | | | | |
| | | GON | IACO CORPORATION | | | | | | | | | | | |
| | C45GO026 | C-450 | CONCRETE PAVING MACHINES, CYLINDER FINISHER, SINGLE DRUM, FINISHING WIDTH 9'-137' | 36 | HP | G | | \$60,994 | 31.77 | 4.60 | 8.13 | 0.53 | 9.23 | 64 |
| | C45GO027 | C-650-F | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 19'-51' | 50 | HP | D-off | | \$77,535 | 34.32 | 5.84 | 10.34 | 0.67 | 6.59 | 91 |
| | C45GO028 | C-650-S | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 19'-51' | 50 | HP | D-off | | \$123,351 | 50.17 | 9.30 | 16.45 | 1.07 | 6.59 | 126 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | - | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|--|------|------|-------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | 1 | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C45 | | | GOMACO CORPORATION (continued) | | | | | | | | | | | |
| | C45GO029 | C-750 | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 8'-156' | 36 | HP | G | | \$82,010 | 39.04 | 6.18 | 10.93 | 0.71 | 9.23 | 91 |
| | C45GO013 | GT-3200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 36" WIDE MOLD/FORM | 92 | HP I | D-off | | \$141,275 | 62.66 | 10.64 | 18.84 | 1.22 | 12.12 | 130 |
| | C45GO010 | COMMANDER II /GT6200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 2-TRACK, 36" WIDE MOLD/FORM | 92 | HP I | D-off | | \$170,321 | 72.71 | 12.83 | 22.71 | 1.47 | 12.12 | 200 |
| | C45GO014 | GT-3600 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 24" WIDE MOLD/FORM | 98 1 | HP I | D-off | | \$194,811 | 82.06 | 14.67 | 25.97 | 1.68 | 12.91 | 210 |
| | C45GO011 | COMMANDER III/GT6300 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 36" WIDE MOLD/FORM | 185 | HP I | D-off | | \$262,308 | 118.46 | 19.76 | 34.97 | 2.27 | 24.38 | 300 |
| | C45GO012 | COMMANDER III | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER , 4-TRACK, 36" WIDE MOLD/FORM | 169 | HP I | D-off | | \$351,240 | 146.82 | 26.45 | 46.83 | 3.03 | 22.27 | 369 |
| | C45GO016 | GP-2600 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 24'-32' PAVING WIDTH | 230 | HP I | D-off | | \$383,658 | 167.17 | 28.89 | 51.15 | 3.31 | 30.30 | 750 |
| | C45GO018 | GHP-2800 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 24'-32' PAVING WIDTH | 335 | HP I | D-off | | \$478,196 | 215.61 | 36.01 | 63.76 | 4.13 | 44.14 | 700 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | _ | HORSEPOWER FUEL TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|----------|----------------------|----------------|---------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C45 | | | GOMACO CORPORATION (continued) | | | | | | | | | |
| | C45GO020 | GP-4000 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 12'-50' PAVING WIDTH | 450 HP [| O-off | \$573,051 | 265.65 | 43.16 | 76.41 | 4.95 | 59.29 | 880 |
| | C45GO031 | 9500 | CONCRETE PAVING MACHINES, TRIMMER/PLACER, W/16'-8" TRIMMER HEAD | 385 HP [| O-off | \$464,596 | 218.40 | 34.99 | 61.95 | 4.01 | 50.73 | 729 |
| | | MIL | LER SPREADER CO. | | | | | | | | | |
| | C45MJ001 | MC 650 | CONCRETE PAVING MACHINES, CURB BUILDER, SLIPFORM PAVER, 6.1 CF HOPPER 6" AUGER | 15 HP | G | \$8,844 | 7.51 | 0.67 | 1.18 | 0.08 | 3.85 | 8 |
| | | | M-B-W, INC. | | | | | | | | | |
| | C45MW00 | C101 | CONCRETE PAVING MACHINES, CURB ONLY SLIPFORM PAVER, RUBBER TIRED, 12" | 26 HP [| O-off | \$51,059 | 21.50 | 3.81 | 6.74 | 0.44 | 3.43 | 27 |
| | C45MW00 | CG200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, RUBBER TIRED, 48" | 26 HP [| O-off | \$64,842 | 26.26 | 4.84 | 8.55 | 0.56 | 3.43 | 34 |
| C55 | CONCR | ETE PUMPS | S | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CONCRETE PUMPS | | | | | | | | | |
| | | MAYCO | PUMP - MULTIQUIP INC. | | | | | | | | | |
| | C55M3001 | C-30HDG | CONCRETE PUMP, 25 CY/HR, SINGLE, TRAILER MTD | 46 HP | G | \$25,110 | 19.51 | 1.58 | 2.76 | 0.20 | 10.93 | 27 |
| | C55M3002 | LS-400 | CONCRETE PUMP, 45 CY/HR, SINGLE, TRAILER MTD | 60 HP [| O-off | \$57,128 | 24.25 | 3.67 | 6.43 | 0.45 | 7.47 | 42 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | HORSE FUEL T | POWER YPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------|--|----------|-----------------|--------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | C | ARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C55 | | | MAYCO PUMP - MULTIQUIP INC. (continued) | | | | | | | | | | |
| | C55M3003 | LS-600 | CONCRETE PUMP, 70 CY/HR, SINGLE, TRAILER MTD | 106 HP D | O-off | | \$65,246 | 32.99 | 4.18 | 7.34 | 0.51 | 13.19 | 47 |
| | | | OLIN ENGINEERING, INC. | | | | | | | | | | |
| | C55OE006 | 10 22 | CONCRETE PUMP, 22 CY/HR,TRAILER MTD (OPEN LOOP HYDRAULIC SYSTEM) | 74 HP D | O-off | | \$54,409 | 25.44 | 3.47 | 6.07 | 0.43 | 9.21 | 44 |
| | C55OE009 | 20 80 | CONCRETE PUMP, 76 CY/HR, TRAILER MTD TANDEM (CLOSED LOOP HYDRAULIC SYSTEM) | 127 HP D | O-off | | \$102,745 | 46.23 | 6.54 | 11.45 | 0.81 | 15.80 | 72 |
| | C55OE011 | 15 95 | CONCRETE PUMP, 100 CY/HR, TRAILER MTD TANDEM (OPEN LOOP HYDRAULIC SYSTEM) | 181 HP D | O-off | | \$75,324 | 46.30 | 4.78 | 8.37 | 0.59 | 22.52 | 70 |
| | C55OE012 | 20 100 | CONCRETE PUMP, 100 CY/HR, TRAILER MTD TANDEM (CLOSED LOOP HYDRAULIC SYSTEM) | 181 HP D | O-off | | \$120,710 | 58.82 | 7.69 | 13.47 | 0.95 | 22.52 | 81 |
| | C55OE001 | 4Z 26X | CONCRETE PUMP, PUMP & BOOM, 130 CY/HR, REACH: 72' HORIZONTAL / 85' VERTICAL (ADD 50,000 GVW TRUCK) | | | | \$288,324 | 79.53 | 18.48 | 32.44 | 2.26 | 0.00 | 100 |
| | C55OE002 | 4Z 36X | CONCRETE PUMP, PUMP & BOOM, 182 CY/HR, REACH: 104' HORIZONTAL / 118' VERTICAL (ADD 50,000 GVW TRUCK) | | | | \$370,150 | 102.10 | 23.72 | 41.64 | 2.90 | 0.00 | 100 |
| | C55OE003 | 5RZ 47I | CONCRETE PUMP, PUMP & BOOM, 182 CY/HR, REACH: 134' HORIZONTAL / 152' VERTICAL (ADD 50,000 GVW TRUCK) | | | | \$563,557 | 155.45 | 36.12 | 63.40 | 4.42 | 0.00 | 100 |
| | | | SCHWING AMERICA INC. | | | | | | | | | | |
| | C55SC001 | SP750-18 | CONCRETE PUMP, 70 CY/HR, 1,100 PSI, TRAILER MTD | 80 HP D | D-off | | \$83,340 | 34.27 | 5.31 | 9.32 | 0.65 | 9.96 | 69 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|-------|------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C55 | | | SCHWING AMERICA INC. (continued) | | | | | | | | | | | |
| | C55SC002 | SP2800 | CONCRETE PUMP, 76 CY/HR, 1,565 PSI, TRAILER MTD | 197 | HP | D-off | | \$144,967 | 67.71 | 9.20 | 16.12 | 1.14 | 24.51 | 115 |
| | C55SC005 | S 28X | CONCRETE PUMP, 117 CY/HR, 75' BOOM, TRUCK MTD | 210 | HP | D-on | | \$480,912 | 166.38 | 30.49 | 53.43 | 3.77 | 29.92 | 359 |
| | C55SC006 | KVM 32XG | CONCRETE PUMP, 117 CY/HR, 92' BOOM, TRUCK MTD | 210 | HP | D-on | | \$518,389 | 176.72 | 32.89 | 57.65 | 4.06 | 29.92 | 470 |
| C60 | CONCR | ETE SAWS | (Add cost for sawblade wear) | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CONCRETE SAWS (Add cost for sawbl | ade v | wear | ·) | | | | | | | | |
| | | HUSQVARNA | CONSTRUCTION PRODUCTS | | | | | | | | | | | |
| | C60HG008 | K760 | CONCRETE SAW, 5.00" DEPTH, MANUAL, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 2 | HP | G | | \$1,030 | 1.08 | 0.09 | 0.15 | 0.01 | 0.61 | 1 |
| | C60HG010 | FS 400 | CONCRETE SAW, 6.5" DEPTH, WALK BEHIND, 18" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 11 | HP | G | | \$2,007 | 4.62 | 0.17 | 0.30 | 0.02 | 3.36 | 2 |
| | C60HG015 | FS 520 | CONCRETE SAW, 7.625" DEPTH, SELF PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 20 | HP | G | | \$6,110 | 9.30 | 0.51 | 0.92 | 0.05 | 6.11 | 5 |
| | C60HG020 | FS 4600 G 20 | CONCRETE SAW, 12" DEPTH, SELF- PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 48 | HP | G | | \$21,082 | 24.65 | 1.75 | 3.16 | 0.17 | 14.66 | 12 |
| | C60HG021 | FS 4600 G 30 | CONCRETE SAW, 12" DEPTH, SELF PROPELLED, 30" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 48 | HP | G | | \$25,443 | 26.26 | 2.12 | 3.82 | 0.21 | 14.66 | 12 |
| | C60HG023 | FS 3500 E 30 | CONCRETE SAW, 11.5" DEPTH, SELF PROPELLED, 30" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 30 | HP | E | | \$14,955 | 10.97 | 1.24 | 2.24 | 0.12 | 3.56 | 9 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------|---|----|----|-------|--------------------|----------------|------------------|---------|------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C60 | | | HUSQVARNA CONSTRUCTION PRODUCTS (continued) | | | | | | | | | | | |
| | C60HG024 | FS 4600 G 26 | CONCRETE SAW, 12" DEPTH, SELF- PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 48 | HP | G | | \$25,386 | 26.23 | 2.12 | 3.81 | 0.21 | 14.66 | 12 |
| | C60HG025 | FS 309 G 14 | CONCRETE SAW, 4.625" DEPTH, MANUAL, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 9 | HP | G | | \$1,619 | 3.77 | 0.13 | 0.24 | 0.01 | 2.75 | 2 |
| | C60HG026 | FS 513 G 18 | CONCRETE SAW, 7.5" DEPTH, SELF- PROPELLED, 18" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 13 | HP | G | | \$4,023 | 6.05 | 0.33 | 0.60 | 0.03 | 3.97 | 4 |
| | C60HG011 | FS 6600 D 20 | CONCRETE SAW, 6.5" DEPTH, SELF PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 | HP | D-off | | \$26,789 | 22.11 | 2.23 | 4.02 | 0.22 | 10.39 | 19 |
| | C60HG014 | FS 3500 E 26 | CONCRETE SAW, 10.625" DEPTH, SELF PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 30 | HP | E | | \$14,810 | 10.92 | 1.23 | 2.22 | 0.12 | 3.56 | 9 |
| | C60HG012 | FS 6600 D 26 | CONCRETE SAW, 10.625" DEPTH, SELF PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 | HP | D-off | | \$28,159 | 22.61 | 2.34 | 4.22 | 0.23 | 10.39 | 19 |
| | C60HG013 | FS 6600 D 36 | CONCRETE SAW, 14.875" DEPTH, SELF PROPELLED, 36" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 | HP | D-off | | \$28,386 | 22.70 | 2.36 | 4.26 | 0.23 | 10.39 | 20 |
| | C60HG016 | FS 8400 D 36 | CONCRETE SAW, 14.875" DEPTH, SELF PROPELLED, 36" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 84 | HP | D-off | | \$35,066 | 28.49 | 2.92 | 5.26 | 0.29 | 13.22 | 21 |
| | | BOART | LONGYEAR COMPANY | | | | | | | | | | | |
| | C60LY005 | FS 13B | CONCRETE SAW, 7.00" DEPTH, WALK BEHIND(ADD COST FOR SAWBLADE WEAR & WATER) | 13 | HP | G | | \$3,336 | 5.81 | 0.28 | 0.50 | 0.03 | 3.97 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | E | _ | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|----|----|-------|--------------------|----------------|---------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C60 | | | BOART LONGYEAR COMPANY (continued) | | | | | | | | | | | |
| | C60LY001 | 360-10AP | CONCRETE SAW, RAIL SAW, 15.50" DEPTH, WALL (ADD COMPRESSOR & COST FOR SAWBLADE WEAR & WATER) | 10 | HP | G | | \$29,043 | 14.15 | 2.42 | 4.36 | 0.24 | 3.05 | 2 |
| | C60LY002 | 360-35HM | CONCRETE SAW, RAIL SAW, 24.50" DEPTH, WALL(ADD COST FOR SAWBLADE WEAR & WATER) | 35 | HP | G | | \$42,949 | 28.05 | 3.57 | 6.44 | 0.35 | 10.69 | 2 |
| | C60LY011 | WR-400 | CONCRETE SAW, WIRE SAW SYSTEM, HEAVY DUTY (ADD COST FOR SAW WIRE WEAR & WATER) | 32 | HP | D-off | | \$83,027 | 36.31 | 6.91 | 12.45 | 0.68 | 5.04 | 15 |
| C65 | CONCR | ETE VIBRA | TORS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CONCRETE VIBRATORS | | | | | | | | | | | |
| | | STOW | MANUFACTURING, INC. | | | | | | | | | | | |
| | C65ST007 | SV-1 115V | CONCRETE VIBRATOR, 1.375" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 1 | HP | E | | \$1,098 | 1.26 | 0.14 | 0.25 | 0.01 | 0.09 | 1 |
| | C65ST008 | SV-2 115V | CONCRETE VIBRATOR, 2.175" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 2 | HP | E | | \$1,147 | 1.43 | 0.14 | 0.26 | 0.01 | 0.17 | 1 |
| | C65ST009 | SV-3 115V | CONCRETE VIBRATOR, 2.625" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 3 | HP | E | | \$1,356 | 1.78 | 0.17 | 0.31 | 0.01 | 0.26 | 1 |
| | C65ST013 | G55H | CONCRETE VIBRATOR, 2.325" HEAD, 21' SHAFT, W/GAS MOTOR ON CART | 6 | HP | G | | \$2,503 | 3.95 | 0.30 | 0.56 | 0.02 | 1.22 | 2 |
| | | WAC | CKER CORPORATION | | | | | | | | | | | |
| | C65WC005 | A 5000 | CONCRETE VIBRATOR, 1.75" HEAD, 13' SHAFT, W/GAS MOTOR ON CART | 5 | HP | G | | \$2,284 | 3.60 | 0.28 | 0.51 | 0.02 | 1.11 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|-----|----|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C65 | | | WACKER CORPORATION (continued) | | | | | | | | | | | |
| | C65WC004 | M 3000 | CONCRETE VIBRATOR, 1.75" HEAD, 13' SHAFT, HI-FREQ INTERNAL (ADD 2KV GENERATOR) | 3 | HP | E | | \$1,205 | 1.76 | 0.15 | 0.27 | 0.01 | 0.26 | 1 |
| | C65WC003 | IREN 57 | CONCRETE VIBRATOR, 2.50" HEAD, 16.5' SHAFT, HI-FREQ INTERNAL (ADD 2KV GENERATOR) | 2 | HP | E | | \$1,871 | 2.31 | 0.23 | 0.42 | 0.02 | 0.17 | 1 |
| C75 | CRANE | S, HYDRAU | LIC, SELF-PROPELLED | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | CRANES, HYDRAULIC, SELF-PROPELI | ED | | | | | | | | | | |
| | В | RODERSON M | ANUFACTURING CORPORATION | | | | | | | | | | | |
| | C75BD007 | IC-20-1F | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 2.5 TON, 15' BOOM, 4X2 | 38 | HP | G | | \$64,276 | 20.24 | 2.41 | 3.84 | 0.49 | 9.74 | 63 |
| | C75BD008 | IC-35-2C | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 4.0 TON, 19.2' BOOM, 4X2 | 42 | HP | G | | \$85,449 | 24.34 | 3.22 | 5.12 | 0.66 | 10.77 | 78 |
| | C75BD004 | IC-35-2C | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 4.0 TON, 19' BOOM, 4X2, NON- ROTATING OPERATOR'S CAB | 42 | HP | G | | \$88,988 | 24.82 | 3.36 | 5.34 | 0.69 | 10.77 | 79 |
| | C75BD009 | IC-80-3G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 8.5 TON, 30' BOOM, 4X2 | 69 | HP | G | | \$115,600 | 36.73 | 4.32 | 6.86 | 0.89 | 17.69 | 172 |
| | C75BD005 | IC-80-1G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 9.0 TON, 20' BOOM, 4X2, NON- ROTATING OPERATOR'S CAB | 69 | HP | G | | \$111,906 | 36.22 | 4.18 | 6.64 | 0.86 | 17.69 | 163 |
| | C75BD006 | IC-200-3F | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15.0 TON, 50' BOOM, 4X2, NON- ROTATING OPERATOR'S CAB | 110 | HP | G | | \$163,348 | 55.70 | 6.09 | 9.66 | 1.26 | 28.20 | 308 |
| | C75BD010 | IC-250-3A | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 18.0 TON, 50' BOOM, 4X4 | 85 | HP | D-off | | \$193,039 | 40.01 | 7.22 | 11.46 | 1.49 | 11.20 | 384 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------|--|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C75 | | | BRODERSON MANUFACTURING CORPORATION (continued) | | | | | | | | | | |
| | C75BD011 | RT-300-2B | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15.0 TON, 60' BOOM, 4X4, 20'0" OFFSET | 130 HP | D-off | | \$256,169 | 56.51 | 9.59 | 15.24 | 1.97 | 17.13 | 473 |
| | | GROV | E CRANES (MANITOWOC) | | | | | | | | | | |
| | C75GV029 | YB4411 | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 10.5 TON, 32' BOOM, 4X4, NON- ROTATING OPERATOR'S CAB | 80 HP | G | | \$176,145 | 48.34 | 6.63 | 10.54 | 1.36 | 20.51 | 175 |
| | C75GV030 | YB5515 | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15 TON, 41' BOOM, 4X4, NON- ROTATING OPERATOR'S CAB | 100 HP | G | | \$267,262 | 66.64 | 10.11 | 16.10 | 2.06 | 25.64 | 326 |
| | C75GV023 | RT530E-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 95' BOOM, 4X4 | 160 HP | D-off | | \$430,120 | 88.03 | 16.00 | 25.38 | 3.31 | 21.08 | 580 |
| | C75GV024 | RT640E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 40 TON, 105' BOOM 4X4 | 173 HP | D-off | | \$565,692 | 110.23 | 20.95 | 33.17 | 4.36 | 22.79 | 650 |
| | C75GV016 | RT9130E-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 130 TON, 160' BOOM, 4X4, W/HOOK BLOCK & BALL | 300 HP | D-off | | \$1,483,605 | 268.34 | 54.99 | 87.13 | 11.42 | 39.53 | 1,364 |
| | C75GV031 | RT765E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 65 TON, 110' BOOM, 4X4, W/HOOK BLOCK & BALL | 240 HP | D-off | | \$693,940 | 145.09 | 25.37 | 40.06 | 5.34 | 31.62 | 934 |
| | C75GV032 | RT880E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 80 TON, 128' BOOM, 4X4, W/HOOK BLOCK & BALL | 275 HP | D-off | | \$839,524 | 171.85 | 30.80 | 48.68 | 6.46 | 36.23 | 1,093 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | i | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|---------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | TADANO | AMERICA CORPORATION | | | | | | | | | | |
| | C75TD009 | GR-350XL-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 35 TON, 112' BOOM, 4X4 | 180 HP | D-off | | \$359,133 | 76.49 | 13.67 | 21.80 | 2.77 | 23.72 | 537 |
| | C75TD010 | GR-550XL-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 55TON, 175' BOOM, 4X4 | 247 HP | D-off | | \$469,827 | 101.80 | 17.89 | 28.53 | 3.62 | 32.54 | 882 |
| | C75TD011 | GR-750XL-2 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 75 TON, 180' BOOM, 4X4 | 247 HP | D-off | | \$617,481 | 122.06 | 23.50 | 37.49 | 4.75 | 32.54 | 945 |
| | | TE | REX CORPORATION | | | | | | | | | | |
| | C75TE001 | RT230 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 94' BOOM, 4X4 | 130 HP | D-off | | \$380,200 | 74.87 | 14.20 | 22.53 | 2.93 | 17.13 | 563 |
| | C75TE002 | RT335/40 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 40 TON, 94' BOOM, 4X4 | 152 HP | D-off | | \$522,855 | 98.81 | 19.53 | 31.00 | 4.03 | 20.03 | 634 |
| C80 | CRANE | S, HYDRAU | LIC, TRUCK MOUNTED | | | | | | | | | | |
| | SUBCAT | EGORY 0.01 | UNDER 26 TON | | | | | | | | | | |
| | | TEI | REX CORPORATION | | | | | | | | | | |
| | C80TE008 | CD225 | CRANES, HYDRAULIC, TRUCK MTD, ROUGH TERRAIN, 25 TON, 72' BOOM, 4X4 | 130 HP | D-off | | \$303,221 | 58.46 | 11.17 | 17.67 | 2.33 | 14.75 | 525 |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | | |
| | C80XX001 | 1700 | CRANES, HYDRAULIC, TRUCK MTD, BOOM TRUCK, 17 TON, 80' BOOM, 4X2 | 245 HP | D-off | | \$154,521 | 52.37 | 5.69 | 9.00 | 1.19 | 27.80 | 330 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | JN. | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C80 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | C80XX002 | 2300 | CRANES, HYDRAULIC, TRUCK MTD, BOOM TRUCK, 23.5 TON, 102' BOOM, 6X2 | 300 HP | D-off | | \$203,283 | 66.20 | 7.45 | 11.75 | 1.57 | 34.04 | 600 |
| | SUBCAT | EGORY 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 | | \$849,906 | 148.94 | 28.87 | 44.75 | 6.49 | 45.38 | 771 |
| | C80GV029 | TMS750E | CRANES, HYDRAULIC, TRUCK MTD, 50 TON, 110' BOOM, 8X4X4 | 450 HP | D-off | | \$889,982 | 161.50 | 30.02 | 46.44 | 6.80 | 51.06 | 947 |
| | C80GV033 | GMK3055 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 60 TON, 141' BOOM, 6X4X6 | 355 HP | D-off | | \$1,042,592 | 171.13 | 35.17 | 54.42 | 7.96 | 40.28 | 782 |
| | C80GV030 | TMS760E | CRANES, HYDRAULIC, TRUCK MTD, 60 TON, 110' BOOM, 8X4X4 | 450 HP | D-off | | \$892,322 | 161.76 | 30.10 | 46.56 | 6.82 | 51.06 | 949 |
| | I | LINK-BELT CO | NSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | C80LB009 | HTC-8640 SL | CRANES, HYDRAULIC, TRUCK MTD, 40 TON, 105' BOOM, 6X4X2 | 365 HP | D-off | | \$617,478 | 118.04 | 20.94 | 32.44 | 4.72 | 41.41 | 575 |
| | C80LB011 | HTC-8660 II | CRANES, HYDRAULIC, TRUCK MTD, 60 TON, 110' BOOM, 8X4X4 | 365 HP | D-off | | \$631,592 | 120.91 | 21.23 | 32.81 | 4.82 | 41.41 | 831 |
| | | TEF | REX CORPORATION | | | | | | | | | | |
| | C80TE002 | T335/40 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 40 TON, 94' BOOM, 6X4 | 250 HP | D-off | | \$386,815 | 77.80 | 12.96 | 20.01 | 2.95 | 28.37 | 493 |
| | C80TE003 | T 500 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 50 TON, 110' BOOM, 8X4 | 370 HP | D-off | | \$514,943 | 108.58 | 17.21 | 26.55 | 3.93 | 41.98 | 806 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|--------|-------|--------------------|----------------|---------|---------|--------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | ΙN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | SUBCAT | EGORY 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-off | | \$1,497,795 | 221.20 | 46.30 | 69.87 | 11.36 | 45.61 | 940 |
| | C80GV035 | TMS800E | CRANES, HYDRAULIC, TRUCK MTD, 80 TON, 128' BOOM, 8X4X4 | 402 HP | D-off | | \$976,588 | 160.24 | 30.10 | 45.37 | 7.41 | 45.61 | 922 |
| | | TADANO | AMERICA CORPORATION | | | | | | | | | | |
| | C80TD001 | ATF-650XL | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 65 TON, 132' BOOM, 8X8 | 121 HP | D-off | 349 HP D-on | \$782,512 | 113.20 | 23.85 | 35.81 | 5.94 | 21.04 | 1,090 |
| | C80TD002 | ATF-1000XL | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 100 TON, 138' BOOM, 8X8 | 158 HP | D-off | 375 HP D-on | \$974,803 | 139.18 | 29.85 | 44.89 | 7.40 | 25.79 | 1,070 |
| | C80TD003 | ATF-90G-4 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 90 TON, 138' BOOM, 8X8 | 158 HP | D-off | 375 HP D-on | \$1,102,370 | 148.53 | 34.39 | 52.06 | 8.36 | 25.79 | 1,070 |
| | SUBCAT | EGORY 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-off | 563 HP D-on | \$3,037,448 | 377.85 | 86.71 | 127.55 | 22.93 | 40.72 | 1,425 |
| | | TADANO | AMERICA CORPORATION | | | | | | | | | | |
| | C80TD004 | ATF-130G-5 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 130 TON, 162' BOOM, 10X8 | 533 HP | D-off | 503 HP D-on | \$1,389,727 | 224.97 | 40.02 | 59.06 | 10.49 | 71.01 | 1,330 |
| | C80TD005 | ATF-1500XL | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 150 TON, 162' BOOM, 10X8 | 533 HP | D-off | 503 HP D-on | \$1,170,288 | 207.91 | 33.07 | 48.45 | 8.84 | 71.01 | 1,330 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|--------|--------|--------------------|----------------|------------------|---------|-------|------------------|-------|------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CW |
| C85 | CRANE | S, MECHAN | ICAL, LATTICE BOOM, CRAWLE | R MOU | NTED | | | | | | | | |
| | SUBCAT | EGORY 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 C | Y THRU | 2.5 CY | | | | | | | | |
| | | LINK-BELT CO | NSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | C85LB019 | 138 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 80 TON, 100' BOOM (ADD BUCKET) | 284 HP | D-off | | \$871,768 | 137.80 | 28.71 | 43.59 | 6.91 | 27.03 | 1,39 |
| | | TE | REX CORPORATION | | | | | | | | | | |
| | C85TE001 | 5220 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 50 TON, 100' BOOM (ADD BUCKET) | 150 HP | D-off | | \$695,434 | 101.42 | 22.90 | 34.77 | 5.51 | 14.27 | 83 |
| | C85TE002 | 7225 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 85 TON, 100' BOOM (ADD BUCKET) | 250 HP | D-off | | \$967,917 | 145.75 | 31.87 | 48.40 | 7.67 | 23.79 | 1,25 |
| | SUBCAT | EGORY 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 C | Y THRU | 5.0 CY | | | | | | | | |
| | | LINK-BELT CO | NSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | C85LB021 | 238 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 150 TON, 100' BOOM (ADD BUCKET) | 284 HP | D-off | | \$1,385,373 | 190.54 | 41.70 | 61.57 | 10.91 | 27.03 | 3,35 |
| | | MANITO | WOC ENGINEERING CO. | | | | | | | | | | |
| | C85MA002 | 777 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 5.0 CY, 130' BOOM (ADD BUCKET) | 340 HP | D-off | | \$1,513,793 | 211.31 | 45.56 | 67.28 | 11.92 | 32.35 | 3,81 |
| | C85MA011 | 1015 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 3.5 CY, 80' BOOM (ADD BUCKET) | 600 HP | D-off | | \$1,915,058 | 285.23 | 57.64 | 85.11 | 15.08 | 57.10 | 2,08 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|----------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | 1 | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | TEF | REX CORPORATION | | | | | | | | | | |
| | C85TE003 | 9225 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 150 TON, 100' BOOM (ADD BUCKET) | 335 HP I | D-off | | \$1,223,540 | 177.15 | 36.83 | 54.38 | 9.64 | 31.88 | 2,482 |
| | SUBCATE | EGORY 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 C | Y | | | | | | | | | |
| | | MANITO | WOC ENGINEERING CO. | | | | | | | | | | |
| | C85MA003 | 999 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 7.0 CY, 140' BOOM (ADD BUCKET) | 400 HP I | D-off | | \$2,196,097 | 286.46 | 61.13 | 87.84 | 17.21 | 38.06 | 5,100 |
| | SUBCATE | EGORY 0.22 | LIFTING, 26 TON THRU 50 TON | | | | | | | | | | |
| | L | INK-BELT CO | NSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | C85LB024 | 108 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 50 TON, 70' BOOM, LIFTING | 197 HP I | D-off | | \$627,169 | 79.35 | 18.88 | 27.87 | 4.94 | 13.70 | 968 |
| | SUBCATE | EGORY 0.23 | LIFTING, 51 TON THRU 150 TON | | | | | | | | | | |
| | | КОВ | ELCO AMERICA INC. | | | | | | | | | | |
| | C85KC009 | CK1100 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 110 TON, 200' BOOM, LIFTING | 285 HP I | D-off | | \$771,477 | 100.05 | 22.22 | 32.79 | 5.82 | 19.82 | 2,148 |
| | C85KC010 | CK1600 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 160 TON, 250' BOOM, LIFTING | 363 HP I | D-off | | \$1,245,451 | 154.05 | 35.87 | 52.93 | 9.40 | 25.24 | 3,338 |
| | C85KC005 | CK850 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 85 TON, 200' BOOM, LIFTING | 213 HP I | D-off | | \$653,946 | 82.61 | 18.84 | 27.79 | 4.94 | 14.81 | 1,729 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | HORSEPOWER | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------|--|----------|------------|----------------|------------------|---------|-------|-----------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | ı | LINK-BELT CO | DNSTRUCTION EQUIPMENT CO. | | | | | | | | | |
| | C85LB001 | 138 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 40' TUBULAR BOOM, LIFTING | 248 HP D | -off | \$798,393 | 99.94 | 23.00 | 33.93 | 6.03 | 17.25 | 1,464 |
| | C85LB014 | 218 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 110 TON, 230' BOOM, LIFTING | 284 HP D | -off | \$1,042,273 | 127.40 | 30.02 | 44.30 | 7.87 | 19.75 | 1,790 |
| | C85LB015 | 238 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 150 TON, 240' BOOM, LIFTING | 284 HP D | -off | \$1,446,251 | 168.31 | 41.66 | 61.47 | 10.92 | 19.75 | 3,357 |
| | | MANITO | OWOC ENGINEERING CO. | | | | | | | | | |
| | C85MA012 | 1015 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 120 TON, 210' BOOM, LIFTING | 600 HP D | -off | \$1,883,909 | 236.94 | 54.26 | 80.07 | 14.22 | 41.72 | 2,197 |
| | C85MA008 | 555 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 260' BOOM, LIFTING | 340 HP D | -off | \$1,264,005 | 154.15 | 36.40 | 53.72 | 9.54 | 23.64 | 3,121 |
| | C85MA005 | 555 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 150 TON, 250' BOOM, LIFTING | 340 HP D | -off | \$1,260,865 | 153.84 | 36.32 | 53.59 | 9.52 | 23.64 | 2,744 |
| | | TE | REX CORPORATION | | | | | | | | | |
| | C85TE008 | HC 80 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 200' BOOM, LIFTING | 184 HP D | -off | \$732,973 | 88.38 | 21.11 | 31.15 | 5.53 | 12.80 | 1,430 |
| | C85TE009 | HC 110 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 230' BOOM, LIFTING | 230 HP D | -off | \$904,133 | 109.25 | 26.05 | 38.43 | 6.83 | 15.99 | 1,911 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C85 | | | TEREX CORPORATION (continued) | | | | | | | | | |
| | C85TE010 | HC 125 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 125 TON, 240' BOOM, LIFTING | 240 HP D-off | | \$1,198,104 | 139.79 | 34.51 | 50.92 | 9.05 | 16.69 | 2,128 |
| | SUBCAT | EGORY 0.24 | LIFTING, OVER 150 TON | | | | | | | | | |
| | | КОВ | BELCO AMERICA INC. | | | | | | | | | |
| | C85KC008 | CK2000 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 50' BOOM, LIFTING | 316 HP D-off | | \$1,370,838 | 159.15 | 36.78 | 52.96 | 10.30 | 21.97 | 3,622 |
| | C85KC011 | CK2750 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 275 TON, 300' BOOM, LIFTING | 363 HP D-off | | \$1,797,972 | 204.75 | 48.25 | 69.47 | 13.51 | 25.24 | 5,236 |
| | I | LINK-BELT CO | INSTRUCTION EQUIPMENT CO. | | | | | | | | | |
| | C85LB016 | 248 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 280' BOOM, LIFTING | 284 HP D-off | | \$1,840,300 | 202.77 | 49.38 | 71.10 | 13.83 | 19.75 | 3,242 |
| | | MANITO | WOC ENGINEERING CO. | | | | | | | | | |
| | C85MA006 | 777 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 260' BOOM, LIFTING | 340 HP D-off | | \$1,529,689 | 176.60 | 41.04 | 59.10 | 11.49 | 23.64 | 3,929 |
| | C85MA007 | 999 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 250 TON, 260' BOOM, LIFTING | 375 HP D-off | | \$2,075,026 | 232.89 | 55.68 | 80.17 | 15.59 | 26.08 | 4,942 |
| | | TE | REX CORPORATION | | | | | | | | | |
| | C85TE011 | HC 210 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 210 TON, 280' BOOM, LIFTING | 315 HP D-off | | \$1,771,136 | 198.39 | 47.53 | 68.43 | 13.31 | 21.91 | 3,708 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|--------|-------|--------------------|----------------|------------------|---------|--------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C90 | CRANE | S, MECHAN | ICAL, LATTICE BOOM, TRUCK M | OUNTE | D | | | | | | | | |
| | SUBCATI | EGORY 0.04 | OVER 125 TON | | | | | | | | | | |
| | ı | LINK-BELT CO | NSTRUCTION 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 | \$1,627,595 | 211.70 | 44.64 | 63.75 | 12.76 | 26.89 | 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 | \$3,009,739 | 384.65 | 82.77 | 118.36 | 23.59 | 48.41 | 3,385 |
| C95 | CRANE | S, TOWER | | | | | | | | | | | |
| | SUBCATI | EGORY 0.00 | CRANES, TOWER | | | | | | | | | | |
| | PE | CCO AND WO | LFF TOWER CRANES (MORROW) | | | | | | | | | | |
| | C95AP004 | SK200 | TOWER CRANE 3.4 TON @ 181' RADIUS 42.6' HEIGHT (ADD 95KW GENERATOR & T- SECTION) | 128 HP | E | | \$560,452 | 82.87 | 16.87 | 24.91 | 4.41 | 10.98 | 970 |
| | C95AP005 | S16-35 TOWER SECTION | TOWER CRANE OPTION, 1.1' T-TRANSITION S35 -S16 (ADD SK 140 - SK 225 TOWER CRANE) | | | | \$17,700 | 1.94 | 0.54 | 0.79 | 0.14 | 0.00 | 16 |
| | C95AP006 | S35 TOWER SECTION | TOWER CRANE OPTION, 19.33' TOWER SECTION (ADD TO SK 140 - SK 400 TOWER CRANE) | | | | \$33,628 | 3.66 | 1.01 | 1.49 | 0.26 | 0.00 | 89 |
| | C95AP007 | SK400 | TOWER CRANE, 3.3 TON @ 245' RADIUS, 56.7' HEIGHT (ADD 160 KW GENERATOR & T-SECTION) | 213 HP | E | | \$886,499 | 131.23 | 26.68 | 39.40 | 6.98 | 18.28 | 1,783 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------------------|---|--------|---|--------------------|----------------|---------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| C95 | | | PECCO AND WOLFF TOWER CRANES (MORROW) (continued) | | | | | | | | | | |
| | C95AP008 | S35 CLIMBING UNIT | TOWER CRANE OPTION, 29.2' CLIMBING UNIT (ADD TO SK 200 - SK 400 TOWER CRANE) | | | | \$135,853 | 15.34 | 4.09 | 6.04 | 1.07 | 0.00 | 248 |
| | C95AP009 | S35-60 TOWER SECTION | TOWER CRANE OPTION, 19.4' T- TRANSITION S60 S35 (ADD SK 225 - SK 560 TOWER CRANE) | | | | \$45,257 | 4.94 | 1.37 | 2.01 | 0.36 | 0.00 | 99 |
| | C95AP010 | SK560 | TOWER CRANE, 2.8 TON @ 265' RADIUS, 76.5' HEIGHT (ADD 161 KW GENERATOR &T-SECTION) | 217 HP | E | | \$1,180,104 | 163.84 | 35.52 | 52.45 | 9.29 | 18.62 | 1,557 |
| | C95AP011 | S60 TOWER SECTION | TOWER CRANE OPTION, 19.33' TOWER SECTION (ADD TO SK 225 - SK 560 TOWER CRANE) | | | | \$42,317 | 4.62 | 1.27 | 1.88 | 0.33 | 0.00 | 99 |
| | C95AP012 | S60 CLIMB UNIT | TOWER CRANE OPTION, 32.8' CLIMBING UNIT (ADD TO SK 225 - SK 560 TOWER CRANE) | | | | \$169,285 | 18.98 | 5.09 | 7.52 | 1.33 | 0.00 | 258 |
| | C95AP013 | SN355 | TOWER CRANE, 3.8 TON @ 197' RADIUS, 110' TALL, LUFFING (ADD 300 KW GENERATOR & T-SECTION) | 354 HP | E | | \$1,133,255 | 177.64 | 34.11 | 50.37 | 8.92 | 30.37 | 2,748 |
| | C95AP014 | SN35 TOWER SECTION | TOWER CRANE OPTION, 14.75' TOWER SECTION (ADD TO SN 141 - SN 355 TOWER CRANE) | | | | \$38,505 | 4.20 | 1.16 | 1.71 | 0.30 | 0.00 | 89 |
| | C95AP015 | SN35 CLIMBING UNIT | TOWER CRANE OPTION, 29.2' CLIMBING UNIT (ADD TO SN 141 - SN 355 TOWER CRANE) | | | | \$147,699 | 16.62 | 4.44 | 6.56 | 1.16 | 0.00 | 248 |
| | C95AP016 | S35N- 60TOWER SECTION | TOWER CRANE OPTION, 19.4' T- TRANSITION S60 S35N (ADD SN 141 - SK 355 TOWER CRANE) | | | | \$51,674 | 5.65 | 1.56 | 2.30 | 0.41 | 0.00 | 99 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | El | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|----------------------|---|-----|-----|---|--------------------|----------------|------------------|---------|-------|-----------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C95 | | | PECCO AND WOLFF TOWER CRANES (MORROW) (continued) | | | | | | | | | | | |
| | C95AP017 | SK140 | TOWER CRANE, 3.1 TON @ 151' RADIUS, 85.0' HEIGHT (ADD 95KW GENERATOR & T-SECTION) | 125 | HP | Е | | \$479,907 | 72.68 | 14.45 | 21.33 | 3.78 | 10.73 | 1,309 |
| | C95AP018 | S16 TOWER SECTION | TOWER CRANE OPTION, 14.75' TOWER SECTION (ADD TO SK 140 - SK 200 TOWER CRANE) | | | | | \$16,144 | 1.77 | 0.49 | 0.72 | 0.13 | 0.00 | 55 |
| | C95AP019 | S16 CLIMBING UNIT | TOWER CRANE OPTION, 29.2' CLIMBING UNIT (ADD TO SK140 - SK 200 TOWER CRANE) | | | | | \$91,878 | 10.53 | 2.76 | 4.08 | 0.72 | 0.00 | 165 |
| | C95AP020 | SN141 | TOWER CRANE, 1.6 TON @ 147' RADIUS, 89' TALL, LUFFING (ADD 200 KW GENERATOR & T-SECTION) | 223 | HP | E | | \$527,667 | 91.42 | 15.89 | 23.45 | 4.16 | 19.13 | 1,082 |
| | C95AP021 | SN160-16 | TOWER CRANE, 2.8 TON @ 164' RADIUS, 88' TALL, LUFFING (ADD 250 KW GENERATOR & T-SECTION) | 258 | HP | E | | \$823,584 | 129.57 | 24.79 | 36.60 | 6.49 | 22.14 | 1,179 |
| | C95AP022 | PH5000-12 | TOWER CRANE OPTION, 24 PERSON / 2.4 TON MATERIAL ELEVATOR/HOIST (ADD 4.9' MAST SECTION & 18 KW GENERATOR) | 24 | HP | E | | \$124,379 | 17.91 | 3.75 | 5.53 | 0.98 | 2.06 | 130 |
| | C95AP023 | MAST SECTION | TOWER CRANE OPTION, 4.9' MAST-> PERSON/MATERIAL ELEVATOR/HOIST (ADD WALL TIE & CABLE GUIDE @30') | | | | | \$2,936 | 0.32 | 0.09 | 0.13 | 0.02 | 0.00 | 3 |
| | | MORROW E | QUIPMENT COMPANY, LLC | | | | | | | | | | | |
| | C95LH022 | 97K | TOWER CRANE, HORIZONTAL BOOM, JIB CRANE, 13.2 TON MAX, 1.9 TON @ 148' RADIUS, 66' HEIGHT, SELF/ERECTING, W/FIVE - 7' 10" TOWER SECTIONS/ & ROAD TRANSPORT EQUIPMENT (ADD 40KW GENERATOR) | 35 | HP | E | | \$437,815 | 55.09 | 13.07 | 19.23 | 3.45 | 3.00 | 1,593 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | HORSEPO | VER VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|----------|---|--------|---------|-----------------|------------------|---------|-------|-----------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARF | RIER 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| C95 | | | MORROW EQUIPMENT COMPANY, LLC (continued) | | | | | | | | | |
| | C95LH023 | 140K | TOWER CRANE, HORIZONTAL BOOM, JIB CRANE, 11.0 TON MAX, 1.7 TON @ 180' RAD 146' HEIGHT, SELF/ERECTING, W/EIGHT - 9' 10" TOWER SECTIONS/ & ROAD TRANSPORT EQUIPMENT (ADD 60KW GENERATOR) | 65 HP | E | \$609,620 | 79.14 | 18.19 | 26.78 | 4.80 | 5.58 | 1,836 |
| | C95LH003 | 132 HC | TOWER CRANE, HORIZONTAL BOOM, JIB CRANE, 8.8 TON MAX, 2.4 TON @ 168' RADIUS, 147.8' HEIGHT, W/FOURTEEN - 8' 2" TOWER SECTIONS (ADD 85 KW GENERATOR) | 109 HP | E | \$490,277 | 71.59 | 14.76 | 21.79 | 3.86 | 9.35 | 1,156 |
| | C95LH005 | 200 HC | TOWER CRANE, HORIZONTAL BOOM, JIB CRANE, 11.0 TON MAX, 2.5 TON @ 201' RADIUS, 162.7' HEIGHT, W/NINE - 13' 7" TOWER SECTIONS (ADD 110 KW GENERATOR) | 148 HP | E | \$637,308 | 94.04 | 19.18 | 28.32 | 5.02 | 12.70 | 1,374 |
| | C95LH011 | 390 HC | TOWER CRANE, HORIZONTAL BOOM, JIB CRANE, 17.6 TON MAX, 3.3 TON @ 246' RADIUS, 199.1' HEIGHT, W/NINE - 19' 0" TOWER SECTIONS (ADD 170 KW GENERATOR) | 223 HP | E | \$1,191,273 | 165.89 | 35.86 | 52.95 | 9.38 | 19.13 | 2,744 |
| | C95LH013 | 550 HC20 | TOWER CRANE, HORIZONTAL BOOM, JIB CRANE, 22.0 TON MAX, 3.8 TON @ 265' RADIUS, 237.5' HEIGHT, W/TWELVE - 19' 0" TOWER SECTIONS (ADD 170 KW GENERATOR) | 223 HP | E | \$1,522,453 | 202.05 | 45.82 | 67.66 | 11.99 | 19.13 | 3,765 |
| | C95LH015 | 550 HC-L | TOWER CRANE, 26.4 TON MAX, 3/4 TON @ 197' RADIUS, 210' HEIGHT, LUFFING, W/SIX 19' 0" TOWER SECTIONS (ADD 480 KW GENERATOR) | 317 HP | E | \$2,029,312 | 272.40 | 61.08 | 90.19 | 15.98 | 27.20 | 5,075 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------------|--|-------------------|---------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| D10 | DRILL: | S, HYDRAUL | IC TRACK (Add cost for drill ste | el and bit w | ear) | | | | | | | |
| | SUBCATI | EGORY 0.10 | DRILLS, AIR TRACK (Add cost for dril | steel and bit | wear) | | | | | | | |
| | | INGERSOL | L RAND ROCK DRILL DIV | | | | | | | | | |
| | D10IR003 | ECM350/VL140 | DRILL, AIR TRACK, CRAWLER, 2.5-4.0" DIA, 12' FEED (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 750 CFM COMPRESSOR) | 750 CFM A | | \$190,917 | 29.21 | 6.70 | 10.23 | 1.58 | 0.00 | 129 |
| | | SULL | IVAN-PALATEK, INC. | | | | | | | | | |
| | D10SU002 | RAM EXT, VCR360 | DRILL, AIR TRACK, CRAWLER, 2.5-4.0" DIA, 12' FEED (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 750 CFM COMPRESSOR) | 750 CFM A | | \$235,156 | 35.80 | 8.24 | 12.60 | 1.94 | 0.00 | 152 |
| | D10SU003 | RAM EXT, VCR361 | DRILL, AIR TRACK, CRAWLER, 3.0-4.0" DIA, 12' FEED (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 900 CFM COMPRESSOR) | 900 CFM A | | \$240,926 | 36.66 | 8.45 | 12.91 | 1.99 | 0.00 | 205 |
| | SUBCATE | EGORY 0.20 | DRILLS, HYDRAULIC TRACK (Add cos | t for drill steel | and bit wear) | | | | | | | |
| | | INGERSOL | L RAND ROCK DRILL DIV | | | | | | | | | |
| | D10IR005 | ECM590/YH80A | DRILL, HYDRAULIC TRACK, CRAWLER, 2.5- 4.5" DIA, 14' DRIFTER TRAVEL, SELF- CONTAINED (ADD COST FOR DRILL STEEL AND BIT WEAR) | 215 HP D-off | | \$513,594 | 139.40 | 23.60 | 38.52 | 4.34 | 29.90 | 245 |
| | | SULL | IVAN-PALATEK, INC. | | | | | | | | | |
| | D10SU005 | SCORPION VCR360 | DRILL, HYDRAULIC TRACK, CRAWLER, 5.25" DIA, 12' FEED (ADD COST FOR DRILL STEEL AND BIT WEAR) | 260 HP D-off | | \$261,768 | 94.82 | 12.03 | 19.63 | 2.21 | 36.16 | 265 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | EI | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------------------|--|-----|-----|-------|--------------------|----------------|-------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| D10 | | | SULLIVAN-PALATEK, INC. (continued) | | | | | | | | | | | |
| | D10SU006 | SCORPION VCR361 | DRILL, HYDRAULIC TRACK, CRAWLER, 6.5" DIA, 12' FEED (ADD COST FOR DRILL STEEL AND BIT WEAR) | 260 | HP | D-off | | \$264,932 | 95.48 | 12.18 | 19.87 | 2.24 | 36.16 | 265 |
| D15 | DRILLS | , HORIZONT | AL | | | | | | | | | | | |
| | SUBCATI | EGORY 0.10 | DRILLS, HORIZONTAL BORING & GRO | UND | PIE | RCING | (Add cost for | drill steel | and bit wea | r) | | | | |
| | | BOR-IT MANU | JFACTURING COMPANY INC. | | | | | | | | | | | |
| | D15Bl001 | 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) | 12 | HP | G | | \$16,495 | 6.96 | 0.76 | 1.24 | 0.14 | 3.26 | 18 |
| | 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 | | \$30,058 | 8.95 | 1.38 | 2.25 | 0.25 | 2.78 | 15 |
| | 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 | | \$46,458 | 13.70 | 2.13 | 3.48 | 0.39 | 4.17 | 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 | | \$71,148 | 20.86 | 3.27 | 5.34 | 0.60 | 6.26 | 70 |
| | D15Bl005 | 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 | | \$95,494 | 28.24 | 4.39 | 7.16 | 0.81 | 8.62 | 90 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|---------------------|---|-----------------|-----------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| D15 | | | BOR-IT MANUFACTURING COMPANY INC. (continued) | | | | | | | | | |
| | D15Bl006 | 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 | | \$152,424 | 48.24 | 7.01 | 11.43 | 1.29 | 16.55 | 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 | | \$210,132 | 70.45 | 9.66 | 15.76 | 1.78 | 26.29 | 250 |
| | D15Bl007 | 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 | | \$188,208 | 66.22 | 8.65 | 14.12 | 1.59 | 26.29 | 250 |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | D15XX001 | MC-500H | DRILL, HORIZONTAL BORING, 3" - 6" DIA, 15,000 LBS THRUST, HYDRAULIC MOTOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | \$9,744 | 1.88 | 0.45 | 0.73 | 0.08 | 0.00 | 10 |
| | D15XX002 | H-12/RM-12 | DRILL, HORIZONTAL BORING, 4" - 12" DIA, 24,000 LBS THRUST, HYDRAULIC MOTOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | \$14,666 | 2.83 | 0.67 | 1.10 | 0.12 | 0.00 | 12 |
| | SUBCAT | EGORY 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL | (Add cost for o | drill steel and | bit wear) | | | | | | |
| | | VERMEE | R 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) | 26 HP D-off | | \$50,511 | 13.87 | 2.33 | 3.79 | 0.43 | 3.62 | 32 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | ORSEPOWER JEL TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|------------|-----------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| D15 | | | VERMEER MANUFACTURING CO. (continued) | | | | | | | | | |
| | D15VE002 | D9x13 II | DRILL, HORIZONTAL DIRECTIONAL, 2.5" DIA, 9,000 LB THRUST, W/300' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 47 HP D-0 | ff | \$86,392 | 24.11 | 3.97 | 6.48 | 0.73 | 6.54 | 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-0 | ff | \$121,081 | 33.33 | 5.56 | 9.08 | 1.02 | 8.76 | 105 |
| | D15VE004 | D20x22 II | DRILL, HORIZONTAL DIRECTIONAL, 3.5" DIA, 20,000 LB THRUST, W/400' OF RODS (ADD COST FOR DRILL STEEL AND BIT WEAR) | 83 HP D-0 | ff | \$150,119 | 42.10 | 6.90 | 11.26 | 1.27 | 11.54 | 109 |
| | D15VE005 | D24x40 II | 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-o | ff | \$428,082 | 102.42 | 19.68 | 32.11 | 3.62 | 17.39 | 184 |
| | D15VE006 | D36x50 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-0 | ff | \$314,767 | 82.90 | 14.47 | 23.61 | 2.66 | 19.47 | 219 |
| | 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-0 | ff | \$537,541 | 135.39 | 24.70 | 40.32 | 4.54 | 27.82 | 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-o | ff | \$599,639 | 151.32 | 27.56 | 44.97 | 5.07 | 31.29 | 435 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------------------|--|------|------|---------|--------------------|----------------|---------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| D15 | | | VERMEER MANUFACTURING CO. (continued) | | | | | | | | | | | |
| | D15VE009 | MX125 | DRILL, HORIZONTAL DIRECTIONAL, 500 GAL, DRILLING FLUID MIXING SYSTEM (ADD TRAILER COST) | 6 | HP | G | | \$7,108 | 3.09 | 0.33 | 0.53 | 0.06 | 1.49 | 6 |
| | D15VE010 | MX240 | DRILL, HORIZONTAL DIRECTIONAL, 750 GAL, DRILLING FLUID MIXING SYSTEM (ADD TRAILER COST) | 22 | HP | D-off | | \$20,832 | 7.50 | 0.96 | 1.56 | 0.18 | 3.06 | 12 |
| | D15VE011 | MX240 | DRILL, HORIZONTAL DIRECTIONAL, 1,000 GAL, DRILLING FLUID MIXING SYSTEM (ADD TRAILER COST) | 22 | HP | D-off | | \$21,170 | 7.57 | 0.98 | 1.59 | 0.18 | 3.06 | 13 |
| | D15VE012 | MX240 & MX125 | DRILL, HORIZONTAL DIRECTIONAL, 1,500 GAL, DRILLING FLUID MIXING SYSTEM WITH TRAILER | 28 | HP | D-off | | \$43,854 | 12.81 | 2.02 | 3.29 | 0.37 | 3.82 | 81 |
| D20 | DRILLS | , CORE, COL | LUMN MOUNTED (Add cost for d | rill | stee | l and | bit wear) | | | | | | | |
| | SUBCAT | EGORY 0.00 | DRILLS, CORE, COLUMN MOUNTED (A | dd d | cost | or dril | l 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 | | \$17,135 | 6.08 | 0.96 | 1.61 | 0.15 | 0.84 | 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 | | \$2,315 | 1.11 | 0.13 | 0.22 | 0.02 | 0.37 | 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 | | \$3,323 | 1.13 | 0.19 | 0.31 | 0.03 | 0.23 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | ORSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|---|----------|-----------|----------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | N | IAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| D20 | | | Dynatech (continued) | | | | | | | | | | |
| | D20DN003 | M-6 DRILL BIT SYSTEM | DRILL, CORE, COLUMN MOUNTED, 18" BIT DIA, HYDRUALIC CHAR-LYNN 9.6 CU IN W/ GAS POWER PACK | 18 HI | P G | | \$10,142 | 7.62 | 0.57 | 0.95 | 0.09 | 4.89 | 7 |
| | D20DN004 | M-6 DRILL BIT SYSTEM | DRILL, CORE, COLUMN MOUNTED, 18" BIT DIA, HYDRUALIC CHAR-LYNN 9.6 CU IN W/ ELECT POWER PACK | 13 HI | P E | | \$10,445 | 4.46 | 0.58 | 0.98 | 0.09 | 1.32 | 7 |
| | | 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 HI | P G | | \$14,207 | 8.56 | 0.79 | 1.33 | 0.12 | 4.89 | 8 |
| D25 | DRILLS | , CORE & DO | OWELLING (Add cost for drill ste | eel and | d bit v | rear) | | | | | | | |
| | SUBCAT | EGORY 0.00 | DRILLS, CORE & DOWELLING (Add co | st for c | drill ste | 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 HI | P D-off | | \$86,440 | 22.08 | 3.97 | 6.48 | 0.73 | 3.89 | 35 |
| | D25AD003 | BUSH MASTER | DRILL, CORE, SKID MTD, 1500' MAX DRILL DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR) | 69 HI | P D-ofi | | \$134,150 | 38.25 | 6.16 | 10.06 | 1.13 | 9.60 | 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 CI | FM A | | \$7,814 | 2.11 | 0.33 | 0.52 | 0.07 | 0.00 | 3 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------------------|---|-----------------|---------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| D25 | | | E-Z DRILL, INC. (continued) | | | | | | | | | |
| | 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 | | \$8,501 | 2.25 | 0.37 | 0.59 | 0.07 | 0.00 | 3 |
| | D25EZ001 | 210 B SR HORIZONTAL | 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 | | \$8,992 | 2.35 | 0.42 | 0.67 | 0.08 | 0.00 | 3 |
| | | 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 | | \$31,060 | 7.63 | 1.38 | 2.24 | 0.26 | 0.00 | 12 |
| D30 | DRILLS | , EARTH / A | UGER (Add cost for drill steel an | d cutting ed | ge wear) | | | | | | | |
| | SUBCAT | EGORY 0.00 | DRILLS, EARTH / AUGER (Add cost for | drill steel and | cutting edge v | vear) | | | | | | |
| | | HYDRAUL | IC 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 | | \$172,033 | 70.50 | 7.90 | 12.90 | 1.45 | 29.21 | 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 | | \$217,853 | 90.39 | 10.01 | 16.34 | 1.84 | 37.55 | 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 | | \$265,539 | 111.46 | 12.20 | 19.92 | 2.24 | 46.59 | 269 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|-----|----|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | MN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | F | OREMOST MC | BILE DRILLING COMPANY, INC. | | | | | | | | | | | |
| | D30MR001 | MINUTEMAN | DRILL, EARTH / AUGER, W/AUGER KIT, 3" DIA, 30' DEPTH, 350 FT-LBS TORQUE, PORTABLE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | 8 | HP | G | | \$14,743 | 5.54 | 0.68 | 1.11 | 0.12 | 2.17 | 4 |
| | D30MR003 | B-31 | DRILL, EARTH / AUGER, HYDRAULIC AUGER, 14* DIA, 30' DEPTH, 3,500 FT-LBS TORQUE, TRAILER MOUNTED (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | 58 | HP | D-off | | \$99,938 | 29.65 | 4.54 | 7.39 | 0.84 | 8.07 | 42 |
| | D30MR005 | B-53 | DRILL, EARTH / AUGER, MULTI-PURPOSE, 6" DIA, 245' DEPTH, 5,955 FT-LBS TORQUE, W/21,000 GVW TRUCK (W/PTO DRIVE)(ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR) | 100 | HP | D-off | 230 HP D-on | \$240,681 | 70.71 | 10.90 | 17.74 | 2.03 | 18.73 | 120 |
| | D30MR006 | B-58 | DRILL, EARTH / AUGER, MULTI-PURPOSE, 8" DIA, 250' DEPTH, 7,000 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 | \$247,924 | 75.27 | 11.23 | 18.28 | 2.09 | 21.44 | 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 | \$313,244 | 88.68 | 14.24 | 23.18 | 2.65 | 21.44 | 205 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB | | |
|-----|----------|------------|---|---------|--------|--------------------|----------------|------------------|---------|-------|--------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | МА | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| D35 | DRILLS | , ROTARY E | BLASTHOLE (Add cost for drill st | eel and | bit w | ear) | | | | | | | |
| | SUBCAT | EGORY 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER | HOLE (| Add co | st for drill ste | el and bit w | ear) | | | | | |
| | | DRIL | TECH, INC. (SANDVIK) | | | | | | | | | | |
| | 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 | | \$812,621 | 197.82 | 29.71 | 46.44 | 6.49 | 62.59 | 620 |
| | D35DT002 | D245KS | DRILL, ROTARY BLASTHOLE, 5"-8" DIA., 40,000 LB PULLDOWN, CRAWLER, 148' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | 450 HP | D-off | | \$834,752 | 201.18 | 30.52 | 47.70 | 6.67 | 62.59 | 720 |
| | D35DT003 | D45KS | DRILL, ROTARY BLASTHOLE, 6"-9" DIA., 45,000 LB PULLDOWN, CRAWLER, 208' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | 450 HP | D-off | | \$945,668 | 218.05 | 34.57 | 54.04 | 7.55 | 62.59 | 1,050 |
| | D35DT004 | D50KS | DRILL, ROTARY BLASTHOLE, 6"-9.875" DIA., 50,000 LB PULLDOWN, CRAWLER, 148' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | 525 HP | D-off | | \$1,002,613 | 239.09 | 36.66 | 57.29 | 8.01 | 73.02 | 1,050 |
| | 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 | | \$1,559,623 | 362.56 | 57.02 | 89.12 | 12.46 | 105.70 | 1,320 |
| | D35RL007 | T-650-DII | REICHDRILL 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) | 540 HP | D-off | 505 HP D-off | \$734,609 | 212.27 | 26.58 | 41.42 | 5.87 | 84.34 | 560 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|---|---------|-----------|--------------------|----------------|---------|---------|-------|------------------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.12 | DIESEL, OVER 9.875" DIAMETER (Add | cost fo | r drill s | teel and bit w | ear) | | | | | | |
| | | DRILT | ECH, INC. (SANDVIK) | | | | | | | | | | |
| | D35DT006 | D75KS | DRILL, ROTARY BLASTHOLE, 9"-11" DIA., 75,000 LB PULLDOWN, CRAWLER, 173' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | 760 HP | D-off | | \$1,361,820 | 285.58 | 40.99 | 60.53 | 10.72 | 105.70 | 1,400 |
| | 1 | NGERSOLL RA | ND DRILLING (ATLAS COPCO) | | | | | | | | | | |
| | D35IB004 | T3W | DRILL, ROTARY BLASTHOLE, WATER WELL 6"-24" DIA, 30,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 465 HP | D-off | 380 HP D-on | \$742,903 | 173.86 | 22.16 | 32.62 | 5.85 | 72.63 | 660 |
| | D35IB003 | TH-60 | DRILL, ROTARY BLASTHOLE, WATER WELL, 12" DIA, 26,500 LBS PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 475 HP | D-off | 380 HP D-on | \$779,417 | 179.64 | 23.31 | 34.34 | 6.14 | 74.02 | 600 |
| | D35IB005 | T3W DEEPHOLE | DRILL, ROTARY BLASTHOLE, WATER WELL 6"-18" DIA, 50,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 575 HP | D-off | 380 HP D-on | \$861,241 | 205.74 | 25.72 | 37.87 | 6.78 | 87.93 | 688 |
| | D35IB006 | T4W | DRILL, ROTARY BLASTHOLE, WATER WELL 6"-20" DIA, 70,000 LB PULL BACK, TRUCK MTD (ADD COST FOR DRILL STEEL AND BIT WEAR) | 600 HP | D-off | 305 HP D-on | \$905,546 | 213.26 | 27.05 | 39.84 | 7.13 | 89.84 | 688 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB | | |
|-----|----------|------------|---|----|-----|-------|--------------------|----------------|------------------|---------|------|--------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| F10 | FORK L | _IFTS | | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | FORK LIFTS | | | | | | | | | | | |
| | | | JCB INC. | | | | | | | | | | | |
| | F10JC001 | 930-4 | FORK LIFT, ROUGH TERRAIN, 6,000 LBS @ 28' HIGH STRAIGHT MAST, 4X4 | 75 | HP | D-off | | \$78,379 | 24.41 | 3.62 | 5.95 | 0.64 | 8.51 | 150 |
| | F10JC002 | 940-4 | FORK LIFT, ROUGH TERRAIN, 8,000 LBS @ 30' HIGH STRAIGHT MAST, 4X4 | 75 | HP | D-off | | \$85,263 | 25.66 | 3.95 | 6.50 | 0.70 | 8.51 | 165 |
| G10 | GENER | ATOR SETS | 3 | | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | PORTABLE | | | | | | | | | | | |
| | | WAG | CKER CORPORATION | | | | | | | | | | | |
| | G10WC001 | GP 3800A | GENERATOR SET, PORTABLE, 3.7 KW, 120/240V, 60 HZ | 8 | HP | G | | \$1,509 | 2.31 | 0.10 | 0.17 | 0.01 | 1.78 | 2 |
| | G10WC002 | P GP 5600A | GENERATOR SET, PORTABLE, 5.6 KW, 120/240V, 60 HZ | 11 | HP | G | | \$1,769 | 3.11 | 0.11 | 0.20 | 0.01 | 2.45 | 2 |
| | G10WC003 | 3 GS 8.5V | GENERATOR SET, PORTABLE, 8.5 KW, 120/240V, 60 HZ, WITH ELECTRIC START | 16 | HP | G | | \$5,602 | 5.16 | 0.36 | 0.63 | 0.04 | 3.56 | 2 |
| | G10WC004 | GPS 9700V | GENERATOR SET, PORTABLE, 9.7 KW, 120/240V, 60 HZ, WITH ELECTRIC START | 18 | HP | G | | \$3,070 | 5.12 | 0.20 | 0.35 | 0.02 | 4.00 | 2 |
| | | NO SPI | ECIFIC MANUFACTURER | | | | | | | | | | | |
| | G10XX001 | 1000 | GENERATOR SET, PORTABLE, 1 KW | 3 | HP | G | | \$906 | 0.82 | 0.06 | 0.10 | 0.01 | 0.56 | 1 |
| | G10XX004 | D4500 | GENERATOR SET, PORTABLE, 5 KW | 9 | HP | D-off | | \$6,817 | 2.58 | 0.44 | 0.77 | 0.05 | 1.02 | 3 |
| | G10XX002 | 10000 | GENERATOR SET, PORTABLE, 10 KW | 18 | HP | G | | \$3,557 | 5.22 | 0.23 | 0.40 | 0.03 | 4.00 | 3 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|----------|-------|--------------------|----------------|---------|---------|-------|------------------|--------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| G10 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | G10XX003 | 10000D | GENERATOR SET, PORTABLE, 10 KW | 23 HP | D-off | | \$13,187 | 5.69 | 0.84 | 1.48 | 0.10 | 2.61 | 9 |
| | SUBCATI | EGORY 0.20 | SKID MOUNTED | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | G10CA020 | 3304 PKG - P 304DE03 | GENERATOR SET, SKID MTD, 113 EKW, 240/480V, 60 HZ PGS PRIME | 174 HP | D-off | | \$32,504 | 27.97 | 1.72 | 2.93 | 0.25 | 19.74 | 37 |
| | G10CA012 | 3306 PKG - 306DE39 | GENERATOR SET, SKID MTD, 210 EKW, 240 VOLT, 60 HZ PGS PRIME | 314 HP | D-off | | \$40,261 | 47.11 | 2.12 | 3.62 | 0.31 | 35.63 | 50 |
| | G10CA013 | 3406 PKG - 306DE30 | GENERATOR SET, SKID MTD, 275 EKW, 480 VOLT, 60 HZ PGS PRIME | 405 HP | D-off | | \$52,703 | 60.90 | 2.77 | 4.74 | 0.40 | 45.95 | 68 |
| | G10CA014 | 3406 PKG - 406DE30 | GENERATOR SET, SKID MTD, 365 EKW, 240/480V, 60 HZ PGS PRIME | 536 HP | D-off | | \$71,831 | 80.98 | 3.78 | 6.46 | 0.55 | 60.81 | 72 |
| | G10CA015 | 3412 PKG - 412DE3H | GENERATOR SET, SKID MTD, 455 EKW, 240/480V, 60 HZ PGS PRIME | 687 HP | D-off | | \$95,462 | 104.42 | 5.03 | 8.59 | 0.73 | 77.95 | 93 |
| | G10CA016 | 3412 PKG - 412DE30 | GENERATOR SET, SKID MTD, 545 EKW, 240/480V, 60 HZ PGS PRIME | 817 HP | D-off | | \$116,700 | 124.75 | 6.14 | 10.50 | 0.89 | 92.70 | 100 |
| | G10CA017 | 3508 PKG - 508DE34 | GENERATOR SET, SKID MTD, 725 EKW, 480 VOLT, 60 HZ PGS PRIME | 1,000 HP | D-off | | \$262,860 | 174.52 | 13.84 | 23.66 | 2.01 | 113.46 | 181 |
| | G10CA018 | 3512 PKG - 512DE1F | GENERATOR SET, SKID MTD, 1000 EKW, 480 VOLT, 60 HZ PGS PRIME | 2,206 HP | D-off | | \$308,975 | 335.72 | 16.27 | 27.81 | 2.36 | 250.29 | 236 |
| | G10CA019 | 3516 PKG - 516DE35 | GENERATOR SET, SKID MTD, 1600 EKW, 480 VOLT, 60 HZ PGS PRIME | 2,304 HP | D-off | | \$446,092 | 373.07 | 23.49 | 40.15 | 3.41 | 261.41 | 291 |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | G10XX005 | 25G | GENERATOR SET, SKID MTD, 25 KW | 36 HP | G | | \$27,708 | 13.98 | 1.46 | 2.49 | 0.21 | 8.01 | 16 |
| | G10XX006 | 35G | GENERATOR SET, SKID MTD, 35 KW | 50 HP | G | | \$18,326 | 15.75 | 0.97 | 1.65 | 0.14 | 11.12 | 17 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|----------|-------|--------------------|----------------|---------|---------|-------|-----------------|--------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| G10 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | G10XX007 | 50G | GENERATOR SET, SKID MTD, 50 KW | 70 HP | G | | \$13,471 | 19.83 | 0.71 | 1.21 | 0.10 | 15.57 | 13 |
| | G10XX008 | 75D | GENERATOR SET, SKID MTD, 75 KW | 107 HP | D-off | | \$26,348 | 18.35 | 1.39 | 2.37 | 0.20 | 12.14 | 40 |
| | G10XX009 | 100D | GENERATOR SET, SKID MTD, 100 KW | 143 HP | D-off | | \$24,730 | 22.62 | 1.31 | 2.23 | 0.19 | 16.22 | 29 |
| | G10XX010 | 110D | GENERATOR SET, SKID MTD, 110 KW | 170 HP | D-off | | \$63,838 | 33.16 | 3.37 | 5.75 | 0.49 | 19.29 | 44 |
| | G10XX011 | 200D | GENERATOR SET, SKID MTD, 200 KW | 375 HP | D-off | | \$54,129 | 57.36 | 2.85 | 4.87 | 0.41 | 42.55 | 60 |
| | G10XX012 | 300D | GENERATOR SET, SKID MTD, 300 KW | 428 HP | D-off | | \$85,101 | 69.71 | 4.48 | 7.66 | 0.65 | 48.56 | 105 |
| | G10XX013 | 400D | GENERATOR SET, SKID MTD, 400 KW | 570 HP | D-off | | \$71,877 | 85.30 | 3.79 | 6.47 | 0.55 | 64.67 | 150 |
| | G10XX014 | 500D | GENERATOR SET, SKID MTD, 500 KW | 713 HP | D-off | | \$81,026 | 105.08 | 4.27 | 7.29 | 0.62 | 80.90 | 170 |
| | G10XX015 | 750D | GENERATOR SET, SKID MTD, 750 KW | 1,050 HP | D-off | | \$166,975 | 163.42 | 8.80 | 15.03 | 1.28 | 119.13 | 215 |
| | G10XX016 | 1000D | GENERATOR SET, SKID MTD, 1,000 KW | 1,425 HP | D-off | | \$156,051 | 208.94 | 8.21 | 14.04 | 1.19 | 161.68 | 154 |
| G15 | GRADE | RS, MOTOR | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | GRADERS, MOTOR | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | G15CA001 | 120-M | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/17 TEETH SCARIFIERS | 138 HP | D-off | | \$312,890 | 58.93 | 10.50 | 15.84 | 2.58 | 14.65 | 299 |
| | G15CA003 | 12-M | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/11 TEETH SCARIFIERS | 158 HP | D-off | | \$310,405 | 61.08 | 10.42 | 15.71 | 2.56 | 16.77 | 336 |
| | G15CA004 | 140-M | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/5 RIPPER/SCARIFIERS | 183 HP | D-off | | \$319,936 | 65.82 | 10.70 | 16.12 | 2.64 | 19.42 | 334 |
| | G15CA009 | 160-M | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/5 RIPPER/SCARIFIERS | 213 HP | D-off | | \$353,743 | 73.85 | 11.86 | 17.87 | 2.92 | 22.61 | 351 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | I | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------------|---|-------------------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| G15 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | G15CA005 | 14-M | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/7 SHANK RIPPER | 259 HP D-off | | \$482,994 | 98.41 | 16.05 | 24.13 | 3.98 | 27.49 | 471 |
| | G15CA006 | 16-M | GRADER, MOTOR, ARTICULATED, 6X4, 16' BLADE W/7 SHANK RIPPER | 297 HP D-off | | \$729,753 | 136.07 | 24.43 | 36.81 | 6.02 | 31.52 | 575 |
| | | D | EERE & COMPANY | | | | | | | | | |
| | G15JD008 | 670G | GRADER, MOTOR, ARTICULATED, 6X4, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 151 HP D-off | | \$246,352 | 53.86 | 8.06 | 12.06 | 2.03 | 16.03 | 343 |
| | G15JD009 | 672G | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 156 HP D-off | | \$260,746 | 56.97 | 8.56 | 12.81 | 2.15 | 16.56 | 353 |
| | G15JD010 | 770G | GRADER, MOTOR, ARTICULATED, 6X4, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 185 HP D-off | | \$265,967 | 60.58 | 8.73 | 13.08 | 2.19 | 19.64 | 353 |
| | G15JD011 | 772G | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 205 HP D-off | | \$306,777 | 68.91 | 10.13 | 15.19 | 2.53 | 21.76 | 363 |
| H10 | HAMME | ERS, HYDR <i>A</i> | AULIC (Demolition tool) (Add cost | t for point we | ear) | | | | | | | |
| | SUBCAT | EGORY 0.00 | HAMMERS, HYDRAULIC (Demolition to | ool) (Add cost fo | r point wear) | | | | | | | |
| | | NPK CO | NSTRUCTION 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) | | | \$6,546 | 3.09 | 0.50 | 0.87 | 0.06 | 0.00 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------|---|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H10 | | | NPK CONSTRUCTION EQUIPMENT (continued) | | | | | | | | | |
| | 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) | | | \$6,840 | 3.19 | 0.52 | 0.91 | 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) | | | \$8,005 | 4.00 | 0.61 | 1.07 | 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) | | | \$9,955 | 4.68 | 0.76 | 1.33 | 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) | | | \$12,981 | 6.13 | 0.98 | 1.73 | 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) | | | \$20,650 | 8.81 | 1.56 | 2.75 | 0.18 | 0.00 | 10 |
| | H10NP025 | GH6 | HAMMERS, HYDRAULIC, 2,000 FT-LBS, IMPACT FREQUENCY 650 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | \$36,865 | 14.88 | 2.78 | 4.92 | 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) | | | \$47,058 | 18.44 | 3.55 | 6.27 | 0.41 | 0.00 | 29 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|---------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H10 | | | NPK CONSTRUCTION EQUIPMENT (continued) | | | | | | | | | | |
| | H10NP027 | GH9 | HAMMERS, HYDRAULIC, 2,500 FT-LBS, IMPACT FREQUENCY 590 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | | \$55,311 | 21.32 | 4.17 | 7.37 | 0.48 | 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) | | | | \$77,140 | 29.35 | 5.82 | 10.29 | 0.67 | 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) | | | | \$100,804 | 37.61 | 7.59 | 13.44 | 0.87 | 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) | | | | \$246,915 | 88.64 | 18.59 | 32.92 | 2.13 | 0.00 | 170 |
| H13 | HAZAR | DOUS/TOXI | C WASTE EQUIPMENT | | | | | | | | | | |
| | SUBCAT | EGORY 0.11 | COMPACTORS (Compression force) | THRU 5 | 50 TO | NS | | | | | | | |
| | СО | NSOLIDATED | BALING MACHINE COMPANY, INC | | | | | | | | | | |
| | H13CB001 | DOS RAW WI | HAZARDOUS/TOXIC WASTE EQIPMENT, COMPACTOR, RADIOLOGICAL WASTE, 12.5 TON, LOW LEVEL | 5 HP | E | | \$26,502 | 6.04 | 1.34 | 2.25 | 0.21 | 0.43 | 25 |
| | H13CB002 | DOS RAW W2 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, RADIOLOGICAL WASTE, 20 TON, LOW LEVEL | 10 HP | E | | \$28,653 | 7.15 | 1.45 | 2.44 | 0.23 | 0.86 | 25 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-----------|---|----|----|-------|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | WASTE | CONTROL SYSTEMS, INC. | | | | | | | | | | | |
| | H13CO002 | 8041CC | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 37 TON HAZARD WASTE IN- DRUM, EXPLOSION PROOF | 5 | HP | E | | \$12,560 | 3.36 | 0.64 | 1.07 | 0.10 | 0.43 | 167 |
| | | | ENVIRO-PAK | | | | | | | | | | | |
| | H13EP001 | 4000HM | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON HAZARDOUS WASTE, HAZ-MAT STORAGE CONTAINER 40"X40"X40" | 5 | HP | E | | \$31,277 | 6.96 | 1.58 | 2.66 | 0.25 | 0.43 | 32 |
| | | TEE | MARK CORPORATION | | | | | | | | | | | |
| | H13TH001 | DPC60-E50 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON DRUM CRUSHER | 5 | HP | E | | \$14,718 | 3.52 | 0.75 | 1.25 | 0.12 | 0.43 | 20 |
| | H13TH002 | DPC60-D90 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON DRUM CRUSHER, TRAILER MOUNTED | 9 | HP | D-off | | \$27,695 | 6.45 | 1.37 | 2.30 | 0.22 | 1.02 | 32 |
| | H13TH003 | DPC85-D90 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 42.5 TON DRUM CRUSHER, TRAILER MOUNTED | 9 | HP | D-off | | \$31,331 | 7.15 | 1.56 | 2.61 | 0.25 | 1.02 | 47 |
| | | ADVANCED | ENVIRONMENTAL SOLUTIONS | | | | | | | | | | | |
| | H13YB001 | CCYC | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 700 PSI OPERATING PRESSURE, FINAL COMPACTED SIZE 39.4" X 39.4" X 39.4" | 50 | HP | E | | \$406,410 | 85.10 | 20.49 | 34.54 | 3.22 | 4.29 | 320 |
| | H13YB002 | CCYC-HD-E | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 1,000 PSI OPERATING PRESSURE, FINAL COMPACTED SIZE 39.4" X 39.4" X 39.4" | 50 | HP | E | | \$406,410 | 85.10 | 20.49 | 34.54 | 3.22 | 4.29 | 320 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|-----|------|------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H13 | | | ADVANCED ENVIRONMENTAL SOLUTIONS (continued) | | | | | | | | | | | |
| | H13YB003 | CMC-HD | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 1,200 PSI OPERATING PRESSURE, FINAL COMPACTED SIZE 39.4" X 39.4" X 39.4" | 50 | HP | E | | \$406,410 | 85.10 | 20.49 | 34.54 | 3.22 | 4.29 | 320 |
| | SUBCAT | EGORY 0.12 | COMPACTORS (Compression force) | OVE | R 50 | TONS | | | | | | | | |
| | | WASTE (| CONTROL SYSTEMS, INC. | | | | | | | | | | | |
| | H13CO003 | 8551 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN- DRUM | 3 | HP | E | | \$26,625 | 5.15 | 1.10 | 1.78 | 0.21 | 0.26 | 270 |
| | H13CO004 | 8564 | HAZARDOUS/TOXIC WASTE EQIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN- DRUM, W/HEPA FILTER | 3 | HP | E | | \$39,138 | 7.50 | 1.63 | 2.61 | 0.32 | 0.26 | 290 |
| | H13CO006 | 8560-EX | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN- DRUM, W/HEPA FILTER & SS PLATEN & CHAMBER | 3 | HP | E | | \$56,984 | 10.35 | 2.36 | 3.80 | 0.46 | 0.26 | 300 |
| | H13CO005 | 8560-EXL | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN- DRUM, EXPLOSION PROOF, W/LIQUID REMOVAL SYSTEM | 3 | HP | E | | \$67,750 | 12.31 | 2.81 | 4.52 | 0.55 | 0.26 | 310 |
| | | | ENVIRO-PAK | | | | | | | | | | | |
| | H13EP002 | 9600HM | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 42.5 TON HAZARDOUS WASTE, B-25 METAL STORAGE CONTAINER 4'X4'X6' | 8 | HP | E | | \$41,003 | 8.22 | 1.70 | 2.73 | 0.33 | 0.64 | 100 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.21 | FILTER PRESSES, STATIONARY | | | | | | | | | |
| | | KOMLINE-SA | NDERSON ENGINEERING CO. | | | | | | | | | |
| | H13AY015 | L/S 1200/25 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 25 CF MEMBRANE, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$69,518 | 13.92 | 3.35 | 5.56 | 0.57 | 0.00 | 112 |
| | H13AY016 | K/F 1200/25 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 25 CF CONVENTIONAL, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$45,079 | 9.03 | 2.18 | 3.61 | 0.37 | 0.00 | 108 |
| | H13AY013 | L/S 1200/50 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 50 CF MEMBRANE, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$117,989 | 23.61 | 5.68 | 9.44 | 0.96 | 0.00 | 173 |
| | H13AY014 | K/F 1200/50 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 50 CF CONVENTIONAL, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$63,436 | 12.69 | 3.06 | 5.07 | 0.52 | 0.00 | 168 |
| | H13AY011 | L/S 1200/75 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 75 CF MEMBRANE, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$147,055 | 29.43 | 7.08 | 11.76 | 1.20 | 0.00 | 194 |
| | H13AY012 | K/F 1200/75 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 75 CF CONVENTIONAL, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$75,287 | 15.07 | 3.63 | 6.02 | 0.62 | 0.00 | 188 |
| | H13AY009 | L/S 1200/100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 100 CF MEMBRANE, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$175,813 | 35.20 | 8.48 | 14.07 | 1.44 | 0.00 | 199 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------|---|---------|---|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H13 | | | KOMLINE-SANDERSON ENGINEERING CO. (continued) | | | | | | | | | | |
| | H13AY010 | K/F 1200/100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 100 CF CONVENTIONAL, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM | A | | \$89,676 | 17.94 | 4.32 | 7.17 | 0.73 | 0.00 | 191 |
| | H13AY007 | L/S 1200/125 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 125 CF MEMBRANE, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM | A | | \$197,637 | 39.57 | 9.53 | 15.81 | 1.62 | 0.00 | 216 |
| | H13AY008 | K/F 1200/125 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 125 CF CONVENTIONAL, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM | A | | \$97,150 | 19.44 | 4.68 | 7.77 | 0.79 | 0.00 | 207 |
| | H13AY017 | L/S 1200/150 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 150 CF MEMBRANE, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM | Α | | \$219,500 | 43.93 | 10.57 | 17.56 | 1.79 | 0.00 | 235 |
| | H13AY018 | K/F 1200/150 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 150 CF CONVENTIONAL, 1,200 MM SQ (ADD 100 CFM COMPRESSOR) | 100 CFM | A | | \$111,810 | 22.37 | 5.38 | 8.94 | 0.91 | 0.00 | 224 |
| | H13AY019 | | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, FILTER PRESS PLATE SHIFTING UNIT, 1,200 MM SQ, MECHANIZED | 1 HP | E | | \$14,356 | 3.27 | 0.70 | 1.15 | 0.12 | 0.09 | 5 |
| | H13AY020 | SLC-500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, PLC CONTROL PANEL - PLATE SHIFTING, COMPUTER AUTOMATED | 1 HP | E | | \$18,597 | 4.11 | 0.90 | 1.49 | 0.15 | 0.09 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|--------------|---|----|-----|---|--------------------|----------------|------------------|---------|-------|-----------------|------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | USFILT | ER PERRIN PRODUCTS | | | | | | | | | | | |
| | H13PR001 | PLC 25-1000 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 25 CF STANDARD FILTER PRESS, 1,000 MM SQ | 3 | HP | E | | \$110,384 | 22.51 | 5.32 | 8.83 | 0.90 | 0.26 | 125 |
| | H13PR003 | PLC 115-1200 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 115 CF STANDARD FILTER PRESS, 1,200 MM SQ | 5 | HP | E | | \$195,423 | 39.81 | 9.42 | 15.63 | 1.60 | 0.43 | 460 |
| | H13PR005 | PLC 180-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 180 CF STANDARD FILTER PRESS, 1,500 MM SQ | 5 | HP | E | | \$257,402 | 52.21 | 12.40 | 20.59 | 2.10 | 0.43 | 680 |
| | H13PR007 | PLC 270-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 270 CF MAXI FILTER PRESS, 1,500 MM SQ | 10 | HP | E | | \$318,691 | 65.18 | 15.36 | 25.50 | 2.61 | 0.86 | 1,100 |
| | H13PR022 | BPR 1200-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 47" WIDE FILTER BELT PRESS, 2 HP | 2 | HP | E | | \$228,242 | 45.96 | 11.00 | 18.26 | 1.87 | 0.17 | 191 |
| | H13PR023 | BPR 1600-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 63" WIDE FILTER BELT PRESS, 3 HP | 3 | HP | E | | \$261,076 | 52.68 | 12.58 | 20.89 | 2.13 | 0.26 | 258 |
| | H13PR024 | BPR 2000-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 78.75" WIDE FILTER BELT PRESS, 3 HP | 3 | HP | E | | \$289,391 | 58.35 | 13.95 | 23.15 | 2.37 | 0.26 | 319 |
| | H13PR025 | BPR 2500-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 98.5" WIDE FILTER BELT PRESS, 3 HP | 3 | HP | E | | \$348,802 | 70.24 | 16.80 | 27.90 | 2.85 | 0.26 | 515 |
| | H13PR026 | BPR 3000-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 118" WIDE FILTER BELT PRESS, 4 HP | 4 | HP | E | | \$425,186 | 85.66 | 20.49 | 34.01 | 3.48 | 0.34 | 594 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|--------------|--|---------|---|--------------------|----------------|---------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | 1 | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.22 | FILTER PRESSES, MOBILE | | | | | | | | | | |
| | | KOMLINE-SA | NDERSON ENGINEERING CO. | | | | | | | | | | |
| | H13AY031 | L/S 1200/25M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 25 CF MEMBRANE, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM | A | | \$86,509 | 16.85 | 4.22 | 7.08 | 0.68 | 0.00 | 112 |
| | H13AY032 | K/F 1200/25M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 25 CF CONVENTIONAL, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM | Α | | \$57,790 | 11.33 | 2.78 | 4.64 | 0.46 | 0.00 | 109 |
| | H13AY029 | L/S 1200/50M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 50 CF MEMBRANE, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM | Α | | \$131,067 | 25.43 | 6.48 | 10.87 | 1.04 | 0.00 | 193 |
| | H13AY030 | K/F 1200/50M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 50 CF CONVENTIONAL, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM | Α | | \$76,515 | 14.93 | 3.73 | 6.23 | 0.61 | 0.00 | 188 |
| | H13AY027 | L/S 1200/75M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 75 CF MEMBRANE, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM | A | | \$161,530 | 31.29 | 8.01 | 13.46 | 1.28 | 0.00 | 214 |
| | H13AY028 | K/F 1200/75M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 75 CF CONVENTIONAL, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM | Α | | \$89,761 | 17.48 | 4.39 | 7.36 | 0.71 | 0.00 | 208 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|---------------|---|-----------|---------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H13 | | | KOMLINE-SANDERSON ENGINEERING CO. (continued) | | | | | | | | | |
| | H13AY025 | L/S 1200/100M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 100 CF MEMBRANE, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$191,682 | 37.09 | 9.53 | 16.02 | 1.52 | 0.00 | 219 |
| | H13AY026 | K/F 1200/100M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 100 CF CONVENTIONAL, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$105,544 | 20.52 | 5.19 | 8.70 | 0.84 | 0.00 | 211 |
| | H13AY023 | L/S 1200/125M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 125 CF MEMBRANE, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$214,902 | 41.55 | 10.70 | 17.99 | 1.70 | 0.00 | 236 |
| | H13AY024 | K/F 1200/125M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 125 CF CONVENTIONAL, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$114,415 | 22.22 | 5.64 | 9.45 | 0.91 | 0.00 | 227 |
| | H13AY021 | L/S 1200/150M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 150 CF MEMBRANE, 1,200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$236,372 | 45.69 | 11.78 | 19.82 | 1.87 | 0.00 | 255 |
| | H13AY022 | K/F 1200/150M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 150 CF CONVENTIONAL, 1200 MM SQ, TRAILER MOUNTED (ADD 100 CFM COMPRESSOR) | 100 CFM A | | \$128,698 | 24.97 | 6.36 | 10.67 | 1.02 | 0.00 | 244 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | HORSEPOWER FUEL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAE LEMEN | | |
|-----|----------|----------|---|-------|-------------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | | KOCH-WATER | | | | | | | | | |
| | H13KP001 | BFP-0500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, FILTER BELT PRESS, 20" (0.5M) WIDE, 0.6 - 2.0 TONS/HR, TRAILER MOUNTED (STAND ALONE UNIT, INCLUDES POLYMER FEED PUMP, BOOSTER PUMP, SLUDGE PUMP, AND DISCHARGE CONVEYOR) | 13 HP | E | \$90,774 | 19.24 | 4.55 | 7.65 | 0.72 | 1.07 | 40 |
| | H13KP002 | BFP-1000 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, FILTER BELT PRESS, 39" (1.0M) WIDE, 3.0 - 6.5 TONS/HR, TRAILER MOUNTED (STAND ALONE UNIT, INCLUDES POLYMER FEED PUMP, BOOSTER PUMP, SLUDGE PUMP, AND DISCHARGE CONVEYOR) | 16 HP | E | \$102,928 | 22.00 | 5.16 | 8.69 | 0.81 | 1.33 | 48 |
| | H13KP003 | BFP-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, FILTER BELT PRESS, 59" (1.5M) WIDE, 6.0 - 14.0 TONS/HR, TRAILER MOUNTED (STAND ALONE UNIT, INCLUDES POLYMER FEED PUMP, BOOSTER PUMP, SLUDGE PUMP, AND DISCHARGE CONVEYOR) | 22 HP | E | \$121,064 | 26.39 | 6.08 | 10.23 | 0.96 | 1.89 | 55 |
| | H13KP004 | BFP-2000 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, FILTER BELT PRESS, 79" (2.0M) WIDE, 14.0 - 20.0 TONS/HR, TRAILER MOUNTED (STAND ALONE UNIT, INCLUDES POLYMER FEED PUMP, BOOSTER PUMP, SLUDGE PUMP, AND DISCHARGE CONVEYOR) | 28 HP | E | \$139,257 | 30.70 | 6.99 | 11.77 | 1.10 | 2.40 | 65 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------------|--|---|----|----|--------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | USFILT | ER PERRIN PRODUCTS | | | | | | | | | | | |
| | H13PR002 | PLC 25-1000M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 25 CF STANDARD FILTER PRESS, 1,000 MM SQ, TRAILER MOUNTED (COMPLETE) | 3 | HP | E | | \$310,369 | 61.85 | 15.52 | 26.11 | 2.46 | 0.26 | 145 |
| | H13PR006 | 180-1500M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 180 CF STANDARD FILTER PRESS,1,500 MM SQ, TRAILER MOUNTED | 5 | HP | E | | \$274,049 | 55.13 | 13.68 | 23.02 | 2.17 | 0.43 | 705 |
| | H13PR011 | BPR 1200-15H- M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 47" FILTER BELT PRESS, TRAILER MOUNTED (STAND ALONE UNIT, ADD APPURTENANCES SUCH AS FEED PUMPS, POLYMER SYSTEM, WASH WATER BOOSTER PUMP, CONVEYOR ETC.) | 2 | HP | E | | \$428,691 | 84.46 | 21.48 | 36.17 | 3.39 | 0.17 | 235 |
| | H13PR012 | BPR 1600-15H- M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 63" FILTER BELT PRESS, TRAILER MOUNTED (STAND ALONE UNIT, ADD APPURTENANCES SUCH AS FEED PUMPS, POLYMER SYSTEM, WASH WATER BOOSTER PUMP, CONVEYOR ETC.) | 3 | HP | E | | \$460,781 | 90.79 | 23.10 | 38.89 | 3.65 | 0.26 | 302 |
| | H13PR013 | BPR 2000-15H- M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 78.75" FILTER BELT PRESS, TRAILER MOUNTED (STAND ALONE UNIT, ADD APPURTENANCES SUCH AS FEED PUMPS, POLYMER SYSTEM, WASH WATER BOOSTER PUMP, CONVEYOR ETC.) | 5 | HP | E | | \$488,990 | 96.48 | 24.52 | 41.29 | 3.87 | 0.43 | 319 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------------|---|---|----|----|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H13 | | | USFILTER PERRIN PRODUCTS (continued) | | | | | | | | | | | |
| | H13PR014 | BPR 2500-15H- M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 98.5" FILTER BELT PRESS, TRAILER MOUNTED (STAND ALONE UNIT, ADD APPURTENANCES SUCH AS FEED PUMPS, POLYMER SYSTEM, WASH WATER BOOSTER PUMP, CONVEYOR ETC.) | 8 | HP | Е | | \$548,400 | 108.33 | 27.51 | 46.34 | 4.34 | 0.69 | 515 |
| | H13PR015 | BPR 3000-15H- M | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, 118" FILTER BELT PRESS, TRAILER MOUNTED (STAND ALONE UNIT, ADD APPURTENANCES SUCH AS FEED PUMPS, POLYMER SYSTEM, WASH WATER BOOSTER PUMP, CONVEYOR ETC.) | 8 | HP | Е | | \$624,784 | 123.02 | 31.36 | 52.83 | 4.94 | 0.69 | 594 |
| | | SOMAT WAST | E REDUCTION TECHNOLOGY | | | | | | | | | | | |
| | H13S5001 | 1PB-6D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 6-15 GPM CAPACITY, TRAILER MOUNTED | 3 | HP | Е | | \$61,787 | 12.31 | 3.12 | 5.25 | 0.49 | 0.26 | 14 |
| | H13S5002 | 1PB-9D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 15-40 GPM CAPACITY, TRAILER MOUNTED | 5 | HP | E | | \$96,823 | 19.32 | 4.89 | 8.23 | 0.77 | 0.43 | 35 |
| | H13S5003 | 2PB-9D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 30-80 GPM CAPACITY, TRAILER MOUNTED | 5 | HP | E | | \$114,983 | 22.81 | 5.80 | 9.77 | 0.91 | 0.43 | 40 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|---|-----|---|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCATI | EGORY 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 | | \$16,847 | 7.61 | 1.84 | 3.37 | 0.15 | 0.26 | 9 |
| | H13BC010 | 305 TX | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 35 LB DRY WT. | 3 | HP | E | | \$14,659 | 6.67 | 1.60 | 2.93 | 0.13 | 0.26 | 6 |
| | H13BC012 | GP 60 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 60 LB DRY WT. | 3 | HP | E | | \$18,619 | 8.36 | 2.03 | 3.72 | 0.17 | 0.26 | 9 |
| | H13BC006 | 605 TX | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 60 LB DRY WT. | 3 | HP | E | | \$18,091 | 8.15 | 1.98 | 3.62 | 0.17 | 0.26 | 9 |
| | H13BC011 | GP 100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 100 LB DRY WT. | 5 | HP | E | | \$22,758 | 10.41 | 2.49 | 4.55 | 0.21 | 0.43 | 12 |
| | H13BC003 | GP 130 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 130 LB DRY WT. | 5 | HP | Е | | \$25,002 | 11.36 | 2.73 | 5.00 | 0.23 | 0.43 | 12 |
| | H13BC009 | 355 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 35 LB | 3 | HP | E | | \$25,747 | 11.42 | 2.82 | 5.15 | 0.24 | 0.26 | 6 |
| | H13BC007 | 655 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 60 LB | 3 | HP | E | | \$29,793 | 13.14 | 3.25 | 5.96 | 0.27 | 0.26 | 9 |
| | H13BC008 | 755 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 100 LB | 5 | HP | Е | | \$34,324 | 15.34 | 3.75 | 6.86 | 0.32 | 0.43 | 12 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|--------|---|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.40 | SHREDDERS | | | | | | | | | | |
| | GR | ANUTE-SATUR | N SYSTEMS(MAC CORPORATION) | | | | | | | | | | |
| | H13MN001 | 52-32HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 32" X 52" OPENING, TRAILER MTD, W/DIESEL GENERATOR SET/ BELT- TYPE INFEED & DISCHARGE CONVEYORS | 150 HP | Е | | \$387,256 | 102.08 | 19.29 | 32.46 | 3.06 | 12.87 | 200 |
| | 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 | | \$453,322 | 123.17 | 22.53 | 37.87 | 3.59 | 17.16 | 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 | | \$513,643 | 136.53 | 25.56 | 43.00 | 4.06 | 17.16 | 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 | | \$586,077 | 165.67 | 29.22 | 49.16 | 4.64 | 25.74 | 400 |
| | | SHI | RED-TECH LIMITED | | | | | | | | | | |
| | H13SH001 | ST-25E | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 29" X 42" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 20 HP | E | | \$59,835 | 14.92 | 3.02 | 5.09 | 0.47 | 1.72 | 20 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|---------|--|-----|----|-----|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | M | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H13 | | | SHRED-TECH LIMITED (continued) | | | | | | | | | | | |
| | 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 | | \$56,128 | 14.16 | 2.83 | 4.77 | 0.44 | 1.72 | 23 |
| | H13SH003 | ST-50 | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 40" X 55" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 40 | HP | E | | \$96,619 | 25.10 | 4.87 | 8.21 | 0.76 | 3.43 | 45 |
| | H13SH004 | ST-50L | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 40" X 65" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 40 | HP | E | | \$100,831 | 25.97 | 5.09 | 8.57 | 0.80 | 3.43 | 50 |
| | 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 | | \$161,568 | 46.40 | 8.15 | 13.73 | 1.28 | 8.58 | 200 |
| | H13SH006 | ST-500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 66" X 96" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 300 | HP | E | | \$518,770 | 146.16 | 26.15 | 44.10 | 4.10 | 25.74 | 420 |
| | H13SH007 | ST-500L | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 66" X 115" OPENING, TRAILER MTD. (ADD COST FOR CONVEYOR SYSTEM, POWER SUPPLY, AND TRAILER) | 600 | HP | E | | \$675,507 | 218.14 | 34.05 | 57.42 | 5.34 | 51.48 | 440 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|---------|-----|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCATI | EGORY 0.71 | WASTE HANDLING EQUIPMENT, DRU | M HANDL | ING | | | | | | | | |
| | | | BASCO | | | | | | | | | | |
| | H13BB001 | VELT 55/35 | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, DRUM HANDLING, DRUM FILLER, 55 GAL TOP FILL | 10 HP | Е | | \$15,897 | 10.54 | 1.83 | 3.38 | 0.14 | 0.86 | 11 |
| | H13BB002 | 2B | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, DRUM CLEANER, 12 DRUM/HR CAP INTERIOR | 15 HP | Ε | | \$20,339 | 13.83 | 2.34 | 4.32 | 0.18 | 1.29 | 19 |
| H20 | HOISTS | & AIR WIN | CHES | | | | | | | | | | |
| | SUBCATI | EGORY 0.00 | HOISTS & AIR WINCHES | | | | | | | | | | |
| | | INGERSOLL | RAND MATERIAL HANDLING | | | | | | | | | | |
| | H20BE002 | FA2.5i | AIR WINCH, MANUAL BRAKE, 24" DRUM, 5,000 LBS CAP, 145 FPM (ADD 700 CFM COMPRESSOR) | 25 CFM | Α | | \$34,815 | 7.43 | 1.84 | 3.09 | 0.29 | 0.00 | 11 |
| | H20BE003 | FA5i | AIR WINCH, MANUAL BRAKE, 24" DRUM, 10,000 LBS CAP, 65 FPM (ADD 700 CFM COMPRESSOR) | 25 CFM | Α | | \$45,051 | 9.65 | 2.37 | 4.00 | 0.37 | 0.00 | 19 |
| | H20BE004 | FA10i | AIR WINCH, AUTOMATIC BRAKE, 24" DRUM, 22,000 LBS CAP, 30 FPM (ADD 800 CFM COMPRESSOR) | 31 CFM | А | | \$65,484 | 14.00 | 3.45 | 5.82 | 0.54 | 0.00 | 32 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|-----|-----|-------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H25 | HYDRA | ULIC EXCA | VATORS, CRAWLER MOUNTED | | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | 0 LBS THRU 12,500 LBS (COMPACT E | XCA | VAT | ORS) | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | H25CA034 | 301.8 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 3,800 LBS, 0.04 CY BUCKET, 7.50' MAX DIGGING DEPTH | 18 | HP | D-off | | \$39,596 | 10.62 | 2.20 | 3.71 | 0.34 | 2.04 | 37 |
| | H25CA035 | 303 CR | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 7,500 LBS, 0.11 CY BUCKET, 9.08' MAX DIGGING DEPTH | 30 | HP | D-off | | \$46,352 | 13.62 | 2.58 | 4.35 | 0.40 | 3.40 | 76 |
| | H25CA036 | 305 CR | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 10,800 LBS, 0.17 CY BUCKET, 11.08' MAX DIGGING DEPTH | 47 | HP | D-off | | \$74,490 | 21.72 | 4.13 | 6.98 | 0.64 | 5.33 | 115 |
| | | Komatsu An | nerica International Company | | | | | | | | | | | |
| | H25KM018 | PC20MR-2 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 4,800 LBS, 0.05 CY BUCKET, 8'11" MAX DIGGING DEPTH | 20 | HP | D-off | | \$50,459 | 13.14 | 2.80 | 4.73 | 0.43 | 2.27 | 51 |
| | H25KM021 | PC40MR-2 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 10,000 LBS, 0.18 CY BUCKET, 12'9" MAX DIGGING DEPTH | 39 | HP | D-off | | \$67,956 | 19.31 | 3.78 | 6.37 | 0.59 | 4.42 | 106 |
| | H25KM022 | PC58UU-3 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 11,400 LBS, 0.29 CY BUCKET, 13'1" MAX DIGGING DEPTH | 40 | HP | D-off | | \$86,825 | 23.37 | 4.82 | 8.14 | 0.75 | 4.54 | 115 |
| | H25KM023 | PC78US-6 | HYDRAULIC EXCAVATOR, CRAWLER, 6,200 LBS, 0.37 CY BUCKET, 12'4" MAX DIGGING DEPTH | 54 | HP | D-off | | \$107,062 | 29.44 | 5.94 | 10.04 | 0.92 | 6.13 | 159 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | EI | _ | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|----|----|-------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | MELRO | DE COMPANY/BOBCAT | | | | | | | | | | | |
| | H25ME001 | 323 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 3,600 LBS, 0.04 CY BUCKET, 7'6" MAX DIGGING DEPTH | 13 | HP | D-off | | \$30,889 | 8.20 | 1.72 | 2.90 | 0.27 | 1.51 | 37 |
| | H25ME002 | 331 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 7,200 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH | 40 | HP | D-off | | \$44,318 | 14.53 | 2.46 | 4.15 | 0.38 | 4.54 | 72 |
| | H25ME003 | 337 | HYDRAULIC EXCAVATOR, CRAWLER- RUBBER TRACK, 11,000 LBS, 0.18 CY BUCKET, 12' MAX DIGGING DEPTH | 48 | HP | D-off | | \$61,604 | 19.19 | 3.42 | 5.78 | 0.53 | 5.45 | 110 |
| | SUBCATE | EGORY 0.11 | OVER 12,500 LBS THRU 40,000 LBS | | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | H25CA038 | 307D | HYDRAULIC EXCAVATOR, CRAWLER, 14,310 LBS, 0.48 CY BUCKET, 15.25' MAX DIGGING DEPTH | 54 | HP | D-off | | \$107,210 | 28.21 | 5.65 | 9.46 | 0.92 | 6.13 | 159 |
| | H25CA020 | 311-CU | HYDRAULIC EXCAVATOR, CRAWLER, 24,640 LBS, 0.60 CY BUCKET, 16.50' MAX DIGGING DEPTH | 79 | HP | D-off | | \$137,277 | 37.42 | 7.24 | 12.11 | 1.18 | 8.96 | 258 |
| | H25CA021 | 312-D L | HYDRAULIC EXCAVATOR, CRAWLER, 26,900 LBS, 0.68 CY BUCKET, 18.16' MAX DIGGING DEPTH | 84 | HP | D-off | | \$138,111 | 38.24 | 7.28 | 12.19 | 1.18 | 9.53 | 288 |
| | | ков | ELCO AMERICA INC. | | | | | | | | | | | |
| | H25KC027 | SK140SR LC | HYDRAULIC EXCAVATOR, CRAWLER, 33,100 LBS, 0.50 CY BUCKET, 17.83' MAX DIGGING DEPTH | 93 | HP | D-off | | \$163,839 | 44.46 | 8.63 | 14.46 | 1.40 | 10.53 | 331 |
| | H25KC017 | SK70SR | HYDRAULIC EXCAVATOR, CRAWLER, 16,400 LBS, 0.33 CY BUCKET, 14.75' MAX DIGGING DEPTH | 54 | HP | D-off | | \$100,527 | 26.89 | 5.30 | 8.87 | 0.86 | 6.13 | 168 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | INE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|--------|--------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | М | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | Komatsu An | nerica International Company | | | | | | | | | | |
| | H25KM027 | PC128UU-2 | HYDRAULIC EXCAVATOR, CRAWLER, 12,200 LBS, 0.58 CY BUCKET, 16' 0" MAX DIGGING DEPTH | 86 HP | D-off | | \$207,932 | 52.21 | 10.96 | 18.35 | 1.78 | 9.76 | 295 |
| | H25KM001 | PC 120-6 | HYDRAULIC EXCAVATOR, CRAWLER, 26,950 LBS, 0.75 CY BUCKET, 18.08' MAX DIGGING DEPTH | 89 HP | D-off | | \$147,170 | 40.69 | 7.76 | 12.99 | 1.26 | 10.10 | 265 |
| | H25KM003 | PC 160LC-7 | HYDRAULIC EXCAVATOR, CRAWLER, 39,400 LBS, 1.12 CY BUCKET, 19.58' MAX DIGGING DEPTH | 110 HP | D-off | | \$202,310 | 54.29 | 10.66 | 17.85 | 1.73 | 12.48 | 395 |
| | | LINK-BELT CO | INSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | H25LB003 | 130 2XLC | HYDRAULIC EXCAVATOR, CRAWLER, 27,100 LBS, 0.50 CY BUCKET, 18' 2" MAX DIGGING DEPTH | 95 HP | D-off | | \$165,861 | 45.15 | 8.74 | 14.63 | 1.42 | 10.78 | 271 |
| | H25LB005 | 160 X2 | HYDRAULIC EXCAVATOR, CRAWLER, 35,275 LBS, 0.66 CY BUCKET, 20' 1" MAX DIGGING DEPTH | 120 HP | D-off | | \$194,114 | 54.01 | 10.23 | 17.13 | 1.66 | 13.62 | 362 |
| | SUBCATI | EGORY 0.12 | OVER 40,000 LBS THRU 100,000 LBS | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | H25CA040 | 319CL | HYDRAULIC EXCAVATOR, CRAWLER, 40,600 LBS, 1.00 CY BUCKET, 22.50' MAX DIGGING DEPTH | 125 HP | D-off | | \$148,574 | 39.08 | 5.89 | 9.29 | 1.24 | 14.18 | 405 |
| | H25CA022 | 320D | HYDRAULIC EXCAVATOR, CRAWLER, 43,800 LBS, 1.50 CY BUCKET, 21.75' MAX DIGGING DEPTH | 128 HP | D-off | | \$222,187 | 50.61 | 8.81 | 13.89 | 1.86 | 14.52 | 444 |
| | H25CA023 | 320DL | HYDRAULIC EXCAVATOR, CRAWLER, 49,000 LBS, 0.80 CY BUCKET, 39.0' MAX DIGGING DEPTH, LONG REACH BOOM | 128 HP | D-off | | \$320,690 | 65.49 | 12.70 | 20.04 | 2.68 | 14.52 | 536 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | КОВ | ELCO AMERICA INC. | | | | | | | | | | |
| | H25KC028 | SK260 LC | HYDRAULIC EXCAVATOR, CRAWLER, 56,890 LBS, 1.31 CY BUCKET, 23' MAX DIGGING DEPTH | 176 HP | D-off | | \$245,961 | 60.57 | 9.74 | 15.37 | 2.05 | 19.97 | 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 | | \$328,845 | 73.11 | 13.03 | 20.55 | 2.75 | 19.97 | 568 |
| | H25KC030 | SK350LC | HYDRAULIC EXCAVATOR, CRAWLER, 80,900 LBS, 2.09 CY BUCKET, 27'7" MAX DIGGING DEPTH | 238 HP | D-off | | \$334,735 | 82.24 | 13.26 | 20.92 | 2.80 | 27.00 | 809 |
| | H25KC019 | SK210 LC | HYDRAULIC EXCAVATOR, CRAWLER, 48,000 LBS, 1.13 CY BUCKET, 22.00' MAX DIGGING DEPTH | 143 HP | D-off | | \$203,364 | 49.75 | 8.06 | 12.71 | 1.70 | 16.22 | 480 |
| | 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 | | \$265,377 | 59.13 | 10.52 | 16.59 | 2.22 | 16.22 | 534 |
| | SUBCAT | EGORY 0.13 | OVER 100,000 LBS THRU 160,000 LBS | | | | | | | | | | |
| | | КОВ | ELCO AMERICA INC. | | | | | | | | | | |
| | H25KC031 | SK485 LC | HYDRAULIC EXCAVATOR, CRAWLER, 111,774 LBS 2.75 CY BUCKET, 25.58' MAX DIGGING DEPTH | 345 HP | D-off | | \$465,353 | 101.94 | 14.73 | 21.81 | 3.82 | 39.14 | 1,117 |
| | | Komatsu Am | nerica International Company | | | | | | | | | | |
| | H25KM015 | PC 600 LC-8 | HYDRAULIC EXCAVATOR, CRAWLER, 133,160 LBS, 4.25 CY BUCKET, 27.83' MAX DIGGING DEPTH | 384 HP | D-off | | \$683,938 | 135.12 | 21.65 | 32.06 | 5.62 | 43.57 | 1,332 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | - I | REGION 1 | ENGINE HO AND FUE | | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|---|----------------------|---------|----------------|------------------|---------|-------|-----------------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | SUBCATE | GORY 0.14 | OVER 160,000 LBS | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | H25CA065 | 390D L | HYDRAULIC EXCAVATOR, CRAWLER, 190,016LB, 7.6CY BUCKET, 35.13' MAX DIGGING DEPTH | 523 HP D-off | | \$1,134,607 | 196.04 | 31.65 | 44.79 | 9.25 | 59.34 | 1,900 |
| | | Komatsu An | nerica International Company | | | | | | | | | |
| | H25KM009 | PC 800 LC-8 | HYDRAULIC EXCAVATOR, CRAWLER, 171,070 LBS, 4.05 CY BUCKET, 27.66' MAX DIGGING DEPTH | 454 HP D-off | | \$1,001,737 | 172.14 | 27.93 | 39.54 | 8.16 | 51.51 | 1,750 |
| | H25KM033 | PC1800-6 | HYDRAULIC EXCAVATOR, CRAWLER, 396,800 LBS, 15.70 CY BUCKET, 30'5" MAX DIGGING DEPTH | 908 HP D-off | | \$2,337,101 | 383.47 | 65.18 | 92.25 | 19.05 | 103.02 | 3,968 |
| | SUBCATE | GORY 0.21 | ATTACHMENTS, MOBILE SHEARS | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | H25CA055 | S305 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 9.4" JAW OPENING (ADD 10,000 LB HYDRAULIC EXCAVATOR) | | | \$21,616 | 7.67 | 1.71 | 3.06 | 0.18 | 0.00 | 15 |
| | H25CA057 | S320B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 15.4" JAW OPENING (ADD 20,000 LB HYDRAULIC EXCAVATOR) | | | \$86,421 | 29.89 | 6.84 | 12.24 | 0.72 | 0.00 | 57 |
| | H25CA066 | S325B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 28.0" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | \$109,859 | 36.99 | 8.70 | 15.56 | 0.92 | 0.00 | 84 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H25 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | H25CA067 | S340B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 32.0" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | \$129,697 | 43.67 | 10.28 | 18.37 | 1.09 | 0.00 | 191 |
| | | LABOUN | NTY MANUFACTURING, | | | | | | | | | |
| | H25LU001 | MSD 7 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 10" JAW OPENING (ADD 10,000 LB HYDRAULIC EXCAVATOR) | | | \$28,557 | 10.02 | 2.27 | 4.05 | 0.24 | 0.00 | 10 |
| | H25LU002 | MSD 7R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 10" JAW OPENING (ADD 14,000 LB HYDRAULIC EXCAVATOR) | | | \$32,215 | 11.34 | 2.55 | 4.56 | 0.27 | 0.00 | 11 |
| | H25LU003 | MSD 15 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 18" JAW OPENING (ADD 20,000 LB HYDRAULIC EXCAVATOR) | | | \$50,171 | 17.70 | 3.98 | 7.11 | 0.42 | 0.00 | 30 |
| | H25LU004 | MSD 15R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 18" JAW OPENING (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | \$58,327 | 20.54 | 4.62 | 8.26 | 0.49 | 0.00 | 35 |
| | H25LU005 | MSD 30 - III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 22" JAW OPENING (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | \$73,122 | 25.72 | 5.79 | 10.36 | 0.61 | 0.00 | 50 |
| | H25LU006 | MSD 30R - III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 22" JAW OPENING (ADD 35,000 LB HYDRAULIC EXCAVATOR) | | | \$102,462 | 36.01 | 8.12 | 14.52 | 0.86 | 0.00 | 67 |
| | H25LU007 | MSD 40-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 27" JAW OPENING (ADD 40,000 LB HYDRAULIC EXCAVATOR) | | | \$87,395 | 30.82 | 6.92 | 12.38 | 0.73 | 0.00 | 70 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------|--|----------------------|--------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H25 | | | LABOUNTY MANUFACTURING, (continued) | | | | | | | | | |
| | H25LU008 | MSD 40R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 27" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | \$114,313 | 40.09 | 9.06 | 16.19 | 0.96 | 0.00 | 90 |
| | H25LU009 | MSD 50-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 32" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | \$125,466 | 43.94 | 9.94 | 17.77 | 1.05 | 0.00 | 109 |
| | H25LU010 | MSD 50R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 32" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | \$150,738 | 52.75 | 11.94 | 21.35 | 1.26 | 0.00 | 140 |
| | H25LU011 | MSD 70-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 35" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | \$149,305 | 52.27 | 11.83 | 21.15 | 1.25 | 0.00 | 130 |
| | H25LU012 | MSD 70R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 35" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$182,816 | 64.06 | 14.48 | 25.90 | 1.53 | 0.00 | 164 |
| | H25LU013 | MSD 100-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 38" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$188,869 | 66.20 | 14.96 | 26.76 | 1.58 | 0.00 | 150 |
| | H25LU014 | MSD 100R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 38" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$219,824 | 77.01 | 17.41 | 31.14 | 1.84 | 0.00 | 180 |
| | SUBCAT | EGORY 0.22 | ATTACHMENTS, MATERIAL HANDLIN | ıg | | | | | | | | |
| | | В | ALDERSON, INC. | | | | | | | | | |
| | H25BS001 | B315-24 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 0.50 CY BUCKET, W/TIPS (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$7,224 | 2.22 | 0.54 | 0.96 | 0.06 | 0.00 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------|---|-----------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H25 | | | BALDERSON, INC. (continued) | | | | | | | | | |
| | H25BS002 | B3F-B-30 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 0.75 CY BUCKET, W/TIPS (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$7,340 | 2.26 | 0.55 | 0.98 | 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) | | | \$9,634 | 2.96 | 0.72 | 1.28 | 0.08 | 0.00 | 30 |
| | H25BS004 | B3F-C-42 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 1.50 CY BUCKET, W/TIPS (ADD 50,000-60,000 LB HYDRAULIC EXCAVATOR) | | | \$12,754 | 3.93 | 0.96 | 1.70 | 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) | | | \$17,283 | 5.32 | 1.30 | 2.30 | 0.15 | 0.00 | 52 |
| | | LABO | OUNTY MANUFACTURING, | | | | | | | | | |
| | H25LU023 | TW 100 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 1.25CY, 4- TINE/ 5-TINE (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | \$38,624 | 12.14 | 2.91 | 5.15 | 0.33 | 0.00 | 16 |
| | H25LU024 | TW 110 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 3.50CY, 4- TINE/ 5-TINE (ADD 35,000 LB HYDRAULIC EXCAVATOR) | | | \$19,820 | 6.40 | 1.49 | 2.64 | 0.17 | 0.00 | 28 |
| | H25LU025 | 120 TR | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 3.50CY, 4- TINE/ 5-TINE (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | \$24,294 | 7.88 | 1.83 | 3.24 | 0.21 | 0.00 | 35 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|---------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H25 | | | LABOUNTY MANUFACTURING, (continued) | | | | | | | | | |
| | H25LU026 | 140 TW | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 5.50CY, 4- TINE/ 5-TINE (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | \$27,645 | 9.01 | 2.09 | 3.69 | 0.24 | 0.00 | 48 |
| | H25LU027 | 160 TR | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 6.50CY, 4- TINE/ 5-TINE (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$30,938 | 10.13 | 2.34 | 4.13 | 0.27 | 0.00 | 58 |
| | H25LU028 | TW 170 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 9.00CY, 4- TINE/ 5-TINE (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | \$49,695 | 16.00 | 3.75 | 6.63 | 0.43 | 0.00 | 78 |
| | H25LU034 | RDG 60 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 1.75 CY (ADD 38,000-70,000 LB HYDRAULIC EXCAVATOR) | | | \$72,371 | 23.08 | 5.46 | 9.65 | 0.63 | 0.00 | 35 |
| | H25LU035 | RDG 90 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 1.25 CY (ADD 70,000-140,000 LB HYDRAULIC EXCAVATOR) | | | \$86,712 | 27.59 | 6.53 | 11.56 | 0.75 | 0.00 | 69 |
| | H25LU036 | RDG 120 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 2.00 CY (ADD 120,000-160,000 LB HYDRAULIC EXCAVATOR) | | | \$99,823 | 31.72 | 7.52 | 13.31 | 0.86 | 0.00 | 100 |
| | | | WAIN-ROY, INC. | | | | | | | | | |
| | H25WN001 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, BUCKET, 36" CONCRETE/PAVEMENT REMOVAL (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$8,138 | 2.51 | 0.62 | 1.09 | 0.07 | 0.00 | 16 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|-----------|--------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | SUBCAT | EGORY 0.23 | ATTACHMENTS, CONCRETE PULVER | RIZERS | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | H25CA068 | P215 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRUSHER, 16.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | \$50,862 | 18.19 | 4.04 | 7.21 | 0.43 | 0.00 | 46 |
| | H25CA069 | P225 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 30.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | \$61,337 | 21.92 | 4.86 | 8.69 | 0.51 | 0.00 | 53 |
| | H25CA070 | P235 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 34.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | \$86,117 | 30.77 | 6.82 | 12.20 | 0.72 | 0.00 | 87 |
| | | KENT | DEMOLITION TOOLS | | | | | | | | | |
| | H25KN001 | KF12 TLB | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 2,000 FT-LB, W/4.25" DIA. POINT (ADD 16,000-24,000 LB HYDRAULIC EXCAVATOR) | | | \$31,711 | 11.83 | 2.52 | 4.49 | 0.27 | 0.00 | 19 |
| | H25KN002 | KF19 QT | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 3,000 FT-LB, W/4.75" DIA. POINT (ADD 26,000-36,000 LB HYDRAULIC EXCAVATOR) | | | \$43,981 | 16.22 | 3.49 | 6.23 | 0.37 | 0.00 | 31 |
| | H25KN003 | KF22 QT | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 4,000 FT-LB, W/5.25" DIA. POINT (ADD 36,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$53,607 | 19.65 | 4.25 | 7.59 | 0.45 | 0.00 | 38 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|----------|--|----------------------|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H25 | | | KENT DEMOLITION TOOLS (continued) | | | | | | | | | |
| | H25KN004 | KF27 QT | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 5,000 FT-LB, W/5.51" DIA. POINT (ADD 50,000-64,000 LB HYDRAULIC EXCAVATOR) | | | \$61,636 | 22.53 | 4.89 | 8.73 | 0.52 | 0.00 | 43 |
| | H25KN006 | KF70 QT | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 10,000 FT-LB, W/7.09 " DIA. POINT (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | \$124,443 | 45.47 | 9.86 | 17.63 | 1.04 | 0.00 | 103 |
| | | LABO | DUNTY MANUFACTURING, | | | | | | | | | |
| | H25LU046 | CP 40 C | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 30" JAW OPENING (ADD 40,000 LB HYDRAULIC EXCAVATOR) | | | \$35,063 | 13.03 | 2.78 | 4.97 | 0.29 | 0.00 | 29 |
| | H25LU047 | CP 60 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 36" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | \$41,436 | 15.41 | 3.29 | 5.87 | 0.35 | 0.00 | 30 |
| | H25LU048 | CP 80 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 42" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$44,463 | 16.59 | 3.52 | 6.30 | 0.37 | 0.00 | 45 |
| | H25LU049 | CP 100 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 48" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | \$53,686 | 19.99 | 4.26 | 7.61 | 0.45 | 0.00 | 62 |
| | H25LU050 | CP 120 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 54" JAW OPENING (ADD 140,000 LB HYDRAULIC EXCAVATOR) | | | \$81,281 | 29.94 | 6.44 | 11.51 | 0.68 | 0.00 | 99 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|----------------------|--------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H25 | | | LABOUNTY MANUFACTURING, (continued) | | | | | | | | | |
| | H25LU040 | UP 45 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 45" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | \$151,527 | 54.91 | 12.01 | 21.47 | 1.27 | 0.00 | 105 |
| | H25LU041 | UP 75 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 49" JAW OPENING (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | \$185,809 | 67.15 | 14.72 | 26.32 | 1.56 | 0.00 | 127 |
| | H25LU042 | UP 90 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 62" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | \$224,156 | 81.62 | 17.76 | 31.76 | 1.88 | 0.00 | 171 |
| | H25LU053 | UP 45 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 36" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | \$159,444 | 57.74 | 12.64 | 22.59 | 1.34 | 0.00 | 105 |
| | H25LU054 | UP 75 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 40" JAW OPENING (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | \$196,260 | 70.89 | 15.55 | 27.80 | 1.65 | 0.00 | 126 |
| | SUBCAT | EGORY 0.24 | ATTACHMENTS, COMPACTORS | | | | | | | | | |
| | | ALLIED CO | ONSTRUCTION PRODUCTS | | | | | | | | | |
| | H25AU006 | 500B | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 13" X 27" PLATE, 3,940 LBS FORCE (ADD 7,000-15,000 LB HYDRAULIC EXCAVATOR) | | | \$6,075 | 2.17 | 0.48 | 0.86 | 0.05 | 0.00 | 5 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|----------|--|----------------------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H25 | | | ALLIED CONSTRUCTION PRODUCTS (continued) | | | | | | | | | |
| | H25AU007 | 1000B | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 24" X 32" PLATE, 8,000 LBS FORCE (ADD 9,000-30,000 LB HYDRAULIC EXCAVATOR) | | | \$7,188 | 2.57 | 0.57 | 1.02 | 0.06 | 0.00 | 11 |
| | H25AU008 | 1600 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 29" X 32" PLATE, 18,000 LBS FORCE (ADD 19,000-45,000 LB HYDRAULIC EXCAVATOR) | | | \$11,768 | 4.21 | 0.94 | 1.67 | 0.10 | 0.00 | 16 |
| | H25AU009 | 2300 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 34" X 36" PLATE, 24,000 LBS FORCE (ADD 35,000-120,000 LB HYDRAULIC EXCAVATOR) | | | \$16,867 | 6.03 | 1.34 | 2.39 | 0.14 | 0.00 | 22 |
| | H25AU010 | 4000 | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 50" X 42" PLATE, 40,000 LBS FORCE (ADD 70,000-120,000 LB HYDRAULIC EXCAVATOR) | | | \$18,710 | 6.69 | 1.49 | 2.65 | 0.16 | 0.00 | 40 |
| | | 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) | | | \$8,441 | 3.02 | 0.67 | 1.20 | 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) | | | \$10,487 | 3.75 | 0.84 | 1.49 | 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) | | | \$12,395 | 4.43 | 0.98 | 1.76 | 0.10 | 0.00 | 39 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------------|--|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| H25 | | | AMERICAN COMPACTION EQUIPMENT, INC. (continued) | | | | | | | | | |
| | H25AX002 | DC-36BL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 35" WIDE, SHEEPS FOOT, 4 RIMS - 38" DIA (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | \$9,591 | 3.43 | 0.76 | 1.36 | 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) | | | \$12,273 | 4.38 | 0.97 | 1.74 | 0.10 | 0.00 | 43 |
| | H25AX006 | DC-36EXL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 36" WIDE, SHEEPS FOOT, 4 RIMS - 48" DIA (ADD 75,000-110,000 LB HYDRAULIC EXCAVATOR) | | | \$15,652 | 5.60 | 1.24 | 2.22 | 0.13 | 0.00 | 53 |
| | | KENT | DEMOLITION TOOLS | | | | | | | | | |
| | H25KN007 | KHP-35 ME-S | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 12" X 26" PLATE, 3000 LB FORCE (ADD 14,000-25,000 LB HYDRAULIC EXCAVATOR) | | | \$6,385 | 2.42 | 0.50 | 0.90 | 0.05 | 0.00 | 4 |
| | H25KN009 | KHP-135FT - II | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 28" X 40" PLATE, 13500 LB FORCE (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | \$13,264 | 4.89 | 1.05 | 1.88 | 0.11 | 0.00 | 14 |
| | H25KN010 | KHP-210FT - II | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 34" X 46" PLATE, 21000 LB FORCE (ADD 40,000-75,000 LB HYDRAULIC EXCAVATOR) | | | \$18,301 | 6.68 | 1.45 | 2.59 | 0.15 | 0.00 | 23 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------------|---|--------------|---------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | | WAIN-ROY, INC. | | | | | | | | | |
| | H25WN002 | 24-3 (15-22.5 TON) | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 24" WIDE, SHEEPSFOOT, 3 RIMS - 33" DIA (ADD 15-22.5 TON HYDRAULIC EXCAVATOR) | | | \$8,676 | 3.10 | 0.69 | 1.23 | 0.07 | 0.00 | 22 |
| | H25WN003 | 36-4 (15-22.5 TON) | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 36" WIDE, SHEEPSFOOT, 4 RIMS - 33" DIA (ADD 15-22.5 TON HYDRAULIC EXCAVATOR) | | | \$9,522 | 3.40 | 0.76 | 1.35 | 0.08 | 0.00 | 26 |
| | H25WN004 | 24-3 (22.5-30 TON) | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 24" WIDE, SHEEPSFOOT, 3 RIMS - 39" DIA (ADD 22.5-30 TON HYDRAULIC EXCAVATOR) | | | \$10,419 | 3.73 | 0.83 | 1.48 | 0.09 | 0.00 | 31 |
| | H25WN005 | 36-4 (22.5-30 TON) | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 36" WIDE, SHEEPSFOOT, 4 RIMS - 39" DIA (ADD 22.5-30 TON HYDRAULIC EXCAVATOR) | | | \$11,839 | 4.23 | 0.94 | 1.68 | 0.10 | 0.00 | 38 |
| H30 | HYDRA | ULIC EXCA | VATORS, WHEEL MOUNTED | | | | | | | | | |
| | SUBCATI | EGORY 0.01 | 0 THRU 1.0 CY | | | | | | | | | |
| | | CATERPILL | AR INC. (MACHINE DIVISION) | | | | | | | | • | |
| | H30CA005 | M318D | HYDRAULIC EXCAVATORS, WHEEL, 33,700 LBS, 1.00 CY BUCKET, 1-PIECE BOOM, 19' DIGGING DEPTH, 4X4 | 151 HP D-off | | \$210,415 | 57.22 | 11.25 | 18.87 | 1.81 | 16.03 | 393 |
| | H30CA007 | M315D | HYDRAULIC EXCAVATORS, WHEEL, 35,100 LBS, 0.70 CY BUCKET, 1-PIECE BOOM, 17' 7" DIGGING DEPTH, 4X4X2 | 121 HP D-off | | \$178,066 | 47.91 | 9.39 | 15.71 | 1.53 | 12.84 | 352 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|----------|-------|--------------------|----------------|---------|---------|--------|------------------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | GF | RADALL COMPANY | | | | | | | | | | |
| | H30GA006 | XL4100 III | HYDRAULIC EXCAVATORS, WHEEL, 44,851 LBS, 0.75 CY BUCKET, TELESCOPIC BOOM, 22' 6" DIGGING DEPTH, 6X4 | 233 HP | D-off | D-on | \$306,149 | 84.04 | 16.58 | 27.88 | 2.64 | 24.73 | 475 |
| | H30GA007 | XL 3300 III | HYDRAULIC EXCAVATORS, WHEEL, 15,270 LBS, 0.68 CY BUCKET, TELESCOPIC BOOM, 4X4X2 | 138 HP | D-off | | \$229,800 | 58.40 | 12.50 | 21.03 | 1.98 | 14.65 | 393 |
| | SUBCATE | EGORY 0.02 | OVER 1.0 CY | | | | | | | | | | |
| | | GF | RADALL COMPANY | | | | | | | | | | |
| | H30GA008 | XL 5100 III | HYDRAULIC EXCAVATORS, WHEEL, 22,800 LBS, 1.25 CY BUCKET, TELESCOPIC BOOM, 25' 4" DIGGING DEPTH, 6X4 | 163 HP | D-off | 230 HP D-on | \$343,112 | 85.28 | 15.05 | 24.29 | 2.90 | 22.12 | 550 |
| | | Komatsu An | nerica International Company | | | | | | | | | | |
| | H30KM001 | PW170ES-6 | HYDRAULIC EXCAVATORS, WHEEL, 37,600 LBS, 1.12 CY BUCKET, 1-PIECE BOOM, 18' 8" DIGGING DEPTH, 4X4 | 123 HP | D-off | | \$257,704 | 56.25 | 11.62 | 18.87 | 2.18 | 13.06 | 376 |
| H35 | HYDRA | ULIC SHOV | ELS, CRAWLER MOUNTED | | | | | | | | | | |
| | SUBCATI | EGORY 0.12 | DIESEL, OVER 5.0 CY | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | H35CA001 | 6015 | HYDRAULIC SHOVEL, CRAWLER, 9.20 CY BUCKET, BACKHOE, 23' 11" DIGGING DEPTH | 665 HP | D-off | | \$1,133,419 | 247.96 | 37.32 | 56.67 | 8.98 | 75.45 | 2,277 |
| | H35CA003 | 6018 | HYDRAULIC SHOVEL, CRAWLER, 13.10 CY BUCKET, BACKHOE, 27' 11" DIGGING DEPTH | 1,104 HP | D-off | | \$2,246,958 | 465.84 | 73.99 | 112.35 | 17.81 | 125.26 | 3,981 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|------------|-------|--------------------|----------------|----------|---------|--------|------------------|--------|--------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | 1 | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| H35 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | H35CA004 | 6030 | HYDRAULIC SHOVEL, CRAWLER, 20.10 CY BUCKET, FRONT SHOVEL, 8' 2" DIGGING DEPTH | 1,530 HP I | D-off | | \$3,736,457 | 737.88 | 123.02 | 186.82 | 29.61 | 173.59 | 6,477 |
| | H35CA005 | 6050 | HYDRAULIC SHOVEL, CRAWLER, 34.00 CY BUCKET, BACKHOE, 30' 6" DIGGING DEPTH | 2,520 HP I | D-off | | \$7,340,096 | 1,391.22 | 241.67 | 367.00 | 58.17 | 285.92 | 11,838 |
| | | НІТАСНІ СО | DNSTRUCTION MACHINERY | | | | | | | | | | |
| | H35HI006 | EX1200-5 | HYDRAULIC SHOVEL, CRAWLER, 8.5 CY BUCKET, FRONT SHOVEL, 17' 3" DIGGING DEPTH | 641 HP I | D-off | | \$1,679,563 | 326.08 | 55.30 | 83.98 | 13.31 | 72.73 | 2,447 |
| L10 | LAND C | LEARING E | QUIPMENT | | | | | | | | | | |
| | | | LAND CLEARING EQUIPMENT | | | | | | | | | | |
| | | Е | BALDERSON, INC. | | | | | | | | | | |
| | L10BS004 | BBL7 | LAND CLEARING EQUIPMENT, ROCK & ROOT RAKE, 12.0' WIDE, 9 TEETH (ADD 200 - 250 HP TRACTOR DOZER) | | | | \$28,366 | 5.98 | 1.37 | 2.27 | 0.23 | 0.00 | 24 |
| | L10BS005 | BRK8 | LAND CLEARING EQUIPMENT, ROCK & ROOT RAKE 12.5' WIDE, 9 TEETH (ADD D8 TRACTOR DOZER 275 - 325 HP) | | | | \$41,803 | 8.74 | 2.01 | 3.34 | 0.34 | 0.00 | 72 |
| | L10BS002 | BMA8 | LAND CLEARING EQUIPMENT, MULTI- APPLICATION RAKE, 12.5' WIDE, 9 TEETH (ADD D8 TRACTOR DOZER 275 - 325 HP) | | | | \$41,725 | 8.73 | 2.01 | 3.34 | 0.34 | 0.00 | 68 |
| | L10BS007 | BLF988DTC | LAND CLEARING EQUIPMENT, LOGGING FORK, 92" TINES (ADD 400 - 450 HP FE LOADER) | | | | \$30,220 | 6.61 | 1.46 | 2.42 | 0.25 | 0.00 | 90 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|-------|-----|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | М | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | | BUSH HOG | | | | | | | | | | |
| | L10BU005 | SM-60 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 5' WIDE-SIDE MTD (ADD FARM 50 HP TRACTOR) | | | | \$10,238 | 3.17 | 0.49 | 0.82 | 0.08 | 0.00 | 17 |
| | L10BU010 | 287 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 7' WIDE, 1.5 - 12" HEIGHT (ADD FARM 40 HP TRACTOR) | | | | \$4,194 | 1.65 | 0.20 | 0.34 | 0.03 | 0.00 | 11 |
| | L10BU011 | 3210 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 10.5' WIDE, 2 - 14" HEIGHT (ADD FARM 70 HP TRACTOR) | | | | \$8,576 | 3.24 | 0.42 | 0.69 | 0.07 | 0.00 | 25 |
| | L10BU012 | 3715 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 15' WIDE, 2 - 14" HEIGHT (ADD FARM 80 HP TRACTOR) | | | | \$17,569 | 5.55 | 0.85 | 1.41 | 0.14 | 0.00 | 50 |
| | L10BU013 | 2720 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 20' WIDE, 2 - 14" HEIGHT (ADD FARM 90 HP TRACTOR) | | | | \$21,267 | 6.79 | 1.02 | 1.70 | 0.17 | 0.00 | 56 |
| | | | ROME PLOW CO. | | | | | | | | | | |
| | L10RM001 | RV8N | LAND CLEARING EQUIPMENT, V-TREE CUTTER (ADD 275 - 325 HP TRACTOR DOZER) | | | | \$56,233 | 11.76 | 2.71 | 4.50 | 0.46 | 0.00 | 134 |
| | L10RM002 | MA-152R-8S | LAND CLEARING EQUIPMENT, MULTI- APPLICATION RAKE, 12' 8" WIDE, 9 TEETH (ADD 275 - 325 HP TRACTOR DOZER) | | | | \$50,741 | 10.25 | 2.44 | 4.06 | 0.41 | 0.00 | 150 |
| | | VERME | ER MANUFACTURING CO. | | | | | | | | | | |
| | L10VE010 | SC 252 | LAND CLEARING EQUIPMENT, STUMPER, 16" DIA WHEEL, TRAILER MTD | 27 HF | G | | \$14,043 | 9.14 | 0.66 | 1.10 | 0.11 | 5.50 | 11 |
| | L10VE002 | SC 352 | LAND CLEARING EQUIPMENT, STUMPER, 18" DIA WHEEL, TRAILER MTD | 35 HF | G | | \$25,696 | 13.36 | 1.21 | 2.00 | 0.21 | 7.13 | 22 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|---------------|--|----|----|-------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| L10 | | | VERMEER MANUFACTURING CO. (continued) | | | | | | | | | | | |
| | L10VE009 | SC 802 | LAND CLEARING EQUIPMENT, STUMPER, 28" DIA WHEEL, TRAILER MTD | 78 | HP | D-off | | \$40,329 | 17.49 | 1.92 | 3.18 | 0.33 | 8.28 | 40 |
| | L10VE005 | TS-30 | LAND CLEARING EQUIPMENT, TREE SPADE, 30" DIA, 26" DEPTH, TRAILER MTD | 13 | HP | G | | \$13,699 | 5.82 | 0.64 | 1.05 | 0.11 | 2.65 | 38 |
| | L10VE006 | TS-44A | LAND CLEARING EQUIPMENT, TREE SPADE, 44" DIA, 40" DEPTH, TRAILER MTD | 20 | HP | G | | \$35,801 | 11.91 | 1.70 | 2.82 | 0.29 | 4.07 | 66 |
| | L10VE007 | TS-50 | LAND CLEARING EQUIPMENT, TREE SPADE, 50" DIA, 48" DEPTH (ADD 13,800 GVW TRUCK) | | | | | \$30,827 | 7.73 | 1.49 | 2.47 | 0.25 | 0.00 | 81 |
| L15 | LANDS | CAPING EQI | JIPMENT | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | LANDSCAPING EQUIPMENT | | | | | | | | | | | |
| | | BOW | IE INDUSTRIES, INC. | | | | | | | | | | | |
| | L15BW001 | LANCER 500 | LANDSCAPING EQUIPMENT, 500 GAL, HYDROMULCHER, TRAILER MTD | 25 | HP | G | | \$21,002 | 16.73 | 2.37 | 4.35 | 0.19 | 6.79 | 25 |
| | L15BW002 | VICTOR 800 | LANDSCAPING EQUIPMENT, 800 GAL, HYDROMULCHER, TRAILER MTD | 35 | HP | G | | \$38,563 | 27.39 | 4.33 | 7.96 | 0.35 | 9.50 | 48 |
| | L15BW003 | VICTOR 1100 | LANDSCAPING EQUIPMENT, 1,100 GAL, HYDROMULCHER, GOOSENECK TRAILER MTD | 50 | HP | G | | \$44,338 | 34.48 | 5.00 | 9.19 | 0.40 | 13.57 | 60 |
| | L15BW004 | IMPERIAL 3000 | LANDSCAPING EQUIPMENT, 3,000 GAL, HYDROMULCHER, TRUCK MTD (ADD 55,000 GVW TRUCK) | 90 | HP | D-off | | \$64,621 | 42.36 | 7.45 | 13.73 | 0.58 | 12.52 | 88 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------------------|---|-----|----|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | FIN | IN CORPORATION | | | | | | | | | | | |
| | L15FG001 | T330 | LANDSCAPING EQUIPMENT, 3,000 GAL, HYDROSEEDER, TRUCK MTD (ADD 56,000 GVW TRUCK) | 115 | HP | D-off | 310 HP D-off | \$71,124 | 56.71 | 8.20 | 15.11 | 0.64 | 22.80 | 96 |
| | L15FG002 | B260T | LANDSCAPING EQUIPMENT, MULCHER, STRAW BLOWER, 20 TONS PER HOUR, TRAILER MOUNTED | 115 | HP | D-off | | \$47,727 | 38.74 | 5.43 | 10.00 | 0.43 | 15.99 | 48 |
| | | HUSQVARN | IA FOREST & GARDEN CO. | | | | | | | | | | | |
| | L15HV001 | DRT900 | LANDSCAPING EQUIPMENT, ROTOTILLER, 17" WIDTH BY 6.5" DEPTH | 5 | HP | G | | \$823 | 1.88 | 0.10 | 0.17 | 0.01 | 1.36 | 2 |
| | L15HV002 | CRT1350LS | LANDSCAPING EQUIPMENT, ROTOTILLER, 21" WIDTH BY 7" DEPTH | 10 | HP | G | | \$1,259 | 3.58 | 0.15 | 0.27 | 0.01 | 2.71 | 3 |
| | | Н | HOFFCO-COMET | | | | | | | | | | | |
| | L15HZ001 | PH980E | POST HOLE DRILL, UP TO 8" DIA, 30" DEEP, ONE MAN OPERATION | 3 | HP | G | | \$894 | 1.29 | 0.11 | 0.19 | 0.01 | 0.81 | 1 |
| | | DE | ERE & COMPANY | | | | | | | | | | | |
| | L15JD005 | MX5 | LANDSCAPING EQUIPMENT, ROTARY MOWER, 60" WIDE, MEDIUM DUTY, PTO DRIVE (ADD 45 - 100 HP AGRICULTURAL TRACTOR) | | | | | \$2,608 | 1.14 | 0.30 | 0.55 | 0.02 | 0.00 | 8 |
| | | | TORO | | | | | | | | | | | |
| | L15TO001 | 22188 - PRO- LINE 21" | LANDSCAPING EQUIPMENT, LAWNMOWER, 21" DECK, REAR BAGGER, PUSH MOWER | 6 | HP | G | | \$1,453 | 2.46 | 0.17 | 0.31 | 0.01 | 1.63 | 1 |
| | L15TO002 | 30092 MID-SIZE | LANDSCAPING EQUIPMENT, LAWNMOWER, 32" DECK, SIDE DISCHARGE, WALK BEHIND MOWER | 15 | HP | G | | \$4,426 | 6.54 | 0.47 | 0.85 | 0.04 | 4.07 | 6 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | E | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|----------------------|--|----|----|-------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| L15 | | | TORO (continued) | | | | | | | | | | | |
| | L15TO003 | 74448 | LANDSCAPING EQUIPMENT, LAWNMOWER, 48" DECK, SIDE DISCHARGE, RIDING MOWER | 21 | HP | G | | \$8,512 | 10.15 | 0.94 | 1.71 | 0.08 | 5.70 | 12 |
| | L15TO004 | 74449 | LANDSCAPING EQUIPMENT, LAWNMOWER, 52" DECK W/Z100 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 21 | HP | G | | \$9,083 | 10.40 | 1.01 | 1.85 | 0.08 | 5.70 | 13 |
| | L15TO006 | 74253 | LANDSCAPING EQUIPMENT, LAWNMOWER, 60" DECK W/Z500 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 29 | HP | G | | \$16,772 | 16.26 | 1.86 | 3.41 | 0.15 | 7.87 | 15 |
| | L15TO007 | 74254 | LANDSCAPING EQUIPMENT, LAWNMOWER, 72" DECK, W/Z500 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 29 | HP | G | | \$17,307 | 16.50 | 1.92 | 3.52 | 0.16 | 7.87 | 17 |
| | L15TO009 | POWER MAX 8260E | LANDSCAPING EQUIPMENT, SNOWBLOWER, 26" PATH, 45' THROW | 8 | HP | G | | \$1,334 | 3.00 | 0.15 | 0.28 | 0.01 | 2.17 | 2 |
| | L15TO010 | POWER MAX 11280XE | LANDSCAPING EQUIPMENT, SNOWBLOWER, 28" PATH, 45' THROW | 10 | HP | G | | \$2,051 | 3.94 | 0.24 | 0.44 | 0.02 | 2.71 | 3 |
| | | WILLMAR | R EQUIPMENT COMPANY | | | | | | | | | | | |
| | L15WI001 | S-200 | LANDSCAPING EQUIPMENT, SPREADER, 70 CF DRY CHEMICAL (ADD 55 HP FARM TRACTOR) | | | | | \$9,149 | 3.99 | 1.00 | 1.83 | 0.08 | 0.00 | 15 |
| L20 | LIGHTI | NG SETS, TR | AILER MOUNTED | | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | METALLIC VAPOR | | | | | | | | | | | |
| | | ALLM | AND BROTHERS INC. | | | | | | | | | | | |
| | L20AB017 | MAXI-LITE 7.5/8 | LITE SET, TRAILER MTD., 4/1250W, W/7.5 KW GEN, ELECTRIC MAST WINCH | 13 | HP | D-off | | \$14,897 | 7.31 | 0.85 | 1.46 | 0.12 | 2.01 | 21 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | | | RSEPOWER | VALUE | TOTAL H | | | JUSTAB | | |
|-----|----------|------------------------|---|-------|------|-------|-------------------------|--------------------|------------------|------|-------|--------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | | L TYPE CARRIER | (TEV) 2011 (\$) | RATES AVERAGE | ì | | FCCM | FUEL | смт |
| L20 | | | ALLMAND BROTHERS INC. (continued) | | | | 97 II 11 11 21 1 | ==== (+) | 7.7.2.0.102 | | | | | |
| | L20AB018 | MAXI-LITE 7.5/8 CSA | LITE SET, TRAILER MTD., 4/1,000W, W/8 KW GEN, ELECTRIC MAST WINCH | 14 F | HP D |)-off | | \$16,586 | 8.04 | 0.95 | 1.62 | 0.14 | 2.15 | 21 |
| | L20AB019 | MAXI-LITE 7.5/8 CSA | LITE SET, TRAILER MTD., 6/1,000W, W/8 KW GEN, ELECTRIC MAST WINCH | 14 ⊦ | HP D |)-off | | \$19,437 | 9.02 | 1.12 | 1.91 | 0.16 | 2.15 | 21 |
| | L20AB020 | NIGHT-LITE PRO | LITE SET, TRAILER MTD., 4/1,000W, W/6 KW GEN, MANUAL MAST WINCH | 12 F | HP D |)-off | | \$12,571 | 6.20 | 0.71 | 1.22 | 0.10 | 1.73 | 20 |
| | L20AB021 | NIGHT-LITE PRO CSA | LITE SET, TRAILER MTD., 4/1,000W, W/8 KW GEN, MANUAL MAST WINCH | 14 ⊦ | HP D |)-off | | \$13,281 | 6.91 | 0.76 | 1.29 | 0.11 | 2.15 | 20 |
| | L20AB022 | NIGHT-LITE PR0 V | LITE SET, TRAILER MTD., 4/1,000W, W/7.5 KW GEN, ELECTRIC MAST WINCH | 13 F | HP D |)-off | | \$14,980 | 7.34 | 0.86 | 1.46 | 0.13 | 2.01 | 21 |
| | L20AB023 | ECLIPSE 2220/SE ALT | LITE SET, TRAILER MTD., 15 LED LAMP, FLASHING ARROW, W/TWO 8D BATTERIES AND 50W SOLAR ARRAY | | | | | \$6,166 | 2.09 | 0.35 | 0.59 | 0.05 | 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 | | | | | \$6,601 | 2.25 | 0.38 | 0.64 | 0.06 | 0.00 | 12 |
| L25 | LINE ST | TRIPING EQU | IIPMENT | | | | | | | • | | | | |
| LZJ | | | LINE STRIPING EQUIPMENT | | | | | | | | | | | |
| | | JCI | L EQUIPMENT CO. | | | | | | | | | | | |
| | L25JE002 | | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3 GUNS, TRUCK MOUNTED (17,590 LB GVW), TWO COLORS | 190 H | HP D |)-off | | \$155,856 | 77.84 | 8.99 | 15.38 | 1.30 | 28.51 | 116 |
| | L25JE003 | HRL-1 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 1 GUNS SELF PROPELLED, SINGLE COLOR | 6 F | IP | G | | \$3,788 | 2.91 | 0.22 | 0.38 | 0.03 | 1.60 | 9 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------------|--|-----|-----|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | М-В | COMPANIES, INC. | | | | | | | | | | | |
| | L25MB002 | 5-10 | LINE STRIPING EQUIPMENT, STRIPER, 1 GUN, WALK-BEHIND, SINGLE COLOR | 5 | HP | G | | \$6,787 | 4.64 | 0.32 | 0.51 | 0.06 | 1.45 | 6 |
| | L25MB005 | 5-12A | LINE STRIPING EQUIPMENT, STRIPER, 2 GUNS, WALK BEHIND, SINGLE COLOR | 10 | HP | G | | \$12,366 | 7.90 | 0.64 | 1.07 | 0.10 | 2.90 | 6 |
| | L25MB007 | 220 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3-4 GUNS, SELF PROPELLED, THREE COLORS | 23 | HP | G | | \$57,601 | 25.45 | 3.36 | 5.76 | 0.48 | 6.68 | 30 |
| | L25MB006 | 245 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3 GUNS, SELF PROPELLED, TWO COLORS | 60 | HP | G | | \$102,614 | 50.98 | 5.99 | 10.26 | 0.86 | 17.42 | 48 |
| | L25MB004 | VANMARK 360 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3-4 GUNS, W/11,000 LBS GVW TRUCK, TWO COLORS | 190 | HP | G | | \$168,941 | 112.96 | 9.76 | 16.69 | 1.41 | 55.16 | 133 |
| | L25MB008 | 360 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3-4 GUNS, THERMAL 120 GAL, TRUCK MTD, TWO COLORS | 190 | HP | D-off | | \$184,592 | 87.89 | 10.46 | 17.84 | 1.54 | 28.51 | 80 |
| L30 | LOADE | RS, BELT (C | onveyor belts) & ACCESSORIES | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | LOADERS, BELT (Conveyor belts) & AC | CES | SOR | IES | | | | | | | | |
| | | ŀ | HEWITT-ROBINS | | | | | | | | | | | |
| | L30HW015 | V-11 6X16FT, TD | LOADER, CONVEYOR BELT & ACCESSORIES, SCREENING PLANT, W/6' X 16' VIBRATORY SLOPE TRIPLE DECK SCREENS/36"X 16.5' UNDER SCREEN CONVEYOR/ 7 CY HOPPER/ & FEEDER | 25 | HP | E | | \$156,661 | 36.92 | 7.31 | 12.06 | 1.28 | 2.15 | 138 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|----------------------------|--|----|----|-------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | KOLI | BERG - PIONEER, INC | | | | | | | | | | | |
| | L30KB001 | 11-2450 | LOADER, CONVEYOR BELT & ACCESSORIES, COVEYOR 50', MOBILE, CONCRETE & AGGREGATE, 24" WIDE | 15 | HP | E | | \$37,252 | 9.99 | 1.71 | 2.82 | 0.30 | 1.29 | 57 |
| | L30KB002 | 11-2460 | LOADER, CONVEYOR BELT & ACCESSORIES, CONVEYOR, 60', MOBILE, CONCRETE & AGGREGATE, 24" WIDE | 15 | HP | E | | \$39,240 | 10.42 | 1.81 | 2.98 | 0.32 | 1.29 | 62 |
| | | N | METSO MINERALS | | | | | | | | | | | |
| | L30RA001 | CV50D | LOADER, CONVEYOR BELT & ACCESSORIES, GRIZZLY SINGLE SCREEN, 40 CY/HR TRAILER MTD | 25 | HP | D-off | | \$80,497 | 20.43 | 3.80 | 6.27 | 0.66 | 2.84 | 130 |
| | s | SUPERIOR IND | USTRIES, AN ASTEC COMPANY | | | | | | | | | | | |
| | L30S4001 | 36"X35' FEED CONVEY | LOADER, CONVEYOR BELT & ACCESSORIES, BELT FEEDER | 15 | HP | E | | \$25,193 | 7.36 | 1.22 | 2.02 | 0.21 | 1.29 | 33 |
| | L30S4002 | RUN-ON HYDRAULIC LEG | LOADER, CONVEYOR BELT & ACCESSORIES, 4 HYDRAULIC JACK LEGS | | | | | \$21,649 | 4.60 | 1.05 | 1.73 | 0.18 | 0.00 | 28 |
| | L30S4005 | HOPPER SKIRTING | HOPPER SKIRTING DITCH AND CENTER LINE SIDES | • | | | | \$1,845 | 0.40 | 0.10 | 0.15 | 0.02 | 0.00 | 9 |
| | L30S4006 | FRAME SKIRTING | FRAME SKIRTING DITCH AND CENTER LINE SIDES | | | | | \$2,089 | 0.45 | 0.11 | 0.17 | 0.02 | 0.00 | 9 |
| | | | TELSMITH INC. | | | | | | | | | | | |
| | L30TS001 | PTC 24IN X 50FT | LOADER, CONVEYOR BELT & ACCESSORIES, CONVEYOR, TRUSS FRAME, 24"W X 50'L, WHEEL MTD, 300 TPH | 12 | HP | E | | \$41,925 | 10.74 | 1.86 | 3.03 | 0.34 | 1.03 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | ORSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|--------------|----------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| L35 | LOADE | RS, FRONT | END, CRAWLER TYPE | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | LOADERS, FRONT END, CRAWLER TY | PE | | | | | | | | |
| | | CATERPILL | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | L35CA013 | 939-C | LOADER, FRONT END, CRAWLER, 1.50 CY BUCKET | 90 HP D-off | | \$135,226 | 43.25 | 6.52 | 10.82 | 1.11 | 11.20 | 209 |
| | L35CA005 | 953-D | LOADER, FRONT END, CRAWLER, 2.25 CY BUCKET | 148 HP D-of | | \$222,304 | 71.10 | 10.71 | 17.78 | 1.82 | 18.42 | 334 |
| | L35CA014 | 963-D | LOADER, FRONT END, CRAWLER, 3.20 CY BUCKET | 160 HP D-off | | \$303,399 | 91.20 | 14.62 | 24.27 | 2.48 | 19.91 | 433 |
| | L35CA007 | 973-C | LOADER, FRONT END, CRAWLER, 3.70 CY BUCKET | 242 HP D-off | | \$419,126 | 128.91 | 20.20 | 33.53 | 3.43 | 30.11 | 581 |
| | | Komatsu An | nerica International Company | | | | | | | | | |
| | L35KM006 | D75S-5 | LOADER, FRONT END, CRAWLER, 3.30 CY BUCKET | 200 HP D-off | | \$492,615 | 139.79 | 23.74 | 39.41 | 4.03 | 24.89 | 485 |
| L40 | LOADE | RS, FRONT | END, WHEEL TYPE | | | | | | | | | |
| | SUBCAT | EGORY 0.11 | ARTICULATED, 0 THRU 225 HP | | | | | | | | | |
| | | CATERPILL | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | L40CA032 | 904B | LOADER, FRONT END, WHEEL, 0.80 CY BUCKET, ARTICULATED, 4X4 | 52 HP D-off | | \$50,947 | 16.56 | 2.35 | 3.83 | 0.43 | 5.90 | 98 |
| | L40CA033 | 906 | LOADER, FRONT END, WHEEL, 1.00 CY BUCKET, ARTICULATED, 4X4 | 68 HP D-of | | \$66,877 | 21.58 | 3.13 | 5.12 | 0.57 | 7.72 | 109 |
| | L40CA034 | 908 | LOADER, FRONT END, WHEEL, 1.30 CY BUCKET, ARTICULATED, 4X4 | 76 HP D-of | | \$78,254 | 29.13 | 3.36 | 5.37 | 0.67 | 8.62 | 133 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|---------|---|----------------------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| L40 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | L40CA019 | 914G | LOADER, FRONT END, WHEEL, 1.70 CY BUCKET, ARTICULATED, 4X4 | 95 HP D-off | | \$109,655 | 33.84 | 5.18 | 8.50 | 0.93 | 10.78 | 175 |
| | L40CA022 | 924Hz | LOADER, FRONT END, WHEEL, 2.20 CY BUCKET, ARTICULATED, 4X4 | 128 HP D-off | | \$152,197 | 45.94 | 7.27 | 11.95 | 1.29 | 14.52 | 242 |
| | L40CA015 | 928Hz | LOADER, FRONT END, WHEEL, 2.60 CY BUCKET, ARTICULATED, 4X4 | 149 HP D-off | | \$150,914 | 48.40 | 7.21 | 11.85 | 1.28 | 16.91 | 276 |
| | L40CA023 | 938H | LOADER, FRONT END, WHEEL, 3.65 CY BUCKET, ARTICULATED, 4X4 | 180 HP D-off | | \$185,766 | 59.57 | 8.81 | 14.46 | 1.58 | 20.42 | 332 |
| | L40CA024 | 950H | LOADER, FRONT END, WHEEL, 3.50 CY BUCKET, ARTICULATED, 4X4 | 197 HP D-off | | \$234,122 | 74.83 | 10.60 | 17.21 | 1.99 | 22.35 | 404 |
| | L40CA025 | 962H | LOADER, FRONT END, WHEEL, 4.00 CY BUCKET, ARTICULATED, 4X4 | 211 HP D-off | | \$248,567 | 79.31 | 11.30 | 18.38 | 2.11 | 23.94 | 427 |
| | | | CASE CORPORATION | | | | | | | | | |
| | L40CS009 | 621D | LOADER, FRONT END, WHEEL, 2.5 CY BUCKET, ARTICULATED, 4X4 | 136 HP D-off | | \$170,181 | 51.66 | 7.97 | 13.03 | 1.45 | 15.43 | 261 |
| | L40CS010 | 721D | LOADER, FRONT END, WHEEL, 3.0 CY BUCKET, ARTICULATED, 4X4 | 181 HP D-off | | \$202,813 | 63.45 | 9.56 | 15.67 | 1.72 | 20.54 | 306 |
| | L40CS011 | 821C | LOADER, FRONT END, WHEEL, 3.5 CY BUCKET, ARTICULATED, 4X4 | 187 HP D-off | | \$256,117 | 77.64 | 11.68 | 18.99 | 2.18 | 21.22 | 379 |
| | | Komatsu | America International Company | | | | | | | | | |
| | L40KM015 | WA95-3 | LOADER, FRONT END, WHEEL, 1.40 CY BUCKET, ARTICULATED, 4X4 | 75 HP D-off | | \$95,569 | 28.02 | 4.47 | 7.31 | 0.81 | 8.51 | 128 |
| | L40KM003 | WA250-6 | LOADER, FRONT END, WHEEL, 3.00 CY BUCKET, ARTICULATED, 4X4 | 139 HP D-off | | \$155,097 | 55.87 | 6.28 | 9.91 | 1.32 | 15.77 | 241 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|----|----------|------------|--|--------|-------|--------------------|----------------|---------|---------|--------|-----------------|-------|-------|
| ΑT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.12 | ARTICULATED, OVER 225 HP | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | L40CA007 | 980H | LOADER, FRONT END, WHEEL, 6.00 CY BUCKET, ARTICULATED, 4X4 | 349 HP | D-off | | \$514,418 | 127.15 | 18.07 | 27.89 | 4.12 | 39.60 | 673 |
| | L40CA018 | 990 H | LOADER, FRONT END, WHEEL, 11.00 CY BUCKET, ARTICULATED, 4X4 | 627 HP | D-off | | \$1,410,796 | 275.19 | 49.12 | 75.65 | 11.29 | 71.14 | 1,716 |
| | L40CA009 | 992-K | LOADER, FRONT END, WHEEL, 16.00 CY BUCKET, ARTICULATED, 4X4 | 800 HP | D-off | | \$1,946,845 | 368.62 | 68.98 | 106.82 | 15.57 | 90.77 | 2,150 |
| | L40CA035 | 988H | LOADER, FRONT END, WHEEL, 9.00 CY BUCKET, ARTICULATED, 4X4 | 501 HP | D-off | | \$816,954 | 186.55 | 28.22 | 43.36 | 6.54 | 56.84 | 1,092 |
| | | Komatsu Am | nerica International Company | | | | | | | | | | |
| | L40KM008 | WA500-6 | LOADER, FRONT END, WHEEL, 6.50 CY BUCKET, ARTICULATED, 4X4 | 335 HP | D-off | | \$369,898 | 106.21 | 12.62 | 19.32 | 2.96 | 38.01 | 671 |
| | L40KM009 | WA600-6 | LOADER, FRONT END, WHEEL, 8.00 CY BUCKET, ARTICULATED, 4X4 | 490 HP | D-off | | \$685,490 | 157.55 | 23.52 | 36.07 | 5.48 | 55.60 | 1,019 |
| | L40KM010 | WA700-3A | LOADER, FRONT END, WHEEL, 11.10 CY BUCKET, ARTICULATED, 4X4 | 684 HP | D-off | | \$934,297 | 218.94 | 31.18 | 47.42 | 7.47 | 77.61 | 1,574 |
| | L40KM011 | WA800-3 | LOADER, FRONT END, WHEEL, 13.10 CY BUCKET, ARTICULATED, 4X4 | 853 HP | D-off | | \$1,543,984 | 321.64 | 53.82 | 82.94 | 12.35 | 96.78 | 2,230 |
| | SUBCAT | EGORY 0.20 | SKID STEER | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | • |
| | L40CA028 | 216B | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 60" BUCKET, 4X4 | 49 HP | D-off | | \$33,828 | 15.46 | 1.88 | 3.20 | 0.28 | 6.10 | 54 |
| | L40CA029 | 226B | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 60" BUCKET, 4X4 | 54 HP | D-off | | \$37,483 | 17.02 | 2.10 | 3.57 | 0.31 | 6.72 | 58 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | <u> </u> | REGION 1 | l | GINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|------|--------------------|--------------------|----------------|---------|---------|------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| L40 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | L40CA030 | 236B | LOADER, FRONT END, WHEEL, SKID-STEER, 14.0 CF, 66" BUCKET, 4X4 | 59 F | IP D-off | | \$42,526 | 19.07 | 2.38 | 4.03 | 0.36 | 7.34 | 71 |
| | L40CA031 | 246C | LOADER, FRONT END, WHEEL, SKID-STEER, 15.4 CF, 72" BUCKET, 4X4 | 74 H | IP D-off | | \$41,375 | 20.90 | 2.31 | 3.91 | 0.35 | 9.21 | 74 |
| | | MELR | OE COMPANY/BOBCAT | | | | | | | | | | |
| | L40ME016 | S70 | LOADER, FRONT END, WHEEL, SKID-STEER, 6.5 CF, 44" BUCKET, 4X4 | 24 F | IP D-off | | \$18,229 | 7.79 | 1.03 | 1.76 | 0.15 | 2.92 | 28 |
| | L40ME017 | S100 | LOADER, FRONT END, WHEEL, SKID-STEER, 6.7 CF, 48" BUCKET, 4X4 | 36 H | IP D-off | | \$22,692 | 10.80 | 1.26 | 2.13 | 0.19 | 4.42 | 41 |
| | L40ME012 | S175 | LOADER, FRONT END, WHEEL, SKID-STEER, 14.3 CF, 60" BUCKET | 46 F | IP D-off | | \$29,660 | 13.84 | 1.68 | 2.85 | 0.25 | 5.72 | 62 |
| | L40ME021 | S130 | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 54" BUCKET, 4X4 | 49 F | IP D-off | | \$25,969 | 14.25 | 1.34 | 2.24 | 0.22 | 6.10 | 52 |
| | L40ME022 | S220 | LOADER, FRONT END, WHEEL, SKID-STEER, 16.3 CF, 66" BUCKET, 4X4 | 75 F | IP D-off | | \$38,042 | 20.72 | 2.04 | 3.44 | 0.32 | 9.33 | 75 |
| | L40ME023 | S300 | LOADER, FRONT END, WHEEL, SKID-STEER, 23.3 CF, 78" BUCKET, 4X4 | 81 F | IP D-off | | \$42,238 | 22.55 | 2.28 | 3.86 | 0.35 | 10.08 | 83 |
| | SUBCAT | EGORY 0.31 | TOOL CARRIER & TELESCOPIC HANG | LERS | S, 0 THRU | 225 HP | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | 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 | 90 F | HP D-off | | \$128,308 | 37.36 | 5.72 | 9.27 | 1.08 | 10.21 | 180 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUI | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|--|----------------------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| L40 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | 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 | | \$204,546 | 58.95 | 9.22 | 14.98 | 1.73 | 16.45 | 279 |
| | L40CA014 | IT62G II | LOADER, WHEEL, INTEGRATED TOOL CARRIER, 4.25 CY LOADER; 13,670 LB @ 12.42' HIGH, FORK LIFT, OR 5,040 LB @ 22.67' HIGH, MATERIAL HANDLING ARM | 200 HP D-off | | \$284,570 | 81.42 | 12.88 | 20.95 | 2.40 | 22.69 | 454 |
| L50 | LOADE | RS / BACKH | IOE, WHEEL TYPE | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | LOADERS / BACKHOE, WHEEL TYPE | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | 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 | | \$76,896 | 26.06 | 3.41 | 5.51 | 0.65 | 7.64 | 162 |
| | L50CA005 | 450E | LOADER / BACKHOE, WHEEL, 1.50 CY FRONT END BUCKET, 36" DIP, 19 CF, 17.1' DIGGING DEPTH, 4X2 | 101 HP D-off | | \$146,682 | 40.45 | 6.74 | 11.00 | 1.24 | 8.87 | 203 |
| | | CA | SE CORPORATION | | | | | | | | | |
| | L50CS005 | 580 SUPER M SERIES 2 | LOADER / BACKHOE, WHEEL, 1.00 CY FRONT END BUCKET, 24" DIP, 6.2 CF, 14.25' DIGGING DEPTH, 4X4 | 90 HP D-off | | \$102,214 | 31.28 | 4.53 | 7.33 | 0.86 | 7.91 | 143 |
| | L50CS006 | 590 SUPER M SERIES 2 | LOADER / BACKHOE, WHEEL, 1.30 CY FRONT END BUCKET, 24" DIP, 6.4 CF, 18' DIGGING DEPTH, 4X4, EXTENDAHOE | 98 HP D-off | | \$122,830 | 36.34 | 5.40 | 8.71 | 1.04 | 8.61 | 153 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|--------------|---------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | | JCB INC. | | | | | | | | | |
| | L50JC008 | 3CX14 | LOADER / BACKHOE, WHEEL, 1.1 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 14.6' DIGGING DEPTH, 4X4 | 74 HP D-off | | \$86,199 | 26.25 | 3.76 | 6.06 | 0.73 | 6.50 | 154 |
| | L50JC009 | 3CX14 Super | LOADER / BACKHOE, WHEEL, 1.4 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 14.6' DIGGING DEPTH, 4X4 | 91 HP D-off | | \$112,269 | 33.30 | 4.96 | 8.01 | 0.95 | 7.99 | 159 |
| | L50JC010 | 3CX15 Super | LOADER / BACKHOE, WHEEL, 1.40 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 16.3' DIGGING DEPTH, 4X4 | 109 HP D-off | | \$122,918 | 37.78 | 5.46 | 8.84 | 1.04 | 9.57 | 175 |
| | L50JC011 | 4CX15 Super | LOADER / BACKHOE, WHEEL, 1.40 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 20.1' DIGGING DEPTH, 4X4 | 109 HP D-off | | \$135,791 | 40.15 | 6.05 | 9.80 | 1.15 | 9.57 | 187 |
| | L50JC012 | 4CX17 Super | LOADER / BACKHOE, WHEEL, 1.60 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 21.5' DIGGING DEPTH, 4X4 | 109 HP D-off | | \$167,981 | 46.10 | 7.53 | 12.22 | 1.42 | 9.57 | 189 |
| L55 | LOADE | R / BACKHO | DE, ATTACHMENTS | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | LOADER / BACKHOE, ATTACHMENTS | | | | | | | | | |
| | | KENT | DEMOLITION TOOLS | | | | | | | | | |
| | L55KN001 | KB-555 | LOADER / BACKHOE, ATTACHMENT, AIR RAM, 500 FT-LB, W/2.5" DIA. POINT (ADD 175 CFM COMPRESSOR & LDR/BH) | 175 CFM A | | \$7,604 | 3.18 | 0.58 | 1.01 | 0.07 | 0.00 | 6 |
| | L55KN002 | KB-999 | LOADER / BACKHOE, ATTACHMENT, AIR RAM, 1000 FT-LB, W/ 3.5" DIA. POINT (ADD 250 CFM COMPRESSOR & LDR/BH) | 250 CFM A | | \$15,568 | 6.50 | 1.17 | 2.08 | 0.13 | 0.00 | 10 |
| | L55KN004 | KF6TLB | LOADER / BACKHOE, ATTACHMENT, HYDRA RAM, 1000 FT-LB, W/3" DIA. POINT (ADD 12,000-14,000 LB LDR/BH) | | | \$14,419 | 5.03 | 1.08 | 1.92 | 0.12 | 0.00 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------------------|---|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| L55 | | | KENT DEMOLITION TOOLS (continued) | | | | | | | | | | |
| | L55KN005 | KF9TLB | LOADER / BACKHOE, ATTACHMENT, HYDRA RAM, 1500 FT-LB, W/3.5" DIA. POINT (ADD 14,000-20,000 LB LDR/BH) | | | | \$21,283 | 7.43 | 1.60 | 2.84 | 0.18 | 0.00 | 11 |
| | L55KN006 | KF12TLB | LOADER / BACKHOE, ATTACHMENT, HYDRA RAM, 2000 FT-LB, W/4.25" DIA. POINT (ADD 20,000-30,000 LB LDR/BH) | | | | \$31,711 | 11.07 | 2.39 | 4.23 | 0.27 | 0.00 | 19 |
| L60 | LOG Sk | (IDDERS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | LOG SKIDDERS | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | ĺĺ |
| | L60CA013 | 525 C | LOG SKIDDER, 11 SF GRAPPLE, CABLE 43,000 LBS LINE-PULL AND WINCH, WHEEL, 4X2 | 160 HP | D-off | | \$350,211 | 84.32 | 17.21 | 28.87 | 2.77 | 18.15 | 358 |
| | L60CA010 | 527 CABLE | LOG SKIDDER, CABLE, 69,200 LBS LINE- PULL AND WINCH, BLADE, CRAWLER | 150 HP | D-off | | \$381,516 | 87.53 | 19.24 | 32.43 | 3.02 | 17.02 | 407 |
| | L60CA011 | 527 GRAPPLE | LOG SKIDDER, 10 SF GRAPPLE, CABLE 69,200 LBS LINE-PULL AND WINCH, CRAWLER | 150 HP | D-off | | \$416,887 | 93.86 | 21.02 | 35.44 | 3.30 | 17.02 | 473 |
| | | DI | EERE & COMPANY | | | | | | | | | | |
| | L60JD001 | 540G III | LOG SKIDDER, CABLE, 40,525 LBS LINE- PULL WINCH AND BLADE, WHEEL, 4X4 | 119 HP | D-off | | \$169,154 | 47.34 | 8.06 | 13.44 | 1.34 | 13.50 | 219 |
| | L60JD003 | 548G III - GRAPPLE | LOG SKIDDER, 8.0 SF GRAPPLE WITH BLADE, WHEEL, 4X4 | 119 HP | D-off | | \$168,564 | 47.23 | 8.03 | 13.39 | 1.33 | 13.50 | 217 |
| | L60JD004 | 648H | LOG SKIDDER, 10.4 SF GRAPPLE WITH BLADE, WHEEL, 4X4 | 160 HP | D-off | | \$246,049 | 68.11 | 11.47 | 19.04 | 1.95 | 18.15 | 266 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO | | VALUE (TEV) | TOTAL H RATES | | | JUSTAB | | |
|-----|----------|---------------------|---|--------------|---------|----------------|------------------|----------|-------|--------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | | <u> </u> | | FCCM | FUEL | сwт |
| L60 | | | DEERE & COMPANY (continued) | | | | | | | | | |
| | L60JD002 | 640H | LOG SKIDDER, CABLE, 48,867 LBS LINE- PULL WINCH AND BLADE, WHEEL, 4X4 | 151 HP D-off | | \$221,456 | 60.80 | 10.69 | 17.88 | 1.75 | 17.13 | 239 |
| | L60JD006 | 643K | LOG SKIDDER, LOG FELLER/BUNCHER, 18" DIA TREE SAW CUTTER, WHEEL, 4X4 | 170 HP D-off | | \$212,853 | 62.41 | 10.07 | 16.78 | 1.68 | 19.29 | 320 |
| | L60JD008 | 753 J | LOG SKIDDER, LOG FELLER/BUNCHER, 28" DIA TREE SAW CUTTER, CRAWLER | 170 HP D-off | | \$410,517 | 95.29 | 20.70 | 34.89 | 3.25 | 19.29 | 410 |
| | L60JD007 | 843K | LOG SKIDDER, LOG FELLER/BUNCHER, 20" DIA TREE SAW CUTTER, WHEEL, 4X4 | 200 HP D-off | | \$227,105 | 68.83 | 10.80 | 18.00 | 1.80 | 22.69 | 323 |
| M10 | MARINE | E EQUIPMEN | T (NON DREDGING) | | | | | | | | | |
| | SUBCAT | EGORY 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 | | | \$24,826 | 6.42 | 2.06 | 3.72 | 0.20 | 0.00 | 143 |
| | M10MZ003 | BARGE 40'x10'x4' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 10' X 4', 30 TON | | | \$29,083 | 7.52 | 2.42 | 4.36 | 0.24 | 0.00 | 173 |
| | SUBCAT | EGORY 0.42 | WORK BARGES (SECTIONAL, NON-D | REDGING) | | | | | | | | |
| | | MARINE | INLAND FABRICATORS | | | | | | | | | |
| | M10MZ005 | BARGE 40'x12'x4' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY', 40' X 12' X 4', 36 TON | | | \$33,147 | 2.03 | 0.74 | 0.99 | 0.24 | 0.00 | 193 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB | | |
|-----|----------|---------------------|--|----------------------|--------------------|----------------|---------|---------|------|--------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| M10 | | | MARINE INLAND FABRICATORS (continued) | | | | | | | | | |
| | M10MZ007 | BARGE 40'x12'x5' | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 12' X 5', 51 TON | | | \$36,553 | 2.24 | 0.81 | 1.10 | 0.26 | 0.00 | 217 |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | |
| | M10XX001 | | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, BOW AND STERN SECTIONS | | | \$7,153 | 0.43 | 0.16 | 0.21 | 0.05 | 0.00 | 1 |
| | M10XX002 | | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, LOADING RAMPS | | | \$22,233 | 1.37 | 0.50 | 0.67 | 0.16 | 0.00 | 1 |
| | M10XX003 | | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MID-SECTION, 20' X 10' X 5' | | | \$26,850 | 1.65 | 0.60 | 0.81 | 0.19 | 0.00 | 1 |
| | M10XX004 | | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MID-SECTION, 40' X 10' X 5' | | | \$43,508 | 2.67 | 0.97 | 1.31 | 0.31 | 0.00 | 1 |
| | SUBCAT | EGORY 0.45 | FLAT-DECK OR CARGO BARGE (NON | -DREDGING) | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | M10XX005 | | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 120' X 30' X 7.25', 400 TON | | | \$187,665 | 4.74 | 2.24 | 1.98 | 1.25 | 0.00 | 1 |
| | M10XX006 | | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 120' X 45' X 7', 800 TON | | | \$264,153 | 6.67 | 3.16 | 2.79 | 1.76 | 0.00 | 1 |
| | M10XX007 | | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 140' X 45' X 7', 900 TON | | | \$336,003 | 8.48 | 4.01 | 3.55 | 2.23 | 0.00 | 1 |
| | M10XX008 | | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 150' X 45' X 9', 1,100 TON | | | \$466,315 | 11.77 | 5.56 | 4.92 | 3.10 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | _ | HORSEPOW | ı | EV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------------|---|--------|----------|--------|---------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | I CARR | IER 20 | 11 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCATI | EGORY 0.48 | ALL OTHER BARGES (NON-DREDGIN | G) | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | M10XX016 | OPEN 195 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 195' X 35' X 12', 1,400 TON | | | \$2 | 80,414 | 18.69 | 6.36 | 8.88 | 1.92 | 0.00 | 1 |
| | M10XX017 | OPEN 200 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 200' X 35' X 12', 1,600 TON | | | \$2 | 96,481 | 19.76 | 6.73 | 9.39 | 2.03 | 0.00 | 1 |
| | M10XX018 | CLOSED 195 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 195' X 35' X 12', 1,400 TON (COVERED) | | | \$3 | 69,271 | 24.60 | 8.37 | 11.69 | 2.52 | 0.00 | 1 |
| | M10XX019 | CLOSED 200 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 200' X 35' X 12', 1,600 TON (COVERED) | | | \$3 | 77,324 | 25.15 | 8.56 | 11.95 | 2.58 | 0.00 | 1 |
| | SUBCATI | EGORY 0.51 | BOATS & LAUNCHES, 0 THRU 250 H | IP | | | | | | | | | |
| | | MARINE | INLAND FABRICATORS | | | | | | | | | | |
| | M10MZ010 | COLT | MARINE EQUIPMENT, BOATS & LAUNCHES, TRUCKABLE WORKBOAT W/PILOT HOUSE & PUSH KNEES, INBOARD, 20.25' X 8' X 3' | 140 HP | D-off | \$ | 69,001 | 26.66 | 2.37 | 3.67 | 0.53 | 15.88 | 95 |
| | M10MZ011 | MUSTANG | MARINE EQUIPMENT, BOATS & LAUNCHES, TRUCKABLE WORKBOAT W/PILOT HOUSE & PUSH KNEES, INBOARD, 25.25' X 10' X 3.5' | 210 HP | D-off | \$ | 89,468 | 38.40 | 3.06 | 4.75 | 0.68 | 23.83 | 190 |
| | | s | 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 | \$ | 38,137 | 33.90 | 1.31 | 2.03 | 0.29 | 25.58 | 15 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|--------|-------|--------------------|----------------|---------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| M10 | | | SEAARK MARINE (continued) | | | | | | | | | | |
| | 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 | | \$66,800 | 59.01 | 2.29 | 3.55 | 0.51 | 44.49 | 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 | | \$84,504 | 48.16 | 2.90 | 4.49 | 0.65 | 33.36 | 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 | | \$98,462 | 62.60 | 3.37 | 5.23 | 0.75 | 44.49 | 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 | | \$103,512 | 76.03 | 3.54 | 5.50 | 0.79 | 55.61 | 28 |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | | |
| | M10XX010 | 12 | MARINE EQUIPMENT, BOATS & LAUNCHES, 12' TENDER, 7' BEAM, INBOARD ENGINE | 75 HP | D-off | | \$56,158 | 16.46 | 1.92 | 2.98 | 0.43 | 8.51 | 1 |
| | M10XX009 | 13 | MARINE EQUIPMENT, BOATS & LAUNCHES, 13' RUNABOUT, 5' BEAM, OUTBOARD ENGINE | 50 HP | G | | \$16,828 | 14.76 | 0.58 | 0.89 | 0.13 | 11.12 | 13 |
| | M10XX011 | 14 | MARINE EQUIPMENT, BOATS & LAUNCHES, 14' TENDER, 7' BEAM, INBOARD ENGINE | 100 HP | D-off | | \$64,545 | 20.77 | 2.21 | 3.43 | 0.49 | 11.35 | 13 |
| | M10XX012 | 100 | MARINE EQUIPMENT, BOATS & LAUNCHES, 16', SHALLOW DRAFT, INLAND TUG | 100 HP | D-off | | \$65,753 | 20.91 | 2.25 | 3.49 | 0.50 | 11.35 | 13 |
| | M10XX013 | 115 | MARINE EQUIPMENT, BOATS & LAUNCHES, 22', SHALLOW DRAFT, INLAND TUG | 115 HP | D-off | | \$85,194 | 25.14 | 2.92 | 4.53 | 0.65 | 13.05 | 23 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | NE HOI | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|--------|--------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| M10 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | M10XX014 | 175 | MARINE EQUIPMENT, BOATS & LAUNCHES, 18', W/STEERING NOZZLE, INLAND TUG | 175 HP | D-off | | \$117,197 | 36.85 | 4.02 | 6.23 | 0.90 | 19.86 | 60 |
| | M10XX015 | 250 | MARINE EQUIPMENT, BOATS & LAUNCHES, 26', W/STEERING NOZZLE, INLAND TUG | 250 HP | D-off | | \$147,024 | 50.32 | 5.03 | 7.81 | 1.12 | 28.37 | 83 |
| | SUBCAT | EGORY 0.53 | BOATS & LAUNCHES, 251 THRU 50 |) HP | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | M10XX021 | 380 | MARINE EQUIPMENT, BOATS & LAUNCHES, 40', STANDARD RUDDER, INLAND TUG | 380 HP | D-off | | \$389,843 | 94.34 | 12.60 | 19.49 | 2.85 | 43.11 | 100 |
| | M10XX022 | 435 | MARINE EQUIPMENT, BOATS & LAUNCHES, 45' LENGTH, 16' BEAM, 5' 0" DRAFT, PUSH BOAT | 435 HP | D-off | | \$443,600 | 107.71 | 14.33 | 22.18 | 3.24 | 49.36 | 100 |
| | M10XX023 | 400 | MARINE EQUIPMENT, BOATS & LAUNCHES, 48' LENGTH, 20' BEAM, 6' 6" DRAFT PUSH BOAT | 400 HP | D-off | | \$594,132 | 119.69 | 19.20 | 29.71 | 4.34 | 45.38 | 100 |
| | M10XX024 | 435 | MARINE EQUIPMENT, BOATS & LAUNCHES, 58' LENGTH, 21' BEAM, 6' 0" DRAFT, PUSH BOAT | 435 HP | D-off | | \$847,189 | 152.47 | 27.36 | 42.36 | 6.18 | 49.36 | 130 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|-----------------|-------------|---|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| P10 | PILE H | AMMER AC | CESSORIES - EXTRACTORS & BO | OX LEA | DS | | | | | | | | |
| | SUBCAT | EGORY 0.00 | PILE HAMMER ACCESSORIES - EXTRA | CTORS | & BOX | LEADS | | | | | | | |
| | IN ⁻ | TERNATIONAL | CONSTRUCTION EQUIPMENT,INC | | | | | | | | | | |
| | P10IC001 | 216 | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 30 TON LINE PULL (ADD LEADS & CRANE) | 175 HP | D-off | | \$120,640 | 57.17 | 7.67 | 13.07 | 1.13 | 19.86 | 130 |
| | P10IC002 | 416L | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 40 TON LINE PULL (ADD LEADS & CRANE) | 300 HP | D-off | | \$189,911 | 93.19 | 12.07 | 20.57 | 1.78 | 34.04 | 207 |
| | P10IC005 | 1412B | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 150 TON LINE PULL (ADD LEADS & CRANE) | 800 HP | D-off | | \$506,302 | 248.47 | 32.17 | 54.85 | 4.74 | 90.77 | 593 |
| | P10IC010 | | PILE HAMMER ACCESSORIES, PILE LEADS, SWING, 26" X 86' | | | | \$17,884 | 5.08 | 1.14 | 1.94 | 0.17 | 0.00 | 101 |
| | P10IC012 | | PILE HAMMER ACCESSORIES, PILE LEADS, SWING, 32" X 88' | | | | \$25,240 | 7.16 | 1.61 | 2.73 | 0.24 | 0.00 | 155 |
| | P10IC011 | | PILE HAMMER ACCESSORIES, PILE LEADS, FIXED, 26" X 86', W/SPOTTER | 13 HP | D-off | | \$35,191 | 11.68 | 2.24 | 3.81 | 0.33 | 1.47 | 134 |
| | P10IC013 | | PILE HAMMER ACCESSORIES, PILE LEADS, FIXED, 32" X 88', W/SPOTTER | 13 HP | G | | \$43,679 | 15.72 | 2.78 | 4.73 | 0.41 | 2.89 | 193 |
| P20 | PILE H | AMMERS, D | OUBLE ACTING | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | DIESEL | | | | | | | | | | |
| | IN ⁻ | TERNATIONAL | CONSTRUCTION EQUIPMENT,INC | | | | | | | | | | |
| | P20IC002 | 422 | PILE HAMMER, DOUBLE ACTING, DIESEL, 22,500 FT-LBS, MAX STROKE 5' 8" (ADD LEADS & CRANE) | | | | \$109,521 | 41.55 | 7.82 | 13.69 | 0.97 | 0.00 | 122 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE AND I | _ | SEPOWER TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|-----------------|---|-----------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P20 | | | INTERNATIONAL CONSTRUCTION EQUIPMENT,INC (continued) | | | | | | | | | | |
| | P20IC003 | 520 | PILE HAMMER, DOUBLE ACTING, DIESEL, 30,000 FT-LBS, MAX STROKE 5' 11" (ADD LEADS & CRANE) | | | | \$111,348 | 42.82 | 7.95 | 13.92 | 0.99 | 0.00 | 156 |
| | P20IC004 | 640 | PILE HAMMER, DOUBLE ACTING, DIESEL, 40,000 FT-LBS, MAX STROKE 6' 8" (ADD LEADS & CRANE) | | | | \$118,862 | 46.18 | 8.48 | 14.86 | 1.05 | 0.00 | 187 |
| | SUBCAT | EGORY 0.20 | PNEUMATIC (STEAM/AIR) | | | | | | | | | | |
| | | MKT | MANUFACTURING, INC. | | | | | | | | | | |
| | P20MK002 | 5 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 1,000 FT-LBS, MAX STROKE 7" (ADD 250 CFM COMPRESSOR, LEADS & CRANE) | 250 CFM | A | | \$27,610 | 10.72 | 2.08 | 3.68 | 0.24 | 0.00 | 17 |
| | P20MK003 | 6 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 2,500 FT-LBS, MAX STROKE 8.75" (ADD 400 CFM COMPRESSOR, LEADS & CRANE) | 400 CFM | A | | \$31,148 | 12.53 | 2.35 | 4.15 | 0.27 | 0.00 | 31 |
| | P20MK004 | 7 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 4,150 FT-LBS, MAX STROKE 9.5" (ADD 450 CFM COMPRESSOR, LEADS & CRANE) | 450 CFM | A | | \$43,729 | 17.44 | 3.30 | 5.83 | 0.38 | 0.00 | 51 |
| | P20MK005 | 9B3 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 8,750 FT-LBS, MAX STROKE 17" (ADD 600 CFM COMPRESSOR, LEADS & CRANE) | 600 CFM | A | | \$67,412 | 26.20 | 5.08 | 8.99 | 0.58 | 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) | 750 CFM | A | | \$91,653 | 36.42 | 6.90 | 12.22 | 0.79 | 0.00 | 111 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | IORSEPOWER UEL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|------------|------------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P20 | | | MKT MANUFACTURING, INC. (continued) | | | | | | | | | |
| | P20MK007 | 11B3 | PILE HAMMER, DOUBLE ACTING, PNUEMATIC (STEAM/AIR), 19,150 FT-LBS, MAX STROKE 19" (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM A | | \$103,855 | 40.95 | 7.83 | 13.85 | 0.90 | 0.00 | 139 |
| P25 | PILE HA | AMMERS, SI | NGLE ACTING | | | | | | | | | |
| | SUBCATI | EGORY 0.10 | DIESEL | | | | | | | | | |
| | | | PILECO, INC. | | | | | | | | | |
| | P25DL001 | D6-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 10,500 FT-LBS (ADD LEADS & CRANE) | 21 HP D-c | ıff | \$26,891 | 13.10 | 2.03 | 3.59 | 0.23 | 2.38 | 36 |
| | P25DL003 | D12-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 31,320 FT-LBS (ADD LEADS & CRANE) | 54 HP D-c | off | \$34,823 | 20.45 | 2.62 | 4.64 | 0.30 | 6.13 | 57 |
| | P25DL004 | D19-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 42,800 FT-LBS (ADD LEADS & CRANE) | 68 HP D-0 | off | \$38,277 | 24.09 | 2.88 | 5.10 | 0.33 | 7.72 | 84 |
| | P25DL005 | D25-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 58,248 FT-LBS (ADD LEADS & CRANE) | 105 HP D-c | off | \$66,224 | 39.55 | 4.99 | 8.83 | 0.57 | 11.91 | 124 |
| | P25DL006 | D30-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 69,898 FT-LBS (ADD LEADS & CRANE) | 119 HP D-0 | off | \$64,481 | 41.44 | 4.86 | 8.60 | 0.56 | 13.50 | 135 |
| | P25DL008 | D46-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 107,177 FT-LBS (ADD LEADS & CRANE) | 196 HP D-c | off | \$83,255 | 60.09 | 6.27 | 11.10 | 0.72 | 22.24 | 196 |
| | P25DL009 | D62-22 | PILE HAMMER, SINGLE ACTING, DIESEL, 165,000 FT-LBS (ADD LEADS & CRANE) | 249 HP D-c | ff | \$123,758 | 82.49 | 9.32 | 16.50 | 1.07 | 28.25 | 270 |
| | P25DL010 | D80-23 | PILE HAMMER, SINGLE ACTING, DIESEL, 225,000 FT-LBS (ADD LEADS & CRANE) | 290 HP D-c | ff | \$230,318 | 126.73 | 17.35 | 30.71 | 1.99 | 32.90 | 373 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| P25 | | | PILECO, INC. (continued) | | | | | | | | | | |
| | P25DL011 | D100-23 | PILE HAMMER, SINGLE ACTING, DIESEL, 300,000 FT-LBS (ADD LEADS & CRANE) | 362 HP | D-off | | \$346,247 | 178.32 | 26.08 | 46.17 | 2.99 | 41.07 | 449 |
| | INT | ERNATIONAL | CONSTRUCTION EQUIPMENT,INC | | | | | | | | | | |
| | P25IC001 | 30S | PILE HAMMER, SINGLE ACTING, DIESEL, 22,500 FT-LBS (ADD LEADS & CRANE) | 30 HP | D-off | | \$74,933 | 32.31 | 5.65 | 9.99 | 0.65 | 3.40 | 73 |
| | P25IC002 | 42S | PILE HAMMER, SINGLE ACTING, DIESEL, 42,000 FT-LBS (ADD LEADS & CRANE) | 47 HP | D-off | | \$83,423 | 38.75 | 6.28 | 11.12 | 0.72 | 5.33 | 91 |
| | P25IC003 | 60S | PILE HAMMER, SINGLE ACTING, DIESEL, 60,000 FT-LBS (ADD LEADS & CRANE) | 75 HP | D-off | | \$120,120 | 56.20 | 9.05 | 16.02 | 1.04 | 8.51 | 159 |
| | P25IC004 | 80S | PILE HAMMER, SINGLE ACTING, DIESEL, 80,000 FT-LBS (ADD LEADS & CRANE) | 92 HP | D-off | | \$133,487 | 64.00 | 10.05 | 17.80 | 1.15 | 10.44 | 220 |
| | P25IC005 | 100S | PILE HAMMER, SINGLE ACTING, DIESEL, 100,000 FT-LBS (ADD LEADS & CRANE) | 115 HP | D-off | | \$166,021 | 79.33 | 12.50 | 22.14 | 1.43 | 13.05 | 220 |
| | P25IC006 | 120S | PILE HAMMER, SINGLE ACTING, DIESEL, 120,000 FT-LBS (ADD LEADS & CRANE) | 138 HP | D-off | | \$205,071 | 96.93 | 15.44 | 27.34 | 1.77 | 15.66 | 274 |
| | | MKT | MANUFACTURING, INC. | | | | | | | | | | |
| | P25MK001 | DE-33/30/20C | PILE HAMMER, SINGLE ACTING, DIESEL, 33,000 FT-LBS (ADD LEADS & CRANE) | 37 HP | D-off | | \$64,029 | 29.72 | 4.82 | 8.54 | 0.55 | 4.20 | 78 |
| | P25MK003 | DE-70/50C | PILE HAMMER, SINGLE ACTING, DIESEL, 70,000 FT-LBS (ADD LEADS & CRANE) | 78 HP | D-off | | \$99,400 | 49.10 | 7.49 | 13.25 | 0.86 | 8.85 | 153 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|-----------|---|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | 1 | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.20 | PNEUMATIC (STEAM/AIR) | | | | | | | | | | |
| | | VULCAN FO | UNDATION EQUIPMENT, INC | | | | | | | | | | |
| | P25VU002 | 306 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 18,000 FT-LBS (ADD 750 CFM COMPRESSOR, LEADS & CRANE) | 750 CFM | A | | \$78,215 | 30.46 | 6.20 | 11.08 | 0.66 | 0.00 | 121 |
| | P25VU003 | 505 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 25,000 FT-LBS (ADD 600 CFM COMPRESSOR, LEADS & CRANE) | 600 CFM | A | | \$96,100 | 36.84 | 7.62 | 13.61 | 0.81 | 0.00 | 127 |
| | P25VU004 | 506 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAMAIR), 32,500 FT-LBS (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM | A | | \$98,255 | 37.61 | 7.78 | 13.92 | 0.82 | 0.00 | 140 |
| | P25VU005 | 508 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAMAIR), 40,000 FT-LBS (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM | A | | \$132,129 | 49.72 | 10.47 | 18.72 | 1.11 | 0.00 | 202 |
| | P25VU010 | 510 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 50,000 FT-LBS (ADD 1,050 CFM COMPRESSOR, LEADS & CRANE) | 1,050 CFM | A | | \$135,851 | 49.51 | 10.77 | 19.25 | 1.14 | 0.00 | 222 |
| | P25VU011 | 512 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 60,000 FT-LBS (ADD 1,200 CFM COMPRESSOR, LEADS & CRANE) | 1,200 CFM | A | | \$137,578 | 50.33 | 10.90 | 19.49 | 1.15 | 0.00 | 242 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | I | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P30 | PILE H | AMMERS, D | RIVER/ EXTRACTOR, VIBRATOR | Y | | | | | | | | | |
| | | EGORY 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR | | ORY | | | | | | | | |
| | | MKT | MANUFACTURING, INC. | | | | | | | | | | |
| | P30MK001 | V-5C/HP-185 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 53 TON FORCE DRIVE (ADD LEADS & CRANE) | 185 HP | D-off | | \$106,952 | 61.61 | 8.05 | 14.26 | 0.92 | 20.99 | 120 |
| | P30MK003 | V-20B/HP-365 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 98.5 TON FORCE DRIVE (ADD LEADS & CRANE) | 325 HP | D-off | | \$181,662 | 106.07 | 13.68 | 24.22 | 1.57 | 36.87 | 220 |
| | P30MK004 | V-35/HP-630 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 200 TON FORCE DRIVE (ADD LEADS & CRANE) | 630 HP | D-off | | \$309,756 | 190.83 | 23.33 | 41.30 | 2.68 | 71.48 | 327 |
| P35 | PIPELA | YERS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | PIPELAYERS | | | | | | | | | | |
| | | CATERPILL | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | P35CA010 | PL61 | PIPELAYER, 18' BOOM, 40,000 LBS CAPACITY | 125 HP | D-off | | \$322,771 | 58.03 | 11.80 | 18.44 | 2.58 | 7.78 | 354 |
| | P35CA011 | PL83 | PIPELAYER, 24' BOOM, 160,000 LBS CAPACITY | 310 HP | D-off | | \$811,636 | 145.60 | 29.67 | 46.38 | 6.48 | 19.29 | 855 |
| | P35CA012 | PL87 | PIPELAYER, 28' BOOM, 214,000 LBS CAPACITY | 366 HP | D-off | | \$963,535 | 172.71 | 35.23 | 55.06 | 7.70 | 22.77 | 945 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|----|----|-------|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| P40 | PLATF(| ORMS & MA | N-LIFTS | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | PLATFORMS & MAN-LIFTS | | | | | | | | | | | |
| | | G | SENIE INDUSTRIES | | | | | | | | | | | |
| | P40GJ016 | GRC-12 | MAN-LIFT, 38X29.5" PLATFORM W/EXT DECK, 18' HEIGHT, 500 LBS, 24 VOLT DC, RECHARGABLE BATTERIES | 1 | HP | E | | \$14,141 | 3.57 | 0.89 | 1.56 | 0.11 | 0.07 | 20 |
| | | TE | REX CORPORATION | | | | | | | | | | | |
| | P40TE003 | TA50RT | MAN-LIFT, ARTICULATED BOOM, 55' HEIGHT, 500 LBS, 29' REACH, 4X4, SELF PROPELLED, 2.2' X 5' PLATFORM | 32 | HP | D-off | | \$94,816 | 27.17 | 5.88 | 10.27 | 0.74 | 2.81 | 154 |
| | P40TE004 | TA60RT | MAN-LIFT, ARTICULATED BOOM, 66' HEIGHT, 500 LBS, 33' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFROM | 44 | HP | D-off | | \$109,128 | 31.81 | 6.81 | 11.89 | 0.86 | 3.86 | 241 |
| | P40TE005 | TB42 | MAN-LIFT, STRAIGHT BOOM, 43' HEIGHT, 650 LBS, 37' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 66 | HP | D-off | | \$83,468 | 27.84 | 5.15 | 8.99 | 0.65 | 5.80 | 131 |
| | P40TE006 | TB66 | MAN-LIFT, STRAIGHT BOOM, 66' HEIGHT, 650 LBS, 51' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 66 | HP | D-off | | \$111,875 | 34.75 | 6.97 | 12.17 | 0.88 | 5.80 | 250 |
| | P40TE007 | TB85 | MAN-LIFT, STRAIGHT BOOM, 86' HEIGHT, 600 LBS, 70' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 66 | HP | D-off | | \$186,773 | 52.78 | 11.76 | 20.60 | 1.46 | 5.80 | 373 |
| | P40TE008 | TB100 | MAN-LIFT, STRAIGHT BOOM, 92' HEIGHT, 500 LBS, 67' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 76 | HP | D-off | | \$207,741 | 58.83 | 13.11 | 22.95 | 1.63 | 6.68 | 393 |
| | P40TE009 | TB110 | MAN-LIFT, STRAIGHT BOOM, 110' HEIGHT, 500 LBS, 74' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 76 | HP | D-off | | \$231,560 | 64.56 | 14.63 | 25.63 | 1.81 | 6.68 | 420 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO AND FUE | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN ⁻ | | |
|-----|----------|--------------------------|---|----------------------|---------|----------------|---------|---------|-------|------------------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P40 | | | TEREX CORPORATION (continued) | | | | | | | | | |
| | P40TE010 | T-292 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 2.5' PLATFORM, 300 LBS, 34' HEIGHT, 23' RAD | 210 HP D-off | | \$79,392 | 40.54 | 4.98 | 8.71 | 0.62 | 18.45 | 115 |
| | P40TE011 | T-38P | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 2.5' PLATFORM, 300 LBS, 43' HEIGHT, 26' RAD | 210 HP D-off | | \$87,473 | 42.81 | 5.43 | 9.47 | 0.69 | 18.45 | 128 |
| | P40TE012 | Digger DerrickC- 4045 | MAN-LIFT, LINE-TRUCK, W/13.7 TON, 45' HIGH-BOOM TILT POLE CLAWS, & 1.5' DIA AUGER | 210 HP D-off | | \$131,126 | 53.33 | 8.23 | 14.39 | 1.03 | 18.45 | 268 |
| | P40TE013 | 5FC-52 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 4' PLATFORM, 700 LBS, 57' HEIGHT, 35' RAD | 210 HP D-off | | \$120,003 | 50.64 | 7.51 | 13.13 | 0.94 | 18.45 | 215 |
| | P40TE014 | 5FC-55 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 2.5' PLATFORM, 500 LBS, 60' HEIGHT, 38' RAD | 210 HP D-off | | \$122,338 | 51.21 | 7.66 | 13.40 | 0.96 | 18.45 | 248 |
| | P40TE015 | 6H-65 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 4' PLATFORM, 750 LBS, 70' HEIGHT, 39' RAD | 210 HP D-off | | \$138,762 | 55.16 | 8.71 | 15.24 | 1.09 | 18.45 | 255 |
| P45 | PUMPS | , GROUT | | | | | | | | | | |
| | SUBCATI | EGORY 0.00 | PUMPS, GROUT | | | | | | | | | |
| | | AIRPLAC | O EQUIPMENT CO., INC. | | | | | | | | | |
| | P45AF002 | HG-5 | PUMP, GROUT, HAND PUMP, 12 CF/HR, 0- 100 PSI, W/O HOPPER (ADD HOSES) | | | \$982 | 0.26 | 0.06 | 0.10 | 0.01 | 0.00 | 1 |
| | P45AF003 | HG-9 | PUMP, GROUT, HAND PUMP, 15 CF/HR, 0- 100 PSI, W/5 GAL HOPPER (ADD HOSES) | | | \$1,416 | 0.38 | 0.09 | 0.15 | 0.01 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | HORSEP | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|---------------------|--|---------|--------|-------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | I CAI | RRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| P45 | | | AIRPLACO EQUIPMENT CO., INC. (continued) | | | | | | | | | | |
| | 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 | | \$8,532 | 2.41 | 0.53 | 0.91 | 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-off | | \$18,801 | 7.05 | 1.15 | 2.00 | 0.15 | 1.65 | 13 |
| | P45AF006 | MJ-16 | PUMP, MUDJACK/ SLABJACKING, 160 CF/HR, 0-400 PSI, GROUT-MUD JACKING- SHOTCRETE, TRAILER MTD, W/5 CF HOPPER (ADD 2" HOSE) | 12 HP | G | | \$11,852 | 7.70 | 0.67 | 1.14 | 0.10 | 3.89 | 7 |
| | 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 | | \$63,318 | 25.70 | 3.85 | 6.67 | 0.51 | 7.58 | 37 |
| | 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 | | \$57,863 | 26.84 | 3.52 | 6.09 | 0.47 | 9.88 | 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 | | \$15,043 | 13.42 | 0.88 | 1.52 | 0.12 | 8.11 | 25 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | l | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|---------------------------|---|-------|-------|------|--------------------|----------------|---------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | ALLEI | NTOWN EQUIPMENT | | | | | | | | | | | |
| | P45AL015 | POWER CRETER MAGNUM | PUMP, GROUT, GROUT-MUD JACK- SHOTCRE, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 135 CF/HR, 0 - 1,770 PSI, TRAILER MTD, W/75 GAL HOPPER/ 82 GAL MIXER/ 3" HOSE | 46 | HP D | -off | | \$66,419 | 26.55 | 4.04 | 7.00 | 0.54 | 7.58 | 35 |
| | | CH | HEMGROUT, 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 | | \$4,373 | 1.23 | 0.27 | 0.46 | 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 | | \$7,146 | 2.03 | 0.44 | 0.76 | 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 | | \$16,315 | 4.55 | 1.00 | 1.73 | 0.13 | 0.00 | 12 |
| | P45CG007 | CG-570 / 3C6 / H | PUMP, GROUT, THICK MIX/SPRAY, 64 CF/HR, 261 PSI, SKID MTD, 15 GAL HOPPER & 45 GAL MIXING TANK, W/AIR COMPRESSOR, POWER UNIT | 16 | HP | G | | \$24,340 | 12.57 | 1.50 | 2.59 | 0.20 | 5.19 | 13 |
| | P45CG006 | CG-570 / 3C6 | PUMP, GROUT, THICK MIX/SPRAY, 64 CF/HR, 261 PSI, TRAILER MTD, 15 GAL HOPPER & 45 GAL MIXING TANK, W/AIR COMPRESSOR, POWER UNIT | 16 | HP (| G | | \$30,325 | 14.18 | 1.83 | 3.16 | 0.25 | 5.19 | 15 |
| | | OLIN | ENGINEERING, INC. | | | | | | | | | | | |
| | P45OE002 | 5 40 | PUMP, GROUT PUMP, 1,134 CF/HR, 750 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | 55 | HP D | -off | | \$30,990 | 18.66 | 1.87 | 3.24 | 0.25 | 9.06 | 42 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | - | REGION 1 | | _ | RSEPOWER _ TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|--------|-------|--------------------|----------------|---------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P45 | | | OLIN ENGINEERING, INC. (continued) | | | | | | | | | | |
| | P45OE003 | 5 65 | PUMP, GROUT PUMP, 1,836 CF/HR, 1100 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | 84 HP | D-off | | \$40,912 | 26.76 | 2.48 | 4.29 | 0.33 | 13.83 | 48 |
| | P450E004 | 5 85 | PUMP, GROUT PUMP, 2,295 CF/HR, 1100 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | 120 HP | D-off | | \$48,017 | 35.42 | 2.92 | 5.05 | 0.39 | 19.76 | 56 |
| | P45OE005 | 5 140CA | PUMP, GROUT PUMP, 3,780 CF/HR, 900 PSI, 37 GAL HOPPER, TRAILER MTD TANDEM, W/POWER UNIT | 181 HP | D-off | | \$80,040 | 55.47 | 4.85 | 8.40 | 0.65 | 29.81 | 100 |
| P50 | PUMPS | , WATER, C | ENTRIFUGAL, TRASH | | | | | | | | | | |
| | SUBCAT | EGORY 0.11 | ENGINE DRIVE | | | | | | | | | | |
| | | WAC | CKER CORPORATION | | | | | | | | | | |
| | P50WC001 | PT 2A | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 2" DIA, 205 GPM @ 100' HEAD (ADD HOSES) | 10 HP | G | | \$1,149 | 3.81 | 0.07 | 0.11 | 0.01 | 3.05 | 1 |
| | P50WC002 | PT 3A | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 3" DIA, 425 GPM @ 95' HEAD (ADD HOSES) | 15 HP | D-off | | \$1,345 | 3.13 | 0.08 | 0.13 | 0.01 | 2.36 | 2 |
| | P50WC003 | PTS 4V | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 4" DIA, 705 GPM @ 106' HEAD (ADD HOSES) | 16 HP | D-off | | \$3,473 | 3.86 | 0.21 | 0.35 | 0.03 | 2.52 | 3 |
| | P50WC004 | PTS 6LT | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 6" DIA, 1,300 GPM @ 100' HEAD ,TRAILER MTD (ADD HOSES) | 33 HP | D-off | | \$14,381 | 9.73 | 0.83 | 1.41 | 0.12 | 5.19 | 25 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|----|----|-------|--------------------|----------------|------------------|---------|------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | | | |
| | P50XX001 | 6" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 6" DIA, 1,165 GPM, AIR COOLED (ADD HOSES) | 60 | HP | D-off | | \$48,909 | 23.34 | 2.86 | 4.89 | 0.41 | 9.44 | 22 |
| | P50XX002 | 8" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 8" DIA, 2,085 GPM, WATER COOLED (ADD HOSES) | 70 | HP | D-off | | \$46,056 | 24.50 | 2.69 | 4.61 | 0.38 | 11.02 | 35 |
| | P50XX003 | 10" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 10" DIA, 2,665 GPM, WATER COOLED (ADD HOSES) | 85 | HP | D-off | | \$85,111 | 37.00 | 4.97 | 8.51 | 0.71 | 13.38 | 43 |
| | SUBCAT | EGORY 0.31 | HOSES, PUMP, SUCTION & DISCHAR | GE | | | | | | | | | | |
| | | GOR | MAN-RUPP COMPANY | | | | | | | | | | | |
| | P50GR001 | C221-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION, 2" DIA X 20' WITH COUPLING (PER SECTION) | | | | | \$127 | 0.09 | 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) | | | | | \$200 | 0.14 | 0.03 | 0.05 | 0.00 | 0.00 | 1 |
| | P50GR003 | C357-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION, 4" DIA X 20' WITH COUPLING (PER SECTION) | | | | | \$338 | 0.24 | 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) | | | | | \$715 | 0.50 | 0.09 | 0.16 | 0.01 | 0.00 | 1 |
| | P50GR005 | C373-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, DISCH, 2" DIA X 50' WITH COUPLING (PER SECTION) | | | | | \$112 | 0.08 | 0.02 | 0.03 | 0.00 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|----------------------|--------------------|----------------|---------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P50 | | | GORMAN-RUPP COMPANY (continued) | | | | | | | | | |
| | P50GR006 | C374-90 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, DISCH, 3" DIA X 50' WITH COUPLING (PER SECTION) | | | \$181 | 0.12 | 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) | | | \$283 | 0.19 | 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) | | | \$528 | 0.37 | 0.06 | 0.12 | 0.00 | 0.00 | 3 |
| P55 | PUMPS | , WATER, SI | JBMERSIBLE | | | | | | | | | |
| | SUBCAT | EGORY 0.01 | ENGINE DRIVE | | | | | | | | | |
| | | GRIFFI | N DEWATERING CORP. | | | | | | | | | |
| | P55GF001 | 4MH | PUMP, WATER, SUBMERSIBLE, ENGINE DRIVE, 4" DIA, 400 GPM @ 20' HEAD, SKID MTD (INCLUDES POWER UNIT MODEL 250)(ADD HOSES) | 21 HP D-off | | \$22,033 | 9.72 | 1.28 | 2.20 | 0.18 | 3.30 | 19 |
| | P55GF002 | 6T | PUMP, WATER, SUBMERSIBLE, ENGINE DRIVE, 6" DIA, 2,000 GPM @ 20' HEAD, SKID MTD (INCLUDES POWER UNIT MODEL 400)(ADD HOSES) | 72 HP D-off | | \$31,592 | 21.76 | 1.84 | 3.16 | 0.26 | 11.33 | 31 |
| | SUBCAT | EGORY 0.02 | ELECTRIC DRIVE | | | | | | | | | |
| | _ | GOR | MAN-RUPP COMPANY | | | | | | | | | |
| | P55GR001 | S2A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 138 GPM @ 20' HEAD (ADD HOSES) | 2 HP E | | \$4,328 | 1.27 | 0.27 | 0.46 | 0.04 | 0.24 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB | | |
|-----|----------|------------|---|----|----|-----|--------------------|----------------|------------------|---------|------|--------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | M | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| P55 | | | GORMAN-RUPP COMPANY (continued) | | | | | | | | | | | |
| | P55GR002 | S3A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 3" DIA, 278 GPM @ 20' HEAD (ADD HOSES) | 5 | HP | E | | \$5,250 | 2.00 | 0.32 | 0.56 | 0.04 | 0.59 | 3 |
| | P55GR003 | S4A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 4" DIA, 860 GPM @ 40' HEAD (ADD HOSES) | 25 | HP | E | | \$14,245 | 7.56 | 0.88 | 1.51 | 0.12 | 2.97 | 12 |
| | P55GR004 | S6A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 6" DIA, 1,950 GPM @ 40' HEAD (ADD HOSES) | 60 | HP | E | | \$20,810 | 15.36 | 1.28 | 2.21 | 0.17 | 7.13 | 14 |
| | | WAC | CKER CORPORATION | | | | | | | | | | | |
| | P55WC001 | PS2 500 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 66 GPM @ 39' HEAD (ADD HOSES) | 1 | HP | E | | \$298 | 0.25 | 0.02 | 0.03 | 0.00 | 0.12 | 1 |
| | P55WC002 | PS2 750 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 100 GPM @ 52' HEAD (ADD HOSES) | 1 | HP | E | | \$600 | 0.31 | 0.03 | 0.06 | 0.00 | 0.12 | 1 |
| P60 | PUMPS | , WATER, C | ENTRIFUGAL, DEWATERING | | | | | | | | | | | |
| | | EGORY 0.11 | SKID MOUNTED, ENGINE DRIVE | | | | | | | | | | | |
| | | RIVERSID | E PUMP MANUFACTURING | | | | | | | | | | | |
| | P60HO002 | S2B | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 2" DIA, 150 GPM @ 22' HEAD (ADD HOSES) | 4 | HP | G | | \$909 | 1.47 | 0.06 | 0.09 | 0.01 | 1.07 | 1 |
| | P60HO003 | TP3B | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 3" DIA, 293 GPM @ 20' HEAD (ADD HOSES) | 8 | HP | G | | \$1,809 | 3.27 | 0.11 | 0.18 | 0.02 | 2.44 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | I | _ | _ | SEPOWER TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|-----|------|------|-----------------|----------------|------------------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | WAC | KER CORPORATION | | | | | | | | | | | |
| | P60WC001 | PG 2A | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 2" DIA, 159 GPM @ 98' HEAD (ADD HOSES) | 4 1 | HP | G | | \$464 | 1.52 | 0.03 | 0.05 | 0.00 | 1.22 | 1 |
| | P60WC002 | PG 3A | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 3" DIA, 264 GPM @ 98' HEAD (ADD HOSES) | 6 1 | HP | G | | \$534 | 2.24 | 0.03 | 0.05 | 0.00 | 1.83 | 1 |
| | SUBCAT | EGORY 0.21 | WHEEL MOUNTED, ENGINE DRIVE | | | | | | | | | | | |
| | | GRIFFI | N DEWATERING CORP. | | | | | | | | | | | |
| | P60GF003 | 250/4"MH | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 4" DIA, 400 GPM @ 60' HEAD (ADD HOSES) | 21 | HP D | -off | | \$25,770 | 10.32 | 1.48 | 2.52 | 0.22 | 3.30 | 19 |
| | P60GF008 | 400/6"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, 6" DIA, 1,040 GPM @ 60' HEAD, SKID MTD. (ADD HOSES) | 72 | HP D | -off | | \$35,328 | 22.20 | 2.03 | 3.47 | 0.29 | 11.33 | 31 |
| | P60GF004 | 400/6"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 6" DIA, 2,000 GPM @ 60' HEAD (ADD HOSES) | 72 | HP D | -off | | \$31,053 | 21.15 | 1.79 | 3.05 | 0.26 | 11.33 | 31 |
| | P60GF005 | 600/8"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 8" DIA, 3,410 GPM @ 60' HEAD (ADD HOSES) | 113 | HP D | -off | | \$41,054 | 31.28 | 2.37 | 4.05 | 0.34 | 17.78 | 39 |
| | P60GF006 | 825/12"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 12" DIA, 4,410 GPM @ 60' HEAD (ADD HOSES) | 140 | HP D | -off | | \$49,479 | 38.40 | 2.85 | 4.88 | 0.41 | 22.03 | 39 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | Е | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------|--|-----|----|-------|--------------------|----------------|------------------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | GOR | MAN-RUPP COMPANY | | | | | | | | | | | |
| | P60GR001 | 14C2-F3L | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 4" DIA, 600 GPM @ 80' HEAD (ADD HOSES) | 47 | HP | D-off | | \$26,778 | 15.43 | 1.54 | 2.63 | 0.22 | 7.40 | 20 |
| | P60GR002 | 16C2-F4L | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 6" DIA, 1,825 GPM @ 40' HEAD (ADD HOSES) | 101 | HP | G | | \$31,228 | 43.41 | 1.80 | 3.07 | 0.26 | 30.84 | 20 |
| P65 | PUMPS, | WATER, DI | APHRAGM | | | | | | | | | | | |
| | SUBCATE | GORY 0.11 | SKID MOUNTED, ENGINE DRIVE | | | | | | | | | | | |
| | | RIVERSIDE | E PUMP MANUFACTURING | | | | | | | | | | | |
| | P65HO001 | DP2B | PUMP, WATER, DIAPHRAGM, SKID MTD, 2" DIA, 33 GPM @ 25' HEAD (ADD HOSES) | 4 | HP | G | | \$1,631 | 1.64 | 0.09 | 0.16 | 0.01 | 1.07 | 1 |
| | P65HO002 | DP3B | PUMP, WATER, DIAPHRAGM, SKID MTD, 3" DIA, 80 GPM @ 25' HEAD (ADD HOSES) | 4 | HP | G | | \$1,864 | 1.71 | 0.12 | 0.19 | 0.02 | 1.07 | 2 |
| | SUBCATE | GORY 0.21 | WHEEL MOUNTED, ENGINE DRIVE | | | | | | | | | | | |
| | | GOR | MAN-RUPP COMPANY | | | | | | | | | | | |
| | P65GR001 | 3D-13 | PUMP, WATER, DIAPHRAGM, WHEEL, 2" DIA SUCTION X 3" DIA DISCHARGE, 56 GPMH @ 25' HEAD (ADD HOSES) | 5 | HP | G | | \$4,775 | 2.90 | 0.23 | 0.38 | 0.04 | 1.53 | 2 |
| | P65GR002 | 3D-B | PUMP, WATER, DIAPHRAGM, WHEEL, 3" DIA, 560 GPM @ 25' HEAD (ADD HOSES) | 2 | HP | G | | \$5,619 | 1.86 | 0.29 | 0.47 | 0.05 | 0.46 | 2 |
| | P65GR003 | 4D-B | PUMP, WATER, DIAPHRAGM, WHEEL, 4" DIA, 74 GPM @ 25' HEAD (ADD HOSES) | 3 | HP | G | | \$13,473 | 4.21 | 0.73 | 1.24 | 0.11 | 0.92 | 3 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB | | |
|-----|----------|------------------|---|------|-------|--------|--------------------|----------------|---------|------|------|--------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | | CARRIER | 2011 (\$) | | . , | | FCCM | _ | сwт |
| | | WAC | KER CORPORATION | | | | | | | | | | | |
| | P65WC001 | PDT 2A | PUMP, WATER, DIAPHRAGM, WHEEL, 2" DIA, 50 GPM @ 25' HEAD (ADD HOSES) | 4 | HP | G | | \$1,594 | 1.78 | 0.09 | 0.16 | 0.01 | 1.22 | 1 |
| | P65WC002 | PDT 3A | PUMP, WATER, DIAPHRAGM, WHEEL, 3" DIA, 88 GPM @ 25' HEAD (ADD HOSES) | 4 | HP | G | | \$1,706 | 1.80 | 0.10 | 0.17 | 0.01 | 1.22 | 2 |
| P70 | PUMPS | , WATER (Fo | or core drills) | | | | | | | | | | | |
| | SUBCATI | EGORY 0.01 | ENGINE DRIVE | | | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | | |
| | P70XX001 | 75-7.6 | PUMP, WATER, FOR CORE DRILLS, 7.6 GPM, 75 PSI, MANUAL, SKID (ADD HOSES) | 2 | HP | G | | \$3,732 | 1.55 | 0.21 | 0.35 | 0.03 | 0.61 | 1 |
| | P70XX002 | 225-17.5 | PUMP, WATER, FOR CORE DRILLS, 17.5 GPM, 225 PSI, MANUAL, SKID (ADD HOSES) | 6 | HP | G | | \$9,731 | 4.32 | 0.54 | 0.91 | 0.08 | 1.83 | 1 |
| R10 | RIPPER | S & HYDRA | ULIC BANK SLOPERS (Add cost | for | poi | nt we | ear) | | | | | | | |
| | SUBCATI | EGORY 0.00 | RIPPERS & HYDRAULIC BANK SLOPE | RS (| Add o | ost fo | or point wear) | | | | | | | |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | | | |
| | R10CA006 | D-5C111 | RIPPER, SHANK, EACH (ADD D-5 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | ۰ | | | | \$302 | 0.07 | 0.02 | 0.03 | 0.00 | 0.00 | 1 |
| | R10CA022 | D6RII-174-9198 | RIPPER SHANK, EACH (ADD D6RII TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | | \$1,210 | 0.30 | 0.07 | 0.12 | 0.01 | 0.00 | 2 |
| | R10CA023 | D6R II - 9J-8926 | RIPPER, SHANK, EACH (ADD D-6 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | | | \$1,221 | 0.30 | 0.07 | 0.12 | 0.01 | 0.00 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO AND FUE | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------|--|----------------------|---------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| R10 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | R10CA010 | D-7R | RIPPER, SHANK, EACH (ADD D-7 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$1,980 | 0.50 | 0.12 | 0.20 | 0.02 | 0.00 | 2 |
| | R10CA013 | D-8R | RIPPER, SHANK, EACH (ADD D-8 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$4,397 | 1.11 | 0.26 | 0.44 | 0.04 | 0.00 | 7 |
| | R10CA016 | D-9R | RIPPER, SHANK, EACH (ADD D-9 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$4,416 | 1.11 | 0.26 | 0.44 | 0.04 | 0.00 | 8 |
| | R10CA019 | D-10R | RIPPER, SHANK, EACH (ADD D-10 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$8,319 | 2.32 | 0.49 | 0.83 | 0.07 | 0.00 | 12 |
| | R10CA001 | D-3 | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-3 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$10,906 | 2.81 | 0.64 | 1.09 | 0.09 | 0.00 | 13 |
| | R10CA003 | D-4C SERIES III | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-4 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$10,906 | 2.81 | 0.64 | 1.09 | 0.09 | 0.00 | 13 |
| | R10CA005 | D-5C SERIES III | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-5 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$10,906 | 2.81 | 0.64 | 1.09 | 0.09 | 0.00 | 13 |
| | R10CA007 | D-6R II | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-6 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$17,530 | 4.48 | 1.03 | 1.75 | 0.15 | 0.00 | 40 |
| | R10CA009 | D-7R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-7 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$46,035 | 11.61 | 2.68 | 4.60 | 0.38 | 0.00 | 77 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------|--|-----------|---------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R10 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | R10CA011 | D-8R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-8 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | \$51,470 | 13.01 | 3.01 | 5.15 | 0.43 | 0.00 | 91 |
| | R10CA012 | D-8R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-8 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$63,068 | 15.92 | 3.69 | 6.31 | 0.53 | 0.00 | 102 |
| | R10CA014 | D-9R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-9 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$68,730 | 17.39 | 4.01 | 6.87 | 0.57 | 0.00 | 102 |
| | R10CA015 | D-9R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-9 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$88,298 | 22.30 | 5.16 | 8.83 | 0.74 | 0.00 | 91 |
| | R10CA017 | D-10R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-10 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$116,061 | 29.31 | 6.78 | 11.61 | 0.97 | 0.00 | 161 |
| | R10CA018 | D-10R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-10 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$140,256 | 35.39 | 8.19 | 14.03 | 1.17 | 0.00 | 179 |
| | R10CA020 | D-11R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-11 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$138,021 | 34.83 | 8.05 | 13.80 | 1.15 | 0.00 | 72 |
| | R10CA021 | D-11R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-11 TRACTOR DOZER & COST FOR POINT WEAR) | | | \$141,006 | 35.61 | 8.23 | 14.10 | 1.18 | 0.00 | 103 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|-----------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R15 | ROLLE | RS, STATIC | , TOWED, PNEUMATIC | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ROLLERS, STATIC, TOWED, PNEUMAT | ıc | | | | | | | | |
| | 5 | SOUTHWEST C | ONSTRUCTION EQUIPMENT CO. | | | | | | | | | |
| | R15SO001 | C-50 | ROLLER, STATIC, TOWED, PNEUMATIC, 60 TON, 9.8' WIDE, 4 TIRE (ADD TOWING UNIT) | | | \$154,252 | 26.33 | 6.58 | 10.63 | 1.26 | 0.00 | 309 |
| | R15SO002 | . C-75 | ROLLER, STATIC, TOWED, PNEUMATIC, 75 TON, 10.5' WIDE, 4 TIRE (ADD TOWING UNIT) | | | \$170,110 | 27.53 | 5.68 | 8.58 | 1.39 | 0.00 | 347 |
| | R15SO003 | C-100XL | ROLLER, STATIC, TOWED, PNEUMATIC, 100 TON, 10.5' WIDE, 4 TIRE (ADD TOWING UNIT) | | | \$236,714 | 39.32 | 8.90 | 13.91 | 1.94 | 0.00 | 551 |
| R20 | ROLLE | RS, STATIC | , TOWED, STEEL DRUM | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ROLLERS, STATIC, TOWED, STEEL DR | UM | | | | | | | | |
| | \$ | SOUTHWEST C | ONSTRUCTION EQUIPMENT CO. | | | | | | | | | |
| | R20SO001 | 2DH-RR | ROLLER, STATIC, TOWED, 2 STEEL DRUMS, 10-20 TON, 60" WIDE X 60" DIA, SHEEPSFOOT (ADD TOWING UNIT) | | | \$85,568 | 16.15 | 4.13 | 6.85 | 0.70 | 0.00 | 200 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | IORSEPOWER JEL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|------------|------------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R30 | ROLLE | RS, STATIC, | SELF-PROPELLED | | | | | | | | | |
| | SUBCATI | EGORY 0.01 | PNEUMATIC | | | | | | | | | |
| | | COMPAC | TION AMERICA (BOMAG) | | | | | | | | | |
| | R30BO004 | BW11RH | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 13.50 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 85 HP D-0 | ff | \$79,827 | 31.54 | 4.38 | 7.45 | 0.65 | 11.82 | 100 |
| | R30BO003 | BW24R | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 30.00 TON, 78" WIDE, 8 TIRE, ASPHALT COMPACTOR | 110 HP D-0 | ff | \$150,520 | 50.97 | 8.73 | 15.01 | 1.22 | 15.30 | 290 |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | R30CA010 | PS-150B | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 14.25 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 70 HP D-0 | ff | \$86,248 | 30.23 | 5.17 | 8.93 | 0.70 | 9.74 | 85 |
| | R30CA014 | PS-360B | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 27.55 TON, 90" WIDE, 7 TIRE, ASPHALT COMPACTOR | 105 HP D-0 | ff | \$157,306 | 54.91 | 9.01 | 15.48 | 1.27 | 14.60 | 352 |
| | | ROSC | O, A LeeBoy COMPANY | | | | | | | | | |
| | R30RS003 | TRU-PAC 915 | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 6-15 TON, 68" WIDE, 9 TIRES, ASPHALT/SOIL COMPACTOR | 80 HP D-0 | ff | \$74,608 | 29.15 | 4.36 | 7.51 | 0.60 | 11.13 | 115 |
| | | SA | KAI AMERICA, INC. | | | | | | | | | |
| | R30SI002 | TS200 | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 16 TON, 81" WIDE, 9 TIRE, ASPHALT COMPACTOR | 91 HP D-0 | ff | \$124,584 | 42.31 | 7.16 | 12.30 | 1.01 | 12.66 | 187 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | EN | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|-----|-----|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R30 | | | SAKAI AMERICA, INC. (continued) | | | | | | | | | | | |
| | R30SI003 | TS600C | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 16 TON, 81" WIDE, 9 TIRE, ASPHALT COMPACTOR | 95 | HP | D-off | | \$154,566 | 49.55 | 9.00 | 15.49 | 1.25 | 13.21 | 187 |
| | R30SI004 | TS650C | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 27 TON, 82" WIDE, 7 TIRE, ASPHALT COMPACTOR | 108 | HP | D-off | | \$204,922 | 62.57 | 12.18 | 21.04 | 1.66 | 15.02 | 281 |
| | SUBCAT | EGORY 0.02 | SMOOTH DRUM | | | | | | | | | | | |
| | | COMPAC | CTION AMERICA (BOMAG) | | | | | | | | | | | |
| | R30BO005 | BW5AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 6 TON, 40" WIDE ASPHALT COMPACTOR | 47 | HP | D-off | | \$86,795 | 23.84 | 4.38 | 7.38 | 0.69 | 6.54 | 130 |
| | R30BO006 | BW9AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 10 TON, 50" WIDE ASPHALT COMPACTOR | 83 | HP | D-off | | \$94,712 | 30.93 | 4.78 | 8.05 | 0.75 | 11.54 | 162 |
| | R30BO007 | BW11AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 14 TON, 54" WIDE ASPHALT COMPACTOR | 78 | HP | D-off | | \$110,574 | 33.18 | 5.57 | 9.40 | 0.87 | 10.85 | 215 |
| | | ROSCO | O, A LeeBoy COMPANY | | | | | | | | | | | |
| | R30RS001 | 300 B | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 1.5 TON, 34" WIDE, ASPHALT COMPACTOR | 16 | HP | G | | \$16,804 | 8.05 | 0.85 | 1.43 | 0.13 | 4.34 | 26 |
| | R30RS002 | 400 | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 2 TON, 40" WIDE, ASPHALT COMPACTOR | 40 | HP | D-off | | \$33,562 | 12.61 | 1.70 | 2.85 | 0.27 | 5.56 | 37 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | MN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | SA | KAI AMERICA, INC. | | | | | | | | | | |
| | R30SI005 | R2H-2 | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, 3 DRUMS, 14 TON, 64" WIDE, ASPHALT COMPACTOR | 75 HP | D-off | | \$133,347 | 37.05 | 6.73 | 11.33 | 1.06 | 10.43 | 207 |
| | SUBCATI | EGORY 0.03 | TAMPING FOOT, LANDFILL & SOIL C | ОМРАСТ | ORS | | | | | | | | |
| | | COMPAC | TION AMERICA (BOMAG) | | | | | | | | | | |
| | 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 | | \$558,401 | 155.80 | 23.12 | 37.23 | 4.50 | 61.47 | 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 | | \$575,351 | 158.45 | 23.82 | 38.36 | 4.64 | 61.47 | 812 |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | R30CA003 | 815-F | 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 | | \$509,181 | 116.75 | 21.09 | 33.95 | 4.11 | 33.38 | 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 | | \$503,163 | 112.70 | 20.83 | 33.54 | 4.06 | 30.60 | 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 | | \$732,586 | 163.26 | 30.33 | 48.84 | 5.91 | 43.81 | 734 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | i | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|--------------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R30 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | 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 | 315 HP D-off | | \$767,872 | 168.76 | 31.79 | 51.19 | 6.19 | 43.81 | 771 |
| R40 | ROLLE | RS, VIBRAT | ORY, TOWED | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ROLLERS, VIBRATORY, TOWED | | | | | | | | | |
| | | COMPAC | CTION AMERICA (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 | | \$69,519 | 25.11 | 4.06 | 6.95 | 0.58 | 7.87 | 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 | | \$75,355 | 26.46 | 4.40 | 7.54 | 0.63 | 7.87 | 148 |
| R45 | ROLLE | RS, VIBRAT | ORY, SELF-PROPELLED, DOUBL | E DRUM | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ROLLERS, VIBRATORY, SELF-PROPE | LED, DOUBLE | DRUM | | | | | | | |
| | _ | COMPAC | CTION AMERICA (BOMAG) | | | | | | | | | |
| | R45BO004 | BW120AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.9 TON, 47.2" WIDE, 2X1, ASPHALT COMPACTOR | 33 HP D-off | | \$41,739 | 17.52 | 2.44 | 4.17 | 0.35 | 5.19 | 57 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | ENGINE HO AND FUE | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|--------------|--|----------------------|---------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R45 | | | COMPACTION AMERICA (BOMAG) (continued) | | | | | | | | | |
| | R45BO005 | BW138AD | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 4.6 TON, 54.3" WIDE, 2X1, ASPHALT COMPACTOR | 46 HP D-off | | \$61,401 | 25.32 | 3.58 | 6.14 | 0.51 | 7.24 | 92 |
| | R45BO006 | BW151AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 7.8 TON, 66.1" WIDE, 2X1, ASPHALT COMPACTOR | 108 HP D-off | | \$123,559 | 53.77 | 7.21 | 12.36 | 1.03 | 17.00 | 158 |
| | R45BO007 | BW161AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 10.4 TON, 66.1" WIDE, 2X1, ASPHALT COMPACTOR | 131 HP D-off | | \$141,440 | 62.89 | 8.25 | 14.14 | 1.18 | 20.62 | 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 | | \$158,278 | 80.99 | 9.24 | 15.83 | 1.32 | 32.26 | 252 |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | |
| | R45CA001 | CB-214D | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.5 TON, 39.4" WIDE, 2X1, ASPHALT COMPACTOR | 32 HP D-off | | \$53,779 | 20.68 | 3.14 | 5.38 | 0.45 | 5.04 | 81 |
| | R45CA005 | CB-434D | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 6.6 TON, 56" WIDE, 2X1, ASPHALT COMPACTOR | 70 HP D-off | | \$126,189 | 47.58 | 7.36 | 12.62 | 1.05 | 11.02 | 137 |
| | R45CA011 | CB-24 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.7 TON, 47" WIDE, 2X1, ASPHALT COMPACTOR | 33 HP D-off | | \$41,289 | 17.40 | 2.41 | 4.13 | 0.34 | 5.19 | 60 |
| | R45CA012 | CB-54 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 12.0 TON, 67" WIDE, 2X1, ASPHALT COMPACTOR | 137 HP D-off | | \$145,355 | 65.05 | 8.48 | 14.54 | 1.21 | 21.56 | 238 |
| | R45CA013 | CB-64 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 15.5 TON, 84" WIDE, 2X1, ASPHALT COMPACTOR | 137 HP D-off | | \$193,209 | 78.26 | 11.27 | 19.32 | 1.61 | 21.56 | 286 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|--|------|-----|-------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | ROSCO | O, A LeeBoy COMPANY | | | | | | | | | | | |
| | R45RS001 | 300B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.0 TON, 36" WIDE, ASPHALT COMPACTOR | 20 | HP | D-off | | \$21,549 | 9.58 | 1.26 | 2.15 | 0.18 | 3.15 | 26 |
| | | SA | KAI AMERICA, INC. | | | | | | | | | | | |
| | R45SI008 | SW320-1 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 3.0 TON, 47" WIDE, 2X1, ASPHALT COMPACTOR | 35 | HP | D-off | | \$41,533 | 17.84 | 2.43 | 4.15 | 0.35 | 5.51 | 28 |
| | R45SI009 | SW652 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 7.8 TON, 58" WIDE, 2X1, ASPHALT COMPACTOR | 78 | HP | D-off | | \$113,175 | 45.45 | 6.61 | 11.32 | 0.95 | 12.28 | 157 |
| | R45SI010 | SW850-3 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 14.0 TON, 79" WIDE, 2X1, ASPHALT COMPACTOR | 127 | HP | D-off | | \$151,643 | 64.98 | 8.85 | 15.16 | 1.27 | 19.99 | 124 |
| R50 | ROLLEI | RS. VIBRATO | ORY, SELF-PROPELLED, SINGL | E DE | RUN | 1 | | | | | | | | |
| | | · | ROLLERS, VIBRATORY, SELF-PROPE | | | | RUM | | | | | | | |
| | | COMPAC | TION AMERICA (BOMAG) | | | | | | | | | | | |
| | R50BO005 | BW124DH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 2.9 TON, 47.2" WIDE, 3X2, SOIL COMPACTOR | 50 | HP | D-off | | \$59,886 | 22.30 | 3.02 | 5.00 | 0.52 | 5.67 | 60 |
| | R50BO010 | BW124PDH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 2.9 TON, 47.2" WIDE, 3X2, SOIL COMPACTOR | 50 | HP | D-off | | \$61,865 | 22.42 | 3.36 | 5.66 | 0.53 | 5.67 | 60 |
| | R50BO006 | BW145D-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 5.5 TON, 56.1" WIDE, 3X2, SOIL COMPACTOR | 75 | HP | D-off | | \$88,250 | 32.39 | 4.86 | 8.20 | 0.76 | 8.51 | 110 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|----------------------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R50 | | | COMPACTION AMERICA (BOMAG) (continued) | | | | | | | | | |
| | R50BO011 | BW145PDH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 5.8 TON, 56.1" WIDE, 3X2, SOIL COMPACTOR | 75 HP D-off | | \$93,097 | 33.62 | 5.13 | 8.65 | 0.80 | 8.51 | 118 |
| | R50BO007 | BW177D-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.9 TON, 66.4" WIDE, 3X2, SOIL COMPACTOR | 75 HP D-off | | \$102,854 | 36.22 | 5.61 | 9.44 | 0.89 | 8.51 | 159 |
| | R50BO012 | BW177PDH-40 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 8.3 TON, 66.4" WIDE, 3X2, SOIL COMPACTOR | 101 HP D-off | | \$120,897 | 44.22 | 6.61 | 11.13 | 1.04 | 11.46 | 166 |
| | R50BO008 | BW213DH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.5 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 155 HP D-off | | \$176,347 | 65.75 | 9.48 | 15.91 | 1.52 | 17.59 | 269 |
| | R50BO013 | BW213PDH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 14.1 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 131 HP D-off | | \$185,217 | 64.87 | 9.98 | 16.75 | 1.60 | 14.86 | 283 |
| | R50BO009 | BW219DH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 20.6 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 195 HP D-off | | \$161,893 | 67.30 | 8.67 | 14.56 | 1.39 | 22.12 | 412 |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | R50CA001 | CS-323C | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.6 TON, 50" WIDE, 3X2, SOIL COMPACTOR | 70 HP D-off | | \$92,835 | 32.96 | 5.08 | 8.55 | 0.80 | 7.94 | 97 |
| | R50CA005 | CS-433E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.1 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | \$130,661 | 46.62 | 7.13 | 11.99 | 1.13 | 11.35 | 147 |
| | R50CA011 | CS-583E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 16.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 150 HP D-off | | \$224,737 | 77.39 | 12.20 | 20.51 | 1.94 | 17.02 | 340 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | | ORSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|----------------|---|-------|---------|----------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ı | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R50 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | R50CA002 | CP-323C (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 4.6 TON, 50" WIDE, 3X2, SOIL COMPACTOR | 70 F | HP D-oi | f | \$102,760 | 35.49 | 5.63 | 9.48 | 0.89 | 7.94 | 105 |
| | R50CA006 | CS-423E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.4 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 83 ⊦ | HP D-of | f | \$106,475 | 38.46 | 5.63 | 9.42 | 0.92 | 9.42 | 137 |
| | R50CA007 | CS-64 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 15.7 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 156 ⊦ | HP D-of | f | \$171,915 | 64.71 | 9.26 | 15.56 | 1.48 | 17.70 | 254 |
| | R50CA008 | CS-74 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 17.0 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 156 ⊦ | HP D-oi | f | \$200,840 | 72.08 | 10.87 | 18.27 | 1.73 | 17.70 | 340 |
| | R50CA013 | CS44 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.9 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 ⊦ | HP D-oi | f | \$142,853 | 49.70 | 7.81 | 13.16 | 1.23 | 11.35 | 168 |
| | R50CA014 | CP44 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 7.9 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 ⊦ | HP D-oi | f | \$170,887 | 56.85 | 9.37 | 15.79 | 1.47 | 11.35 | 168 |
| | R50CA015 | CS56B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 12.2 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 157 ⊦ | HP D-oi | f | \$270,814 | 90.05 | 14.75 | 24.83 | 2.33 | 17.81 | 257 |
| | R50CA016 | CP56B | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 12.2 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 157 H | HP D-of | f | \$275,424 | 91.22 | 15.00 | 25.26 | 2.37 | 17.81 | 211 |
| | | INGERSOLL R | AND ROAD MACHINERY DIV | | | | | | | | | | |
| | R50IP001 | SD-45D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.9 TON, 54" WIDE, SOIL COMPACTOR | 80 ⊦ | HP D-of | F | \$103,071 | 37.03 | 5.56 | 9.33 | 0.89 | 9.08 | 104 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|---------------------|---|--------------|---------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | SAI | KAI AMERICA, INC. | | | | | | | | | |
| | R50SI024 | TW350 Combo | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 1.5 TON, 39.5" WIDE, 2X1, ASPHALT COMPACTOR | 28 HP D-off | | \$65,423 | 20.49 | 3.54 | 5.95 | 0.56 | 3.18 | 25 |
| | R50SI025 | TW500 Combo | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 3.9 TON, 51" WIDE, 2X1, ASPHALT COMPACTOR | 30 HP D-off | | \$80,756 | 24.66 | 4.40 | 7.39 | 0.70 | 3.40 | 36 |
| | R50SI006 | SV201D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.8 TON, 54" WIDE, 3X2, SOIL COMPACTOR | 60 HP D-off | | \$85,705 | 30.16 | 4.46 | 7.44 | 0.74 | 6.81 | 41 |
| | R50SI007 | SV201T (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.9 TON, 54" WIDE, 3X2, SOIL COMPACTOR | 60 HP D-off | | \$91,784 | 31.71 | 4.80 | 8.01 | 0.79 | 6.81 | 43 |
| | R50SI022 | SV400D-2 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.7 TON, 67" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | \$117,068 | 43.15 | 6.37 | 10.72 | 1.01 | 11.35 | 156 |
| | R50SI026 | TW750 Combo | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 8.7 TON, 66" WIDE, 2X1, ASPHALT COMPACTOR | 104 HP D-off | | \$160,680 | 54.73 | 8.82 | 14.88 | 1.38 | 11.80 | 100 |
| | R50SI023 | SV400TB-2 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 9.6 TON, 67" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | \$131,102 | 46.73 | 7.15 | 12.04 | 1.13 | 11.35 | 72 |
| | R50SI013 | SV510D-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 148 HP D-off | | \$140,815 | 55.77 | 7.50 | 12.58 | 1.21 | 16.79 | 507 |
| | R50SI016 | SV510T-3 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.9 TON, 60" WIDE, 3X2, SOIL COMPACTOR | 148 HP D-off | | \$151,173 | 58.41 | 8.08 | 13.55 | 1.30 | 16.79 | 110 |
| | R50SI017 | SV510TF-3 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 14.3 TON, 85" WIDE, 3X2, SOIL COMPACTOR | 148 HP D-off | | \$163,618 | 61.59 | 8.77 | 14.72 | 1.41 | 16.79 | 131 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ı | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|--|----|----|----|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R55 | ROOFIN | IG EQUIPME | ENT | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | ROOFING EQUIPMENT | | | | | | | | | | | |
| | | GARL | OCK EQUIPMENT CO. | | | | | | | | | | | |
| | R55GL020 | 300628 | ROOFING EQUIPMENT, MATERIAL BUGGY, 36" WIDE, WALK BEHIND GRAVEL SPREADER, HOPPER 800 LBS, 8 CF, 4X2 | 5 | HP | G | | \$5,229 | 2.69 | 0.34 | 0.60 | 0.04 | 1.02 | 4 |
| | R55GL021 | Ultracutter 300645 | ROOFING EQUIPMENT, 1-BLADE CUTTER, 3.75" DEEP, WALK BEHIND 11 HP (ADD BLADE COST) | 9 | HP | G | | \$3,076 | 3.02 | 0.25 | 0.44 | 0.03 | 1.83 | 2 |
| | R55GL022 | GENESIS 1012 | ROOFING EQUIPMENT, KETTLE, 1,012 GAL, W/PUMP, TRAILER MTD | 8 | HP | G | | \$29,906 | 18.04 | 2.24 | 3.98 | 0.25 | 1.63 | 54 |
| | R55GL023 | ROOF WARRIOR | ROOFING EQUIPMENT, ROOF PEELER, 16" WIDE, WALK BEHIND, POWERED WHEEL 2X2, STD W/ 18" FLAT BLADE | 8 | HP | G | | \$8,882 | 4.57 | 0.67 | 1.19 | 0.07 | 1.63 | 6 |
| | R55GL024 | N0. 78 | 1-ply graveler | 6 | HP | G | | \$5,939 | 3.12 | 0.47 | 0.84 | 0.05 | 1.12 | 4 |
| | R55GL025 | Garlock 3610 | ROOFING EQUIPMENT, POWER BROOM W/ STEEL BRUSH, 36" WIDE | 7 | HP | G | | \$4,394 | 2.86 | 0.35 | 0.62 | 0.04 | 1.32 | 4 |
| | R55GL017 | SUPER MINI SAW | ROOFING EQUIPMENT, 1-BLADE CUTTER, 18" HEIGHT & 2" WALL CLEARANCE | 5 | HP | G | | \$2,551 | 1.94 | 0.20 | 0.36 | 0.02 | 1.02 | 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 | | \$5,811 | 3.87 | 0.46 | 0.82 | 0.05 | 1.83 | 3 |
| | R55GL011 | ENFORCER TWIN CUTTER | ROOFING EQUIPMENT, 2-BLADE CUTTER, 25" WIDE, SELF PROPELLED (ADD BLADE COST) | 16 | HP | G | | \$8,254 | 6.25 | 0.66 | 1.17 | 0.07 | 3.26 | 4 |
| | R55GL018 | NO.12 | ROOFING EQUIPMENT, SCRATCHER, 4.5" WIDE | 5 | HP | G | | \$2,882 | 2.05 | 0.23 | 0.41 | 0.02 | 1.02 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|---|----|----|----|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | MN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| R55 | | | GARLOCK EQUIPMENT CO. (continued) | | | | | | | | | | | |
| | R55GL019 | NO. 30 | ROOFING EQUIPMENT, SCRATCHER, 13" WIDE | 8 | HP | G | | \$5,626 | 3.60 | 0.45 | 0.80 | 0.05 | 1.63 | 3 |
| | R55GL009 | ROTARY PLANER | ROOFING EQUIPMENT, ROTARY PLANER, 12" WIDE | 11 | HP | G | | \$3,306 | 3.44 | 0.27 | 0.47 | 0.03 | 2.14 | 2 |
| | R55GL015 | MODEL 1000 | ROOFING EQUIPMENT, HYDRAULIC HOIST, W/175' CABLE, 1,000 LB CAP | 9 | HP | G | | \$13,671 | 6.36 | 1.08 | 1.94 | 0.11 | 1.83 | 8 |
| | R55GL007 | SUPER MAX HYDR HOIST | ROOFING EQUIPMENT, HYDRAULIC SWING HOIST, W/275' CABLE, 1,400 LB CAP | 18 | HP | G | | \$14,561 | 8.68 | 1.15 | 2.06 | 0.12 | 3.66 | 10 |
| | R55GL013 | MODEL 30 | ROOFING EQUIPMENT, KETTLE, 30 GAL, WHEEL MTD | | | | | \$1,964 | 0.75 | 0.09 | 0.14 | 0.02 | 0.00 | 3 |
| | R55GL014 | MODEL 90 | ROOFING EQUIPMENT, KETTLE, 90 GAL, SKID MTD | | | | | \$4,378 | 1.74 | 0.35 | 0.62 | 0.04 | 0.00 | 7 |
| | R55GL001 | MODEL 115 | ROOFING EQUIPMENT, KETTLE, 115 GAL, TRAILER MTD | | | | | \$5,135 | 2.09 | 0.39 | 0.69 | 0.04 | 0.00 | 8 |
| | R55GL002 | MODEL 175 | ROOFING EQUIPMENT, KETTLE, 175 GAL, W/PUMP, TRAILER MTD | 5 | HP | G | | \$7,113 | 3.81 | 0.53 | 0.93 | 0.06 | 1.02 | 17 |
| | R55GL012 | MODEL 300 | ROOFING EQUIPMENT, KETTLE, 300 GAL, W/PUMP, TRAILER MTD | 9 | HP | G | | \$13,317 | 6.92 | 1.02 | 1.81 | 0.11 | 1.83 | 23 |
| | R55GL003 | GENESIS 412 | ROOFING EQUIPMENT, KETTLE, 412 GAL, W/PUMP, TRAILER MTD | 9 | HP | G | | \$18,857 | 8.70 | 1.47 | 2.61 | 0.16 | 1.83 | 30 |
| | R55GL004 | GENESIS 612 | ROOFING EQUIPMENT, KETTLE, 612 GAL, W/PUMP, TRAILER MTD | 9 | HP | G | | \$22,964 | 10.25 | 1.79 | 3.20 | 0.19 | 1.83 | 40 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------|---|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| S10 | SCRAP | ERS, ELEVA | TING | | | | | | | | | | |
| | | EGORY 0.01 | 0 THRU 200 HP | | | | | | | | | | |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | | |
| | S10CA001 | 613-C SERIES II | SCRAPER, ELEVATING LOADING, 11 CY, 13 TON, 7.7' CUT WIDTH, 4X2 - SINGLE POWERED | 175 HP | D-off | | \$323,575 | 92.85 | 15.08 | 24.85 | 2.65 | 19.86 | 336 |
| | SUBCAT | EGORY 0.02 | OVER 200 HP | | | | | | | | | | |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | | |
| | S10CA003 | 623-G | SCRAPER, ELEVATING LOADING, 23 CY, 25 TON, 11.5' CUT WIDTH, 4X2 - SINGLE POWERED | 365 HP | D-off | | \$528,202 | 144.26 | 18.40 | 28.03 | 4.38 | 41.41 | 810 |
| S15 | SCRAP | ERS, CONVE | ENTIONAL | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | SCRAPERS, CONVENTIONAL | | | | | | | | | | |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | | |
| | S15CA001 | 621-G | SCRAPER, CONVENTIONAL, STANDARD LOADING, 21 CY, 24 TON, 9.1' CUT WIDTH, 4X2 - SINGLE POWERED | 365 HP | D-off | | \$617,964 | 137.96 | 20.33 | 30.84 | 4.91 | 38.74 | 714 |
| | S15CA002 | 631-G | SCRAPER, CONVENTIONAL, STANDARD LOADING, 34 CY, 37.5 TON, 11.5' CUT WIDTH, 4X2 - SINGLE POWERED | 450 HP | D-off | | \$906,563 | 192.60 | 29.78 | 45.13 | 7.21 | 47.76 | 1,020 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | SEPOWER . TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|----------|-------|-------------------|----------------|---------|---------|-------|------------------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | I | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | | ATI-Bell | | | | | | | | | | |
| | S15JU001 | 4206DTIS28 | SCRAPER, CONVENTIONAL, STANDARD LOADING, 28 CY, 32 TON, 14' CUT WIDTH, 4X4 - SINGLE POWERED, TRACTOR EQUIPPED WITH ATI RUBBER TRACKS | 422 HP [| D-off | | \$637,972 | 138.88 | 21.51 | 32.87 | 5.07 | 44.79 | 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 | | \$660,148 | 141.79 | 22.28 | 34.05 | 5.25 | 44.79 | 953 |
| S20 | SCRAP | ERS, TANDE | EM POWERED | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | SCRAPERS, TANDEM POWERED | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | S20CA001 | 627-G | SCRAPER, TANDEM POWERED, STANDARD LOADING, 21 CY, 24 TON, 9.1' CUT WIDTH, 4X4, D-9 ASSISTED LOADING | 330 HP [| D-off | 225 HP D-off | \$518,200 | 155.12 | 16.88 | 25.52 | 4.12 | 60.94 | 791 |
| | S20CA002 | 627-G PP | SCRAPER, TANDEM POWERED, STANDARD LOADING, 20 CY, 24 TON, 9.1' CUT WIDTH, 4X4, PUSH-PULL | 330 HP [| D-off | 225 HP D-off | \$747,195 | 186.14 | 24.81 | 37.74 | 5.94 | 60.94 | 824 |
| | 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 | \$1,158,737 | 268.33 | 38.50 | 58.58 | 9.21 | 76.86 | 1,084 |
| | 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 | \$1,206,746 | 274.83 | 40.16 | 61.14 | 9.59 | 76.86 | 1,117 |
| | 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 | \$1,485,562 | 344.93 | 49.72 | 75.82 | 11.81 | 104.31 | 1,516 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|--------------|--------------------|----------------|------------------|---------|-------|------------------|--------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| S20 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | 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 | \$1,575,770 | 361.42 | 52.57 | 80.08 | 12.53 | 104.31 | 1,550 |
| S25 | SCRAP | ERS, TRAC | TOR DRAWN | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | SCRAPERS, TRACTOR DRAWN | | | | | | | | | |
| | | D | EERE & COMPANY | | | | | | | | | |
| | S25JD001 | 1510C | SCRAPER, TOWED, STANDARD LOADING, 11 CY, 17 TON, 10' CUT WIDTH (ADD 460 HP TRACTOR) | | | \$58,381 | 10.75 | 2.10 | 3.26 | 0.47 | 0.00 | 168 |
| | S25JD002 | 1814C | SCRAPER, TOWED, STANDARD LOADING, 14 CY, 23 TON, 14' CUT WIDTH (ADD 460HP TRACTOR) | | | \$75,453 | 15.22 | 2.70 | 4.17 | 0.61 | 0.00 | 213 |
| | | REYNOL | DS INTERNATIONAL, L.P. | | | | | | | | | |
| | S25RI001 | 14CS10 | SCRAPER, TOWED, PIVOT DUMP, 10.7-14 CY, 15 TON, 10' CUT WIDTH (ADD 250 - 300 HP TRACTOR) | | | \$49,588 | 9.59 | 1.92 | 3.03 | 0.40 | 0.00 | 138 |
| | S25RI002 | 17C12 (RG) | SCRAPER, TOWED, PIVOT DUMP, 13-17 CY, 17 TON, 12' CUT WIDTH (ADD 350 - 400 HP TRACTOR) | | | \$55,880 | 10.83 | 2.11 | 3.31 | 0.45 | 0.00 | 170 |
| | | | ROME PLOW CO. | | | | | | | | | |
| | S25RM003 | R56H | SCRAPER, TOWED, 9-12 CY, 12.5 TON, 8.5' CUT WIDTH (ADD 120-165 HP TRACTOR) | | | \$105,574 | 20.25 | 3.90 | 6.09 | 0.85 | 0.00 | 203 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| S25 | | | ROME PLOW CO. (continued) | | | | | | | | | |
| | S25RM001 | R67H | SCRAPER, TOWED, 12-17 CY, 17 TON, 9.9' CUT WIDTH (ADD 165-215 HP TRACTOR) | | | \$139,900 | 25.44 | 5.32 | 8.38 | 1.13 | 0.00 | 238 |
| | S25RM002 | R89H | SCRAPER, TOWED, 18-26 CY, 25 TON, 10.8' CUT WIDTH (ADD 285-370 HP TRACTOR) | | | \$206,502 | 38.96 | 7.45 | 11.57 | 1.66 | 0.00 | 382 |
| | S25RM004 | R89HD | SCRAPER, TOWED, 18-26 CY, 25 TON, 10.8' CUT WIDTH (ADD 310-410 HP TRACTOR) | | | \$171,032 | 33.31 | 5.91 | 9.06 | 1.38 | 0.00 | 419 |
| S30 | SCREE | NING & CRU | ISHING PLANTS | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | CONVEYORS | | | | | | | | | |
| | | KOLE | BERG - 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 | | \$60,799 | 13.17 | 2.91 | 4.90 | 0.46 | 1.29 | 15 |
| | S30KB035 | 12-3070 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 30" WIDE X 70' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 500 TPH | 20 HP E | | \$69,336 | 15.42 | 3.32 | 5.57 | 0.53 | 1.72 | 18 |
| | S30KB036 | 12-3650 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 36" WIDE X 50' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 750 TPH | 20 HP E | | \$65,177 | 14.65 | 3.13 | 5.25 | 0.50 | 1.72 | 16 |
| | S30KB041 | 12-3670 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 36" WIDE X 70' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 750 TPH | 20 HP E | | \$74,585 | 16.38 | 3.56 | 5.98 | 0.57 | 1.72 | 19 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|------------|----------|----------|---|-------|---|--------------------|----------------|---------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | |
| | S30KB001 | 13-2480 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 80' LONG, PORTABLE, 250 TPH | 10 HP | E | | \$40,059 | 8.68 | 1.90 | 3.18 | 0.31 | 0.86 | 14 |
| | S30KB002 | 13-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 100' LONG, PORTABLE, 250 TPH | 15 HP | E | | \$51,699 | 11.50 | 2.46 | 4.13 | 0.39 | 1.29 | 18 |
| | S30KB003 | 13-3080 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 80' LONG, PORTABLE, 500 TPH | 20 HP | E | | \$42,460 | 10.47 | 2.09 | 3.53 | 0.32 | 1.72 | 20 |
| | S30KB004 | 13-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 100' LONG, PORTABLE, 500 TPH | 25 HP | E | | \$64,776 | 15.16 | 2.97 | 4.95 | 0.49 | 2.15 | 25 |
| | S30KB005 | 13-3680 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 80' LONG, PORTABLE, 750 TPH | 25 HP | E | | \$49,713 | 12.45 | 2.32 | 3.88 | 0.38 | 2.15 | 30 |
| | S30KB006 | 13-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 100' LONG, PORTABLE, 750 TPH | 30 HP | E | | \$73,516 | 17.44 | 3.41 | 5.69 | 0.56 | 2.57 | 38 |
| | S30KB007 | 31-2480 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 80' LONG, WHEEL MTD, 750 TPH | 10 HP | E | | \$46,070 | 9.78 | 2.21 | 3.72 | 0.35 | 0.86 | 22 |
| | S30KB008 | 31-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 100' LONG, PORTABLE, 250 TPH | 15 HP | E | | \$56,625 | 12.40 | 2.75 | 4.63 | 0.43 | 1.29 | 27 |
| | S30KB009 | 31-24125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 125' LONG, PORTABLE, 250 TPH | 15 HP | E | | \$78,432 | 16.37 | 3.69 | 6.17 | 0.60 | 1.29 | 33 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|------------|----------|----------|---|----|-----|---|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | | |
| | S30KB010 | 31-3080 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 80' LONG, PORTABLE, 500 TPH | 20 | HP | E | | \$48,347 | 11.52 | 2.27 | 3.80 | 0.37 | 1.72 | 32 |
| | S30KB011 | 31-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 100' LONG, PORTABLE, 550 TPH | 25 | HP | E | | \$69,032 | 16.03 | 3.34 | 5.62 | 0.53 | 2.15 | 39 |
| | S30KB012 | 31-30125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 125' LONG, PORTABLE, 500 TPH | 25 | HP | E | | \$83,496 | 18.63 | 3.92 | 6.56 | 0.64 | 2.15 | 47 |
| | S30KB013 | 31-3680 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 80' LONG, PORTABLE, 750 TPH | 25 | HP | E | | \$56,009 | 13.61 | 2.66 | 4.45 | 0.43 | 2.15 | 42 |
| | S30KB014 | 31-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 100' LONG, PORTABLE, 750 TPH | 30 | HP | E | | \$74,824 | 17.74 | 3.62 | 6.09 | 0.57 | 2.57 | 59 |
| | S30KB015 | 31-36125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 125' LONG, PORTABLE, 750 TPH | 40 | HP | E | | \$101,298 | 23.90 | 4.82 | 8.10 | 0.77 | 3.43 | 70 |
| | S30KB018 | 35-24150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 24" WIDE X 150' LONG, PORTABLE, 750 TPH | 25 | HP | E | | \$115,703 | 24.64 | 5.78 | 9.79 | 0.88 | 2.15 | 39 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|------------|----------|----------|---|----|------|---|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | | |
| | S30KB021 | 35-30150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 30" WIDE X 150' LONG, PORTABLE, 1,500 TPH | 40 | HP | E | | \$134,115 | 30.03 | 6.71 | 11.38 | 1.02 | 3.43 | 56 |
| | S30KB024 | 35-36150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 36" WIDE X 150' LONG, PORTABLE, 2,000 TPH | 60 | HP | E | | \$153,718 | 36.31 | 7.71 | 13.07 | 1.17 | 5.15 | 84 |
| | S30KB025 | 36-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 24" WIDE X 100' LONG, PORTABLE, 750 TPH | 20 | HP | E | | \$82,448 | 17.85 | 4.08 | 6.90 | 0.63 | 1.72 | 52 |
| | S30KB026 | 36-24125 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 24" WIDE X 120' LONG, PORTABLE, 750 TPH | 20 | HP | E | | \$97,968 | 20.70 | 4.88 | 8.25 | 0.75 | 1.72 | 57 |
| | S30KB027 | 36-24150 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 24" WIDE X 150' LONG, PORTABLE, 750 TPH | 25 | HP | Е | | \$123,793 | 26.14 | 6.21 | 10.52 | 0.95 | 2.15 | 65 |
| | S30KB028 | 36-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 30" WIDE X 100' LONG, PORTABLE, 1,500 TPH | 30 | HP | Е | | \$93,761 | 21.25 | 4.66 | 7.87 | 0.72 | 2.57 | 64 |
| | S30KB029 | 36-30125 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 30" WIDE X 120' LONG, PORTABLE, 1,500 TPH | 30 | HP | E | | \$112,824 | 24.76 | 5.63 | 9.53 | 0.86 | 2.57 | 71 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|------------|----------|------------|---|----|-----|---|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | | |
| | S30KB030 | 36-30150 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 30" WIDE X 150' LONG, PORTABLE, 1,500 TPH | 40 | HP | E | | \$141,630 | 31.41 | 7.11 | 12.05 | 1.08 | 3.43 | 82 |
| | S30KB031 | 36-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 36" WIDE X 100' LONG, PORTABLE, 2,000 TPH | 50 | HP | E | | \$121,774 | 29.08 | 6.10 | 10.34 | 0.93 | 4.29 | 82 |
| | S30KB032 | 36-36125 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 36" WIDE X 120' LONG, PORTABLE, 2,000 TPH | 50 | HP | E | | \$143,517 | 33.09 | 7.21 | 12.22 | 1.10 | 4.29 | 93 |
| | S30KB033 | 36-36150 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 36" WIDE X 150' LONG, PORTABLE, 2,000 TPH | 60 | HP | E | | \$165,432 | 38.48 | 8.33 | 14.13 | 1.26 | 5.15 | 110 |
| | S30KB042 | 1430-60-25 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 30" WIDE X 60' LONG CONVEYOR, PORTABLE, 1,500 TPH | 30 | HP | E | | \$103,040 | 22.97 | 5.17 | 8.75 | 0.79 | 2.57 | 18 |
| | S30KB054 | 1936-2 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 30" WIDE X 40' LONG CONVEYOR, PORTABLE, 1,500 TPH | 15 | HP | E | | \$105,465 | 21.44 | 5.30 | 8.97 | 0.81 | 1.29 | 18 |
| | S30KB053 | 1436-60-25 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 60' LONG CONVEYOR, PORTABLE, 2,000 TPH | 40 | HP | E | | \$106,457 | 24.92 | 5.32 | 9.02 | 0.81 | 3.43 | 20 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|------------|----------|--------------------|---|--------|---------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | N | IAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | |
| | S30KB043 | 1936-3 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 40' LONG CONVEYOR, PORTABLE, 2,000 TPH | 15 HI | P E | | \$152,304 | 30.09 | 7.74 | 13.15 | 1.16 | 1.29 | 20 |
| | S30KB044 | 1936-4 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 40' LONG CONVEYOR, PORTABLE, 2,000 TPH | 15 HI | P E | | \$187,003 | 36.50 | 9.57 | 16.27 | 1.43 | 1.29 | 20 |
| | | Р | UTZMEISTER 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 HI | P D-off | | \$915,778 | 221.02 | 47.76 | 81.53 | 6.99 | 45.38 | 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 HI | P D-off | | \$620,379 | 166.49 | 32.27 | 55.06 | 4.74 | 45.38 | 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 HI | P D-off | | \$780,376 | 196.02 | 40.64 | 69.35 | 5.96 | 45.38 | 615 |
| | | | TELSMITH INC. | | | | | | | | | | |
| | S30TS001 | PTC 24IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 24" WIDE X 50' LONG, WHEEL MTD, 300 TPH | 12 HI | P E | | \$41,925 | 9.34 | 2.05 | 3.45 | 0.32 | 1.03 | 10 |
| | S30TS002 | PTC 24IN X 70FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 24" WIDE X 70' LONG, WHEEL MTD, 300 TPH | 17 HI | P E | | \$56,894 | 12.74 | 2.79 | 4.71 | 0.43 | 1.46 | 13 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | EI | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|------------|----------|--------------------|--|------|------|------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | ١ | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | TELSMITH INC. (continued) | | | | | | | | | | | |
| | S30TS003 | PTC 30IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 30" WIDE X 50' LONG, WHEEL MTD, 590 TPH | 17 | HP | E | | \$43,425 | 10.26 | 2.10 | 3.53 | 0.33 | 1.46 | 12 |
| | S30TS004 | PTC 30IN X 70FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 30" WIDE X 70' LONG, WHEEL MTD, 1,000 TPH | 22 | HP | E | | \$58,821 | 13.78 | 2.86 | 4.82 | 0.45 | 1.89 | 17 |
| | S30TS005 | PTC 36IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 36" WIDE X 50' LONG, WHEEL MTD, 750 TPH | 22 | HP | E | | \$45,727 | 11.35 | 2.20 | 3.69 | 0.35 | 1.89 | 19 |
| | S30TS006 | PTC 36IN X 70FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 36" WIDE X 70' LONG, WHEEL MTD, 1,200 TPH | 27 | HP | E | | \$61,872 | 14.99 | 2.99 | 5.03 | 0.47 | 2.32 | 26 |
| | S30TS007 | PTC 42IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 42" WIDE X 50' LONG, WHEEL MTD, 1,000 TPH | 32 | HP | E | | \$54,695 | 14.34 | 2.65 | 4.45 | 0.42 | 2.75 | 25 |
| | S30TS008 | PTC 42IN X 70FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 42" WIDE X 70' LONG, WHEEL MTD, 1,000 TPH | 42 | HP | E | | \$91,923 | 22.53 | 4.54 | 7.67 | 0.70 | 3.60 | 25 |
| | SUBCAT | EGORY 0.20 | CRUSHERS - VERTICAL & HORIZONT | AL S | HAFT | IMP/ | ACTOR | | | | | | | |
| | | | IEWITT-ROBINS | | | | | | | | | | | |
| | S30HW001 | MODEL 13654V | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 36"X54", SINGLE ROTOR, 250 TPH, W/3' X 16' FEEDER/ 4' GRIZZLY/ 24" X 8' REJECTION CONVEYOR/ & 36" X 37' DISCHARGE END DELIVERY CONVEYOR, TRAILER MTD (ADD 250 KW GENERATOR) | 250 | HP | E | | \$365,870 | 68.23 | 8.98 | 12.69 | 2.63 | 21.45 | 804 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|------------|----------|--------------|--|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | MN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | HEWITT-ROBINS (continued) | | | | | | | | | | |
| | S30HW002 | MODEL 14866V | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 48"X66" SINGLE ROTOR, 350 TPH, W/4'X16' FEEDER/ 6' GRIZZLY/ 30" X 9.5' REJECTION CONVEYOR/ & 48" X43' DISCHARGE END DELIVERY CONVEYOR, TRAILER MTD (ADD 350 KW GENERATOR) | 350 HP | Е | | \$494,385 | 93.71 | 12.16 | 17.21 | 3.55 | 30.03 | 1,280 |
| | S30HW013 | MODEL H4832S | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, SECONDARY, 48"X32" HAMMERMILL, 500 TPH, W/3' X 37' FEED CONVEYOR/5' X 16' VIBRATORY HORIZONTAL TRIPLE DECK SCREEN/ 36"X30' RETURN CONVEYOR/ & ROTOR LIFT, TRAILER MTD (ADD 450 KW GENERATOR) | 450 HP | Е | | \$436,195 | 101.31 | 10.75 | 15.23 | 3.13 | 38.61 | 600 |
| | | KOLB | ERG - PIONEER, INC | | | | | | | | | | |
| | S30KB045 | 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 | | \$623,542 | 105.10 | 15.51 | 22.07 | 4.47 | 40.85 | 548 |
| | | - | TELSMITH INC. | | | | | | | | | | |
| | S30TS009 | 4246 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 46" X 59", 600 TPH | 300 HP | E | | \$331,827 | 73.70 | 8.36 | 11.95 | 2.38 | 25.74 | 595 |
| | S30TS010 | 4856 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 56" X 85", 1,100 TPH | 400 HP | E | | \$493,190 | 102.98 | 12.42 | 17.75 | 3.54 | 34.32 | 942 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|------------|---------------|-------------|--|--------|-----|--------------------|----------------|------------------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. MOI | DEL | EQUIPMENT DESCRIPTION | M | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| <i>S30</i> | | | TELSMITH INC. (continued) | | | | | | | | | | |
| | S30TS011 607 | 1 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 71" X 100", 2,100 TPH | 800 HP | E | | \$819,166 | 190.42 | 20.63 | 29.49 | 5.88 | 68.64 | 1,950 |
| | SUBCATEGO | RY 0.21 | CRUSHERS - CONE | | | | | | | | | | |
| | | KOLB | ERG - PIONEER, INC | | | | | | | | | | |
| | S30KB046 1200 | 0LS | 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 | | \$437,357 | 81.94 | 10.79 | 15.29 | 3.14 | 23.34 | 810 |
| | S30KB047 1400 | 0 LS | SCREENING & CRUSHING PLANTS, CRUSHERS - CONE, SECONDARY PLANT, 630 TPH @ 1" ->1,050 TPH @ 2.5", 42" X 50" IMPACT CRUSHER, W/HOPPER/ & 42" X 32' END DELIVERY CONVEYOR, TRAILER MTD (INCLUDES GENERATOR) | 315 HP | E | | \$543,090 | 98.35 | 13.51 | 19.21 | 3.90 | 27.03 | 741 |
| | SUBCATEGO | RY 0.22 | CRUSHERS - JAW | | | | | | | | | | |
| | | H | HEWITT-ROBINS | | | | | | | | | | |
| | S30HW005 MOI | DEL J1524PF | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 15"X24", 21 TPH @ 1" -> 54 TPH @ 3", W/2.5' X 8' FEEDER/ 2' GRIZZLY/ & 24" X 20' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 40 HP | E | | \$196,136 | 20.85 | 4.80 | 6.77 | 1.41 | 3.43 | 86 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|------------|----------|--------------|---|--------|---|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAII | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | HEWITT-ROBINS (continued) | | | | | | | | | | |
| | S30HW006 | MODEL J1536V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 15"X36", 45 TPH @1.5" -> 150 TPH @ 6", W/3' X 14' FEEDER/ 4' GRIZZLY/ & 30" X 31' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 100 HP | E | | \$326,454 | 38.73 | 8.06 | 11.44 | 2.34 | 8.58 | 128 |
| | S30HW007 | MODEL J2036V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 20" X 36", 65 TPH @ 2" -> 223 TPH @ 7", W/3' X 14' FEEDER/ 4' GRIZZLY/ & 30" X 31' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 125 HP | E | | \$354,729 | 44.20 | 8.78 | 12.46 | 2.55 | 10.73 | 128 |
| | S30HW009 | MODEL J2142V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 21" X 42", 183 TPH @ 4" -> 345 TPH @ 8", W/3.5' X 16' FEEDER/ 4' GRIZZLY/ & 36" X 34' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 150 HP | E | | \$384,404 | 50.12 | 9.45 | 13.38 | 2.76 | 12.87 | 152 |
| | S30HW011 | MODEL J2248V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 22" X 48", 115 TPH @ 2.5" -> 240 TPH @ 6", W/4' X 16' FEEDER/ 4' GRIZZLY/ & 48" X 37' END DELIVERY CONVEYOR (ADD 40 KW GENERATOR) | 200 HP | E | | \$459,224 | 62.60 | 11.29 | 16.00 | 3.29 | 17.16 | 168 |
| | S30HW008 | MODEL J2436V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 24" X 36", 95 TPH @ 2.5" -> 230 TPH @ 6", W/3' X 14' FEEDER/ 4' GRIZZLY/ & 30" X 31' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 125 HP | E | | \$370,600 | 45.40 | 9.18 | 13.03 | 2.66 | 10.73 | 128 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|------------|----------|------------------------|---|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | HEWITT-ROBINS (continued) | | | | | | | | | | |
| | S30HW010 | MODEL J3042V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 30" X 42", 200 TPH @ 4" -> 390 TPH @ 8", W/3.5' X 16' FEEDER/ 6' GRIZZLY/ & 36" X 55' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 200 HP | E | | \$468,337 | 63.21 | 11.54 | 16.35 | 3.36 | 17.16 | 156 |
| | S30HW012 | MODEL J3048V | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 30" X 48", 340 TPH @ 5" -> 615 TPH @ 10", W/4' X 16' FEEDER/ 4' GRIZZLY/ & 48" X 37' END DELIVERY CONVEYOR, TRAILER MTD (ADD 40 KW GENERATOR) | 200 HP | E | | \$542,673 | 69.07 | 13.37 | 18.95 | 3.89 | 17.16 | 168 |
| | | KOLB | ERG - PIONEER, INC | | | | | | | | | | |
| | S30KB055 | CS-1536 | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 15" X 36", 45 TPH @ 1.5" -> 150 TPH @ 6", W/36" X 14' VIBRATING FEEDER/ ADJUSTABLE GRIZZLY & BYPASS/ HOPPER/ & 36" X 22' END DELIVERY CONVEYOR, TRAILER MTD, INCLUDES GENERATOR | 245 HP | D-off | | \$405,071 | 62.98 | 10.05 | 14.27 | 2.91 | 27.80 | 548 |
| | S30KB058 | 1524-2416 DUPLEX PL | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 15" X 36", 200 TPH @ 1/4" -> 250 TPH @ 6", W/36" X 14' VIBRATING FEEDER/ ADJUSTABLE GRIZZLY & BYPASS/ HOPPER/ SCREEN CONVEYOR/ & TRIPLE VIBRATORY SCREENS, TRAILER MTD | 130 HP | E | | \$434,079 | 50.88 | 10.77 | 15.32 | 3.11 | 11.15 | 391 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|------------|----------|------------------------|---|--------|-------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | |
| | S30KB056 | CS-2036 | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 20" X 36", 65 TPH @ 2" -> 223 TPH @ 7", W/36" X 14' VIBRATING FEEDER/ ADJUSTABLE GRIZZLY & BYPASS/ HOPPER/ & 36" X 22' END DELIVERY CONVEYOR, TRAILER MTD, INCLUDES GENERATOR | 245 HP | D-off | | \$415,136 | 63.74 | 10.30 | 14.63 | 2.98 | 27.80 | 590 |
| | S30KB059 | 2036-3024 DUPLEX PL | 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 | | \$680,544 | 92.38 | 16.92 | 24.07 | 4.88 | 25.74 | 415 |
| | S30KB057 | CS-2436 | SCREENING & CRUSHING PLANTS, JAW CRUSHER, 24" X 36", 95 TPH @ 2.5" -> 230 TPH @ 6", W/36" X 16' VIBRATING FEEDER/ ADJUSTABLE GRIZZLY & BYPASS/ HOPPER/ & 36" X 22' END DELIVERY CONVEYOR, TRAILER MTD, INCLUDES GENERATOR | 245 HP | D-off | | \$463,313 | 67.38 | 11.51 | 16.37 | 3.32 | 27.80 | 701 |
| | SUBCAT | EGORY 0.30 | SCREENING PLANT | | | | | | | | | | |
| | | | HEWITT-ROBINS | | | | | | | | | | |
| | S30HW014 | V-11 6X16FT, DD | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 6' X 16' VIBRATORY SLOPE DOUBLE DECK SCREENS, W/36" X 16.5' UNDER SCREEN CONVEYOR/ 7 CY HOPPER/ & FEEDER, TRAILER MTD | 15 HP | E | | \$142,552 | 29.99 | 7.27 | 12.36 | 1.09 | 1.29 | 101 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | E | _ | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|------------|----------|--------------------|---|----|----|-----|---|--------------------|----------------|------------------|---------|-------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | М | AIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| <i>S30</i> | | | HEWITT-ROBINS (continued) | | | | | | | | | | | | |
| | S30HW016 | V-11 6X20FT, DD | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 6' X 20' VIBRATORY SLOPE DOUBLE DECK SCREENS, W/36" X 16.5' UNDER SCREEN CONVEYOR/ 7 CY HOPPER/ & FEEDER, TRAILER MTD | 20 | HP | P E | = | | \$148,274 | 31.77 | 7.57 | 12.87 | 1.13 | 1.72 | 115 |
| | S30HW015 | V-11 6X16FT, TD | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 6' X 16' VIBRATORY SLOPE TRIPLE DECK SCREENS W/36" X 16.5' UNDER SCREEN CONVEYOR/ 7 CY HOPPER/ & FEEDER, TRAILER MTD | 25 | HP | P E | = | | \$156,661 | 34.11 | 8.02 | 13.63 | 1.20 | 2.15 | 138 |
| | S30HW017 | V-11 6X20FT, TD | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 6' X 20' VIBRATORY SLOPE TRIPLE DECK SCREENS W/36" X 16.5' UNDER SCREEN CONVEYOR/ 7 CY HOPPER/ & FEEDER, TRAILER MTD, | 25 | HP | P E | = | | \$159,471 | 34.66 | 8.16 | 13.88 | 1.22 | 2.15 | 167 |
| | S30HW018 | V-11 8X20FT, TD | SCREENING & CRUSHING PLANTS, SCREENING PLANT, 8' X 20' VIBRATORY SLOPE TRIPLE DECK SCREENS, W/48" X 15.5' UNDER SCREEN CONVEYOR/ 7 CY HOPPER/ & FEEDER, TRAILER MTD | 40 | HP | P E | = | | \$189,982 | 42.52 | 9.56 | 16.22 | 1.45 | 3.43 | 243 |
| | | KOLB | ERG - PIONEER, INC | | | | | | | | | | | | |
| | S30KB048 | 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 | 85 | HP | P E | = | | \$192,466 | 49.09 | 9.81 | 16.68 | 1.47 | 7.29 | 280 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|------------|----------|-------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| <i>S30</i> | | | KOLBERG - PIONEER, INC (continued) | | | | | | | | | | |
| | S30KB049 | 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 | 90 HP | E | | \$226,932 | 56.40 | 11.04 | 18.62 | 1.73 | 7.72 | 355 |
| | S30KB050 | 1822 | SCREENING & CRUSHING PLANTS, WASHING/SCREENING PLANT, 6' X 16' VIBRATORY SLOPE TRIPLE DECK SCREENS, W/HOPPER / 3 PRODUCT CHUTES/ ONE FINES CHUTE TO 8' X 32' CLASSIFYING TANK/ 36" DIA X 32' SLOPED SCREW & CHUTE, TRAILER MTD (ADD WATER & FEEDER) | 250 HP | E | | \$273,599 | 86.95 | 14.09 | 24.00 | 2.09 | 21.45 | 416 |
| | S30KB051 | 1830 | SCREENING & CRUSHING PLANTS, WASHING/SCREENING PLANT, 6' X 20' VIBRATORY SLOPED TRIPLE DECK SCREENS, W/HOPPER/ 3 PRODUCT CHUTES/ ONE FINES CHUTE/ 8' X 32' CLASSIFYING TANK/ & 44" DIA X 32' SLOPED SCREW & CHUTE, TRAILER MTD (ADD WATER & FEEDER) | 250 HP | E | | \$347,596 | 101.45 | 17.83 | 30.35 | 2.65 | 21.45 | 420 |
| | S30KB052 | 7208-32 S/P | SCREENING & CRUSHING PLANTS, CLASSIFYING PLANT (SAND SORT) 8'W X 32'L TANK & 44" DIA SCREW | 250 HP | E | | \$362,879 | 104.67 | 18.95 | 32.35 | 2.77 | 21.45 | 450 |
| | | | METSO MINERALS | | | | | | | | | | |
| | S30RA002 | CV 50D | SCREENING & CRUSHING PLANTS, GRIZZLY-SINGLE SCREEN, 120 CY/HR, TRAILER MTD | 25 HP | D-off | | \$80,497 | 19.04 | 4.15 | 7.08 | 0.61 | 2.84 | 130 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|------------|----------|-----------------------|--|--------------|---------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| <i>S30</i> | | | METSO MINERALS (continued) | | | | | | | | | |
| | S30RA003 | CV 90D | SCREENING & CRUSHING PLANTS, GRIZZLY-SINGLE SCREEN, 200 CY/HR, TRAILER MTD | 49 HP D-off | | \$127,341 | 31.32 | 6.54 | 11.13 | 0.97 | 5.56 | 195 |
| S35 | SNOW I | REMOVAL E | QUIPMENT | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | SNOW REMOVAL EQUIPMENT | | | | | | | | | |
| | | AMERICAI | N ROAD MACHINERY, INC. | | | | | | | | | |
| | S35AR001 | 112 | SNOW REMOVAL EQUIPMENT, SNOW PLOW, REVERSIBLE (ADD DUMP TRUCK) | | | \$5,421 | 1.26 | 0.32 | 0.54 | 0.05 | 0.00 | 15 |
| | S35AR002 | 713 | SNOW REMOVAL EQUIPMENT, SNOW PLOW, 1-WAY TRIP (ADD DUMP TRUCK) | | | \$7,700 | 1.79 | 0.45 | 0.77 | 0.06 | 0.00 | 20 |
| S40 | SOIL & | ROAD STAE | BILIZERS | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | SOIL & ROAD STABILIZERS | | | | | | | | | |
| | | COMPAC | TION AMERICA (BOMAG) | | | | | | | | | |
| | S40BO002 | MPH-362 R RECYCLER | SOIL & ROAD STABILIZER, 12" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP D-off | | \$370,064 | 125.52 | 17.51 | 28.95 | 3.03 | 44.80 | 390 |
| | S40BO003 | MPH-362 S | SOIL & ROAD STABILIZER, 14" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP D-off | | \$349,206 | 121.35 | 16.49 | 27.28 | 2.85 | 44.80 | 390 |
| | S40BO004 | MPH-362 SDM | SOIL & ROAD STABILIZER, 21" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP D-off | | \$355,240 | 122.55 | 16.78 | 27.76 | 2.90 | 44.80 | 390 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|--------------|---------|----------------|---------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | S40CA001 | RR-250B | SOIL & ROAD STABILIZER, 12" DEEP X 96" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 309 HP D-off | | \$410,048 | 126.95 | 19.41 | 32.11 | 3.35 | 38.45 | 370 |
| | S40CA002 | SS-250B | SOIL & ROAD STABILIZER, 18" DEEP X 96" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 309 HP D-off | | \$393,307 | 122.56 | 18.56 | 30.67 | 3.22 | 38.45 | 308 |
| | S40CA003 | RM-300 | SOIL & ROAD STABILIZER, 18" DEEP X 96" WIDE, HYDROSTATIC ROAD RECLAIMER/ SOIL STABILIZER, 4X4 | 350 HP D-off | | \$339,443 | 125.22 | 15.12 | 24.69 | 2.77 | 43.55 | 518 |
| | S40CA004 | RM-500 | SOIL & ROAD STABILIZER, 16" DEEP X 96" WIDE, HYDROSTATIC ROAD RECLAIMER/ SOIL STABILIZER, 4X4 | 540 HP D-off | | \$531,558 | 188.83 | 24.45 | 40.20 | 4.35 | 67.20 | 599 |
| S45 | SPLITT | ERS, ROCK | & CONCRETE | | | | | | | | | |
| | SUBCAT | EGORY 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 | | \$13,569 | 4.99 | 1.03 | 1.81 | 0.12 | 0.00 | 1 |
| | 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 | | \$16,221 | 5.91 | 1.22 | 2.16 | 0.14 | 0.00 | 1 |
| | 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 | | \$17,098 | 6.22 | 1.29 | 2.28 | 0.15 | 0.00 | 1 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO AND FUE | RSEPOWER EL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-----------------------|--|----------------------|---------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T10 | TRACTO | OR BLADES | & ATTACHMENTS (including ag | ricultural) | | | | | | | | |
| | SUBCATI | EGORY 0.00 | TRACTOR BLADES & ATTACHMENTS (| including agric | ultural) | | | | | | | |
| | | CATERPILLA | R INC. (MACHINE DIVISION) | | | | | | | | | |
| | T10CA001 | D3-61-9722 | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D3, 1.65 CY (ADD D3 TRACTOR) | | | \$14,737 | 2.87 | 0.71 | 1.18 | 0.12 | 0.00 | 22 |
| | T10CA002 | D3-PA 30B | TRACTOR ATTACHMENTS, POWER WINCH, W/250' CABLE, FOR D3 (ADD D3 TRACTOR) | | | \$18,196 | 3.53 | 0.88 | 1.46 | 0.15 | 0.00 | 21 |
| | T10CA004 | D4-104-5683 | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D4, 2.17 CY (ADD D4 TRACTOR) | | | \$16,311 | 3.16 | 0.78 | 1.30 | 0.13 | 0.00 | 24 |
| | T10CA005 | D4-PA 30B | TRACTOR ATTACHMENTS, POWER WINCH, W/250' CABLE, FOR D4 (ADD D4 TRACTOR) | | | \$18,196 | 3.53 | 0.88 | 1.46 | 0.15 | 0.00 | 21 |
| | T10CA007 | D5 N - ANGLE BLADE | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D5, 2.53 CY (ADD D5 TRACTOR) | | | \$24,678 | 4.75 | 1.19 | 1.97 | 0.20 | 0.00 | 26 |
| | T10CA008 | D5-PA 50 | TRACTOR ATTACHMENTS, POWER WINCH, FOR D5 (ADD D5 TRACTOR) | | | \$27,658 | 5.32 | 1.34 | 2.21 | 0.23 | 0.00 | 26 |
| | T10CA009 | D6-108-3970 | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D6, 5.09 CY (ADD D6 TRACTOR) | | | \$30,147 | 5.79 | 1.46 | 2.41 | 0.25 | 0.00 | 57 |
| | T10CA010 | D6-108-3982 | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D6, 4.16 CY (ADD D6 TRACTOR) | | | \$32,976 | 6.33 | 1.59 | 2.64 | 0.27 | 0.00 | 69 |
| | T10CA011 | D6-PA56 WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D6 (ADD D6 TRACTOR) | | | \$45,904 | 8.78 | 2.22 | 3.67 | 0.38 | 0.00 | 27 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|---------------------|--|----------------------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T10 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | T10CA012 | D7-S | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D7, 6.75 CY (ADD D7 TRACTOR) | | | \$44,395 | 8.48 | 2.14 | 3.55 | 0.36 | 0.00 | 77 |
| | T10CA013 | D7-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D7, 10.09 CY (ADD D7 TRACTOR) | | | \$48,753 | 9.31 | 2.35 | 3.90 | 0.40 | 0.00 | 86 |
| | T10CA014 | D7-A | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D7, 5.08 CY (ADD D7 TRACTOR) | | | \$40,567 | 7.77 | 1.96 | 3.25 | 0.33 | 0.00 | 78 |
| | T10CA015 | D7-PA57 WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D7 (ADD D7 TRACTOR) | | | \$60,360 | 11.53 | 2.91 | 4.83 | 0.49 | 0.00 | 45 |
| | T10CA016 | D8-SU | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D8, 6.09 CY (ADD D8 TRACTOR) | | | \$59,137 | 11.31 | 2.85 | 4.73 | 0.48 | 0.00 | 107 |
| | T10CA017 | D8-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D8, 15.30 CY (ADD D8 TRACTOR) | | | \$64,190 | 12.29 | 3.09 | 5.14 | 0.52 | 0.00 | 124 |
| | T10CA018 | D8-A | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D8, 6.09 CY (ADD D8 TRACTOR) | | | \$56,801 | 10.88 | 2.73 | 4.54 | 0.46 | 0.00 | 123 |
| | T10CA019 | D8-PP | TRACTOR ATTACHMENTS, BLADE, PUSH PLATE, FOR D8 (ADD D8 TRACTOR) | | | \$1,635 | 0.36 | 0.08 | 0.13 | 0.01 | 0.00 | 5 |
| | T10CA020 | D8, PA58VS WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D8 (ADD D8 TRACTOR) | | | \$60,162 | 11.54 | 2.90 | 4.81 | 0.49 | 0.00 | 50 |
| | T10CA021 | D9-SU | TRACTOR ATTACHMENTS, BLADE, SEMI-U, HYDRAULIC, FOR D9, 17.70 CY (ADD D9 TRACTOR) | | | \$80,342 | 15.41 | 3.88 | 6.43 | 0.66 | 0.00 | 143 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|---------------------|---|-----------|--------------------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T10 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | T10CA022 | D9-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D9, 21.40 CY (ADD D9 TRACTOR) | | | \$78,245 | 15.01 | 3.77 | 6.26 | 0.64 | 0.00 | 137 |
| | T10CA023 | D9, PA59VS WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D9 (ADD D9 TRACTOR) | | | \$80,917 | 15.52 | 3.90 | 6.47 | 0.66 | 0.00 | 86 |
| | T10CA024 | D10-SU ABRASION | TRACTOR ATTACHMENTS, BLADE, SEMI-U, HYDRAULIC, FOR D10, 24.20 CY (ADD D10 TRACTOR) | | | \$62,957 | 12.20 | 3.03 | 5.04 | 0.51 | 0.00 | 357 |
| | T10CA025 | D10-U ABRASION | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D10, 28.70 CY (ADD D10 TRACTOR) | | | \$75,206 | 14.53 | 3.62 | 6.02 | 0.61 | 0.00 | 251 |
| | T10CA026 | D11-SU | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D11, 35.50 CY (ADD D11 TRACTOR) | | | \$117,566 | 22.67 | 5.67 | 9.41 | 0.96 | 0.00 | 367 |
| | T10CA027 | D11-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D11, 45.00 CY (ADD D11 TRACTOR) | | | \$154,840 | 29.75 | 7.47 | 12.39 | 1.27 | 0.00 | 423 |
| | | DE | EERE & COMPANY | | | | | | | | | |
| | T10JD001 | 915 V-RIPPER | TRACTOR ATTACHMENTS, DEEP TILLER, 5x7 V SHAPED, 175" WIDE, 7 SHANKS (ADD 200HP TRACTOR W/PTO) | | | \$12,804 | 2.68 | 0.59 | 0.97 | 0.10 | 0.00 | 17 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|----|----------|----------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|----|
| AT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | cw |
| 15 | TRACTO | ORS, CRAWI | _ER (DOZER) (includes blade) | | | | | | | | | | |
| | SUBCATE | EGORY 0.01 | 0 THRU 225 HP | | | | | | | | | | |
| | | CATERPILLA | R 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 | | \$116,761 | 35.68 | 5.11 | 8.17 | 1.02 | 8.71 | 17 |
| | T15CA020 | D-4K XL | TRACTOR, CRAWLER (DOZER), 80 HP, POWERSHIFT, W/2.18 CY SEMI-U BLADE (ADD ATTACHMENTS) | 80 HP | D-off | | \$124,230 | 38.78 | 5.43 | 8.70 | 1.08 | 9.96 | 18 |
| | 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 | | \$131,044 | 40.26 | 5.73 | 9.17 | 1.14 | 9.96 | 18 |
| | T15CA021 | D-5G XL | TRACTOR, CRAWLER (DOZER), 90 HP, POWERSHIFT, W/2.85 CY POWER ANGLE BLADE (ADD ATTACHMENTS) | 90 HP | D-off | | \$140,540 | 43.80 | 6.15 | 9.84 | 1.23 | 11.20 | 19 |
| | 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 | | \$139,584 | 43.59 | 6.11 | 9.77 | 1.22 | 11.20 | 20 |
| | T15CA024 | D-5K XL | TRACTOR, CRAWLER (DOZER), 110 HP, POWERSHIFT, W/3.37 CY SEMI-U BLADE (ADD ATTACHMENTS) | 110 HP | D-off | | \$133,830 | 45.27 | 5.86 | 9.37 | 1.17 | 13.69 | 27 |
| | 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 | | \$264,376 | 78.83 | 11.57 | 18.51 | 2.31 | 18.04 | 32 |
| | 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 | | \$322,245 | 94.37 | 14.09 | 22.56 | 2.81 | 20.53 | 5 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------|---|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T15 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | T15CA009 | D-6T WHA | TRACTOR, CRAWLER (DOZER), 165 HP, W/14.3 CY BLADE, TRASH/WASTE HANDLING ARRANGEMENT | 165 HP | D-off | | \$395,729 | 110.38 | 17.30 | 27.70 | 3.45 | 20.53 | 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 | | \$391,011 | 112.28 | 17.10 | 27.37 | 3.41 | 23.02 | 461 |
| | | | CASE CORPORATION | | | | | | | | | | |
| | T15CS004 | 550H WT | TRACTOR, CRAWLER (DOZER), 67 HP, POWERSHIFT, W/1.90 CY UNIVERSAL BLADE (ADD ATTACHMENTS) | 67 HP | D-off | | \$115,485 | 34.98 | 5.05 | 8.08 | 1.01 | 8.34 | 146 |
| | T15CS007 | 1150H WT | TRACTOR, CRAWLER (DOZER), 119 HP, POWERSHIFT, W/3.90 CY UNIVERSAL BLADE (ADD ATTACHMENTS) | 119 HP | D-off | | \$201,524 | 61.34 | 8.82 | 14.11 | 1.76 | 14.81 | 263 |
| | | | DEERE & COMPANY | | | | | | | | | | |
| | T15JD005 | 450J LT | TRACTOR, CRAWLER (DOZER), 70 HP, HYDROSTATIC, W/2.00 CY ANGLE BLADE (ADD ATTACHMENTS) | 70 HP | D-off | | \$96,995 | 31.38 | 4.25 | 6.79 | 0.85 | 8.71 | 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 | | \$99,037 | 31.82 | 4.33 | 6.93 | 0.86 | 8.71 | 165 |
| | T15JD007 | 650K | TRACTOR, CRAWLER (DOZER), 101 HP, HYDROSTATIC, W/2.60 CY POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 101 HP | D-off | | \$151,261 | 47.75 | 6.62 | 10.59 | 1.32 | 12.57 | 185 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T15 | | | DEERE & COMPANY (continued) | | | | | | | | | | |
| | T15JD008 | 750K XLT | TRACTOR, CRAWLER (DOZER), 155 HP, HYDROSTATIC, W/5.60 CY POWER ANGLE TILT (PAT) BLADE (ADD ATTACHMENTS) | 155 HP | D-off | | \$245,191 | 76.11 | 10.72 | 17.16 | 2.14 | 19.29 | 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 | | \$255,568 | 79.84 | 11.18 | 17.89 | 2.23 | 20.53 | 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 | | \$345,599 | 102.68 | 15.12 | 24.19 | 3.02 | 23.27 | 404 |
| | T15JD011 | 850K LGP | TRACTOR, CRAWLER (DOZER), 205 HP, HYDROSTATIC LOW GROUND PRESSURE, W/7.14 CY SEMI-U POWER ANGLE TITLE (PAT) BLADE (ADD ATTACHMENTS) | 205 HP | D-off | | \$368,636 | 110.33 | 16.12 | 25.80 | 3.22 | 25.51 | 420 |
| | SUBCAT | EGORY 0.02 | 226 HP THRU 425 HP | | | | | | | | | | |
| | | CATERPILLA | R 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 | | \$362,943 | 102.84 | 13.91 | 21.78 | 3.02 | 29.87 | 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 | | \$411,202 | 111.99 | 15.76 | 24.67 | 3.42 | 29.87 | 530 |
| | T15CA016 | D-8T | TRACTOR, CRAWLER (DOZER), 310 HP, POWERSHIFT, W/15.3 CY SEMI-U BLADE (ADD ATTACHMENTS) | 310 HP | D-off | | \$627,356 | 162.91 | 24.04 | 37.64 | 5.22 | 38.58 | 898 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|--|--------|-------|--------------------|----------------|---------|---------|--------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T15 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | T15CA017 | D-9T | TRACTOR, CRAWLER (DOZER), 410 HP, POWERSHIFT, W/17.7 CY SEMI-U BLADE (ADD ATTACHMENTS) | 410 HP | D-off | | \$728,508 | 196.24 | 27.92 | 43.71 | 6.06 | 51.02 | 1,033 |
| | | Komatsu Am | nerica International Company | | | | | | | | | | |
| | T15KM008 | D155AX-6 | TRACTOR, CRAWLER (DOZER), 310 HP, POWERSHIFT, W/11.5 CY SEMI-U BLADE | 310 HP | D-off | | \$579,075 | 153.74 | 22.19 | 34.74 | 4.82 | 38.58 | 803 |
| | SUBCATI | EGORY 0.03 | OVER 425 HP | | | | | | | | | | |
| | | CATERPILLA | AR 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 | | \$1,209,537 | 262.77 | 41.88 | 64.51 | 9.62 | 61.56 | 1,421 |
| | T15CA019 | D-11TQ | TRACTOR, CRAWLER (DOZER), 850 HP, POWERSHIFT, WI44.0 CY SEMI-U BLADE (ADD ATTACHMENTS) | 850 HP | D-off | | \$1,962,898 | 416.02 | 67.96 | 104.69 | 15.61 | 90.22 | 2,029 |
| T20 | TRACTO | ORS, WHEE | L TYPE (DOZER) | | | | | | | | | | |
| | SUBCATI | EGORY 0.00 | TRACTORS, WHEEL TYPE (DOZER) | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | T20CA001 | 814-FS | TRACTOR, WHEEL (DOZER), 240 HP, ARTICULATING, 4X4, W/3.77 CY STRAIGHT BLADE | 240 HP | D-off | | \$521,022 | 98.17 | 19.24 | 30.46 | 4.01 | 25.47 | 479 |
| | T20CA002 | 824-HQ | TRACTOR, WHEEL (DOZER), 339 HP, ARTICULATING, 4X4, W/6.70 CY STRAIGHT BLADE | 339 HP | D-off | | \$770,691 | 147.31 | 28.08 | 44.29 | 5.93 | 35.98 | 633 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | HORSEPOWER FUEL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|--|----------|-------------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T20 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | |
| | T20CA003 | 834-HQ | TRACTOR, WHEEL (DOZER), 481 HP, ARTICULATING, 4X4, W/10.33 CY STRAIGHT BLADE | 481 HP D | -off | \$1,188,316 | 215.17 | 42.79 | 67.28 | 9.15 | 51.05 | 902 |
| T25 | TRACT | ORS, AGRIC | ULTURAL | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | CRAWLER | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | |
| | T25CA006 | CH 65E | TRACTOR, AGRICULTURAL, CRAWLER- RUBBER TRACK, 267 HP, 3 POINT HITCH | 267 HP D | -off | \$232,546 | 80.28 | 11.73 | 19.77 | 1.84 | 30.29 | 331 |
| | T25CA007 | CH 75E | TRACTOR, AGRICULTURAL, CRAWLER- RUBBER TRACK, 292 HP, 3 POINT HITCH | 292 HP D | -off | \$255,163 | 87.96 | 12.87 | 21.69 | 2.02 | 33.13 | 341 |
| | T25CA008 | CH 85E | TRACTOR, AGRICULTURAL, CRAWLER- RUBBER TRACK, 353 HP, 3 POINT HITCH | 353 HP D | -off | \$276,415 | 100.02 | 13.94 | 23.50 | 2.19 | 40.05 | 350 |
| | SUBCAT | EGORY 0.20 | WHEEL | | | | | | | | | |
| | | DE | EERE & COMPANY | | | | | | | | | |
| | T25JD021 | 6115R | TRACTOR, AGRICULTURAL, WHEEL, 115 HP, 4X4, PTO, 3 POINT HITCH | 115 HP D | -off | \$95,613 | 36.13 | 5.63 | 9.71 | 0.77 | 13.05 | 55 |
| | T25JD022 | 6170R | TRACTOR, AGRICULTURAL, WHEEL, 170HP, 4X4, PTO, 3 POINT HITCH | 170 HP D | -off | \$136,763 | 52.34 | 8.15 | 14.08 | 1.11 | 19.29 | 74 |
| | T25JD023 | 8235R | TRACTOR, AGRICULTURAL, WHEEL, 235 HP, 4X4, PTO, 3 POINT HITCH | 235 HP D | -off | \$194,437 | 73.61 | 11.41 | 19.68 | 1.57 | 26.66 | 272 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|----------------------|--|----------------------|--------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T25 | | | DEERE & COMPANY (continued) | | | | | | | | | |
| | T25JD024 | 8285R | TRACTOR, AGRICULTURAL, WHEEL, 285 HP, 4X4, PTO, 3 POINT HITCH | 285 HP D-off | | \$223,700 | 86.56 | 13.21 | 22.79 | 1.81 | 32.34 | 211 |
| | T25JD025 | 9360R | TRACTOR, AGRICULTURAL, WHEEL, 360 HP, 4X4, PTO, 3 POINT HITCH | 360 HP D-off | | \$253,072 | 102.80 | 13.86 | 23.61 | 2.05 | 40.85 | 329 |
| | T25JD026 | 9460R | TRACTOR, AGRICULTURAL, WHEEL, 460 HP, 4X4, PTO, 3 POINT HITCH | 460 HP D-off | | \$303,098 | 126.77 | 16.91 | 28.92 | 2.45 | 52.19 | 349 |
| | T25JD027 | 5045D | TRACTOR, AGRICULTURAL, WHEEL, 45 HP, 4X2, PTO, 3 POINT HITCH | 45 HP D-off | | \$15,615 | 9.34 | 0.84 | 1.41 | 0.13 | 5.11 | 42 |
| | T25JD028 | 5055D | TRACTOR, AGRICULTURAL, WHEEL, 55 HP, 4X2, PTO, 3 POINT HITCH | 55 HP D-off | | \$16,864 | 10.89 | 0.91 | 1.54 | 0.14 | 6.24 | 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 | | \$22,894 | 12.23 | 1.28 | 2.18 | 0.19 | 6.24 | 51 |
| | T25JD030 | 5065E | TRACTOR, AGRICULTURAL, WHEEL, 65 HP, 4X2, PTO, 3 POINT HITCH | 65 HP D-off | | \$34,280 | 16.04 | 1.98 | 3.39 | 0.28 | 7.37 | 27 |
| | T25JD031 | 5083E | TRACTOR, AGRICULTURAL, WHEEL, 83 HP, 4X2, PTO, 3 POINT HITCH | 83 HP D-off | | \$35,421 | 18.63 | 2.02 | 3.46 | 0.29 | 9.42 | 54 |
| | T25JD032 | 5101E | TRACTOR, AGRICULTURAL, WHEEL, 101 HP, 4X2, PTO, 3 POINT HITCH | 101 HP D-off | | \$42,528 | 22.76 | 2.11 | 3.54 | 0.34 | 11.46 | 73 |
| T30 | TRENC | HERS, CHAI | N TYPE CUTTER | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | TRENCHERS, CHAIN TYPE CUTTER | | | | | | | | | |
| | DI | TCH WITCH (T | HE CHARLES MACHINE WORKS) | | | | | | | | | |
| | T30DW012 | RT12 | TRENCHER, CHAIN TYPE CUTTER, 36" DEEP X 10" WIDE, WALK BEHIND | 16 HP G | | \$9,827 | 6.47 | 0.57 | 0.97 | 0.08 | 3.56 | 10 |
| | T30DW013 | RT24 | TRENCHER, CHAIN TYPE CUTTER, 48" DEEP X 8" WIDE, WALK BEHIND | 22 HP G | | \$12,851 | 8.71 | 0.72 | 1.21 | 0.11 | 4.89 | 11 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | Е | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|---------|---|-----|----|-------|--------------------|----------------|---------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T30 | | | DITCH WITCH (THE CHARLES MACHINE WORKS) (continued) | | | | | | | | | | | |
| | T30DW014 | RT115 | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 16" WIDE, 4X4 (W/BLADE, BHOE) | 102 | HP | D-off | | \$131,283 | 45.35 | 7.50 | 12.79 | 1.10 | 11.57 | 80 |
| | T30DW005 | RT45 | TRENCHER, CHAIN TYPE CUTTER, 63" DEEP X 12" WIDE, 4X4 (W/DBL PIVOT & H313 TRENCHER) | 42 | HP | D-off | | \$39,240 | 15.04 | 2.20 | 3.73 | 0.33 | 4.77 | 42 |
| | T30DW015 | RT45 | TRENCHER, CHAIN TYPE CUTTER, 52" DEEP X 12" WIDE, 4X4 (W/BLADE) | 42 | HP | D-off | | \$41,637 | 15.60 | 2.26 | 3.82 | 0.35 | 4.77 | 42 |
| | T30DW016 | RT55 | TRENCHER, CHAIN TYPE CUTTER, 62" DEEP X 12" WIDE, 4X4 (W/BLADE) | 60 | HP | D-off | | \$70,881 | 25.12 | 4.04 | 6.89 | 0.59 | 6.81 | 95 |
| | T30DW017 | RT80 | TRENCHER, CHAIN TYPE CUTTER, 62" DEEP X 12" WIDE, 4X4 (W/BLADE) | 78 | HP | D-off | | \$84,596 | 30.80 | 4.77 | 8.12 | 0.71 | 8.85 | 69 |
| | T30DW018 | RT95M | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 24" WIDE, 4X4 (W/BLADE) | 99 | HP | D-off | | \$113,473 | 40.59 | 6.46 | 11.01 | 0.95 | 11.23 | 77 |
| | T30DW011 | HT220 | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 12"-24" WIDE, CRAWLER (W/BLADE) | 220 | HP | D-off | | \$544,511 | 162.10 | 31.78 | 54.45 | 4.55 | 24.96 | 430 |
| | T30DW010 | RT95H | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 24" WIDE, 4X4 (W/BLADE) | 99 | HP | D-off | | \$114,835 | 41.83 | 6.26 | 10.59 | 0.96 | 11.23 | 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 | | \$505,012 | 152.40 | 29.47 | 50.50 | 4.22 | 24.96 | 450 |
| | T30TM008 | TRS 775 | TRENCHER, CHAIN TYPE CUTTER, 6' DEEP X 18" WIDE, CRAWLER (W/CRUMBSHOE) SELF LEVEL, OFFSET | 220 | HP | D-off | | \$508,352 | 153.22 | 29.66 | 50.84 | 4.24 | 24.96 | 470 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|--------------|---|--------|-------|--------------------|----------------|------------------|---------|--------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T30 | | | TESMEC USA, INC. (continued) | | | | | | | | | | |
| | T30TM012 | TRS 1100 | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 26" WIDE, CRAWLER (W/CRUMBSHOE) | 385 HP | D-off | | \$868,060 | 262.85 | 50.66 | 86.81 | 7.25 | 43.68 | 850 |
| | T30TM014 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 10' DEEP X 26" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | | \$1,362,928 | 402.44 | 79.53 | 136.29 | 11.38 | 59.57 | 1,680 |
| | T30TM013 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 14' DEEP X 42" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | | \$1,423,355 | 417.30 | 83.06 | 142.34 | 11.89 | 59.57 | 1,680 |
| | T30TM015 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 16' DEEP X 42" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | | \$1,453,074 | 424.58 | 84.79 | 145.31 | 12.13 | 59.57 | 1,680 |
| | | VERMEE | R MANUFACTURING CO. | | | | | | | | | | |
| | T30VE007 | T 455 | TRENCHER, CHAIN TYPE CUTTER, 6' DEEP X 8"-24" WIDE, CRAWLER, HYDROSTATIC | 125 HP | D-off | | \$199,805 | 65.19 | 11.66 | 19.98 | 1.67 | 14.18 | 180 |
| | T30VE008 | T 555 III | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 8"-24" WIDE, CRAWLER, HYDROSTATIC | 185 HP | D-off | | \$253,877 | 86.21 | 14.82 | 25.39 | 2.12 | 20.99 | 225 |
| | T30VE009 | T 655 III | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 10.5"-26" WIDE, CRAWLER, HYDROSTATIC | 250 HP | D-off | | \$411,393 | 133.29 | 24.01 | 41.14 | 3.44 | 28.37 | 500 |
| | T30VE010 | T 755 III | TRENCHER, CHAIN TYPE CUTTER, 10' DEEP X 14"-36" WIDE, CRAWLER, HYDROSTATIC | 275 HP | D-off | | \$498,354 | 157.86 | 29.08 | 49.84 | 4.16 | 31.20 | 660 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | ORSEPOWER JEL TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|------------|-----------------------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T35 | TRENC | HERS, WHE | EL TYPE CUTTER | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | TRENCHERS, WHEEL TYPE CUTTER | | | | | | | | | |
| | | CLEVELAN | ND PACIFIC TRENCHER CO | | | | | | | | | |
| | T35CT001 | 9624 | TRENCHER, WHEEL TYPE CUTTER, 72" DEEP X 21.5" WIDE, ROUND BUCKET, CRAWLER | 140 HP D-o | f | \$265,228 | 83.18 | 15.47 | 26.52 | 2.21 | 15.88 | 170 |
| | T35CT002 | 9600-S | TRENCHER, WHEEL TYPE CUTTER, 72" DEEP X 24" WIDE, ROUND BUCKET, CRAWLER | 140 HP D-o | f | \$326,662 | 98.28 | 19.07 | 32.67 | 2.73 | 15.88 | 228 |
| | T35CT003 | 246-FD | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 24" WIDE, ROUND BUCKET, CRAWLER | 185 HP D-o | f | \$366,988 | 113.99 | 21.41 | 36.70 | 3.06 | 20.99 | 320 |
| | T35CT005 | 7036 | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-o | f | \$326,946 | 93.44 | 19.08 | 32.69 | 2.73 | 11.57 | 263 |
| | T35CT006 | 7036 | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-o | f | \$326,946 | 93.44 | 19.08 | 32.69 | 2.73 | 11.57 | 263 |
| | T35CT004 | 7036-HD | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-o | f | \$345,646 | 98.04 | 20.17 | 34.56 | 2.89 | 11.57 | 286 |
| | T35CT007 | 7036-SD | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-0 | f | \$361,838 | 102.01 | 21.11 | 36.18 | 3.02 | 11.57 | 340 |
| | T35CT008 | 8700 | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 150 HP D-o | f | \$463,540 | 133.19 | 27.05 | 46.35 | 3.87 | 17.02 | 424 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|--|--------------|---------|----------------|------------------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T35 | | | CLEVELAND PACIFIC TRENCHER CO (continued) | | | | | | | | | |
| | T35CT009 | 7648-SD | TRENCHER, WHEEL TYPE CUTTER, 90" DEEP X 48" WIDE, ROUND BUCKET, CRAWLER | 150 HP D-off | | \$539,475 | 151.84 | 31.48 | 53.95 | 4.50 | 17.02 | 445 |
| | T35CT010 | 7648 | TRENCHER, WHEEL TYPE CUTTER, 90" DEEP X 48" WIDE, ROUND BUCKET, CRAWLER | 150 HP D-off | | \$528,470 | 149.14 | 30.84 | 52.85 | 4.41 | 17.02 | 445 |
| | T35CT011 | 400W-HD | TRENCHER, WHEEL TYPE CUTTER, 108" DEEP X 72" WIDE, ROUND BUCKET, CRAWLER | 175 HP D-off | | \$634,104 | 178.30 | 37.00 | 63.41 | 5.29 | 19.86 | 700 |
| T40 | TRUCK | OPTIONS | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | CRANES / HOISTS, PERSONNEL & M | ATERIAL HAND | LING | | | | | | | |
| | | | AUTO CRANE CO. | | | | | | | | | |
| | T40AH001 | AC8-59 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3- ARM ARTICULATING, 3.5 TON, 32' BOOM (ADD 21,000 GVW TRUCK & FLATBED) | | | \$29,473 | 7.12 | 1.73 | 2.95 | 0.25 | 0.00 | 2 |
| | T40AH003 | AC15-101 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3- ARM ARTICULATING, 6.6 TON, 36' BOOM (ADD 32,500 GVW TRUCK & FLATBED) | | | \$43,683 | 10.41 | 2.55 | 4.37 | 0.36 | 0.00 | 3 |
| | T40AH004 | AC20-142 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3- ARM ARTICULATING, 8.6 TON, 41' BOOM (ADD 46,000 GVW TRUCK & FLATBED) | | | \$54,030 | 12.82 | 3.15 | 5.40 | 0.45 | 0.00 | 8 |
| | | | PALFINGER INC. | | | | | | | | | |
| | T40PA007 | PK 22002-EH | TRUCK OPTIONS, CRANE, HYDRAULIC, 3- ARM ARTICULATING, 8.3 TON, 70' BOOM (ADD 30,000 GVW TRUCK & FLATBED) | | | \$51,407 | 12.22 | 3.00 | 5.14 | 0.43 | 0.00 | 51 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|---|----------------------|--------------------|----------------|------------------|---------|-------|------------------|------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T40 | | | PALFINGER INC. (continued) | | | | | | | | | |
| | T40PA001 | PC 2700 | TRUCK OPTIONS, CRANE, HYDRAULIC, 2- ARM ARTICULATING, 2.4 TON, 21' BOOM (ADD 25,000 GVW TRUCK & FLATBED) | | | \$7,773 | 2.05 | 0.45 | 0.78 | 0.06 | 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) | | | \$40,635 | 9.69 | 2.37 | 4.06 | 0.34 | 0.00 | 35 |
| | T40PA004 | PK 30002 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3- ARM ARTICULATING, 10 TON, 69' BOOM (ADD 52,000 GVW TRUCK & FLATBED) | | | \$52,548 | 12.49 | 3.07 | 5.25 | 0.44 | 0.00 | 61 |
| | T40PA005 | PK 50002-EH | TRUCK OPTIONS, CRANE, HYDRAULIC, 2- ARM ARTICULATING, 12.5 TON, 82' BOOM (ADD 60,000 GVW TRUCK & FLATBED) | | | \$101,132 | 23.80 | 5.90 | 10.11 | 0.84 | 0.00 | 1,072 |
| | T40PA006 | PK 65002-SH | TRUCK OPTIONS, CRANE, HYDRAULIC, 2- ARM ARTICULATING, 22 TON, 82' BOOM (ADD 62,000 GVW TRUCK & FLATBED) | | | \$114,643 | 26.95 | 6.69 | 11.46 | 0.96 | 0.00 | 126 |
| | SUBCAT | EGORY 0.20 | DUMP BODY, REAR | | | | | | | | | |
| | | GALIO | N DUMP BODIES, INC. | | | | | | | | | |
| | T40GN001 | BODY502 PACKAGE 89-F | TRUCK OPTIONS, DUMP BODY, REAR, 16- 23.5 CY (W/HOIST) (ADD 36,000 GVW TRUCK) | | | \$17,125 | 3.92 | 1.10 | 1.93 | 0.13 | 0.00 | 42 |
| | | MIDLAND | MANUFACTURING INC. | | | | | | | | | |
| | T40MY002 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 7.5 CY, AIR GATE (W/HOIST) (ADD 30,000 GVW TRUCK) | | | \$5,698 | 1.30 | 0.36 | 0.64 | 0.04 | 0.00 | 21 |
| | T40MY003 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 8.9 CY, AIR GATE (W/HOIST) (ADD 27,000 GVW TRUCK) | | | \$7,078 | 1.63 | 0.46 | 0.80 | 0.06 | 0.00 | 26 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T40 | | | MIDLAND MANUFACTURING INC. (continued) | | | | | | | | | |
| | T40MY004 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 10.0 CY, AIR GATE (W/HOIST) (ADD 35,000 GVW TRUCK) | | | \$8,196 | 1.87 | 0.52 | 0.92 | 0.06 | 0.00 | 31 |
| | T40MY005 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 13.6 CY, AIR GATE (W/HOIST) (ADD 35,000 GVW TRUCK) | | | \$11,529 | 2.65 | 0.74 | 1.30 | 0.09 | 0.00 | 33 |
| | T40MY006 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 20.0 CY, AIR GATE (W/HOIST) (ADD 50,000 GVW TRUCK) | | | \$13,139 | 3.01 | 0.84 | 1.48 | 0.10 | 0.00 | 40 |
| | SUBCAT | EGORY 0.30 | FLATBEDS, WITH SIDES | | | | | | | | | |
| | | KNAPHEII | DE MANUFACTURING CO. | | | | | | | | | |
| | T40KF011 | 8' VALUE MASTER PLAT | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 8' | | | \$4,840 | 0.97 | 0.28 | 0.48 | 0.04 | 0.00 | 11 |
| | T40KF013 | 10' VALUE MASTER PLA | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 10' | | | \$5,181 | 1.04 | 0.30 | 0.52 | 0.04 | 0.00 | 14 |
| | T40KF014 | 12' VALUE MASTER | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 12' | | | \$5,615 | 1.13 | 0.33 | 0.56 | 0.05 | 0.00 | 16 |
| | T40KF016 | 16' VALUE MASTER | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 16' | | | \$6,780 | 1.37 | 0.40 | 0.68 | 0.06 | 0.00 | 16 |
| | T40KF018 | 20' VALUE MASTER | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 20' | | | \$8,049 | 1.62 | 0.47 | 0.80 | 0.07 | 0.00 | 18 |
| | T40KF020 | 24' VALUE MASTER | TRUCK OPTIONS, FLATBED, W/40" SIDE RACKS, 8' X 24' | | | \$9,670 | 1.95 | 0.57 | 0.97 | 0.08 | 0.00 | 20 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|--------|------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.41 | HOIST, ELECTRIC DRIVE | | | | | | | | | | |
| | | KNAPHEI | DE MANUFACTURING CO. | | | | | | | | | | |
| | T40KF021 | KH-1416L | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, PTO, 10' TO 14', 7-16 TON | | | | \$4,787 | 1.14 | 0.28 | 0.48 | 0.04 | 0.00 | 6 |
| | T40KF023 | KH-1416-EE | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, 10' TO 14', 7-16 TON | | | | \$3,474 | 0.81 | 0.21 | 0.35 | 0.03 | 0.00 | 6 |
| | T40KF024 | KH-1627L-EE | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, 15' TO 20', 14-37 TON | | | | \$5,047 | 1.14 | 0.29 | 0.50 | 0.04 | 0.00 | 10 |
| | T40KF022 | KH-2538L | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, PTO, 20' TO 24', 20-45 TON | | | | \$8,585 | 1.96 | 0.50 | 0.86 | 0.07 | 0.00 | 15 |
| | SUBCAT | EGORY 0.50 | TRANSIT MIXERS | | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | T40XX034 | RDTM-8 | TRANSIT MIXER, 8 CY, HYDROSTATIC, 100 GAL, (INCLUDES 60,000 GVW TRUCK) | 235 HP | D-on | | \$161,851 | 71.41 | 9.91 | 17.20 | 1.31 | 30.52 | 266 |
| | T40XX035 | RDTM-9 | TRANSIT MIXER, 9 CY, HYDROSTATIC, 100 GAL, (INCLUDES 66,000 GVW TRUCK) | 250 HP | D-on | | \$164,436 | 74.23 | 10.07 | 17.47 | 1.33 | 32.47 | 270 |
| | T40XX036 | RDTM-10 | TRANSIT MIXER, 10 CY, HYDROSTATIC, 100 GAL, (INCLUDES 66,000 GVW TRUCK) | 285 HP | D-on | | \$172,440 | 81.27 | 10.55 | 18.32 | 1.39 | 37.02 | 274 |
| | T40XX037 | RDTM-11 | TRANSIT MIXER, 11 CY, HYDROSTATIC, 100 GAL, (INCLUDES 70,000 GVW TRUCK) | 285 HP | D-on | | \$193,576 | 86.01 | 11.86 | 20.57 | 1.57 | 37.02 | 285 |
| | T40XX038 | RDTM-12 | TRANSIT MIXER, 12 CY, HYDROSTATIC, 100 GAL, (INCLUDES 75,000 GVW TRUCK) | 285 HP | D-on | | \$202,589 | 88.02 | 12.41 | 21.53 | 1.64 | 37.02 | 295 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|---|----------------------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | SUBCATI | EGORY 0.60 | WATER TANKS | | | | | | | | | |
| | | ROSC | O, A LeeBoy COMPANY | | | | | | | | | |
| | T40RS001 | DS 2000 | TRUCK OPTIONS, WATER TANK, 2,000 GAL (ADD 28,000 GVW TRUCK) | | | \$31,917 | 6.24 | 1.77 | 2.99 | 0.27 | 0.00 | 38 |
| | T40RS002 | DS 3000 | TRUCK OPTIONS, WATER TANK, 3,000 GAL (ADD 40,000 GVW TRUCK) | | | \$32,969 | 6.45 | 1.83 | 3.09 | 0.28 | 0.00 | 45 |
| | T40RS003 | DS 4000 | TRUCK OPTIONS, WATER TANK, 4,000 GAL (ADD 50,000 GVW TRUCK) | | | \$35,455 | 6.94 | 1.97 | 3.32 | 0.31 | 0.00 | 55 |
| | SUBCATI | EGORY 0.70 | ALL OTHER OPTIONS | | | | | | | | | |
| | | AR | ROW-MASTER, INC. | | | | | | | | | |
| | T40AG001 | 1350T | TRUCK OPTIONS, GUILLOTINE CONCRETE BREAKER, W/8" DIA BREAKING TOOL AND CAB | 80 HP D-off | | \$92,828 | 30.64 | 5.27 | 8.97 | 0.78 | 9.08 | 100 |
| T45 | TRUCK | TRAILERS | | | | | | | | | | |
| | SUBCATI | EGORY 0.10 | BOTTOM DUMP | | | | | | | | | |
| | | MIDLAN | D MANUFACTURING INC. | | | | | | | | | |
| | T45MY004 | 40' MC 2000 | TRUCK TRAILER, BOTTOM DUMP, 21 CY, 28 TON, 40' - 2 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$34,328 | 7.23 | 1.48 | 2.43 | 0.26 | 0.00 | 152 |
| | T45MY005 | 40' TC 3000 | TRUCK TRAILER, BOTTOM DUMP, 21 CY, 30 TON, 40' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$46,264 | 9.72 | 1.94 | 3.17 | 0.35 | 0.00 | 138 |
| | T45MY006 | 38' MC 3000 | TRUCK TRAILER, BOTTOM DUMP, 23 CY, 30 TON, 38' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$47,515 | 9.95 | 2.00 | 3.28 | 0.36 | 0.00 | 145 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | ı | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------|---|----------------------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T45 | | | MIDLAND MANUFACTURING INC. (continued) | | | | | | | | | |
| | T45MY007 | 40' MC 3000 | TRUCK TRAILER, BOTTOM DUMP, 23 CY, 30 TON, 40' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | \$46,087 | 9.69 | 1.93 | 3.15 | 0.35 | 0.00 | 152 |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | |
| | T45XX001 | | TRUCK TRAILER, BOTTOM DUMP, 22.5 CY, 27 TON (ADD TOWING TRUCK) | | | \$43,049 | 8.77 | 2.03 | 3.40 | 0.33 | 0.00 | 122 |
| | T45XX003 | | TRUCK TRAILER, BOTTOM DUMP, 25 CY, 30 TON (ADD TOWING TRUCK) | | | \$51,940 | 10.41 | 2.50 | 4.20 | 0.40 | 0.00 | 160 |
| | SUBCAT | EGORY 0.20 | END DUMP | | | | | | | | | |
| | | MIDLAN | D MANUFACTURING INC. | | | | | | | | | |
| | T45MY015 | 28' SK2000 | TRUCK TRAILER, END DUMP, 28 CY, 36 TON, 28' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$36,645 | 7.57 | 1.60 | 2.63 | 0.28 | 0.00 | 115 |
| | T45MY016 | 32' ST 2400 | TRUCK TRAILER, END DUMP, 28 CY, 36 TON, 32' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$37,364 | 7.71 | 1.64 | 2.70 | 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) | | | \$41,470 | 8.75 | 1.69 | 2.74 | 0.32 | 0.00 | 170 |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | |
| | T45XX008 | | TRUCK TRAILER, END DUMP, 20 CY, 24 TON (ADD TOWING TRUCK) | | | \$35,567 | 7.20 | 1.64 | 2.73 | 0.27 | 0.00 | 110 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | <u> </u> | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-------------|--|----------------------|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | EGORY 0.30 | PUP TRAILER | | | | | | | | | |
| | | MIDLAN | D MANUFACTURING INC. | | | | | | | | | |
| | T45MY018 | 14' SK 2100 | TRUCK TRAILER, PUP TRAILER, 10 CY, 13 TON, 14' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$24,659 | 6.04 | 1.16 | 1.94 | 0.19 | 0.00 | 80 |
| | T45MY019 | 14' SL 2100 | TRUCK TRAILER, PUP TRAILER, 12 CY, 15 TON, 14' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | \$24,462 | 6.00 | 1.15 | 1.92 | 0.19 | 0.00 | 80 |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | |
| | T45XX009 | | TRUCK TRAILER, PUP TRAILER, 8 CY, LONG TONGUE (ADD TOWING TRUCK) | | | \$32,343 | 7.58 | 1.78 | 3.05 | 0.25 | 0.00 | 86 |
| | T45XX010 | | TRUCK TRAILER, PUP TRAILER, 10 CY, LONG TONGUE (ADD TOWING TRUCK) | | | \$35,727 | 8.31 | 2.00 | 3.43 | 0.28 | 0.00 | 86 |
| | T45XX032 | | TRUCK TRAILER, PUP TRAILER, 13 CY, 14.5 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$43,385 | 9.97 | 2.56 | 4.44 | 0.34 | 0.00 | 92 |
| | T45XX033 | | TRUCK TRAILER, PUP TRAILER, 16 CY, 18.0 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$53,433 | 12.29 | 3.13 | 5.42 | 0.42 | 0.00 | 100 |
| | SUBCAT | EGORY 0.41 | LOWBOY, RIGID NECK, DROP DECK | | | | | | | | | |
| | | | EAGER BEAVER | | | | | | | | | |
| | T45EA006 | 35GSL-BR | TRUCK TRAILER, LOWBOY, 35 TON, 2 AXLE, DETATCHABLE GOOSENECK (ADD TOWING TRUCK) | | | \$49,524 | 9.35 | 2.20 | 3.64 | 0.38 | 0.00 | 171 |
| | T45EA007 | 50GSL/3 | TRUCK TRAILER, LOWBOY, 50 TON, 3 AXLE, DETATCHABLE GOOSENECK (ADD TOWING TRUCK) | | | \$66,807 | 12.58 | 2.90 | 4.78 | 0.51 | 0.00 | 205 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------|---|-----------|---------|----------------|---------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | NO S | PECIFIC MANUFACTURER | | | | | | | | | |
| | T45XX011 | | TRUCK TRAILER, LOWBOY, 25 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$35,775 | 6.59 | 1.67 | 2.80 | 0.27 | 0.00 | 95 |
| | T45XX012 | | TRUCK TRAILER, LOWBOY, 30 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$38,030 | 6.96 | 1.80 | 3.01 | 0.29 | 0.00 | 115 |
| | T45XX013 | | TRUCK TRAILER, LOWBOY, 35 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$39,864 | 7.31 | 1.86 | 3.12 | 0.30 | 0.00 | 110 |
| | T45XX014 | | TRUCK TRAILER, LOWBOY, 35 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$48,662 | 8.98 | 2.25 | 3.75 | 0.37 | 0.00 | 127 |
| | T45XX015 | | TRUCK TRAILER, LOWBOY, 40 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$182,255 | 30.34 | 9.28 | 15.78 | 1.39 | 0.00 | 136 |
| | T45XX016 | | TRUCK TRAILER, LOWBOY, 50 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$101,621 | 17.55 | 5.00 | 8.44 | 0.78 | 0.00 | 145 |
| | T45XX017 | | TRUCK TRAILER, LOWBOY, 60 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$143,946 | 24.44 | 7.17 | 12.14 | 1.10 | 0.00 | 175 |
| | T45XX018 | | TRUCK TRAILER, LOWBOY, 65 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$157,411 | 26.59 | 7.88 | 13.35 | 1.20 | 0.00 | 213 |
| | T45XX019 | | TRUCK TRAILER, LOWBOY, 75 TON, 3 AXLE (ADD TOWING TRUCK) | | | \$68,395 | 12.37 | 3.19 | 5.34 | 0.52 | 0.00 | 220 |
| | T45XX020 | | TRUCK TRAILER, LOWBOY, 80 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$66,669 | 12.32 | 3.04 | 5.06 | 0.51 | 0.00 | 268 |
| | T45XX021 | | TRUCK TRAILER, LOWBOY, 90 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$72,407 | 13.24 | 3.34 | 5.58 | 0.55 | 0.00 | 293 |
| | T45XX022 | | TRUCK TRAILER, LOWBOY, 100 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$81,512 | 14.87 | 3.75 | 6.25 | 0.62 | 0.00 | 312 |
| | T45XX023 | | TRUCK TRAILER, LOWBOY, 120 TON, 4 AXLE (ADD TOWING TRUCK) | | | \$97,472 | 17.68 | 4.46 | 7.44 | 0.74 | 0.00 | 350 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | ENGINE HO AND FUE | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|----|----------|-------------|---|----------------------|--------------------|----------------|---------|---------|------|------------------|------|-----|
| ΑT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCAT | TEGORY 0.50 | FLATBED TRAILER | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | T45XX025 | | TRUCK TRAILER, FLATBED, 25 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$33,952 | 6.07 | 1.56 | 2.59 | 0.26 | 0.00 | 110 |
| | T45XX034 | 32 | TRUCK TRAILER, FLATBED, 40 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$33,346 | 6.26 | 1.52 | 2.53 | 0.25 | 0.00 | 103 |
| | T45XX035 | 40 | TRUCK TRAILER, FLATBED, 40 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$35,443 | 6.60 | 1.63 | 2.72 | 0.27 | 0.00 | 110 |
| | SUBCAT | TEGORY 0.60 | MISCELLANEOUS / UTILITY | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | T45XX026 | | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 12 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$19,202 | 3.74 | 0.90 | 1.50 | 0.15 | 0.00 | 62 |
| | T45XX027 | | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 16 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$21,701 | 4.22 | 1.00 | 1.65 | 0.17 | 0.00 | 65 |
| | T45XX028 | | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 20 TON, 2 AXLE (ADD TOWING TRUCK) | | | \$24,984 | 4.90 | 1.10 | 1.81 | 0.19 | 0.00 | 67 |
| | T45XX024 | | TRUCK TRAILER, MISCELLANEOUS/UTILITY, ATTACHMENT, HELPER DOLLY, 60 TON TRAILER MAX (ADD TOWING TRUCK) | | | \$31,302 | 5.63 | 1.42 | 2.35 | 0.24 | 0.00 | 62 |
| | SUBCAT | TEGORY 0.70 | WATER TANKER TRAILER | | | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | |
| | T45XX029 | | TRUCK TRAILER, WATER TANKER, 4,000 GAL, W/PUMP (ADD TOWING TRUCK) | 63 HP D-off | | \$88,451 | 22.21 | 3.95 | 6.40 | 0.75 | 7.15 | 170 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | NE HOI | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------------|--|--------|--------|--------------------|----------------|------------------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | M | AIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T45 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | T45XX030 | | TRUCK TRAILER, WATER TANKER, 5,000 GAL, W/PUMP (ADD TOWING TRUCK) | 63 HP | D-off | | \$88,416 | 22.45 | 3.83 | 6.16 | 0.75 | 7.15 | 240 |
| | T45XX031 | | TRUCK TRAILER, WATER TANKER, 6,000 GAL, W/PUMP (ADD TOWING TRUCK) | 63 HP | D-off | | \$107,199 | 25.43 | 4.70 | 7.57 | 0.91 | 7.15 | 250 |
| | SUBCAT | EGORY 0.90 | TANK TRAILERS | | | | | | | | | | |
| | | | GRACO, INC. | | | | | | | | | | |
| | T45G1001 | 28' GOOSENECK | TRAILER, FOAM SPRAY RIG, 40 KW GENERATOR, AIR COMPESSOR, 410' HOSE, ETC. | 75 HP | D-off | | \$112,513 | 28.69 | 5.17 | 8.44 | 0.95 | 8.51 | 160 |
| | T45G1002 | 16' TRAILER | TRAILER, FOAM SPRAY RIG, 40 KW GENERATOR, AIR COMPESSOR, 160' HOSE, ETC. | 75 HP | D-off | | \$56,599 | 19.15 | 2.60 | 4.24 | 0.48 | 8.51 | 140 |
| T50 | TRUCK | S, HIGHWA | (Add attachments as required) | | | | | | | | | | |
| | SUBCAT | EGORY 0.01 | 0 THRU 10,000 GVW | | | | | | | | | | |
| | | GM | C AND CHEVROLET | | | | | | | | | | |
| | T50GM001 | S10 | TRUCK, HIGHWAY, 3,500 GVW, 4X2 (COMPACT) | 120 HP | G | | \$18,592 | 11.37 | 1.03 | 1.74 | 0.16 | 6.33 | 26 |
| | T50GM004 | R26 | TRUCK, HIGHWAY, 8,600 GVW, 4X2 (SUBURBAN) | 285 HP | G | | \$41,346 | 26.27 | 2.36 | 4.02 | 0.35 | 15.04 | 50 |
| | T50GM005 | V26 | TRUCK, HIGHWAY, 8,600 GVW, 4X4 (SUBURBAN) | 285 HP | G | | \$44,448 | 26.96 | 2.54 | 4.33 | 0.37 | 15.04 | 52 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | l | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|--------|------|--------------------|----------------|------------------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | | NO SPI | ECIFIC MANUFACTURER | | | | | | | | | | |
| | T50XX001 | 4X2 1/2 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X2 | 130 HP | G | | \$18,077 | 11.89 | 0.98 | 1.66 | 0.15 | 6.86 | 45 |
| | T50XX002 | 4X2 3/4 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X2 | 130 HP | G | | \$21,565 | 12.62 | 1.21 | 2.05 | 0.18 | 6.86 | 40 |
| | T50XX003 | 4X2 1 180 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X2 | 180 HP | G | | \$24,510 | 16.28 | 1.37 | 2.33 | 0.20 | 9.50 | 41 |
| | T50XX004 | 4X4 1/2 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X4 | 130 HP | G | | \$21,678 | 12.70 | 1.19 | 2.02 | 0.18 | 6.86 | 43 |
| | T50XX005 | 4X4 3/4 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X4 | 130 HP | G | | \$25,427 | 13.48 | 1.43 | 2.44 | 0.21 | 6.86 | 45 |
| | T50XX006 | 4X4 1 180 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X4 | 180 HP | G | | \$26,257 | 16.68 | 1.47 | 2.50 | 0.22 | 9.50 | 41 |
| | T50XX007 | 4X2 1/2 130 CREW GAS | TRUCK, HIGHWAY, CREW, 1/2 TON PICKUP, 4X2 | 130 HP | G | | \$19,073 | 12.11 | 1.04 | 1.76 | 0.16 | 6.86 | 45 |
| | T50XX008 | 4X2 3/4 130 CREW GAS | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X2 | 130 HP | G | | \$22,912 | 12.91 | 1.28 | 2.18 | 0.19 | 6.86 | 47 |
| | T50XX009 | 4X2 1 180 CREW GAS | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X2 | 180 HP | G | | \$28,065 | 17.07 | 1.58 | 2.69 | 0.23 | 9.50 | 45 |
| | T50XX010 | 4X4 1/2 130 CREW GAS | TRUCK, HIGHWAY, CREW, 1/2 TON PICKUP, 4X4 | 130 HP | G | | \$25,727 | 13.59 | 1.43 | 2.43 | 0.21 | 6.86 | 48 |
| | T50XX011 | 4X4 3/4 180 CREW GAS | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X4 | 180 HP | G | | \$27,649 | 16.96 | 1.56 | 2.66 | 0.23 | 9.50 | 55 |
| | T50XX012 | 4X4 1 180 CREW GAS | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X4 | 180 HP | G | | \$28,877 | 17.26 | 1.63 | 2.77 | 0.24 | 9.50 | 45 |
| | T50XX013 | 4X2 1/2 75 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X2 | 75 HP | D-on | | \$23,326 | 7.70 | 1.29 | 2.19 | 0.19 | 2.20 | 39 |
| | T50XX014 | 4X2 3/4 75 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X2 | 75 HP | D-on | | \$25,841 | 8.22 | 1.46 | 2.48 | 0.22 | 2.20 | 40 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | REGION 1 | | | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMEN | | |
|-----|----------|-------------------------|--|-----------|-------|--------------------|----------------|---------|---------|------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | ΙN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| T50 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | T50XX015 | 4X2 1 130 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X2 | 130 HP | D-on | | \$29,766 | 10.91 | 1.68 | 2.86 | 0.25 | 3.81 | 43 |
| | T50XX016 | 4X4 1/2 130 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X4 | 130 HP | D-on | | \$27,766 | 10.49 | 1.55 | 2.63 | 0.23 | 3.81 | 43 |
| | T50XX017 | 4X4 3/4 130 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X4 | 130 HP | D-on | | \$28,040 | 10.51 | 1.58 | 2.70 | 0.23 | 3.81 | 45 |
| | T50XX018 | CONV DSL 4X4 1 130 | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X4 | 130 HP | D-on | | \$33,513 | 11.73 | 1.90 | 3.23 | 0.28 | 3.81 | 49 |
| | T50XX019 | 4X2 3/4 130 CREW DSL | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X2 | 130 HP | D-on | | \$26,834 | 10.23 | 1.51 | 2.58 | 0.22 | 3.81 | 47 |
| | T50XX020 | 4X4 3/4 130 CREW DSL | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP 4X4 | 130 HP | D-on | | \$32,437 | 11.48 | 1.84 | 3.14 | 0.27 | 3.81 | 55 |
| | T50XX021 | 4X2 1 130 CREW DSL | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X2 | 130 HP | D-on | | \$29,436 | 10.83 | 1.66 | 2.82 | 0.25 | 3.81 | 48 |
| | SUBCAT | EGORY 0.02 | OVER 10,000 THRU 30,000 GVW (Cha | ssis only | - Add | options) | | | | | | | |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | |
| | T50XX023 | 4X2 20KGVW GAS | TRUCK, HIGHWAY, 20,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 210 HP | G | | \$46,222 | 37.16 | 2.13 | 3.49 | 0.38 | 25.33 | 70 |
| | T50XX024 | 4X2 25KGVW GAS | TRUCK, HIGHWAY, 25,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 210 HP | G | | \$40,259 | 36.14 | 1.84 | 3.01 | 0.33 | 25.33 | 72 |
| | T50XX022 | 4X2 25KGVW DSL | TRUCK, HIGHWAY, 25,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 180 HP | D-on | | \$58,654 | 24.68 | 2.72 | 4.48 | 0.48 | 12.82 | 88 |
| | T50XX025 | 4X4 30KGVW DSL | TRUCK, HIGHWAY, 30,000 LBS GVW, 2 AXLE, 4X4 (CHASSIS ONLY-ADD OPTIONS) | 170 HP | D-on | | \$77,185 | 27.20 | 3.56 | 5.85 | 0.63 | 12.11 | 97 |
| | T50XX026 | 4X2 30KGVW DSL | TRUCK, HIGHWAY, 30,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 210 HP | D-on | | \$78,490 | 30.61 | 3.62 | 5.96 | 0.64 | 14.96 | 105 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|-------------------|--|-----------|------|--------------------|----------------|------------------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAI | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T50 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | |
| | T50XX035 | 4X2 30KGVW DSL | TRUCK, HIGHWAY, 30,000 LBS GVW, 2 AXLE, 4X2, WITH 3-ARM ARTICULATING CRANE, 3.5 TON, 32' BOOM, WITH 8' X 20' FLATBED | 210 HP | D-on | | \$108,907 | 35.80 | 5.09 | 8.39 | 0.89 | 14.96 | 135 |
| | SUBCAT | EGORY 0.03 | OVER 30,000 GVW (Chassis only - Ad | d options | 5) | | | | | | | | |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | • | |
| | T50XX027 | 4X2 35KGVW DSL | TRUCK, HIGHWAY, 35,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 265 HP | D-on | | \$124,477 | 48.53 | 5.02 | 8.03 | 1.00 | 26.65 | 126 |
| | T50XX032 | 4X2 35KGVW DSL | DUMP TRUCK, HIGHWAY, 35,000 LBS GVW, 2 AXLE, 4X2 WITH REAR 10 - 13 CY DUMP BODY | 265 HP | D-on | | \$135,169 | 50.06 | 5.46 | 8.74 | 1.09 | 26.65 | 160 |
| | T50XX028 | 6X4 45KGVW DSL | TRUCK, HIGHWAY, 45,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | 230 HP | D-on | | \$124,763 | 44.78 | 4.97 | 7.91 | 1.01 | 23.13 | 135 |
| | T50XX029 | 6X4 55KGVW DSL | TRUCK, HIGHWAY, 50,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | 310 HP | D-on | | \$115,106 | 52.54 | 4.57 | 7.27 | 0.93 | 31.17 | 144 |
| | T50XX030 | 6X6 70KGVW DSL | TRUCK, HIGHWAY, 70,000 LBS GVW, 3 AXLE, 6X6 (CHASSIS ONLY-ADD OPTIONS) | 350 HP | D-on | | \$146,597 | 61.63 | 5.87 | 9.37 | 1.18 | 35.20 | 180 |
| | T50XX031 | 6X4 75KGVW DSL | TRUCK, HIGHWAY, 75,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | 400 HP | D-on | | \$135,097 | 65.69 | 5.39 | 8.59 | 1.09 | 40.22 | 197 |
| | T50XX033 | 6X4 75KGVW DSL | DUMP TRUCK, HIGHWAY, 75,000 LBS GVW, 3 AXLE, 6X4 WITH REAR 16 - 20 CY DUMP BODY | 400 HP | D-on | | \$147,322 | 67.45 | 5.90 | 9.41 | 1.19 | 40.22 | 240 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|----|----------|-------------|--|----------|-------|--------------------|----------------|------------------|---------|--------|-----------------|--------|------|
| ιT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CW |
| 5 | TRUCKS | S, OFF-HIGH | HWAY | | | | | | | | | | |
| | | EGORY 0.10 | RIGID FRAME | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | T55CA007 | 770 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 31.7 CY, 41.6 TON, 4X4, REAR DUMP | 487 HP | D-off | | \$678,294 | 119.11 | 18.64 | 27.04 | 5.12 | 30.30 | 66 |
| | T55CA002 | 773F | TRUCK, OFF-HIGHWAY, RIGID FRAME, 46.9 CY, 57.7 TON, 4X4, REAR DUMP | 650 HP | D-off | | \$895,471 | 149.49 | 24.38 | 35.24 | 6.76 | 40.44 | 87 |
| | T55CA003 | 777G | TRUCK, OFF-HIGHWAY, RIGID FRAME, 78.6 CY, 100 TON, 4X4, REAR DUMP | 938 HP | D-off | | \$1,300,151 | 223.73 | 34.29 | 48.94 | 9.82 | 58.36 | 1,41 |
| | | Komatsu An | nerica International Company | | | | | | | | | | |
| | T55KM009 | HD325-6A | TRUCK, OFF-HIGHWAY, RIGID FRAME, 31.4 CY, 44 TON, 4X4, REAR DUMP | 488 HP | D-off | | \$500,224 | 100.63 | 13.52 | 19.48 | 3.78 | 30.36 | 70 |
| | T55KM012 | HD785-5 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 78.7 CY, 100 TON, 4X4, REAR DUMP | 1,042 HP | D-off | | \$1,031,550 | 203.27 | 26.55 | 37.52 | 7.79 | 64.83 | 1,54 |
| | T55KM013 | HD1500-5 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 102 CY, 165 TON, 4X4, REAR DUMP | 1,486 HP | D-off | | \$2,390,794 | 373.48 | 66.28 | 96.46 | 18.05 | 92.46 | 5,50 |
| | T55KM014 | 730E | TRUCK, OFF-HIGHWAY, RIGID FRAME, 145 CY, 205 TON, 4X4, REAR DUMP | 2,000 HP | D-off | | \$2,826,693 | 462.10 | 77.91 | 113.13 | 21.34 | 124.44 | 7,15 |
| | SUBCATE | EGORY 0.20 | ARTICULATED FRAME | | | | | | | | | | |
| | | CATERPILLA | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | T55CA014 | 725 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 6X6, REAR DUMP | 214 HP | D-off | | \$385,854 | 77.33 | 15.61 | 25.23 | 2.99 | 18.80 | 42 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|---------|--|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN. | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T55 | | | CATERPILLAR INC. (MACHINE DIVISION) (continued) | | | | | | | | | | |
| | T55CA015 | 730 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 30 TON, 4X4, REAR DUMP | 285 HP | D-off | | \$441,360 | 92.30 | 17.85 | 28.86 | 3.42 | 25.03 | 473 |
| | T55CA016 | 735 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 30 TON, 6X6, REAR DUMP | 260 HP | D-off | | \$533,671 | 103.49 | 21.58 | 34.89 | 4.13 | 22.84 | 488 |
| | T55CA017 | 735B | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 25 CY, 35 TON, 6X6, REAR DUMP | 355 HP | D-off | | \$600,868 | 122.50 | 24.30 | 39.29 | 4.65 | 31.18 | 667 |
| | T55CA018 | 740 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 28 CY, 40 TON, 6X6, REAR DUMP | 405 HP | D-off | | \$617,173 | 129.70 | 24.96 | 40.35 | 4.78 | 35.58 | 698 |
| | | | DEERE & COMPANY | | | | | | | | | | |
| | T55JD001 | 250D-11 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 6X6, REAR DUMP | 265 HP | D-off | | \$384,971 | 88.08 | 14.85 | 23.73 | 2.98 | 23.28 | 355 |
| | T55JD002 | 300D-11 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 29 TON, 6X6, REAR DUMP | 285 HP | D-off | | \$427,192 | 96.21 | 16.56 | 26.49 | 3.31 | 25.03 | 401 |
| | T55JD003 | 370E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 26.8 CY, 37 TON, 6X6, REAR DUMP | 380 HP | D-off | | \$569,519 | 136.68 | 21.06 | 33.30 | 4.41 | 33.38 | 571 |
| | T55JD004 | 410E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 29.7 CY, 41 TON, 6X6, REAR DUMP | 413 HP | D-off | | \$617,978 | 142.90 | 23.51 | 37.45 | 4.78 | 36.28 | 635 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | ENGINE HO | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-----------|---|--------------|--------------------|----------------|------------------|---------|-------|-----------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| | | Komatsu | America International Company | | | | | | | | | |
| | T55KM015 | HM350-2 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 19.1-25.9 CY, 35.7 TON, 6 X 6 X 2, REAR DUMP | 389 HP D-off | | \$396,016 | 112.00 | 14.04 | 21.96 | 3.06 | 34.17 | 630 |
| | T55KM016 | HM400-2 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 21.6-29.2 CY, 40.3 TON, 6 X 6 X 2, REAR DUMP | 430 HP D-off | | \$501,178 | 127.33 | 18.79 | 29.81 | 3.88 | 37.77 | 668 |
| | , | VOLVO CON | ISTRUCTION EQUIPMENT GROUP | | | | | | | | | |
| | T55VO002 | A-25E 4X4 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 14-18 CY, 25 TON, 4X4, REAR DUMP | 299 HP D-off | | \$392,110 | 95.03 | 14.84 | 23.61 | 3.03 | 26.26 | 429 |
| | T55VO003 | A-25E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 14-18 CY, 25 TON, 6X6, REAR DUMP | 299 HP D-off | | \$413,613 | 95.56 | 16.01 | 25.61 | 3.20 | 26.26 | 475 |
| | T55VO005 | A-30E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 17-22 CY, 30 TON, 6X6, REAR DUMP | 336 HP D-off | | \$484,837 | 107.66 | 19.00 | 30.50 | 3.75 | 29.51 | 508 |
| | T55VO004 | A-35E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 19-25 CY, 35 TON, 6X6, REAR DUMP | 414 HP D-off | | \$599,672 | 138.14 | 23.03 | 36.77 | 4.64 | 36.37 | 620 |
| | T55VO006 | A-40E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 21-29 CY, 40 TON, 6X6, REAR DUMP | 464 HP D-off | | \$665,664 | 161.89 | 24.59 | 38.87 | 5.15 | 40.76 | 666 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | | E HORSE FUEL T | EPOWER YPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-----------------------|---|----------|-------------------|---------------|----------------|---------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | 1 (| CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T56 | TRUCK | S,OFF-HIGH | IWAY/PRIME MOVER TRACTORS | & WAG | ONS | | | | | | | | |
| | SUBCAT | EGORY 0.10 | PRIME MOVER TRACTORS | | | | | | | | | | |
| | | CATERPILL | AR INC. (MACHINE DIVISION) | | | | | | | | | | |
| | T56CA006 | 776D | TRUCK, OFF-HIGHWAY, RIGID FRAME, PRIME MOVER TRACTOR, 4X4 | 938 HP I | D-off | | \$1,445,066 | 250.13 | 38.46 | 55.10 | 10.91 | 65.23 | 1,164 |
| T57 | TRUCK | S, VACUUM | | | | | | | | | | | |
| | SUBCAT | EGORY 0.00 | TRUCKS, VACUUM | | | | | | | | | | |
| | | WASTE | QUIP CUSCO INDUSTRIES | | | | | | | | | | |
| | T57CU001 | INDUSTRIAL VAC 130 | TRAILER, VACUUM, 5,500 GAL, 750 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM | 76 HP I | D-off | | \$126,384 | 33.91 | 6.06 | 10.05 | 1.03 | 8.62 | 76 |
| | T57CU002 | SS INDUST. VAC 130 | TRAILER, VACUUM, 5,500 GAL, 750 CFM, STAINLESS STEEL, REAR DOOR & HYDRAULIC DUMP SYSTEM | 76 HP I | D-off | | \$155,121 | 39.31 | 7.45 | 12.35 | 1.27 | 8.62 | 76 |
| | T57CU003 | 2127 | TRUCK, VACUUM, 3,500 GAL, 2,100 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM (ADD TRUCK COST) | 300 HP I | D-off | | \$133,101 | 64.06 | 6.38 | 10.58 | 1.09 | 34.04 | 115 |
| | T57CU004 | 3827 | TRUCK, VACUUM, 3,500 GAL, 3,170 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM (ADD TRUCK COST) | 350 HP I | D-off | | \$147,593 | 73.23 | 7.08 | 11.74 | 1.21 | 39.71 | 177 |
| | T57CU005 | 5327 | TRUCK, VACUUM, 3,500 GAL, 4,550 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM (ADD TRUCK COST) | 425 HP I | D-off | | \$174,600 | 87.97 | 8.38 | 13.90 | 1.43 | 48.22 | 335 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | | REGION 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|--------|-------|--------------------|----------------|---------|---------|-------|------------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T60 | TRUCK | S, WATER, | OFF-HIGHWAY | | | | | | | | | | |
| | SUBCATI | EGORY 0.00 | TRUCKS, WATER, OFF-HIGHWAY | | | | | | | | | | |
| | | KLE | EIN PRODUCTS, INC. | | | | | | | | | | |
| | T60KI001 | KT-50 | TRUCK, WATER, OFF-HIGHWAY, 5,000 GAL, W/CAT 621G TRACTOR | 330 HP | D-off | | \$468,310 | 114.04 | 18.92 | 30.27 | 3.78 | 37.44 | 320 |
| | T60KI002 | KT-60 | TRUCK, WATER, OFF-HIGHWAY, 6,000 GAL, W/CAT 621G TRACTOR | 330 HP | D-off | | \$339,720 | 102.62 | 12.60 | 19.72 | 2.74 | 37.44 | 580 |
| | T60KI003 | KT-80 | TRUCK, WATER, OFF-HIGHWAY, 8,000 GAL, W/CAT 631G TRACTOR | 462 HP | D-off | | \$476,355 | 144.25 | 17.60 | 27.52 | 3.84 | 52.42 | 751 |
| | T60KI004 | KT-100 | TRUCK, WATER, OFF-HIGHWAY, 10,000 GAL, W/CAT 631G TRACTOR | 462 HP | D-off | | \$676,439 | 173.26 | 25.88 | 40.86 | 5.45 | 52.42 | 811 |
| | T60KI006 | KT-140 | TRUCK, WATER, OFF-HIGHWAY, 14,000 GAL, W/CAT 651G TRACTOR | 564 HP | D-off | | \$993,955 | 232.74 | 39.02 | 62.01 | 8.01 | 63.99 | 1,097 |
| | S | OUTHWEST C | ONSTRUCTION EQUIPMENT CO. | | | | | | | | | | |
| | T60SO001 | STT-60 | TRUCK, WATER, OFF-HIGHWAY, 6,000 GAL, W/CAT 621E TRACTOR | 330 HP | D-off | | \$511,705 | 127.56 | 19.73 | 31.19 | 4.13 | 37.44 | 610 |
| | T60SO002 | STT-80 | TRUCK, WATER, OFF-HIGHWAY, 8,000 GAL, W/CAT 631E TRACTOR | 450 HP | D-off | | \$713,554 | 174.09 | 27.85 | 44.19 | 5.75 | 51.06 | 812 |
| | T60SO003 | STT-100 | TRUCK, WATER, OFF-HIGHWAY, 10,000 GAL, W/CAT 631E TRACTOR | 450 HP | D-off | | \$724,823 | 175.73 | 28.32 | 44.95 | 5.84 | 51.06 | 897 |
| | T60SO004 | STT-120 | TRUCK, WATER, OFF-HIGHWAY, 12,000 GAL, W/CAT 651E TRACTOR | 550 HP | D-off | | \$901,003 | 219.79 | 34.82 | 55.12 | 7.26 | 62.40 | 1,149 |
| | T60SO005 | STT-140 | TRUCK, WATER, OFF-HIGHWAY, 14,000 GAL, W/CAT 651E TRACTOR | 550 HP | D-off | | \$916,196 | 222.00 | 35.46 | 56.13 | 7.39 | 62.40 | 1,184 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|-----|-----|---|--------------------|----------------|------------------|---------|--------|-----------------|-------|-------|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAI | N | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| T65 | TUNNE | L/MINING E | QUIPMENT | | | | | | | | | | | |
| | SUBCATI | EGORY 0.10 | DRIFTING & TUNNELING DRILLS | | | | | | | | | | | |
| | | ATL | AS COPCO WAGNER | | | | | | | | | | | |
| | 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 | \$1,798,516 | 296.59 | 68.05 | 108.39 | 13.85 | 20.11 | 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 | \$2,704,691 | 429.53 | 102.54 | 163.41 | 20.83 | 20.11 | 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 | \$2,953,081 | 505.40 | 111.99 | 178.49 | 22.74 | 45.05 | 1,058 |
| W25 | WATER | & CO2 BLA | STERS | | | | | | | | | | | |
| | SUBCATI | EGORY 0.10 | LOW PRESSURE, (< 5,000 PSI) | | | | | | | | | | | |
| | | SIOUX STEA | M CLEANER CORPORATION | | | | | | | | | | | |
| | W25SD006 | S1.7 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 100 GPH, 250 PSI, 1.7 GPM | 1 | HP | E | | \$6,094 | 7.56 | 0.67 | 1.22 | 0.06 | 0.13 | 4 |
| | W25SD007 | S2 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 120 GPH, 250 PS, 2.0 GPM | 1 | HP | Е | | \$6,496 | 8.77 | 0.71 | 1.30 | 0.06 | 0.13 | 5 |
| | W25SD008 | S2.7 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 160 GPH, 250 PSI, 2.7 GPM | 1 | HP | E | | \$7,068 | 10.09 | 0.78 | 1.41 | 0.07 | 0.13 | 6 |
| | W25SD001 | C-4-E 2000 | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,000 PSI, 4 GPM | 5 | HP | E | | \$5,721 | 4.09 | 0.62 | 1.14 | 0.05 | 0.63 | 4 |
| | W25SD005 | C-4-G 2800 | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,800 PSI, 4 GPM | 12 | HP | G | | \$6,694 | 8.03 | 0.73 | 1.34 | 0.06 | 3.89 | 4 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | Е | | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|----------------|--|----|----|----|--------------------|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| W25 | | | SIOUX STEAM CLEANER CORPORATION (continued) | | | | | | | | | | | |
| | W25SD003 | C-5-G 3400 | WATER BLASTER, LOW PRESSURE, COLD WATER, 3,400 PSI, 5 GPM | 18 | HP | G | | \$8,870 | 11.41 | 0.97 | 1.77 | 0.08 | 5.84 | 5 |
| | W25SD004 | H3.5*3000 | WATER BLASTER, LOW PRESSURE, HOT WATER, 3,000 PSI, 3.5 GPM, TRAILER MTD | 8 | HP | G | | \$12,990 | 9.94 | 1.39 | 2.53 | 0.12 | 2.59 | 6 |
| | W25SD009 | SF11 | WATER BLASTER, LOW PRESSURE, STEAM GENERATOR, 15 PSI, 355 LB/HR STEAM, 55 GAL BOILER | 11 | HP | E | | \$15,653 | 16.68 | 1.71 | 3.13 | 0.14 | 1.38 | 9 |
| | W25SD002 | EN-140-H4-1800 | WATER BLASTER, LOW PRESSURE, HOT WATER, 1,800 PSI, 2.3 GPM | 3 | HP | E | | \$14,763 | 8.71 | 1.62 | 2.95 | 0.14 | 0.38 | 7 |
| | | NO SPE | CIFIC MANUFACTURER | | | | | | | | | | | |
| | W25XX005 | COLD 3/1000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 700 PSI, 3 GPM | 5 | HP | G | | \$2,142 | 2.99 | 0.24 | 0.43 | 0.02 | 1.62 | 4 |
| | W25XX006 | COLD 4/1000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 1,200 PSI, 3 GPM | 5 | HP | G | | \$2,993 | 3.46 | 0.33 | 0.60 | 0.03 | 1.62 | 4 |
| | W25XX007 | COLD 4/2000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,000 PSI, 4 GPM | 8 | HP | G | | \$4,005 | 5.10 | 0.44 | 0.80 | 0.04 | 2.59 | 2 |
| | W25XX008 | COLD 4/3000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 3,000 PSI, 4 GPM | 11 | HP | G | | \$4,175 | 6.30 | 0.46 | 0.84 | 0.04 | 3.57 | 6 |
| | W25XX009 | HOT 4/1000G | WATER BLASTER, LOW PRESSURE, HOT WATER/STEAM, 1,000 PSI, 4 GPM | 8 | HP | G | | \$8,377 | 7.52 | 0.92 | 1.68 | 0.08 | 2.59 | 6 |
| | W25XX010 | HOT 6/3000G | WATER BLASTER, LOW PRESSURE, HOT WATER/STEAM, 3,000 PSI, 6 GPM | 24 | HP | G | | \$12,831 | 15.77 | 1.41 | 2.57 | 0.12 | 7.78 | 10 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | 1 | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|-----------|---|-------|----------------|------|--------------------|----------------|------------------|---------|-------|-----------------|--------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| | SUBCATE | GORY 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | | | | | | | | | | | |
| | | NI | LB CORPORATION | | | | | | | | | | | |
| | W25NL001 | 6200E | WATER BLASTER, HIGH PRESSURE, 6,000 PSI, 50 GPM, SKID MTD, W/MODEL 10200 PUMP | 200 H | ΗP | E | | \$78,653 | 83.12 | 8.59 | 15.73 | 0.72 | 25.08 | 118 |
| | W25NL003 | 201536D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 13.2 GPM, SKID MTD, W/50 LF HOSE & CLEANING LANCE | 150 F | ∃P D | -off | | \$84,832 | 77.50 | 9.27 | 16.97 | 0.78 | 24.71 | 78 |
| | W25NL002 | 20253D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 22 GPM, SKID MTD (ADD TRUCK, FLATBED TRAILER & WATER TANKER) | 335 H | HP D | -off | | \$132,394 | 139.83 | 14.46 | 26.48 | 1.22 | 55.17 | 140 |
| | W25NL005 | 20600D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 53 GPM, SKID MTD (ADD TRUCK, FLATBED TRAILER & WATER TANKER) | 700 H | ∃P D | -off | | \$324,711 | 320.17 | 35.46 | 64.94 | 2.99 | 115.29 | 200 |
| | W25NL004 | 4400 | WATER BLASTER, HIGH PRESSURE, HYDRODEMOLITION UNIT, CONCRETE BUSTER, SELF PROPELLED (ADD MODEL 20600D WATER BLASTER) | 34 F | HP D | -off | | \$173,935 | 106.42 | 18.58 | 33.96 | 1.60 | 5.60 | 80 |
| | SUBCATE | GORY 0.30 | STEAM CLEANERS | | | | | | | | | | | |
| | | ALKOTA (| CLEANING SYSTEMS, INC. | | | | | | | | | | | |
| | W25AO002 | 122 | WATER BLASTER, STEAM CLEANER, 400 PSI, 1.7 GPM | 1 F | ΗP | E | | \$4,578 | 3.47 | 0.50 | 0.92 | 0.04 | 0.13 | 4 |
| | W25AO003 | 181 | WATER BLASTER, STEAM CLEANER, 250 PSI, 3.0 GPM | 1 H | I P | E | | \$6,662 | 4.61 | 0.73 | 1.33 | 0.06 | 0.13 | 6 |
| | W25AO004 | 240 | WATER BLASTER, STEAM CLEANER, 350 PSI, 4.0 GPM | 2 F | I P | E | | \$6,559 | 4.98 | 0.72 | 1.31 | 0.06 | 0.25 | 7 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMENT | | |
|-----|----------|------------|---|-----|-----|----|--------------------|----------------|------------------|---------|-------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| W25 | | | ALKOTA CLEANING SYSTEMS, INC. (continued) | | | | | | | | | | | |
| | W25AO005 | 301 | WATER BLASTER, STEAM CLEANER, 400 PSI, 5.0 GPM | 4 | HP | E | | \$13,273 | 9.55 | 1.45 | 2.65 | 0.12 | 0.50 | 14 |
| | W25AO006 | 246 | WATER BLASTER, STEAM GENERATOR, 100 PSI, 1.0 GPM | 1 | HP | E | | \$10,252 | 6.59 | 1.12 | 2.05 | 0.09 | 0.13 | 7 |
| | SUBCAT | EGORY 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 | E | | \$81,150 | 31.33 | 6.11 | 10.82 | 0.70 | 1.85 | 34 |
| | W25CJ002 | P1500B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 1,200 LBS/HR, SINGLE HOSE DELIVERY (ADD 65-150 CFM COMPRESSOR) | 24 | HP | E | | \$125,954 | 47.56 | 9.49 | 16.79 | 1.09 | 2.22 | 37 |
| | W25CJ003 | P3000B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 1,200 LBS/HR, DUAL HOSE DELIVERY (ADD 65-200 CFM COMPRESSOR) | 24 | HP | E | | \$199,103 | 73.12 | 15.00 | 26.55 | 1.72 | 2.22 | 66 |
| | SUBCAT | EGORY 0.50 | WET ABRASIVE BLASTING SYSTEM (| TOR | BO) | | | | | | | | | |
| | | KEIZER TEC | HNOLOGIES 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) | 350 | CFM | Α | | \$22,712 | 2.81 | 0.94 | 1.48 | 0.20 | 0.00 | 4 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | | | SEPOWER TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|----------------------------|---|---------|---|-----------------|----------------|---------|---------|------|------------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | MAIN | | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | сwт |
| W25 | | | KEIZER TECHNOLOGIES AMERICAS, INC (continued) | | | | | | | | | | |
| | W25KZ002 | TORBO M120 | WATER BLASTER, WET ABRASIVE BLASTER, 4.2 CF TANK CAP, 170 PSI, W/MIX RUST INHIBITOR INJECTOR (INCLUDES HOSES & NOZZLE, ADD 350 CFM AIR COMPRESSOR) | 350 CFM | A | | \$25,144 | 3.11 | 1.05 | 1.63 | 0.23 | 0.00 | 4 |
| | W25KZ003 | LOC RESTORATION UNIT | WATER BLASTER, WET ABRASIVE BLASTER, 4.2 CF TANK CAP, 170 PSI, W/LOC RESTORATION UNIT (INCLUDES HOSES & NOZZLE, ADD 350 CFM AIR COMPRESSOR) | 350 CFM | A | | \$25,705 | 3.18 | 1.07 | 1.67 | 0.23 | 0.00 | 4 |
| | W25KZ004 | TORBO M320 | WATER BLASTER, WET ABRASIVE BLASTER, 13.0 CF TANK CAP, 170 PSI, (INCLUDES HOSES & NOZZLE, ADD 385 CFM AIR COMPRESSOR) | 385 CFM | A | | \$36,570 | 4.53 | 1.52 | 2.38 | 0.33 | 0.00 | 8 |
| | W25KZ005 | TORBO XL320 | WATER BLASTER, WET ABRASIVE BLASTER, 13.0 CF TANK CAP, 170 PSI, (INCLUDES HOSES & NOZZLE, ADD 385 CFM AIR COMPRESSOR) | 385 CFM | А | | \$43,180 | 5.35 | 1.80 | 2.81 | 0.39 | 0.00 | 8 |
| | W25KZ006 | TORBO XL320 | WATER BLASTER, WET ABRASIVE BLASTER, 19.0 CF TANK CAP, 170 PSI, (INCLUDES HOSES & NOZZLE, ADD 385 CFM AIR COMPRESSOR) | 385 CFM | А | | \$44,010 | 5.45 | 1.83 | 2.86 | 0.40 | 0.00 | 9 |
| | W25KZ007 | TORBO XL320 | WATER BLASTER, WET ABRASIVE BLASTER, 19.0 CF TANK CAP, 170 PSI, W/MIX RUST INHIBATOR INJECTOR,(INCLUDES HOSES & NOZZLE, ADD 385 CFM AIR COMPRESSOR) | 385 CFM | A | | \$46,940 | 5.81 | 1.95 | 3.05 | 0.42 | 0.00 | 9 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | F | REGION 1 | E | | | ORSEPOW EL TYPE | ER | VALUE (TEV) | TOTAL H RATES | | | JUSTAB LEMEN | | |
|-----|----------|------------|---|----|----|----|--------------------|----|----------------|------------------|---------|------|-----------------|------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | MN | CARRI | ER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| W30 | WATER | RTANKS | | | | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | PORTABLE WITH WHEELS | | | | | | | | | | | | |
| | S | OUTHWEST C | ONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | | |
| | W30SO001 | I EWT-8C | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 8,000 GAL, 10" PIPE | 8 | HP | G | | | \$57,400 | 10.01 | 2.29 | 3.65 | 0.46 | 1.78 | 130 |
| | W30SO002 | 2 EWT-10C | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 10,000 GAL, 10" PIPE | 8 | HP | G | | | \$68,517 | 11.51 | 2.75 | 4.39 | 0.55 | 1.78 | 170 |
| | W30SO003 | 3 EWT-12C | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 12,000 GAL, 10" PIPE | 8 | HP | G | | | \$74,562 | 12.33 | 3.00 | 4.80 | 0.60 | 1.78 | 185 |
| | SUBCAT | EGORY 0.20 | SKID MOUNTED | | | | | | | | | | | | |
| | S | OUTHWEST C | ONSTRUCTION EQUIPMENT CO. | | | | | | | | | | | | |
| | W30SO004 | WST-8 | WATER TANK, PORTABLE, SKID MTD, 8,000 GAL, 10" PIPE | | | | | | \$36,769 | 4.60 | 1.53 | 2.45 | 0.30 | 0.00 | 107 |
| | W30SO005 | 5 WST-10 | WATER TANK, PORTABLE, SKID MTD, 10,000 GAL, 10" PIPE | İ | | | | | \$41,063 | 5.14 | 1.70 | 2.74 | 0.33 | 0.00 | 122 |
| | W30SO006 | 5 WST-12 | WATER TANK, PORTABLE, SKID MTD, 12,000 GAL, 10" PIPE | | | | | | \$47,371 | 5.93 | 1.96 | 3.16 | 0.38 | 0.00 | 142 |
| W35 | WELDE | ERS | | | | | | | | | | | | | |
| | SUBCAT | EGORY 0.10 | ENGINE DRIVEN | | | | | | | | | | | | |
| | | NO SPE | ECIFIC MANUFACTURER | | | | | | | | | | | | |
| | W35XX020 | GAS 150 AC | WELDER, ENGINE DRIVEN, GAS, AC, 150 AMP, 4.5 KW, PORTABLE, SKID MTD | 11 | HP | G | | | \$2,655 | 3.92 | 0.15 | 0.25 | 0.02 | 2.99 | 2 |

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| | | R | EGION 1 | E | _ | _ | RSEPOWER L TYPE | VALUE (TEV) | TOTAL H | | | JUSTAB LEMENT | | |
|-----|----------|-------------------------|--|----|----|-------|--------------------|----------------|---------|---------|------|------------------|-------|-----|
| CAT | ID.NO. | MODEL | EQUIPMENT DESCRIPTION | | MA | IN | CARRIER | 2011 (\$) | AVERAGE | STANDBY | DEPR | FCCM | FUEL | CWT |
| W35 | | | NO SPECIFIC MANUFACTURER (continued) | | | | | | | | | | | |
| | W35XX021 | GAS 225 AC/DC- CC | WELDER, ENGINE DRIVEN, GAS, AC/DC-CC, 225 AMP, 5-8 KW, TRAILER MTD | 17 | HP | G | | \$7,015 | 6.68 | 0.38 | 0.63 | 0.06 | 4.61 | 6 |
| | W35XX022 | GAS 250 AC/DC- CC/CV | WELDER, ENGINE DRIVEN, GAS, AC/DC-CC/CV, 250 AMP, 9 KW, TRAILER MTD | 18 | HP | G | | \$7,228 | 7.03 | 0.39 | 0.65 | 0.06 | 4.89 | 6 |
| | W35XX023 | GAS 300 DC-CC | WELDER, ENGINE DRIVEN, GAS, DC-CC, 300 AMP, 3 KW, TRAILER MTD | 45 | HP | G | | \$12,499 | 16.37 | 0.69 | 1.15 | 0.11 | 12.21 | 14 |
| | W35XX024 | DIESEL 400 DC- CC/CV | WELDER, ENGINE DRIVEN, DIESEL, DC-CC/CV, 400 AMP, 2-10 KW, TRAILER MTD | 48 | HP | D-off | | \$18,459 | 11.50 | 1.02 | 1.71 | 0.16 | 6.68 | 21 |
| | W35XX025 | DIESEL 500 DC- CC/CV | WELDER, ENGINE DRIVEN, DIESEL, DC-CC/CV, 500 AMP, 4 KW, TRAILER MTD | 42 | HP | D-off | | \$17,701 | 10.38 | 0.97 | 1.63 | 0.15 | 5.84 | 18 |
| | SUBCATI | EGORY 0.20 | ELECTRIC DRIVEN | | | | | | | | | | | |
| | | LINCOLI | N ELECTRIC COMPANY | | | | | | | | | | | |
| | W35LC021 | Tomahawk 1000 | WELDER, ELECTRIC DRIVEN, 60 AMP, PLASMA CUTTER WITH 25' HAND TORCH | 20 | HP | E | | \$2,912 | 1.90 | 0.23 | 0.39 | 0.03 | 0.79 | 1 |
| | W35LC018 | SP-180T | WELDER, ELECTRIC DRIVEN, 30-180 AMP, WIRE FEEDER | 5 | HP | E | | \$817 | 0.50 | 0.07 | 0.11 | 0.01 | 0.20 | 1 |
| | W35LC012 | IDEAL ARC R3R-400 | WELDER, ELECTRIC DRIVEN, 400 AMP, STICK | 35 | HP | E | | \$4,651 | 3.21 | 0.35 | 0.62 | 0.04 | 1.39 | 5 |
| | W35LC013 | IDEAL ARC R3R-500 | WELDER, ELECTRIC DRIVEN, 500 AMP, STICK | 41 | HP | E | | \$4,989 | 3.64 | 0.38 | 0.67 | 0.04 | 1.62 | 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

| REC | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|-----------------|--------|---------------|------|------|----------|--------|--------------|----------------------|---------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR REPAI | TOTAL RATE |
| | | | | | | | | | | | | | | | | |
| A10 | | | | | | | | | | | | | | | | |
| | A10AR001 | 0.45 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.89 | | | | | | | |
| | A10AR002 | 2.19 | 0.14 | 0.00 | 0.20 | 0.00 | 0.00 | 2.01 | 4.54 | | | | | | | |
| | A10RS003 | 11.75 | 1.01 | 18.91 | 2.21 | 0.74 | 0.13 | 13.57 | 48.32 | | | | | | | |
| | A10RS004 | 11.83 | 1.02 | 18.91 | 2.21 | 0.74 | 0.13 | 13.66 | 48.50 | | | | | | | |
| | A10RS005 | 11.88 | 1.02 | 18.91 | 2.21 | 0.74 | 0.13 | 13.73 | 48.62 | | | | | | | |
| | A10RS006 | 11.91 | 1.03 | 18.91 | 2.21 | 0.74 | 0.13 | 13.76 | 48.69 | | | | | | | |
| | A10RS007 | 12.06 | 1.04 | 18.91 | 2.21 | 0.74 | 0.13 | 13.92 | 49.01 | | | | | | | |
| | A10RS008 | 23.49 | 2.00 | 25.51 | 2.98 | 0.98 | 0.17 | 27.07 | 82.20 | | | | | | | |
| | A10SE001 | 1.73 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 3.43 | | | | | | | |
| | A10SE002 | 2.04 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.87 | 4.04 | | | | | | | |
| A15 | | | | | | | | | | | | | | | | |
| | A15DP001 | 1.66 | 0.17 | 7.38 | 1.01 | 0.11 | 0.02 | 1.96 | 12.31 | | | | | | | |
| | A15DP002 | 3.64 | 0.38 | 14.49 | 1.98 | 0.11 | 0.02 | 4.29 | 24.91 | | | | | | | |
| | A15DP003 | 4.80 | 0.50 | 22.93 | 3.13 | 0.18 | 0.03 | 5.65 | 37.22 | | | | | | | |
| | A15DP004 | 4.80 | 0.50 | 22.93 | 3.13 | 0.18 | 0.03 | 5.65 | 37.22 | | | | | | | |
| | A15DP010 | 15.14 | 1.56 | 52.70 | 7.20 | 0.36 | 0.06 | 17.82 | 94.84 | | | | | | | |
| | A15DP011 | 6.41 | 0.66 | 22.79 | 3.11 | 0.12 | 0.02 | 7.54 | 40.65 | | | | | | | |
| | A15DP012 | 9.83 | 1.02 | 35.58 | 4.86 | 0.27 | 0.05 | 11.58 | 63.19 | | | | | | | |
| | A15DP013 | 9.83 | 1.02 | 35.58 | 4.86 | 0.27 | 0.05 | 11.58 | 63.19 | | | | | | | |
| | A15DP014 | 16.34 | 1.69 | 40.19 | 5.49 | 0.50 | 0.09 | 19.25 | 83.55 | | | | | | | |
| | A15DP015 | 8.17 | 0.85 | 40.19 | 5.49 | 0.27 | 0.05 | 9.62 | 64.64 | | | | | | | |
| | A15SR002 | 12.42 | 1.29 | 57.97 | 7.92 | 0.54 | 0.09 | 14.65 | 94.88 | | | | | | | |
| | A15SR004 | 1.03 | 0.11 | 10.28 | 1.40 | 0.11 | 0.02 | 1.22 | 14.17 | | | | | | | |
| | A15SR005 | 1.40 | 0.15 | 10.54 | 1.44 | 0.11 | 0.02 | 1.65 | 15.31 | | | | | | | |
| | A15SR006 | 1.03 | 0.11 | 10.01 | 1.37 | 0.11 | 0.02 | 1.22 | 13.87 | | | | | | | |
| | A15SR007 | 1.04 | 0.11 | 10.15 | 1.39 | 0.11 | 0.02 | 1.23 | 14.05 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | A15SR008 | 2.39 | 0.25 | 16.21 | 2.21 | 0.18 | 0.03 | 2.82 | 24.09 | | | | | | | |
| | A15SR009 | 2.39 | 0.25 | 16.34 | 2.23 | 0.18 | 0.03 | 2.82 | 24.24 | | | | | | | |
| | A15SR010 | 5.14 | 0.54 | 30.30 | 4.14 | 0.36 | 0.06 | 6.08 | 46.62 | | | | | | | |
| | A15SR011 | 6.07 | 0.64 | 39.53 | 5.40 | 0.36 | 0.06 | 7.17 | 59.23 | | | | | | | |
| | A15SR012 | 5.98 | 0.63 | 39.53 | 5.40 | 0.36 | 0.06 | 7.06 | 59.02 | | | | | | | |
| | A15SR013 | 10.69 | 1.11 | 59.29 | 8.10 | 0.36 | 0.06 | 12.60 | 92.21 | | | | | | | |
| | A15SR014 | 11.54 | 1.21 | 59.29 | 8.10 | 0.78 | 0.13 | 13.63 | 94.68 | | | | | | | |
| | A15XX019 | 0.88 | 0.09 | 7.69 | 1.20 | 0.11 | 0.02 | 1.05 | 11.04 | | | | | | | |
| | A15XX020 | 1.73 | 0.18 | 3.95 | 0.54 | 0.11 | 0.02 | 2.04 | 8.57 | | | | | | | |
| | A15XX021 | 1.19 | 0.13 | 12.82 | 2.00 | 0.11 | 0.02 | 1.41 | 17.68 | | | | | | | |
| | A15XX022 | 1.77 | 0.19 | 4.61 | 0.63 | 0.11 | 0.02 | 2.09 | 9.42 | | | | | | | |
| | A15XX023 | 1.25 | 0.13 | 16.66 | 2.60 | 0.11 | 0.02 | 1.48 | 22.25 | | | | | | | |
| | A15XX024 | 2.00 | 0.21 | 6.59 | 0.90 | 0.11 | 0.02 | 2.36 | 12.19 | | | | | | | |
| | A15XX025 | 1.37 | 0.15 | 15.38 | 2.40 | 0.11 | 0.02 | 1.63 | 21.06 | | | | | | | |
| | A15XX026 | 2.24 | 0.23 | 9.22 | 1.26 | 0.11 | 0.02 | 2.65 | 15.73 | | | | | | | |
| | A15XX027 | 1.43 | 0.15 | 23.07 | 3.60 | 0.11 | 0.02 | 1.69 | 30.07 | | | | | | | |
| | A15XX028 | 2.30 | 0.24 | 10.54 | 1.44 | 0.11 | 0.02 | 2.71 | 17.36 | | | | | | | |
| | A15XX029 | 1.55 | 0.16 | 17.95 | 2.80 | 0.11 | 0.02 | 1.83 | 24.42 | | | | | | | |
| | A15XX030 | 3.05 | 0.32 | 11.20 | 1.53 | 0.11 | 0.02 | 3.60 | 19.83 | | | | | | | |
| | A15XX031 | 4.48 | 0.46 | 14.49 | 1.98 | 0.11 | 0.02 | 5.27 | 26.81 | | | | | | | |
| | A15XX032 | 4.05 | 0.42 | 15.15 | 2.07 | 0.18 | 0.03 | 4.78 | 26.68 | | | | | | | |
| | A15XX033 | 5.36 | 0.56 | 22.40 | 3.06 | 0.36 | 0.06 | 6.34 | 38.14 | | | | | | | |
| | A15XX034 | 7.49 | 0.78 | 32.94 | 4.50 | 0.36 | 0.06 | 8.84 | 54.97 | | | | | | | |
| | A15XX035 | 7.99 | 0.83 | 36.23 | 4.95 | 0.36 | 0.06 | 9.42 | 59.84 | | | | | | | |
| | A15XX036 | 8.62 | 0.90 | 36.23 | 4.95 | 0.36 | 0.06 | 10.16 | 61.28 | | | | | | | |
| | A15XX037 | 9.22 | 0.96 | 40.85 | 5.58 | 0.36 | 0.06 | 10.87 | 67.90 | | | | | | | |
| | A15XX038 | 14.07 | 1.45 | 47.43 | 6.48 | 0.36 | 0.06 | 16.57 | 86.42 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | <u>DITIONS</u> | |
|------|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|---------------------|------------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR REPA | TOTAL IR RATE |
| A15 | cont. | | | | | | | | | | | | | | | |
| A 13 | A15XX039 | 14.67 | 1.52 | 60.61 | 8.28 | 0.52 | 0.09 | 17.29 | 102.98 | | | | | | | |
| | A15XX040 | 15.81 | 1.64 | 65.88 | 9.00 | 0.52 | 0.09 | 18.63 | 111.57 | | | | | | | |
| | A15XX041 | 0.27 | 0.03 | 0.50 | 0.27 | 0.00 | 0.00 | 0.26 | 1.33 | | | | | | | |
| | A15XX042 | 0.35 | 0.04 | 0.69 | 0.38 | 0.00 | 0.00 | 0.33 | 1.79 | | | | | | | |
| | A15XX043 | 0.42 | 0.05 | 0.99 | 0.54 | 0.00 | 0.00 | 0.40 | 2.40 | | | | | | | |
| | A15XX044 | 0.49 | 0.05 | 1.49 | 0.82 | 0.00 | 0.00 | 0.47 | 3.32 | | | | | | | |
| | A15XX045 | 0.87 | 0.10 | 2.48 | 1.36 | 0.00 | 0.00 | 0.83 | 5.64 | | | | | | | |
| | A15XX046 | 0.98 | 0.11 | 2.97 | 1.63 | 0.00 | 0.00 | 0.94 | 6.63 | | | | | | | |
| A20 | | | | | | | | | | | | | | | | |
| | A20CK001 | 0.27 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 0.83 | | | | | | | |
| | A20CK002 | 0.15 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.48 | | | | | | | |
| | A20CK003 | 0.30 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.94 | | | | | | | |
| | A20CK005 | 0.38 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 1.19 | | | | | | | |
| | A20CK006 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.59 | | | | | | | |
| | A20CK008 | 0.21 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.66 | | | | | | | |
| | A20CK010 | 0.23 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.71 | | | | | | | |
| | A20CM010 | 0.72 | 0.04 | 0.00 | 0.06 | 0.00 | 0.00 | 1.49 | 2.31 | | | | | | | |
| | A20CM011 | 0.92 | 0.05 | 0.00 | 0.06 | 0.00 | 0.00 | 1.93 | 2.96 | | | | | | | |
| | A20CM012 | 1.03 | 0.06 | 0.00 | 0.13 | 0.00 | 0.00 | 2.16 | 3.38 | | | | | | | |
| | A20CM013 | 3.58 | 0.20 | 0.00 | 0.28 | 0.14 | 0.02 | 7.51 | 11.73 | | | | | | | |
| | A20CM014 | 3.85 | 0.24 | 0.00 | 0.41 | 0.51 | 0.09 | 8.16 | 13.26 | | | | | | | |
| | A20CM015 | 5.16 | 0.30 | 0.00 | 0.50 | 0.35 | 0.06 | 10.86 | 17.23 | | | | | | | |
| | A20CM016 | 2.70 | 0.15 | 0.00 | 0.30 | 0.00 | 0.00 | 5.65 | 8.80 | | | | | | | |
| | A20CM017 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.41 | | | | | | | |
| | A20CM018 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.48 | | | | | | | |
| | A20CM019 | 0.21 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.68 | | | | | | | |
| | A20CM020 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.41 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CO | NDITIONS | | | | | SEVERE | OPERAT | ING CONI | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|--------|--------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | A20WC002 | 0.20 | 0.01 | 0.17 | 0.23 | 0.00 | 0.00 | 0.43 | 1.04 | | | | | | | | |
| | A20WC004 | 0.59 | 0.03 | 0.89 | 0.14 | 0.00 | 0.00 | 1.24 | 2.89 | | | | | | | | |
| | A20XX001 | 0.46 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.91 | 1.39 | | | | | | | | |
| | A20XX002 | 0.54 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | 1.62 | | | | | | | | |
| | A20XX003 | 0.66 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 1.31 | 1.99 | | | | | | | | |
| | A20XX004 | 0.87 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 1.72 | 2.62 | | | | | | | | |
| | A20XX005 | 1.23 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 2.44 | 3.71 | | | | | | | | |
| | A20XX006 | 1.50 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 4.52 | | | | | | | | |
| | A20XX007 | 1.82 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 5.48 | | | | | | | | |
| | A20XX008 | 2.43 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 4.80 | 7.31 | | | | | | | | |
| | A20XX021 | 0.21 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.66 | | | | | | | | |
| | A20XX022 | 0.22 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.70 | | | | | | | | |
| | A20XX023 | 0.23 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.72 | | | | | | | | |
| | A20XX024 | 0.24 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.76 | | | | | | | | |
| | A20XX025 | 0.38 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 1.20 | | | | | | | | |
| A25 | | | | | | | | | | | | | | | | | |
| | A25RS006 | 10.00 | 0.54 | 0.00 | 1.16 | 0.00 | 0.00 | 11.56 | 23.26 | | | | | | | | |
| | A25RS008 | 11.47 | 0.62 | 0.00 | 1.80 | 0.00 | 0.00 | 13.25 | 27.14 | | | | | | | | |
| | A25XX001 | 10.94 | 0.59 | 0.00 | 0.64 | 0.00 | 0.00 | 12.65 | 24.82 | | | | | | | | |
| | A25XX002 | 11.52 | 0.63 | 0.00 | 1.51 | 0.00 | 0.00 | 13.31 | 26.97 | | | | | | | | |
| | A25XX003 | 11.70 | 0.64 | 0.00 | 2.09 | 0.00 | 0.00 | 13.52 | 27.95 | | | | | | | | |
| A30 | | | | | | | | | | | | | | | | | |
| | A30BG003 | 37.57 | 3.12 | 27.87 | 5.31 | 5.56 | 0.96 | 54.83 | 135.22 | | | | | | | İ | |
| | A30BG004 | 40.26 | 3.06 | 13.94 | 3.40 | 0.00 | 0.00 | 57.97 | 118.63 | | | | | | | | |
| | A30BG005 | 42.84 | 3.26 | 27.87 | 5.31 | 0.00 | 0.00 | 61.69 | 140.97 | | | | | | | | |
| | A30BK011 | 26.89 | 2.19 | 13.32 | 1.82 | 3.68 | 0.63 | 39.12 | 87.65 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | <u>DITIONS</u> | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | A30BK013 | 32.63 | 2.61 | 18.04 | 2.46 | 2.85 | 0.49 | 47.34 | 106.42 | | | | | | | |
| | A30BK015 | 37.44 | 3.00 | 22.90 | 3.13 | 3.74 | 0.65 | 54.34 | 125.20 | | | | | | | |
| | A30BK018 | 43.48 | 3.31 | 22.90 | 3.13 | 0.00 | 0.00 | 62.60 | 135.42 | | | | | | | |
| | A30BK019 | 30.43 | 2.34 | 13.07 | 1.79 | 0.47 | 0.08 | 43.89 | 92.07 | | | | | | | |
| | A30BK020 | 39.91 | 3.06 | 21.53 | 2.94 | 0.56 | 0.10 | 57.54 | 125.64 | | | | | | | |
| | A30BK021 | 42.31 | 3.22 | 21.90 | 2.99 | 0.00 | 0.00 | 60.92 | 131.34 | | | | | | | |
| | A30BK022 | 30.78 | 2.46 | 18.04 | 2.46 | 2.85 | 0.49 | 44.67 | 101.75 | | | | | | | |
| | A30BK023 | 37.05 | 2.82 | 18.04 | 2.46 | 0.00 | 0.00 | 53.35 | 113.72 | | | | | | | |
| | A30BK024 | 29.91 | 3.16 | 20.88 | 2.85 | 2.07 | 0.36 | 36.86 | 96.09 | | | | | | | |
| | A30CA002 | 28.49 | 2.33 | 21.65 | 2.96 | 4.34 | 0.75 | 41.47 | 101.99 | | | | | | | |
| | A30CA007 | 20.93 | 2.18 | 12.14 | 1.66 | 0.86 | 0.15 | 25.72 | 63.64 | | | | | | | |
| | A30CA008 | 33.18 | 2.69 | 27.87 | 3.81 | 4.51 | 0.78 | 48.26 | 121.10 | | | | | | | |
| | A30CA013 | 29.33 | 2.23 | 21.65 | 2.96 | 0.00 | 0.00 | 42.24 | 98.41 | | | | | | | |
| | A30CA016 | 47.59 | 3.62 | 27.87 | 3.81 | 0.00 | 0.00 | 68.53 | 151.42 | | | | | | | |
| | A30CH001 | 29.49 | 2.39 | 13.69 | 1.87 | 3.68 | 0.63 | 42.86 | 94.61 | | | | | | | |
| | A30CH002 | 32.57 | 2.60 | 18.91 | 2.58 | 2.85 | 0.49 | 47.24 | 107.24 | | | | | | | |
| | A30CH003 | 34.41 | 2.62 | 18.91 | 2.58 | 0.00 | 0.00 | 49.56 | 108.08 | | | | | | | |
| | A30CH004 | 34.27 | 2.74 | 18.91 | 2.58 | 3.02 | 0.52 | 49.72 | 111.76 | | | | | | | |
| | A30CH005 | 37.42 | 2.99 | 21.53 | 2.94 | 3.58 | 0.62 | 54.29 | 123.37 | | | | | | | |
| | A30CH006 | 45.79 | 3.49 | 24.89 | 3.40 | 0.00 | 0.00 | 65.93 | 143.50 | | | | | | | |
| | A30GC002 | 4.29 | 0.34 | 3.11 | 0.42 | 0.25 | 0.04 | 6.20 | 14.65 | | | | | | | |
| | A30GC004 | 6.34 | 0.48 | 5.10 | 0.70 | 0.00 | 0.00 | 9.14 | 21.76 | | | | | | | |
| | A30LD001 | 11.75 | 1.29 | 12.48 | 1.71 | 1.82 | 0.31 | 14.58 | 43.94 | | | | | | | |
| | A30MP001 | 13.82 | 1.41 | 9.08 | 1.24 | 0.00 | 0.00 | 16.91 | 42.46 | | | | | | | |
| | A30MP002 | 15.51 | 1.58 | 11.35 | 1.55 | 0.00 | 0.00 | 18.98 | 48.97 | | | | | | | |
| | A30RT001 | 33.78 | 3.46 | 34.04 | 4.65 | 0.12 | 0.02 | 41.36 | 117.43 | | | | | | | |
| | A30RT007 | 36.19 | 3.78 | 34.04 | 4.65 | 2.42 | 0.42 | 44.47 | 125.97 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CONE | DITIONS | |
|-------|--------------------------|--------------|--------------|--------------|--------------|--------------|-----------------|--------------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | |
| ASU | cont. A30XX001 | 10.47 | 1.30 | 11.68 | 1.34 | 1.12 | 0.19 | 8.86 | 34.96 | | | | | | | |
| | A30XX002 | 13.18 | 1.59 | 11.68 | 1.34 | 0.00 | 0.00 | 11.09 | 38.88 | | | | | | | |
| A35 | | | | | | | | | | | | | | | | |
| / (00 | A 2 E A E 0 0 1 | 0.00 | 0.05 | | 0.40 | 0.00 | 0.00 | 0.70 | 4.70 | | | | | | | |
| | A35AE001 | 0.62 | 0.05 | 1.11 | 2.12 | 0.09 | 0.02 | 0.78 | 4.79 | | | | | | | |
| | A35AE002 | 1.04 | 0.07 | 1.11 | 2.82 | 0.09 | 0.02 | 1.30 | 6.45 | | | | | | | |
| | A35AE003 | 1.32 | 0.09 | 1.11 | 3.17 | 0.07 | 0.01 | 1.64 | 7.41 | | | | | | | |
| | A35AE004 A35AE005 | 1.55 1.75 | 0.11 0.12 | 1.11 1.11 | 4.07 6.27 | 0.07 0.13 | 0.01 0.02 | 1.92 2.18 | 8.84 11.58 | | | | | | | |
| _ | ASSAEUUS | 1.73 | 0.12 | 1,11 | 0.27 | 0.13 | 0.02 | 2.10 | 11.56 | | | | | | | |
| A40 | | | | | | | | | | | | | | | | |
| | A40CA008 | 75.42 | 4.89 | 94.70 | 12.94 | 0.00 | 0.00 | 115.39 | 303.34 | | | | | | | |
| | A40CA009 | 86.46 | 5.60 | 107.06 | 14.63 | 0.00 | 0.00 | 132.29 | 346.04 | | | | | | | |
| | A40CW001 | 118.43 | 7.67 | 156.47 | 21.38 | 0.00 | 0.00 | 181.20 | 485.15 | | | | | | | |
| | A40RT008 | 51.71 | 3.51 | 53.53 | 7.31 | 2.67 | 0.46 | 79.86 | 199.05 | | | | | | | |
| | A40RT009 | 55.17 | 3.57 | 53.53 | 7.31 | 0.00 | 0.00 | 84.41 | 203.99 | | | | | | | |
| | A40RT010 | 68.05 | 4.41 | 102.11 | 13.95 | 0.00 | 0.00 | 104.12 | 292.64 | | | | | | | |
| | A40RT011 | 80.38 | 5.21 | 115.29 | 15.75 | 0.00 | 0.00 | 122.99 | 339.62 | | | | | | | |
| | A40RT012 | 96.12 | 6.23 | 115.29 | 15.75 | 0.00 | 0.00 | 147.07 | 380.46 | | | | | | | |
| A45 | | | | | | | | | | | | | | | | |
| | A45AE001 | 2.06 | 0.12 | 0.00 | 7.10 | 0.05 | 0.01 | 2.85 | 12.19 | | | | | | | |
| | A45AE001 A45AE002 | 3.21 | 0.12 | 0.00 | 14.25 | 0.05 | 0.01 | 4.44 | 22.14 | | | | | | | |
| | A45AE002 A45AE003 | 7.45 | 0.18 | 0.00 | 16.85 | 0.05 | 0.01 | 10.28 | 35.06 | | | | | | | |
| | A45RS001 | 8.30 | 0.42 | 9.08 | 1.74 | 0.03 | 0.01 | 11.45 | 31.15 | | | | | | | |
| | A45RS001 A45RS002 | 27.00 | 1.50 | 27.28 | 4.23 | 0.09 | 0.02 | 37.17 | 97.18 | | | | | | | |
| | A45K5002 A45SE003 | 6.74 | 0.38 | 3.40 | 2.46 | 0.00 | 0.00 | 9.32 | 22.48 | | | | | | | |
| | A45SE003 | 3.92 | 0.38 | 2.89 | 0.95 | 0.13 | 0.03 | 5.47 | 13.69 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAG | E OPERA | TING CO | NDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-------|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 |
| D 4 0 | | | | | | | | | | | | | | | | |
| B10 | | | | | | | | | | | | | | | | |
| | B10CC007 | 5.07 | 0.44 | 4.00 | 3.62 | 0.17 | 0.03 | 7.81 | 21.14 | | | | | | | |
| | B10CC008 | 5.10 | 0.47 | 36.26 | 9.15 | 1.00 | 0.17 | 7.98 | 60.13 | | | | | | | |
| | B10CC009 | 6.47 | 0.62 | 44.49 | 10.69 | 1.76 | 0.30 | 10.19 | 74.52 | | | | | | | |
| | B10CC010 | 7.67 | 0.72 | 44.49 | 10.94 | 1.76 | 0.30 | 12.03 | 77.91 | | | | | | | |
| | B10CC011 | 2.42 | 0.20 | 1.72 | 1.94 | 0.00 | 0.00 | 3.70 | 9.98 | | | | | | | |
| | B10CC012 | 2.51 | 0.21 | 4.00 | 1.37 | 0.00 | 0.00 | 3.84 | 11.93 | | | | | | | |
| | B10CC013 | 3.29 | 0.28 | 4.00 | 1.42 | 0.00 | 0.00 | 5.04 | 14.03 | | | | | | | |
| | B10CC014 | 0.75 | 0.06 | 0.43 | 0.74 | 0.00 | 0.00 | 1.14 | 3.12 | | | | | | | |
| | B10CL006 | 32.82 | 2.82 | 10.30 | 7.65 | 1.13 | 0.19 | 50.51 | 105.42 | | | | | | | |
| | B10CL015 | 16.85 | 1.48 | 2.57 | 3.91 | 1.05 | 0.18 | 26.05 | 52.09 | | | | | | | |
| | B10CL021 | 8.96 | 0.79 | 3.00 | 1.65 | 0.64 | 0.11 | 13.87 | 29.02 | | | | | | | |
| | B10CL025 | 30.39 | 2.56 | 17.16 | 9.41 | 0.30 | 0.05 | 46.58 | 106.45 | | | | | | | |
| | B10CL027 | 2.38 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.64 | 6.22 | | | | | | | |
| | B10CL032 | 0.47 | 0.04 | 0.86 | 0.47 | 0.00 | 0.00 | 0.72 | 2.56 | | | | | | | |
| | B10CL034 | 0.94 | 0.08 | 1.72 | 0.94 | 0.00 | 0.00 | 1.43 | 5.11 | | | | | | | |
| | B10CL036 | 0.39 | 0.03 | 0.69 | 0.38 | 0.00 | 0.00 | 0.60 | 2.09 | | | | | | | |
| | B10CL040 | 0.54 | 0.05 | 1.72 | 0.94 | 0.00 | 0.00 | 0.83 | 4.08 | | | | | | | |
| | B10CL042 | 0.36 | 0.03 | 0.43 | 0.24 | 0.00 | 0.00 | 0.55 | 1.61 | | | | | | | |
| | B10CL045 | 0.46 | 0.04 | 0.86 | 0.47 | 0.00 | 0.00 | 0.70 | 2.53 | | | | | | | |
| | B10EM001 | 46.23 | 3.99 | 5.56 | 3.37 | 1.91 | 0.33 | 71.21 | 132.60 | | | | | | | |
| | B10EM002 | 2.88 | 0.28 | 0.86 | 1.47 | 0.48 | 0.08 | 4.53 | 10.58 | | | | | | | |
| | B10EM003 | 3.10 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 8.10 | | | | | | | |
| | B10KB001 | 14.81 | 1.56 | 8.15 | 4.47 | 0.70 | 0.12 | 22.79 | 52.60 | | | | | | | |
| | B10KB002 | 26.65 | 2.78 | 18.88 | 10.36 | 0.79 | 0.14 | 40.94 | 100.54 | | | | | | | |
| | B10RC006 | 20.44 | 1.80 | 3.90 | 6.64 | 1.25 | 0.22 | 31.59 | 65.84 | | | | | | | |
| | B10RC007 | 16.35 | 1.42 | 1.29 | 3.21 | 0.78 | 0.13 | 25.22 | 48.40 | | | | | | | |
| | B10RC008 | 26.94 | 2.30 | 2.57 | 3.91 | 0.78 | 0.13 | 41.42 | 78.05 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAGI | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | <u>DITIONS</u> | |
|-----|----------|-------|------|---------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | B10RC016 | 25.36 | 2.21 | 6.44 | 9.03 | 1.25 | 0.22 | 39.12 | 83.63 | | | | | | | |
| | B10RC027 | 16.33 | 1.36 | 3.43 | 3.88 | 0.00 | 0.00 | 24.99 | 49.99 | | | | | | | |
| | B10RC028 | 18.35 | 1.53 | 5.15 | 5.08 | 0.00 | 0.00 | 28.07 | 58.18 | | | | | | | |
| | B10RC029 | 20.74 | 1.73 | 6.86 | 6.26 | 0.00 | 0.00 | 31.73 | 67.32 | | | | | | | |
| | B10RC030 | 22.60 | 1.89 | 8.58 | 8.46 | 0.00 | 0.00 | 34.57 | 76.10 | | | | | | | |
| | B10RC031 | 23.86 | 1.99 | 10.30 | 9.65 | 0.00 | 0.00 | 36.50 | 82.30 | | | | | | | |
| | B10RC032 | 22.17 | 1.94 | 4.29 | 6.85 | 1.25 | 0.22 | 34.25 | 70.97 | | | | | | | |
| | B10SN031 | 7.38 | 0.70 | 2.15 | 2.53 | 1.23 | 0.21 | 11.61 | 25.81 | | | | | | | |
| | B10SN032 | 11.84 | 1.08 | 2.57 | 3.16 | 1.25 | 0.22 | 18.45 | 38.57 | | | | | | | |
| | B10SN033 | 15.05 | 1.34 | 2.57 | 2.91 | 1.21 | 0.21 | 23.35 | 46.64 | | | | | | | |
| | B10SN034 | 16.84 | 1.49 | 1.72 | 2.44 | 1.25 | 0.22 | 26.08 | 50.04 | | | | | | | |
| | B10SN035 | 17.75 | 1.57 | 2.57 | 3.06 | 1.25 | 0.22 | 27.49 | 53.91 | | | | | | | |
| | B10SN036 | 15.79 | 1.41 | 3.86 | 3.87 | 1.25 | 0.22 | 24.48 | 50.88 | | | | | | | |
| B15 | | | | | | | | | | | | | | | | |
| | B15BM001 | 5.57 | 0.39 | 9.08 | 1.24 | 0.00 | 0.00 | 6.16 | 22.44 | | | | | | | |
| | B15EC001 | 24.50 | 1.74 | 9.83 | 1.34 | 0.85 | 0.15 | 27.14 | 65.55 | | | | | | | |
| | B15EC002 | 17.74 | 1.25 | 11.35 | 1.55 | 0.42 | 0.07 | 19.64 | 52.02 | | | | | | | |
| | B15EC003 | 23.86 | 1.67 | 26.10 | 3.57 | 0.12 | 0.02 | 26.39 | 81.73 | | | | | | | |
| | B15EC004 | 26.51 | 1.85 | 18.10 | 2.47 | 0.00 | 0.00 | 29.31 | 78.24 | | | | | | | |
| | B15MB001 | 0.98 | 0.07 | 0.00 | 0.10 | 0.00 | 0.00 | 1.08 | 2.23 | | | | | | | |
| | B15MB002 | 1.18 | 0.08 | 0.00 | 0.14 | 0.00 | 0.00 | 1.31 | 2.71 | | | | | | | |
| | B15MB003 | 1.64 | 0.12 | 0.00 | 0.24 | 0.11 | 0.02 | 1.82 | 3.95 | | | | | | | |
| | B15MB004 | 1.90 | 0.14 | 4.00 | 0.47 | 0.11 | 0.02 | 2.11 | 8.75 | | | | | | | |
| | B15RS001 | 4.81 | 0.34 | 9.08 | 1.24 | 0.13 | 0.02 | 5.33 | 20.95 | | | | | | | |
| | B15RS005 | 6.22 | 0.44 | 9.08 | 1.24 | 0.25 | 0.04 | 6.89 | 24.16 | | | | | | | |
| | B15TB001 | 2.61 | 0.19 | 4.20 | 0.57 | 0.16 | 0.03 | 2.90 | 10.66 | | | | | | | |
| | B15TB002 | 2.63 | 0.19 | 4.20 | 0.57 | 0.16 | 0.03 | 2.91 | 10.69 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | ING CONE | DITIONS | | |
|-----|--------------------------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|---------|--------------|------------------|--------|---------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR R | REPAIR | TOTAL RATE |
| B15 | cont. B15WD001 | 4.32 | 0.31 | 9.08 | 1.24 | 0.13 | 0.02 | 4.79 | 19.89 | | | | | | | | |
| | B15WD002 | 4.49 | 0.32 | 9.08 | 1.24 | 0.13 | 0.02 | 4.98 | 20.26 | | | | | | | | |
| B20 | | | | | | | | | | | | | | | | | |
| | B20BN001 | 1.30 | 0.09 | 9.79 | 1.53 | 0.05 | 0.01 | 1.62 | 14.39 | | | | | | | | |
| | B20BN001 | 1.78 | 0.09 | 18.68 | 2.91 | 0.03 | 0.01 | 2.22 | 25.83 | | | | | | | | |
| | B20BN003 | 2.10 | 0.15 | 31.14 | 4.86 | 0.03 | 0.02 | 2.62 | 40.96 | | | | | | | | |
| | B20BN005 | 2.61 | 0.19 | 31.59 | 4.93 | 0.08 | 0.01 | 3.25 | 42.66 | | | | | | | | |
| | B20BN006 | 3.25 | 0.23 | 31.59 | 4.93 | 0.08 | 0.01 | 4.05 | 44.14 | | | | | | | | |
| | B20BN007 | 3.66 | 0.27 | 16.11 | 2.20 | 0.25 | 0.04 | 4.58 | 27.11 | | | | | | | | |
| | B20MQ001 | 3.79 | 0.27 | 9.53 | 1.30 | 0.02 | 0.00 | 4.72 | 19.63 | | | | | | | | |
| | B20MQ003 | 5.64 | 0.40 | 16.11 | 2.20 | 0.08 | 0.01 | 7.02 | 31.46 | | | | | | | | |
| | B20MQ004 | 7.58 | 0.54 | 22.69 | 3.10 | 0.30 | 0.05 | 9.46 | 43.72 | | | | | | | | |
| | B20MQ005 | 60.87 | 4.30 | 99.28 | 15.06 | 1.16 | 0.20 | 75.85 | 256.72 | | | | | | | | |
| B25 | | | | | | | | | | | | | | | | | |
| | B25HB001 | 2.83 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.65 | 5.68 | 3.48 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.72 | 7.40 |
| | B25HB003 | 3.07 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 6.16 | 3.78 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 4.04 | 8.04 |
| | B25HB005 | 3.22 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 6.46 | 3.97 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 4.25 | 8.45 |
| | B25HB007 | 3.86 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 3.62 | 7.75 | 4.75 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 10.11 |
| | B25HB008 | 3.98 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.74 | 8.00 | 4.90 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 10.44 |
| | B25HB009 | 4.18 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 3.92 | 8.39 | 5.14 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 | 10.94 |
| | B25HB010 | 4.83 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 9.70 | 5.95 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 6.37 | 12.67 |
| | B25HB011 | 5.05 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 10.13 | 6.21 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 6.65 | 13.22 |
| | B25HB012 | 5.14 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.82 | 10.32 | 6.33 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.78 | 13.48 |
| | B25HB013 | 5.26 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 10.56 | 6.47 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.93 | 13.78 |
| | B25HB014 | 5.78 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5.42 | 11.60 | 7.11 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 7.62 | 15.14 |
| | B25HB015 | 5.97 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 5.60 | 11.99 | 7.35 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 7.87 | 15.65 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | ING CON | <u>DITIONS</u> | | |
|-----|----------|------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | B25XX001 | 2.03 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.90 | 4.07 | 2.49 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.67 | 5.30 |
| | B25XX002 | 2.19 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.05 | 4.39 | 2.69 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 5.73 |
| | B25XX003 | 2.36 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 4.73 | 2.90 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.11 | 6.18 |
| | B25XX004 | 2.53 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 5.08 | 3.11 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 | 6.62 |
| | B25XX005 | 2.65 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | 5.32 | 3.26 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 6.95 |
| | B25XX006 | 3.09 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 2.89 | 6.20 | 3.80 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 4.07 | 8.09 |
| | B25XX007 | 3.21 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 6.44 | 3.95 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 4.23 | 8.41 |
| | B25XX008 | 3.57 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 3.35 | 7.17 | 4.39 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 4.71 | 9.36 |
| | B25XX009 | 4.21 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 3.94 | 8.44 | 5.18 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 5.55 | 11.03 |
| | B25XX010 | 4.44 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 4.17 | 8.92 | 5.47 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5.86 | 11.65 |
| | B25XX011 | 4.83 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 9.70 | 5.95 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 6.37 | 12.67 |
| | B25XX012 | 5.26 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 10.56 | 6.47 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.93 | 13.78 |
| | B25XX013 | 6.24 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 5.85 | 12.52 | 7.68 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 8.23 | 16.36 |
| | B25XX014 | 6.58 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 6.17 | 13.21 | 8.10 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 8.67 | 17.24 |
| | B25XX015 | 6.73 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 6.31 | 13.51 | 8.28 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 8.87 | 17.63 |
| | B25XX016 | 7.01 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.57 | 14.07 | 8.62 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 9.23 | 18.35 |
| | B25XX017 | 7.43 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 6.97 | 14.92 | 9.15 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 9.80 | 19.48 |
| | B25XX018 | 7.81 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 7.32 | 15.67 | 9.61 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 10.29 | 20.46 |
| | B25XX019 | 8.07 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 7.56 | 16.19 | 9.93 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 10.63 | 21.14 |
| B30 | | | | | | | | | | | | | | | | | |
| | B30CR001 | 0.55 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 1.13 | | | | | | | | |
| | B30CR002 | 0.61 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 1.27 | | | | | | | | |
| | B30CR003 | 0.68 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 1.41 | | | | | | | | |
| | B30CR004 | 0.72 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.73 | 1.50 | | | | | | | | |
| | B30CR005 | 0.89 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.91 | 1.86 | | | | | | | | |
| | B30CR006 | 1.10 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.12 | 2.29 | | | | | | | | |
| | B30CR009 | 0.95 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 1.97 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| PERATI | NG CON | DITIONS | | |
|-----|----------|------|------|--------|---------|--------------|-----------------|--------|---------------|------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | B30CR010 | 1.16 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.18 | 2.41 | | | | | | | | |
| | B30CR011 | 1.46 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.48 | 3.03 | | | | | | | | |
| | B30CR012 | 1.71 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.73 | 3.55 | | | | | | | | |
| | B30GB001 | 0.50 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.98 | | | | | | | | |
| | B30GB002 | 0.66 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 1.28 | | | | | | | | |
| | B30GB003 | 0.81 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 1.58 | | | | | | | | |
| | B30GB004 | 1.17 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 2.28 | | | | | | | | |
| | B30GB005 | 1.40 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 2.73 | | | | | | | | |
| | B30GB006 | 3.15 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 6.35 | | | | | | | | |
| | B30GB007 | 3.41 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.24 | 6.87 | | | | | | | | |
| | B30GB008 | 3.78 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 7.62 | | | | | | | | |
| | B30GB009 | 4.19 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 3.99 | 8.45 | | | | | | | | |
| | B30GB010 | 5.31 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 10.70 | | | | | | | | |
| | B30GB011 | 2.04 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 2.07 | 4.24 | | | | | | | | |
| | B30GB012 | 2.12 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 2.15 | 4.40 | | | | | | | | |
| | B30GB013 | 2.19 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 4.56 | | | | | | | | |
| | B30GB014 | 2.89 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 6.00 | | | | | | | | |
| | B30GB015 | 2.99 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 6.22 | | | | | | | | |
| | B30GB016 | 5.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 10.39 | | | | | | | | |
| | B30GB017 | 5.42 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 | 11.27 | | | | | | | | |
| | B30GB018 | 0.40 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.78 | | | | | | | | |
| B35 | | | | | | | | | | | | | | | | | |
| | B35HE001 | 0.92 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 1.84 | 1.13 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 2.41 |
| | B35HE002 | 1.08 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.01 | 2.17 | 1.33 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.42 | 2.83 |
| | B35HE003 | 1.53 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.43 | 3.07 | 1.88 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 2.01 | 4.00 |
| | B35HE004 | 1.84 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.73 | 3.70 | 2.27 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 2.43 | 4.83 |
| | B35HE005 | 2.11 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 4.24 | 2.60 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 5.53 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| PERATI | NG CONE | <u>DITIONS</u> | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | B35HE006 | 2.63 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 5.28 | 3.24 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 3.47 | 6.90 |
| | B35HE007 | 2.86 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 5.74 | 3.52 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.77 | 7.49 |
| | B35HE008 | 3.76 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 3.52 | 7.54 | 4.62 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 4.95 | 9.84 |
| | B35HE009 | 3.94 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 3.70 | 7.91 | 4.85 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 5.19 | 10.32 |
| | B35HE010 | 4.56 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4.27 | 9.15 | 5.61 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 11.95 |
| | B35HE011 | 4.93 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 9.90 | 6.07 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 6.51 | 12.93 |
| | B35HE012 | 5.40 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 10.84 | 6.64 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 7.12 | 14.15 |
| | B35HE013 | 5.98 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 5.61 | 12.01 | 7.36 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 7.89 | 15.68 |
| | B35HE014 | 6.84 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 6.42 | 13.74 | 8.42 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 17.93 |
| | B35HE015 | 7.44 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 6.98 | 14.94 | 9.16 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 9.81 | 19.50 |
| | B35HE016 | 8.89 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 8.33 | 17.84 | 10.94 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 11.71 | 23.29 |
| | B35HE017 | 10.22 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 9.59 | 20.52 | 12.58 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 13.48 | 26.79 |
| | B35HE018 | 0.88 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 1.78 | 1.14 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 2.43 |
| | B35HE019 | 1.01 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 | 2.04 | 1.30 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.39 | 2.77 |
| | B35HE020 | 1.44 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 2.90 | 1.86 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.99 | 3.96 |
| | B35HE021 | 1.82 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.71 | 3.67 | 2.34 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 5.00 |
| | B35HE022 | 2.10 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.97 | 4.23 | 2.70 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.89 | 5.76 |
| | B35HE023 | 2.51 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 5.05 | 3.23 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 6.89 |
| | B35HE024 | 2.77 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 5.58 | 3.56 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 7.59 |
| | B35HE025 | 3.59 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 7.23 | 4.61 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 9.84 |
| | B35HE026 | 3.66 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.44 | 7.38 | 4.71 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 10.05 |
| | B35HE027 | 4.44 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.16 | 8.94 | 5.71 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 6.12 | 12.18 |
| | B35HE028 | 4.59 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.31 | 9.25 | 5.90 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.32 | 12.59 |
| | B35HE029 | 5.29 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 4.96 | 10.66 | 6.81 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 7.29 | 14.52 |
| | B35HE030 | 5.83 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 5.47 | 11.75 | 7.50 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 8.03 | 15.99 |
| | B35HE031 | 7.10 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 6.66 | 14.31 | 9.13 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 9.78 | 19.48 |
| | B35HE032 | 7.56 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 7.09 | 15.23 | 9.73 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 10.42 | 20.75 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| PERATI | NG CONE | <u>DITIONS</u> | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | B35HE033 | 9.64 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 9.04 | 19.42 | 12.39 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 13.27 | 26.43 |
| | B35HE034 | 10.74 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 10.07 | 21.64 | 13.81 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 14.79 | 29.46 |
| | B35HE035 | 2.97 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 6.00 | 3.71 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 3.97 | 7.94 |
| | B35HE036 | 3.10 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 6.26 | 3.87 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 4.15 | 8.29 |
| | B35HE037 | 3.48 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 3.27 | 7.05 | 4.35 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 4.66 | 9.31 |
| | B35HE038 | 4.73 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 4.44 | 9.57 | 5.91 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 6.33 | 12.65 |
| | B35HE039 | 5.29 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 4.96 | 10.70 | 6.61 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 7.08 | 14.15 |
| | B35HE040 | 5.46 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 5.12 | 11.04 | 6.83 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 7.31 | 14.62 |
| | B35HE041 | 5.85 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 5.49 | 11.84 | 7.31 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 7.83 | 15.65 |
| | B35HE042 | 7.53 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 7.06 | 15.23 | 9.41 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 10.08 | 20.15 |
| | B35HE043 | 7.74 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 7.26 | 15.66 | 9.68 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 10.37 | 20.72 |
| | B35HE044 | 10.06 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 9.44 | 20.35 | 12.58 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 13.48 | 26.94 |
| | B35HE045 | 10.42 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 9.77 | 21.07 | 13.02 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 13.95 | 27.88 |
| | B35HE046 | 12.39 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 11.62 | 25.06 | 15.49 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 16.59 | 33.16 |
| | B35HE047 | 13.19 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 12.37 | 26.68 | 16.48 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 17.65 | 35.28 |
| | B35SA001 | 6.61 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 6.20 | 13.27 | 8.13 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 8.71 | 17.31 |
| | B35SA003 | 9.91 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 9.29 | 19.89 | 12.20 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 13.06 | 25.97 |
| | B35SA004 | 14.88 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 13.95 | 29.87 | 18.31 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 19.61 | 38.98 |
| | B35SA005 | 19.84 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 18.60 | 39.82 | 24.42 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 26.15 | 51.99 |
| | B35SA006 | 24.82 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 23.28 | 49.83 | 30.55 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 32.72 | 65.05 |
| | B35SA007 | 29.74 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 27.89 | 59.70 | 36.61 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 39.21 | 77.95 |
| | B35SA008 | 39.65 | 2.76 | 0.00 | 0.00 | 0.00 | 0.00 | 37.19 | 79.60 | 48.80 | 2.84 | 0.00 | 0.00 | 0.00 | 0.00 | 52.27 | 103.91 |
| | B35SA009 | 49.56 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 | 46.47 | 99.48 | 60.99 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 65.33 | 129.87 |
| | B35SA010 | 59.48 | 4.14 | 0.00 | 0.00 | 0.00 | 0.00 | 55.78 | 119.40 | 73.21 | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 78.41 | 155.88 |
| | B35XX001 | 3.66 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 3.43 | 7.34 | 4.50 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 4.82 | 9.58 |
| | B35XX002 | 4.11 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 3.85 | 8.25 | 5.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 5.42 | 10.77 |
| | B35XX003 | 4.54 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4.26 | 9.12 | 5.59 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 11.91 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| PERATI | NG CONE | <u>DITIONS</u> | | |
|-----|--------------------------|------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. B35XX004 | 5.18 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.86 | 10.40 | 6.38 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.83 | 13.58 |
| | B35XX005 | 5.82 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 11.69 | 7.16 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 7.67 | 15.25 |
| | B35XX006 | 7.16 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 6.71 | 14.37 | 8.81 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 9.44 | 18.76 |
| | B35XX007 | 3.67 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.44 | 7.39 | 4.72 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 10.07 |
| | B35XX008 | 4.20 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 3.94 | 8.46 | 5.40 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 5.78 | 11.51 |
| | B35XX009 | 4.52 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 4.24 | 9.11 | 5.81 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 6.23 | 12.40 |
| | B35XX010 | 5.38 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 10.84 | 6.91 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 7.41 | 14.75 |
| | B35XX011 | 5.95 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 5.58 | 11.99 | 7.65 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 8.19 | 16.31 |
| | B35XX012 | 7.54 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 7.07 | 15.19 | 9.69 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 10.38 | 20.67 |
| | B35XX013 | 0.83 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 1.68 | 1.04 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.11 | 2.22 |
| | B35XX014 | 0.93 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.88 | 1.89 | 1.17 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.25 | 2.50 |
| | B35XX015 | 1.39 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 2.81 | 1.74 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 3.72 |
| | B35XX016 | 1.59 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.49 | 3.21 | 1.98 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.13 | 4.25 |
| | B35XX017 | 1.73 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 3.51 | 2.17 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.32 | 4.64 |
| | B35XX018 | 3.71 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 3.48 | 7.50 | 4.64 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4.97 | 9.93 |
| | B35XX019 | 3.96 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 3.72 | 8.02 | 4.95 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 5.30 | 10.60 |
| | B35XX020 | 4.47 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 9.04 | 5.59 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 11.96 |
| | B35XX021 | 4.87 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 4.57 | 9.85 | 6.09 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 6.52 | 13.03 |
| | B35XX022 | 6.14 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 12.42 | 7.67 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 8.22 | 16.42 |
| | B35XX023 | 6.58 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 6.17 | 13.31 | 8.22 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 8.81 | 17.60 |
| C05 | | | | | | | | | | | | | | | | | |
| | C05OL001 | 0.17 | 0.00 | 0.70 | 0.11 | 0.00 | 0.00 | 0.58 | 1.56 | | | | | | | | |
| | C05OL002 | 0.27 | 0.01 | 1.44 | 0.22 | 0.00 | 0.00 | 0.92 | 2.86 | | | | | | | | |
| | C05OL003 | 0.32 | 0.01 | 1.59 | 0.25 | 0.00 | 0.00 | 1.12 | 3.29 | | | | | | | | |
| | C05OL004 | 0.35 | 0.01 | 1.74 | 0.27 | 0.00 | 0.00 | 1.22 | 3.59 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|-----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | C10BO001 | 0.98 | 0.04 | 0.92 | 0.11 | 0.00 | 0.00 | 1.54 | 3.59 | | | | | | | |
| | C10BO003 | 0.38 | 0.01 | 1.22 | 0.14 | 0.00 | 0.00 | 0.59 | 2.34 | | | | | | | |
| | C10BO004 | 0.44 | 0.02 | 1.83 | 0.21 | 0.00 | 0.00 | 0.70 | 3.20 | | | | | | | |
| | C10BO008 | 3.88 | 0.14 | 1.42 | 0.17 | 0.00 | 0.00 | 6.10 | 11.71 | | | | | | | |
| | C10BO009 | 1.79 | 0.08 | 1.22 | 0.14 | 0.00 | 0.00 | 3.15 | 6.38 | | | | | | | |
| | C10BO011 | 4.73 | 0.20 | 1.26 | 0.15 | 0.00 | 0.00 | 8.31 | 14.65 | | | | | | | |
| | C10BO013 | 10.81 | 0.46 | 2.99 | 0.35 | 0.00 | 0.00 | 18.99 | 33.60 | | | | | | | |
| | C10BO015 | 4.21 | 0.18 | 0.79 | 0.09 | 0.00 | 0.00 | 7.39 | 12.66 | | | | | | | |
| | C10BO016 | 5.28 | 0.22 | 1.42 | 0.17 | 0.00 | 0.00 | 9.27 | 16.36 | | | | | | | |
| | C10RX001 | 7.04 | 0.30 | 1.26 | 0.15 | 0.00 | 0.00 | 12.37 | 21.12 | | | | | | | |
| | C10RX002 | 9.73 | 0.41 | 2.20 | 0.26 | 0.00 | 0.00 | 17.09 | 29.69 | | | | | | | |
| | C10RX003 | 16.29 | 0.69 | 5.19 | 0.61 | 0.00 | 0.00 | 28.61 | 51.39 | | | | | | | |
| | C10WC003 | 0.94 | 0.03 | 0.63 | 0.07 | 0.00 | 0.00 | 1.48 | 3.15 | | | | | | | |
| | C10WC006 | 1.22 | 0.04 | 1.68 | 0.20 | 0.00 | 0.00 | 1.92 | 5.06 | | | | | | | |
| | C10WC007 | 1.87 | 0.07 | 2.75 | 0.32 | 0.00 | 0.00 | 2.94 | 7.95 | | | | | | | |
| | C10WC008 | 3.38 | 0.12 | 1.42 | 0.17 | 0.00 | 0.00 | 5.31 | 10.40 | | | | | | | |
| | C10WC010 | 2.15 | 0.09 | 3.36 | 0.39 | 0.00 | 0.00 | 3.78 | 9.77 | | | | | | | |
| | C10WC015 | 6.69 | 0.24 | 2.20 | 0.26 | 0.00 | 0.00 | 10.51 | 19.90 | | | | | | | |
| | C10WC016 | 7.48 | 0.32 | 3.15 | 0.37 | 0.00 | 0.00 | 13.15 | 24.47 | | | | | | | |
| | C10WC017 | 2.86 | 0.12 | 1.42 | 0.17 | 0.00 | 0.00 | 5.02 | 9.59 | | | | | | | |
| | C10WC019 | 7.10 | 0.30 | 3.15 | 0.37 | 0.00 | 0.00 | 12.46 | 23.38 | | | | | | | |
| C15 | | | | | | | | | | | | | | | | |
| | C15BL001 | 1.99 | 0.09 | 0.18 | 0.61 | 0.00 | 0.00 | 2.79 | 5.66 | | | | | | | |
| | C15BL003 | 7.86 | 0.36 | 0.92 | 2.06 | 0.00 | 0.00 | 11.00 | 22.20 | | | | | | | |
| | C15BL004 | 9.03 | 0.42 | 1.39 | 2.60 | 0.00 | 0.00 | 12.64 | 26.08 | | | | | | | |
| | C15BL005 | 12.67 | 0.58 | 2.77 | 3.69 | 0.00 | 0.00 | 17.74 | 37.45 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAGI | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| PERATI | NG CONE | DITIONS | |
|-----|----------|-------|------|---------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 |
| C15 | | | | | | | | | | | | | | | | |
| | C15BL006 | 47.28 | 3.95 | 57.65 | 7.88 | 0.00 | 0.00 | 66.19 | 182.95 | | | | | | | |
| | C15ED001 | 1.71 | 0.08 | 2.61 | 0.41 | 0.00 | 0.00 | 2.40 | 7.21 | | | | | | | |
| | C15ED002 | 1.03 | 0.05 | 2.14 | 0.33 | 0.00 | 0.00 | 1.45 | 5.00 | | | | | | | |
| | C15XX001 | 14.39 | 1.22 | 32.03 | 4.38 | 0.52 | 0.09 | 20.22 | 72.85 | | | | | | | |
| C20 | | | | | | | | | | | | | | | | |
| | C20WC002 | 2.22 | 0.12 | 3.09 | 0.48 | 0.26 | 0.04 | 2.48 | 8.69 | | | | | | | |
| | C20XX001 | 1.45 | 0.08 | 3.09 | 0.48 | 0.19 | 0.03 | 1.62 | 6.94 | | | | | | | |
| C25 | | | | | | | | | | | | | | | | |
| | C25AJ001 | 0.81 | 0.05 | 1.43 | 0.22 | 0.00 | 0.00 | 1.01 | 3.52 | | | | | | | |
| | C25AJ003 | 1.38 | 0.08 | 1.43 | 0.22 | 0.00 | 0.00 | 1.71 | 4.82 | | | | | | | |
| | C25AJ004 | 1.55 | 0.09 | 2.14 | 0.33 | 0.00 | 0.00 | 1.93 | 6.04 | | | | | | | |
| | C25AJ005 | 1.74 | 0.10 | 2.61 | 0.41 | 0.00 | 0.00 | 2.16 | 7.02 | | | | | | | |
| | C25AJ006 | 1.96 | 0.11 | 2.61 | 0.41 | 0.00 | 0.00 | 2.44 | 7.53 | | | | | | | |
| | C25AJ007 | 2.07 | 0.11 | 2.61 | 0.41 | 0.00 | 0.00 | 2.58 | 7.78 | | | | | | | |
| | C25AJ008 | 1.51 | 0.15 | 1.22 | 0.25 | 0.00 | 0.00 | 1.62 | 4.75 | | | | | | | |
| | C25AJ009 | 1.61 | 0.16 | 1.22 | 0.25 | 0.00 | 0.00 | 1.72 | 4.96 | | | | | | | |
| | C25AJ010 | 1.72 | 0.17 | 1.22 | 0.25 | 0.00 | 0.00 | 1.83 | 5.19 | | | | | | | |
| | C25AJ011 | 1.84 | 0.19 | 1.22 | 0.25 | 0.00 | 0.00 | 1.96 | 5.46 | | | | | | | |
| | C25AJ012 | 1.95 | 0.20 | 1.22 | 0.25 | 0.00 | 0.00 | 2.09 | 5.71 | | | | | | | |
| | C25AJ013 | 2.07 | 0.21 | 1.22 | 0.25 | 0.00 | 0.00 | 2.21 | 5.96 | | | | | | | |
| | C25AJ015 | 2.00 | 0.11 | 4.75 | 0.74 | 0.00 | 0.00 | 2.48 | 10.08 | | | | | | | |
| | C25AJ016 | 2.24 | 0.12 | 5.70 | 0.89 | 0.00 | 0.00 | 2.79 | 11.74 | | | | | | | |
| | C25AJ018 | 2.33 | 0.13 | 5.70 | 0.89 | 0.00 | 0.00 | 2.89 | 11.94 | | | | | | | |
| | C25AJ019 | 3.19 | 0.18 | 8.08 | 1.26 | 0.00 | 0.00 | 3.97 | 16.68 | | | | | | | |
| | C25ST001 | 0.45 | 0.02 | 1.90 | 0.30 | 0.00 | 0.00 | 0.56 | 3.23 | | | | | | | |
| | C25ST002 | 0.46 | 0.03 | 2.14 | 0.33 | 0.00 | 0.00 | 0.57 | 3.53 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAGI | E OPERA | TING CON | IDITIONS | | | | | SEVERE C | PERAT | ING CONE | DITIONS | |
|-----|----------|-------|------|---------|---------|--------------|----------------|--------|---------------|------|------|----------|-------|--------------|-----------------------|---------------|
| 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. | | | | | | | | | | | | | | | |
| 023 | C25SV001 | 29.21 | 2.99 | 7.37 | 1.36 | 0.37 | 0.06 | 31.24 | 72.60 | | | | | | | |
| | C25SV002 | 27.47 | 2.81 | 7.37 | 1.36 | 0.30 | 0.05 | 29.38 | 68.74 | | | | | | | |
| | C25SV003 | 13.68 | 1.40 | 3.40 | 0.63 | 0.25 | 0.04 | 14.65 | 34.05 | | | | | | | |
| | C25WC002 | 0.56 | 0.03 | 1.90 | 0.30 | 0.00 | 0.00 | 0.70 | 3.49 | | | | | | | |
| C35 | | | | | | | | | | | | | | | | |
| | C35AF002 | 1.75 | 0.15 | 0.00 | 2.00 | 0.04 | 0.01 | 2.62 | 6.57 | | | | | | | |
| | C35AF004 | 5.02 | 0.41 | 3.95 | 2.54 | 0.08 | 0.01 | 7.52 | 19.53 | | | | | | | |
| | C35AF005 | 7.30 | 0.61 | 7.12 | 2.97 | 0.17 | 0.03 | 10.96 | 29.16 | | | | | | | |
| | C35AL002 | 4.87 | 0.41 | 3.95 | 1.54 | 0.24 | 0.04 | 7.36 | 18.41 | | | | | | | |
| | C35AL003 | 1.59 | 0.15 | 0.50 | 0.46 | 0.24 | 0.04 | 2.46 | 5.44 | | | | | | | |
| | C35AL008 | 2.96 | 0.24 | 0.00 | 0.30 | 0.00 | 0.00 | 4.42 | 7.92 | | | | | | | |
| | C35AL013 | 1.43 | 0.13 | 0.00 | 0.40 | 0.12 | 0.02 | 2.17 | 4.27 | | | | | | | |
| | C35AL014 | 7.71 | 0.63 | 8.04 | 1.60 | 0.08 | 0.01 | 11.53 | 29.60 | | | | | | | |
| | C35AV006 | 10.24 | 0.84 | 1.98 | 3.09 | 0.16 | 0.03 | 15.33 | 31.67 | | | | | | | |
| | C35AV008 | 3.19 | 0.26 | 0.69 | 2.38 | 0.00 | 0.00 | 4.76 | 11.28 | | | | | | | |
| | C35AV009 | 3.89 | 0.32 | 1.58 | 2.87 | 0.00 | 0.00 | 5.80 | 14.46 | | | | | | | |
| | C35AV010 | 7.24 | 0.59 | 2.57 | 3.41 | 0.00 | 0.00 | 10.81 | 24.62 | | | | | | | |
| | C35AV011 | 5.74 | 0.47 | 1.19 | 2.65 | 0.00 | 0.00 | 8.57 | 18.62 | | | | | | | |
| | C35AV012 | 16.60 | 1.35 | 1.98 | 3.59 | 0.00 | 0.00 | 24.79 | 48.31 | | | | | | | |
| C40 | | | | | | | | | | | | | | | | |
| | C40CC001 | 5.25 | 0.29 | 0.92 | 0.56 | 0.00 | 0.00 | 6.53 | 13.55 | | | | | | | |
| | C40MU001 | 0.56 | 0.03 | 1.90 | 0.30 | 0.05 | 0.01 | 0.71 | 3.56 | | | | | | | |
| | C40MU002 | 1.20 | 0.07 | 3.09 | 0.48 | 0.05 | 0.01 | 1.50 | 6.40 | | | | | | | |
| | C40MU003 | 0.56 | 0.03 | 1.90 | 0.30 | 0.05 | 0.01 | 0.70 | 3.55 | | | | | | | |
| | C40MU004 | 0.65 | 0.04 | 1.90 | 0.30 | 0.05 | 0.01 | 0.82 | 3.77 | | | | | | | |
| | C40ST001 | 0.33 | 0.02 | 0.05 | 0.23 | 0.05 | 0.01 | 0.43 | 1.12 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CONI | <u>DITIONS</u> | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 |
| C40 | | | | | | | | | | | | | | | | |
| | C40ST002 | 0.37 | 0.02 | 1.31 | 0.20 | 0.05 | 0.01 | 0.47 | 2.43 | | | | | | | |
| | C40ST003 | 0.44 | 0.03 | 0.18 | 0.36 | 0.05 | 0.01 | 0.56 | 1.63 | | | | | | | |
| | C40ST005 | 0.59 | 0.04 | 0.14 | 0.39 | 0.05 | 0.01 | 0.74 | 1.96 | | | | | | | |
| | C40XX001 | 0.48 | 0.03 | 0.18 | 0.31 | 0.00 | 0.00 | 0.60 | 1.60 | | | | | | | |
| | C40XX002 | 0.52 | 0.03 | 1.66 | 0.26 | 0.00 | 0.00 | 0.64 | 3.11 | | | | | | | |
| | C40XX003 | 0.69 | 0.04 | 0.28 | 0.37 | 0.00 | 0.00 | 0.86 | 2.24 | | | | | | | |
| | C40XX004 | 0.70 | 0.04 | 1.90 | 0.30 | 0.00 | 0.00 | 0.87 | 3.81 | | | | | | | |
| | C40XX005 | 0.84 | 0.05 | 0.46 | 0.53 | 0.00 | 0.00 | 1.04 | 2.92 | | | | | | | |
| | C40XX006 | 1.59 | 0.09 | 0.46 | 0.53 | 0.00 | 0.00 | 1.98 | 4.65 | | | | | | | |
| | C40XX007 | 1.51 | 0.08 | 2.14 | 0.33 | 0.00 | 0.00 | 1.88 | 5.94 | | | | | | | |
| C45 | | | | | | | | | | | | | | | | |
| | C45GO010 | 22.71 | 1.47 | 12.12 | 1.66 | 0.00 | 0.00 | 34.75 | 72.71 | | | | | | | |
| | C45GO011 | 34.97 | 2.27 | 24.38 | 3.33 | 0.00 | 0.00 | 53.51 | 118.46 | | | | | | | |
| | C45GO012 | 46.83 | 3.03 | 22.27 | 3.04 | 0.00 | 0.00 | 71.65 | 146.82 | | | | | | | |
| | C45GO013 | 18.84 | 1.22 | 12.12 | 1.66 | 0.00 | 0.00 | 28.82 | 62.66 | | | | | | | |
| | C45GO014 | 25.97 | 1.68 | 12.91 | 1.76 | 0.00 | 0.00 | 39.74 | 82.06 | | | | | | | |
| | C45GO016 | 51.15 | 3.31 | 30.30 | 4.14 | 0.00 | 0.00 | 78.27 | 167.17 | | | | | | | |
| | C45GO018 | 63.76 | 4.13 | 44.14 | 6.03 | 0.00 | 0.00 | 97.55 | 215.61 | | | | | | | |
| | C45GO020 | 76.41 | 4.95 | 59.29 | 8.10 | 0.00 | 0.00 | 116.90 | 265.65 | | | | | | | |
| | C45GO026 | 8.13 | 0.53 | 9.23 | 1.44 | 0.00 | 0.00 | 12.44 | 31.77 | | | | | | | |
| | C45GO027 | 10.34 | 0.67 | 6.59 | 0.90 | 0.00 | 0.00 | 15.82 | 34.32 | | | | | | | |
| | C45GO028 | 16.45 | 1.07 | 6.59 | 0.90 | 0.00 | 0.00 | 25.16 | 50.17 | | | | | | | |
| | C45GO029 | 10.93 | 0.71 | 9.23 | 1.44 | 0.00 | 0.00 | 16.73 | 39.04 | | | | | | | |
| | C45GO031 | 61.95 | 4.01 | 50.73 | 6.93 | 0.00 | 0.00 | 94.78 | 218.40 | | | | | | | |
| | C45MJ001 | 1.18 | 0.08 | 3.85 | 0.60 | 0.00 | 0.00 | 1.80 | 7.51 | | | | | | | |
| | C45MW002 | 6.74 | 0.44 | 3.43 | 0.47 | 0.08 | 0.01 | 10.33 | 21.50 | | | | | | | |
| | C45MW003 | 8.55 | 0.56 | 3.43 | 0.47 | 0.12 | 0.02 | 13.11 | 26.26 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 |
| | | | | | | | | | | | | | | | | |
| C55 | | | | | | | | | | | | | | | | |
| | C55M3001 | 2.76 | 0.20 | 10.93 | 1.70 | 0.08 | 0.01 | 3.83 | 19.51 | | | | | | | |
| | C55M3002 | 6.43 | 0.45 | 7.47 | 1.02 | 0.00 | 0.00 | 8.88 | 24.25 | | | | | | | |
| | C55M3003 | 7.34 | 0.51 | 13.19 | 1.80 | 0.00 | 0.00 | 10.15 | 32.99 | | | | | | | |
| | C55OE001 | 32.44 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 44.83 | 79.53 | | | | | | | |
| | C55OE002 | 41.64 | 2.90 | 0.00 | 0.00 | 0.00 | 0.00 | 57.56 | 102.10 | | | | | | | |
| | C55OE003 | 63.40 | 4.42 | 0.00 | 0.00 | 0.00 | 0.00 | 87.63 | 155.45 | | | | | | | |
| | C55OE006 | 6.07 | 0.43 | 9.21 | 1.26 | 0.07 | 0.01 | 8.39 | 25.44 | | | | | | | |
| | C55OE009 | 11.45 | 0.81 | 15.80 | 2.16 | 0.14 | 0.02 | 15.85 | 46.23 | | | | | | | |
| | C550E011 | 8.37 | 0.59 | 22.52 | 3.08 | 0.14 | 0.02 | 11.58 | 46.30 | | | | | | | |
| | C55OE012 | 13.47 | 0.95 | 22.52 | 3.08 | 0.14 | 0.02 | 18.64 | 58.82 | | | | | | | |
| | C55SC001 | 9.32 | 0.65 | 9.96 | 1.36 | 0.08 | 0.01 | 12.89 | 34.27 | | | | | | | |
| | C55SC002 | 16.12 | 1.14 | 24.51 | 3.35 | 0.24 | 0.04 | 22.31 | 67.71 | | | | | | | |
| | C55SC005 | 53.43 | 3.77 | 29.92 | 4.09 | 1.04 | 0.18 | 73.95 | 166.38 | | | | | | | |
| | C55SC006 | 57.65 | 4.06 | 29.92 | 4.09 | 1.04 | 0.18 | 79.78 | 176.72 | | | | | | | |
| C60 | | | | | | | | | | | | | | | | |
| | C60HG008 | 0.15 | 0.01 | 0.61 | 0.10 | 0.00 | 0.00 | 0.21 | 1.08 | | | | | | | |
| | C60HG010 | 0.30 | 0.02 | 3.36 | 0.52 | 0.00 | 0.00 | 0.42 | 4.62 | | | | | | | |
| | C60HG011 | 4.02 | 0.22 | 10.39 | 1.93 | 0.00 | 0.00 | 5.55 | 22.11 | | | | | | | |
| | C60HG012 | 4.22 | 0.23 | 10.39 | 1.93 | 0.00 | 0.00 | 5.84 | 22.61 | | | | | | | |
| | C60HG013 | 4.26 | 0.23 | 10.39 | 1.93 | 0.00 | 0.00 | 5.89 | 22.70 | | | | | | | |
| | C60HG014 | 2.22 | 0.12 | 3.56 | 1.95 | 0.00 | 0.00 | 3.07 | 10.92 | | | | | | | |
| | C60HG015 | 0.92 | 0.05 | 6.11 | 0.95 | 0.00 | 0.00 | 1.27 | 9.30 | | | | | | | |
| | C60HG016 | 5.26 | 0.29 | 13.22 | 2.45 | 0.00 | 0.00 | 7.27 | 28.49 | | | | | | | |
| | C60HG020 | 3.16 | 0.17 | 14.66 | 2.29 | 0.00 | 0.00 | 4.37 | 24.65 | | | | | | | |
| | C60HG021 | 3.82 | 0.21 | 14.66 | 2.29 | 0.00 | 0.00 | 5.28 | 26.26 | | | | | | | |
| | C60HG023 | 2.24 | 0.12 | 3.56 | 1.95 | 0.00 | 0.00 | 3.10 | 10.97 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE C | PERAT | ING CONE | DITIONS | |
|-----|----------|-------|-------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|-------|--------------|-----------------------|---------------|
| 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. | | | | | | | | | | | | | | | |
| | C60HG024 | 3.81 | 0.21 | 14.66 | 2.29 | 0.00 | 0.00 | 5.26 | 26.23 | | | | | | | |
| | C60HG025 | 0.24 | 0.01 | 2.75 | 0.43 | 0.00 | 0.00 | 0.34 | 3.77 | | | | | | | |
| | C60HG026 | 0.60 | 0.03 | 3.97 | 0.62 | 0.00 | 0.00 | 0.83 | 6.05 | | | | | | | |
| | C60LY001 | 4.36 | 0.24 | 3.05 | 0.48 | 0.00 | 0.00 | 6.02 | 14.15 | | | | | | | |
| | C60LY002 | 6.44 | 0.35 | 10.69 | 1.67 | 0.00 | 0.00 | 8.90 | 28.05 | | | | | | | |
| | C60LY005 | 0.50 | 0.03 | 3.97 | 0.62 | 0.00 | 0.00 | 0.69 | 5.81 | | | | | | | |
| | C60LY011 | 12.45 | 0.68 | 5.04 | 0.93 | 0.00 | 0.00 | 17.21 | 36.31 | | | | | | | |
| C65 | | | | | | | | | | | | | | | | |
| | C65ST007 | 0.25 | 0.01 | 0.09 | 0.05 | 0.00 | 0.00 | 0.86 | 1.26 | | | | | | | |
| | C65ST008 | 0.26 | 0.01 | 0.17 | 0.09 | 0.00 | 0.00 | 0.90 | 1.43 | | | | | | | |
| | C65ST009 | 0.31 | 0.01 | 0.26 | 0.14 | 0.00 | 0.00 | 1.06 | 1.78 | | | | | | | |
| | C65ST013 | 0.56 | 0.02 | 1.22 | 0.19 | 0.00 | 0.00 | 1.96 | 3.95 | | | | | | | |
| | C65WC003 | 0.42 | 0.02 | 0.17 | 0.23 | 0.00 | 0.00 | 1.47 | 2.31 | | | | | | | |
| | C65WC004 | 0.27 | 0.01 | 0.26 | 0.28 | 0.00 | 0.00 | 0.94 | 1.76 | | | | | | | |
| | C65WC005 | 0.51 | 0.02 | 1.11 | 0.17 | 0.00 | 0.00 | 1.79 | 3.60 | | | | | | | |
| C75 | | | | | | | | | | | | | | | | |
| | C75BD004 | 5.34 | 0.69 | 10.77 | 1.68 | 0.23 | 0.04 | 6.07 | 24.82 | | | | | | | |
| | C75BD005 | 6.64 | 0.86 | 17.69 | 2.76 | 0.61 | 0.11 | 7.55 | 36.22 | | | | | | | |
| | C75BD006 | 9.66 | 1.26 | 28.20 | 4.40 | 1.01 | 0.17 | 11.00 | 55.70 | | | | | | | |
| | C75BD007 | 3.84 | 0.49 | 9.74 | 1.52 | 0.25 | 0.04 | 4.36 | 20.24 | | | | | | | |
| | C75BD008 | 5.12 | 0.66 | 10.77 | 1.68 | 0.25 | 0.04 | 5.82 | 24.34 | | | | | | | |
| | C75BD009 | 6.86 | 0.89 | 17.69 | 2.76 | 0.61 | 0.11 | 7.81 | 36.73 | | | | | | | |
| | C75BD010 | 11.46 | 1.49 | 11.20 | 1.64 | 1.01 | 0.17 | 13.04 | 40.01 | | | | | | | |
| | C75BD011 | 15.24 | 1.97 | 17.13 | 2.51 | 1.98 | 0.34 | 17.34 | 56.51 | | | | | | | |
| | C75GV016 | 87.13 | 11.42 | 39.53 | 5.78 | 21.47 | 3.70 | 99.31 | 268.34 | | | | | | | |
| | C75GV023 | 25.38 | 3.31 | 21.08 | 3.08 | 5.35 | 0.92 | 28.91 | 88.03 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|----------|--------|-------|--------|---------|--------------|----------------|--------|---------------|--------|-------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | C75GV024 | 33.17 | 4.36 | 22.79 | 3.33 | 7.47 | 1.29 | 37.82 | 110.23 | | | | | | | | |
| | C75GV029 | 10.54 | 1.36 | 20.51 | 3.20 | 0.64 | 0.11 | 11.98 | 48.34 | | | | | | | | |
| | C75GV030 | 16.10 | 2.06 | 25.64 | 4.00 | 0.48 | 0.08 | 18.28 | 66.64 | | | | | | | | |
| | C75GV031 | 40.06 | 5.34 | 31.62 | 4.63 | 15.05 | 2.60 | 45.79 | 145.09 | | | | | | | | |
| | C75GV032 | 48.68 | 6.46 | 36.23 | 5.30 | 16.70 | 2.88 | 55.60 | 171.85 | | | | | | | | |
| | C75TD009 | 21.80 | 2.77 | 23.72 | 3.47 | 0.00 | 0.00 | 24.73 | 76.49 | | | | | | | | |
| | C75TD010 | 28.53 | 3.62 | 32.54 | 4.76 | 0.00 | 0.00 | 32.35 | 101.80 | | | | | | | | |
| | C75TD011 | 37.49 | 4.75 | 32.54 | 4.76 | 0.00 | 0.00 | 42.52 | 122.06 | | | | | | | | |
| | C75TE001 | 22.53 | 2.93 | 17.13 | 2.51 | 3.51 | 0.61 | 25.65 | 74.87 | | | | | | | | |
| | C75TE002 | 31.00 | 4.03 | 20.03 | 2.93 | 4.72 | 0.81 | 35.29 | 98.81 | | | | | | | | |
| C80 | | | | | | | | | | | | | | | | | |
| | C80GV006 | 44.75 | 6.49 | 45.38 | 5.76 | 1.76 | 0.30 | 44.50 | 148.94 | 51.15 | 6.54 | 60.02 | 7.62 | 6.84 | 1.18 | 54.47 | 187.82 |
| | C80GV016 | 127.55 | 22.93 | 40.72 | 5.17 | 15.67 | 2.70 | 163.11 | 377.85 | 141.72 | 23.05 | 52.42 | 6.66 | 62.64 | 10.81 | 191.25 | 488.55 |
| | C80GV029 | 46.44 | 6.80 | 51.06 | 6.48 | 3.82 | 0.66 | 46.24 | 161.50 | 53.07 | 6.85 | 67.53 | 8.57 | 15.23 | 2.63 | 56.60 | 210.48 |
| | C80GV030 | 46.56 | 6.82 | 51.06 | 6.48 | 3.82 | 0.66 | 46.36 | 161.76 | 53.22 | 6.87 | 67.53 | 8.57 | 15.23 | 2.63 | 56.75 | 210.80 |
| | C80GV033 | 54.42 | 7.96 | 40.28 | 5.11 | 7.83 | 1.35 | 54.18 | 171.13 | 62.20 | 8.03 | 53.27 | 6.76 | 31.32 | 5.40 | 66.33 | 233.31 |
| | C80GV034 | 69.87 | 11.36 | 45.61 | 5.79 | 7.83 | 1.35 | 79.39 | 221.20 | 78.61 | 11.44 | 60.32 | 7.66 | 31.32 | 5.40 | 94.87 | 289.62 |
| | C80GV035 | 45.37 | 7.41 | 45.61 | 5.79 | 3.82 | 0.66 | 51.58 | 160.24 | 51.04 | 7.46 | 60.32 | 7.66 | 15.23 | 2.63 | 61.64 | 205.98 |
| | C80LB009 | 32.44 | 4.72 | 41.41 | 5.26 | 1.66 | 0.29 | 32.26 | 118.04 | 37.07 | 4.75 | 54.77 | 6.95 | 6.64 | 1.15 | 39.49 | 150.82 |
| | C80LB011 | 32.81 | 4.82 | 41.41 | 5.26 | 3.34 | 0.58 | 32.69 | 120.91 | 37.50 | 4.86 | 54.77 | 6.95 | 13.25 | 2.29 | 40.02 | 159.64 |
| | C80TD001 | 35.81 | 5.94 | 21.04 | 2.67 | 5.91 | 1.02 | 40.81 | 113.20 | 40.28 | 5.98 | 26.93 | 3.42 | 23.85 | 4.11 | 48.76 | 153.33 |
| | C80TD002 | 44.89 | 7.40 | 25.79 | 3.28 | 5.73 | 0.99 | 51.10 | 139.18 | 50.50 | 7.45 | 33.14 | 4.21 | 22.45 | 3.87 | 61.07 | 182.69 |
| | C80TD003 | 52.06 | 8.36 | 25.79 | 3.28 | 0.00 | 0.00 | 59.04 | 148.53 | 58.56 | 8.42 | 33.14 | 4.21 | 0.00 | 0.00 | 70.55 | 174.88 |
| | C80TD004 | 59.06 | 10.49 | 71.01 | 9.02 | 0.00 | 0.00 | 75.39 | 224.97 | 65.63 | 10.54 | 92.63 | 11.76 | 0.00 | 0.00 | 88.40 | 268.96 |
| | C80TD005 | 48.45 | 8.84 | 71.01 | 9.02 | 7.25 | 1.25 | 62.09 | 207.91 | 53.83 | 8.88 | 92.63 | 11.76 | 28.76 | 4.96 | 72.81 | 273.63 |
| | C80TE002 | 20.01 | 2.95 | 28.37 | 3.60 | 2.49 | 0.43 | 19.95 | 77.80 | 22.87 | 2.98 | 37.52 | 4.76 | 10.06 | 1.74 | 24.42 | 104.35 |
| | C80TE003 | 26.55 | 3.93 | 41.98 | 5.33 | 3.68 | 0.63 | 26.48 | 108.58 | 30.34 | 3.97 | 55.52 | 7.05 | 14.72 | 2.54 | 32.42 | 146.56 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERATI | ING CON | DITIONS | | |
|-----|----------|-------|-------|--------|---------|--------------|-----------------|--------|---------------|--------|-------|----------|---------|--------------|----------------|--------|---------------|
| 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 | cont. | | | | | | | | | | | | | | | | |
| | C80TE008 | 17.67 | 2.33 | 14.75 | 2.59 | 5.11 | 0.88 | 15.13 | 58.46 | 20.62 | 2.36 | 19.51 | 3.43 | 20.05 | 3.46 | 19.11 | 88.54 |
| | C80XX001 | 9.00 | 1.19 | 27.80 | 4.89 | 1.53 | 0.26 | 7.70 | 52.37 | 10.50 | 1.20 | 36.76 | 6.46 | 6.12 | 1.06 | 9.73 | 71.83 |
| | C80XX002 | 11.75 | 1.57 | 34.04 | 5.98 | 2.38 | 0.41 | 10.07 | 66.20 | 13.71 | 1.58 | 45.02 | 7.91 | 9.61 | 1.66 | 12.72 | 92.21 |
| C85 | | | | | | | | | | | | | | | | | |
| | C85KC005 | 27.79 | 4.94 | 14.81 | 1.59 | 0.00 | 0.00 | 33.48 | 82.61 | 34.74 | 4.99 | 19.49 | 2.09 | 0.00 | 0.00 | 44.35 | 105.66 |
| | C85KC008 | 52.96 | 10.30 | 21.97 | 2.57 | 0.00 | 0.00 | 71.35 | 159.15 | 64.73 | 10.40 | 28.91 | 3.38 | 0.00 | 0.00 | 91.77 | 199.19 |
| | C85KC009 | 32.79 | 5.82 | 19.82 | 2.12 | 0.00 | 0.00 | 39.50 | 100.05 | 40.98 | 5.89 | 26.08 | 2.80 | 0.00 | 0.00 | 52.32 | 128.07 |
| | C85KC010 | 52.93 | 9.40 | 25.24 | 2.71 | 0.00 | 0.00 | 63.77 | 154.05 | 66.16 | 9.51 | 33.21 | 3.56 | 0.00 | 0.00 | 84.46 | 196.90 |
| | C85KC011 | 69.47 | 13.51 | 25.24 | 2.95 | 0.00 | 0.00 | 93.58 | 204.75 | 84.90 | 13.64 | 33.21 | 3.88 | 0.00 | 0.00 | 120.36 | 255.99 |
| | C85LB001 | 33.93 | 6.03 | 17.25 | 1.85 | 0.00 | 0.00 | 40.88 | 99.94 | 42.41 | 6.10 | 22.69 | 2.43 | 0.00 | 0.00 | 54.14 | 127.77 |
| | C85LB014 | 44.30 | 7.87 | 19.75 | 2.12 | 0.00 | 0.00 | 53.36 | 127.40 | 55.37 | 7.96 | 25.99 | 2.79 | 0.00 | 0.00 | 70.68 | 162.79 |
| | C85LB015 | 61.47 | 10.92 | 19.75 | 2.12 | 0.00 | 0.00 | 74.05 | 168.31 | 76.83 | 11.05 | 25.99 | 2.79 | 0.00 | 0.00 | 98.07 | 214.73 |
| | C85LB016 | 71.10 | 13.83 | 19.75 | 2.31 | 0.00 | 0.00 | 95.78 | 202.77 | 86.90 | 13.96 | 25.99 | 3.04 | 0.00 | 0.00 | 123.20 | 253.09 |
| | C85LB019 | 43.59 | 6.91 | 27.03 | 4.48 | 0.00 | 0.00 | 55.79 | 137.80 | 53.65 | 7.00 | 35.34 | 5.85 | 0.00 | 0.00 | 76.78 | 178.62 |
| | C85LB021 | 61.57 | 10.91 | 27.03 | 2.90 | 0.00 | 0.00 | 88.13 | 190.54 | 73.89 | 11.01 | 35.34 | 3.79 | 0.00 | 0.00 | 116.83 | 240.86 |
| | C85LB024 | 27.87 | 4.94 | 13.70 | 1.34 | 0.00 | 0.00 | 31.50 | 79.35 | 33.45 | 4.99 | 18.03 | 1.76 | 0.00 | 0.00 | 40.31 | 98.54 |
| | C85MA002 | 67.28 | 11.92 | 32.35 | 3.47 | 0.00 | 0.00 | 96.29 | 211.31 | 80.74 | 12.03 | 42.31 | 4.53 | 0.00 | 0.00 | 127.66 | 267.27 |
| | C85MA003 | 87.84 | 17.21 | 38.06 | 4.45 | 0.00 | 0.00 | 138.90 | 286.46 | 109.80 | 17.40 | 49.78 | 5.82 | 0.00 | 0.00 | 190.24 | 373.04 |
| | C85MA005 | 53.59 | 9.52 | 23.64 | 2.53 | 0.00 | 0.00 | 64.56 | 153.84 | 66.98 | 9.63 | 31.11 | 3.33 | 0.00 | 0.00 | 85.50 | 196.55 |
| | C85MA006 | 59.10 | 11.49 | 23.64 | 2.76 | 0.00 | 0.00 | 79.61 | 176.60 | 72.24 | 11.61 | 31.11 | 3.63 | 0.00 | 0.00 | 102.40 | 220.99 |
| | C85MA007 | 80.17 | 15.59 | 26.08 | 3.05 | 0.00 | 0.00 | 108.00 | 232.89 | 97.99 | 15.74 | 34.31 | 4.01 | 0.00 | 0.00 | 138.91 | 290.96 |
| | C85MA008 | 53.72 | 9.54 | 23.64 | 2.53 | 0.00 | 0.00 | 64.72 | 154.15 | 67.15 | 9.65 | 31.11 | 3.33 | 0.00 | 0.00 | 85.72 | 196.96 |
| | C85MA011 | 85.11 | 15.08 | 57.10 | 6.12 | 0.00 | 0.00 | 121.82 | 285.23 | 102.14 | 15.22 | 74.66 | 8.00 | 0.00 | 0.00 | 161.50 | 361.52 |
| | C85MA012 | 80.07 | 14.22 | 41.72 | 4.47 | 0.00 | 0.00 | 96.46 | 236.94 | 100.08 | 14.39 | 54.90 | 5.88 | 0.00 | 0.00 | 127.75 | 303.00 |
| | C85TE001 | 34.77 | 5.51 | 14.27 | 2.36 | 0.00 | 0.00 | 44.51 | 101.42 | 42.80 | 5.58 | 18.67 | 3.09 | 0.00 | 0.00 | 61.25 | 131.39 |
| | C85TE002 | 48.40 | 7.67 | 23.79 | 3.94 | 0.00 | 0.00 | 61.95 | 145.75 | 59.56 | 7.77 | 31.11 | 5.15 | 0.00 | 0.00 | 85.25 | 188.84 |
| | C85TE003 | 54.38 | 9.64 | 31.88 | 3.42 | 0.00 | 0.00 | 77.83 | 177.15 | 65.26 | 9.73 | 41.69 | 4.47 | 0.00 | 0.00 | 103.19 | 224.34 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CONE | <u>DITIONS</u> | | |
|-----|----------|--------|-------|--------|---------|--------------|-----------------|--------|---------------|--------|-------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| 000 | C85TE008 | 31.15 | 5.53 | 12.80 | 1.37 | 0.00 | 0.00 | 37.53 | 88.38 | 38.94 | 5.60 | 16.84 | 1.80 | 0.00 | 0.00 | 49.70 | 112.88 |
| | C85TE009 | 38.43 | 6.83 | 15.99 | 1.71 | 0.00 | 0.00 | 46.29 | 109.25 | 48.03 | 6.91 | 21.05 | 2.26 | 0.00 | 0.00 | 61.31 | 139.56 |
| | C85TE010 | 50.92 | 9.05 | 16.69 | 1.79 | 0.00 | 0.00 | 61.34 | 139.79 | 63.65 | 9.15 | 21.96 | 2.35 | 0.00 | 0.00 | 81.25 | 178.36 |
| | C85TE011 | 68.43 | 13.31 | 21.91 | 2.56 | 0.00 | 0.00 | 92.18 | 198.39 | 83.64 | 13.44 | 28.82 | 3.37 | 0.00 | 0.00 | 118.57 | 247.84 |
| C90 | | | | | | | | | | | | | | | | | |
| | C90LB001 | 63.75 | 12.76 | 26.89 | 3.41 | 15.40 | 2.66 | 86.83 | 211.70 | 70.83 | 12.82 | 33.88 | 4.30 | 61.56 | 10.62 | 101.81 | 295.82 |
| | C90LB003 | 118.36 | 23.59 | 48.41 | 6.14 | 23.10 | 3.98 | 161.07 | 384.65 | 131.51 | 23.70 | 61.68 | 7.83 | 92.35 | 15.93 | 188.87 | 521.87 |
| C95 | | | | | | | | | | | | | | | | | |
| | C95AP004 | 24.91 | 4.41 | 10.98 | 10.69 | 0.00 | 0.00 | 31.88 | 82.87 | | | | | | | | |
| | C95AP005 | 0.79 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.01 | 1.94 | | | | | | | | |
| | C95AP006 | 1.49 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 1.91 | 3.66 | | | | | | | | |
| | C95AP007 | 39.40 | 6.98 | 18.28 | 16.14 | 0.00 | 0.00 | 50.43 | 131.23 | | | | | | | | |
| | C95AP008 | 6.04 | 1.07 | 0.00 | 0.50 | 0.00 | 0.00 | 7.73 | 15.34 | | | | | | | | |
| | C95AP009 | 2.01 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 4.94 | | | | | | | | |
| | C95AP010 | 52.45 | 9.29 | 18.62 | 16.35 | 0.00 | 0.00 | 67.13 | 163.84 | | | | | | | | |
| | C95AP011 | 1.88 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 2.41 | 4.62 | | | | | | | | |
| | C95AP012 | 7.52 | 1.33 | 0.00 | 0.50 | 0.00 | 0.00 | 9.63 | 18.98 | | | | | | | | |
| | C95AP013 | 50.37 | 8.92 | 30.37 | 23.51 | 0.00 | 0.00 | 64.47 | 177.64 | | | | | | | | |
| | C95AP014 | 1.71 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 4.20 | | | | | | | | |
| | C95AP015 | 6.56 | 1.16 | 0.00 | 0.50 | 0.00 | 0.00 | 8.40 | 16.62 | | | | | | | | |
| | C95AP016 | 2.30 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 5.65 | | | | | | | | |
| | C95AP017 | 21.33 | 3.78 | 10.73 | 9.54 | 0.00 | 0.00 | 27.30 | 72.68 | | | | | | | | |
| | C95AP018 | 0.72 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 1.77 | | | | | | | | |
| | C95AP019 | 4.08 | 0.72 | 0.00 | 0.50 | 0.00 | 0.00 | 5.23 | 10.53 | | | | | | | | |
| | C95AP020 | 23.45 | 4.16 | 19.13 | 14.66 | 0.00 | 0.00 | 30.02 | 91.42 | | | | | | | | |
| | C95AP021 | 36.60 | 6.49 | 22.14 | 17.49 | 0.00 | 0.00 | 46.85 | 129.57 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CONI | DITIONS | |
|-----|----------|-------|-------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 |
| C95 | cont. | | | | | | | | | | | | | | | |
| | C95AP022 | 5.53 | 0.98 | 2.06 | 2.26 | 0.00 | 0.00 | 7.08 | 17.91 | | | | | | | |
| | C95AP023 | 0.13 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.32 | | | | | | | |
| | C95LH003 | 21.79 | 3.86 | 9.35 | 8.70 | 0.00 | 0.00 | 27.89 | 71.59 | | | | | | | |
| | C95LH005 | 28.32 | 5.02 | 12.70 | 11.74 | 0.00 | 0.00 | 36.26 | 94.04 | | | | | | | |
| | C95LH011 | 52.95 | 9.38 | 19.13 | 16.66 | 0.00 | 0.00 | 67.77 | 165.89 | | | | | | | |
| | C95LH013 | 67.66 | 11.99 | 19.13 | 16.66 | 0.00 | 0.00 | 86.61 | 202.05 | | | | | | | |
| | C95LH015 | 90.19 | 15.98 | 27.20 | 23.58 | 0.00 | 0.00 | 115.45 | 272.40 | | | | | | | |
| | C95LH022 | 19.23 | 3.45 | 3.00 | 3.83 | 0.78 | 0.13 | 24.67 | 55.09 | | | | | | | |
| | C95LH023 | 26.78 | 4.80 | 5.58 | 6.40 | 1.04 | 0.18 | 34.36 | 79.14 | | | | | | | |
| D10 | | | | | | | | | | | | | | | | |
| İ | D10IR003 | 10.23 | 1.58 | 0.00 | 0.79 | 0.00 | 0.00 | 16.61 | 29.21 | | | | | | | |
| | D10IR005 | 38.52 | 4.34 | 29.90 | 4.08 | 0.00 | 0.00 | 62.56 | 139.40 | | | | | | | |
| | D10SU002 | 12.60 | 1.94 | 0.00 | 0.80 | 0.00 | 0.00 | 20.46 | 35.80 | | | | | | | |
| | D10SU003 | 12.91 | 1.99 | 0.00 | 0.80 | 0.00 | 0.00 | 20.96 | 36.66 | | | | | | | |
| | D10SU005 | 19.63 | 2.21 | 36.16 | 4.94 | 0.00 | 0.00 | 31.88 | 94.82 | | | | | | | |
| | D10SU006 | 19.87 | 2.24 | 36.16 | 4.94 | 0.00 | 0.00 | 32.27 | 95.48 | | | | | | | |
| D15 | | | | | | | | | | | | | | | | |
| | D15BI001 | 1.24 | 0.14 | 3.26 | 0.51 | 0.00 | 0.00 | 1.81 | 6.96 | | | | | | | |
| | D15BI002 | 2.25 | 0.25 | 2.78 | 0.38 | 0.00 | 0.00 | 3.29 | 8.95 | | | | | | | |
| | D15BI003 | 3.48 | 0.39 | 4.17 | 0.57 | 0.00 | 0.00 | 5.09 | 13.70 | | | | | | | |
| | D15BI004 | 5.34 | 0.60 | 6.26 | 0.86 | 0.00 | 0.00 | 7.80 | 20.86 | | | | | | | |
| | D15BI005 | 7.16 | 0.81 | 8.62 | 1.18 | 0.00 | 0.00 | 10.47 | 28.24 | | | | | | | |
| | D15BI006 | 11.43 | 1.29 | 16.55 | 2.26 | 0.00 | 0.00 | 16.71 | 48.24 | | | | | | | |
| | D15BI007 | 14.12 | 1.59 | 26.29 | 3.59 | 0.00 | 0.00 | 20.63 | 66.22 | | | | | | | |
| | D15BI008 | 15.76 | 1.78 | 26.29 | 3.59 | 0.00 | 0.00 | 23.03 | 70.45 | | | | | | | |
| | D15VE001 | 3.79 | 0.43 | 3.62 | 0.49 | 0.00 | 0.00 | 5.54 | 13.87 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CONI | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|-----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | D15VE002 | 6.48 | 0.73 | 6.54 | 0.89 | 0.00 | 0.00 | 9.47 | 24.11 | | | | | | | |
| | D15VE003 | 9.08 | 1.02 | 8.76 | 1.20 | 0.00 | 0.00 | 13.27 | 33.33 | | | | | | | |
| | D15VE004 | 11.26 | 1.27 | 11.54 | 1.58 | 0.00 | 0.00 | 16.45 | 42.10 | | | | | | | |
| | D15VE005 | 32.11 | 3.62 | 17.39 | 2.38 | 0.00 | 0.00 | 46.92 | 102.42 | | | | | | | |
| | D15VE006 | 23.61 | 2.66 | 19.47 | 2.66 | 0.00 | 0.00 | 34.50 | 82.90 | | | | | | | |
| | D15VE007 | 40.32 | 4.54 | 27.82 | 3.80 | 0.00 | 0.00 | 58.91 | 135.39 | | | | | | | |
| | D15VE008 | 44.97 | 5.07 | 31.29 | 4.27 | 0.00 | 0.00 | 65.72 | 151.32 | | | | | | | |
| | D15VE009 | 0.53 | 0.06 | 1.49 | 0.23 | 0.00 | 0.00 | 0.78 | 3.09 | | | | | | | |
| | D15VE010 | 1.56 | 0.18 | 3.06 | 0.42 | 0.00 | 0.00 | 2.28 | 7.50 | | | | | | | |
| | D15VE011 | 1.59 | 0.18 | 3.06 | 0.42 | 0.00 | 0.00 | 2.32 | 7.57 | | | | | | | |
| | D15VE012 | 3.29 | 0.37 | 3.82 | 0.52 | 0.00 | 0.00 | 4.81 | 12.81 | | | | | | | |
| | D15XX001 | 0.73 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.07 | 1.88 | | | | | | | |
| | D15XX002 | 1.10 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.61 | 2.83 | | | | | | | |
| D20 | | | | | | | | | | | | | | | | |
| | D20AD007 | 1.61 | 0.15 | 0.84 | 1.26 | 0.00 | 0.00 | 2.22 | 6.08 | | | | | | | |
| | D20DN001 | 0.22 | 0.02 | 0.37 | 0.20 | 0.00 | 0.00 | 0.30 | 1.11 | | | | | | | |
| | D20DN002 | 0.31 | 0.03 | 0.23 | 0.13 | 0.00 | 0.00 | 0.43 | 1.13 | | | | | | | |
| | D20DN003 | 0.95 | 0.09 | 4.89 | 0.38 | 0.00 | 0.00 | 1.31 | 7.62 | | | | | | | |
| | D20DN004 | 0.98 | 0.09 | 1.32 | 0.72 | 0.00 | 0.00 | 1.35 | 4.46 | | | | | | | |
| | D20HG022 | 1.33 | 0.12 | 4.89 | 0.38 | 0.00 | 0.00 | 1.84 | 8.56 | | | | | | | |
| D25 | | | | | | | | | | | | | | | | |
| | D25AD003 | 10.06 | 1.13 | 9.60 | 1.12 | 0.00 | 0.00 | 16.34 | 38.25 | | | | | | | |
| | D25AD004 | 6.48 | 0.73 | 3.89 | 0.45 | 0.00 | 0.00 | 10.53 | 22.08 | | | | | | | |
| | D25EZ001 | 0.67 | 0.08 | 0.00 | 0.50 | 0.00 | 0.00 | 1.10 | 2.35 | | | | | | | |
| | D25EZ002 | 0.52 | 0.07 | 0.00 | 0.50 | 0.13 | 0.02 | 0.87 | 2.11 | | | | | | | |
| | D25EZ003 | 0.59 | 0.07 | 0.00 | 0.50 | 0.09 | 0.02 | 0.98 | 2.25 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE C | PERATI | ING CON | DITIONS | | |
|-----|--|---|--|---|---|--|--|--|--|------|------|----------|--------|--------------|----------------|--------|---------------|
| 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 |
| D25 | cont. D25EZ005 | 2.24 | 0.26 | 0.00 | 1.25 | 0.18 | 0.03 | 3.67 | 7.63 | | | | | | | | |
| D30 | | | | | | | | | | | | | | | | | |
| | D30HD001 D30HD002 D30HD003 D30MR001 D30MR003 D30MR005 D30MR006 | 12.90 16.34 19.92 1.11 7.39 17.74 18.28 | 1.45 1.84 2.24 0.12 0.84 2.03 2.09 | 29.21 37.55 46.59 2.17 8.07 18.73 21.44 | 5.99 8.13 10.37 0.34 1.10 2.56 2.92 | 0.00 0.00 0.00 0.00 0.17 0.61 0.61 | 0.00 0.00 0.00 0.00 0.03 0.11 | 20.95 26.53 32.34 1.80 12.05 28.93 29.82 | 70.50 90.39 111.46 5.54 29.65 70.71 75.27 | | | | | | | | |
| | D30MR007 | 23.18 | 2.65 | 21.44 | 2.92 | 0.61 | 0.11 | 37.77 | 88.68 | | | | | | | | |
| D35 | | | | | | | | | | | | | | | | | |
| | D35DT001 D35DT002 D35DT003 D35DT004 D35DT005 D35DT006 D35IB003 D35IB004 D35IB005 D35IB006 D35RL007 | 46.44 47.70 54.04 57.29 89.12 60.53 34.34 32.62 37.87 39.84 41.42 | 6.49 6.67 7.55 8.01 12.46 10.72 6.14 5.85 6.78 7.13 5.87 | 62.59 62.59 62.59 73.02 105.70 105.70 74.02 72.63 87.93 89.84 84.34 | 11.60 11.60 11.60 13.54 19.59 16.48 11.54 11.32 13.71 14.01 15.63 | 0.00 0.00 0.00 0.00 0.00 1.04 1.42 1.42 1.42 | 0.00 0.00 0.00 0.00 0.00 0.18 0.24 0.24 0.24 | 70.70 72.62 82.27 87.23 135.69 92.15 52.38 49.78 57.79 60.78 63.23 | 197.82 201.18 218.05 239.09 362.56 285.58 179.64 173.86 205.74 213.26 212.27 | | | | | | | | |
| F10 | | | | | | | | | | | | | | | | | |
| | F10JC001 F10JC002 | 5.95 6.50 | 0.64 0.70 | 8.51 8.51 | 0.99 0.99 | 1.12 1.12 | 0.19 0.19 | 7.01 7.65 | 24.41 25.66 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAG | E OPERA | TING CON | NDITIONS | | | | | SEVERE | OPERATI | NG CON | DITIONS | | |
|------|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|--------|---------|--------------|----------------|--------|---------------|
| 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 |
| 0.10 | | | | | | | | | | | | | | | | | |
| G10 | | | | | | | | | | | | | | | | | |
| | G10CA012 | 3.62 | 0.31 | 35.63 | 4.16 | 0.00 | 0.00 | 3.39 | 47.11 | 4.53 | 0.32 | 47.12 | 5.51 | 0.00 | 0.00 | 4.84 | 62.32 |
| | G10CA013 | 4.74 | 0.40 | 45.95 | 5.37 | 0.00 | 0.00 | 4.44 | 60.90 | 5.93 | 0.41 | 60.77 | 7.10 | 0.00 | 0.00 | 6.34 | 80.55 |
| | G10CA014 | 6.46 | 0.55 | 60.81 | 7.11 | 0.00 | 0.00 | 6.05 | 80.98 | 8.08 | 0.56 | 80.43 | 9.40 | 0.00 | 0.00 | 8.64 | 107.11 |
| | G10CA015 | 8.59 | 0.73 | 77.95 | 9.11 | 0.00 | 0.00 | 8.04 | 104.42 | 10.74 | 0.75 | 103.09 | 12.05 | 0.00 | 0.00 | 11.48 | 138.11 |
| | G10CA016 | 10.50 | 0.89 | 92.70 | 10.83 | 0.00 | 0.00 | 9.83 | 124.75 | 13.13 | 0.91 | 122.60 | 14.32 | 0.00 | 0.00 | 14.03 | 164.99 |
| | G10CA017 | 23.66 | 2.01 | 113.46 | 13.26 | 0.00 | 0.00 | 22.13 | 174.52 | 29.57 | 2.06 | 150.06 | 17.53 | 0.00 | 0.00 | 31.61 | 230.83 |
| | G10CA018 | 27.81 | 2.36 | 250.29 | 29.24 | 0.00 | 0.00 | 26.02 | 335.72 | 34.76 | 2.42 | 331.03 | 38.68 | 0.00 | 0.00 | 37.15 | 444.04 |
| | G10CA019 | 40.15 | 3.41 | 261.41 | 30.54 | 0.00 | 0.00 | 37.56 | 373.07 | 50.19 | 3.50 | 345.74 | 40.40 | 0.00 | 0.00 | 53.64 | 493.47 |
| | G10CA020 | 2.93 | 0.25 | 19.74 | 2.31 | 0.00 | 0.00 | 2.74 | 27.97 | 3.66 | 0.25 | 26.11 | 3.05 | 0.00 | 0.00 | 3.91 | 36.98 |
| | G10WC001 | 0.17 | 0.01 | 1.78 | 0.21 | 0.00 | 0.00 | 0.14 | 2.31 | 0.19 | 0.01 | 2.32 | 0.27 | 0.00 | 0.00 | 0.18 | 2.97 |
| | G10WC002 | 0.20 | 0.01 | 2.45 | 0.29 | 0.00 | 0.00 | 0.16 | 3.11 | 0.23 | 0.01 | 3.19 | 0.37 | 0.00 | 0.00 | 0.21 | 4.01 |
| | G10WC003 | 0.63 | 0.04 | 3.56 | 0.42 | 0.00 | 0.00 | 0.51 | 5.16 | 0.72 | 0.04 | 4.64 | 0.54 | 0.00 | 0.00 | 0.67 | 6.61 |
| | G10WC004 | 0.35 | 0.02 | 4.00 | 0.47 | 0.00 | 0.00 | 0.28 | 5.12 | 0.39 | 0.02 | 5.23 | 0.61 | 0.00 | 0.00 | 0.37 | 6.62 |
| | G10XX001 | 0.10 | 0.01 | 0.56 | 0.07 | 0.00 | 0.00 | 0.08 | 0.82 | 0.12 | 0.01 | 0.73 | 0.09 | 0.00 | 0.00 | 0.11 | 1.06 |
| | G10XX002 | 0.40 | 0.03 | 4.00 | 0.47 | 0.00 | 0.00 | 0.32 | 5.22 | 0.46 | 0.03 | 5.23 | 0.61 | 0.00 | 0.00 | 0.43 | 6.76 |
| | G10XX003 | 1.48 | 0.10 | 2.61 | 0.31 | 0.00 | 0.00 | 1.19 | 5.69 | 1.70 | 0.11 | 3.45 | 0.40 | 0.00 | 0.00 | 1.59 | 7.25 |
| | G10XX004 | 0.77 | 0.05 | 1.02 | 0.12 | 0.00 | 0.00 | 0.62 | 2.58 | 0.88 | 0.05 | 1.35 | 0.16 | 0.00 | 0.00 | 0.82 | 3.26 |
| | G10XX005 | 2.49 | 0.21 | 8.01 | 0.94 | 0.00 | 0.00 | 2.33 | 13.98 | 3.12 | 0.22 | 10.45 | 1.22 | 0.00 | 0.00 | 3.33 | 18.34 |
| | G10XX006 | 1.65 | 0.14 | 11.12 | 1.30 | 0.00 | 0.00 | 1.54 | 15.75 | 2.06 | 0.14 | 14.51 | 1.70 | 0.00 | 0.00 | 2.20 | 20.61 |
| | G10XX007 | 1.21 | 0.10 | 15.57 | 1.82 | 0.00 | 0.00 | 1.13 | 19.83 | 1.52 | 0.11 | 20.32 | 2.37 | 0.00 | 0.00 | 1.62 | 25.94 |
| | G10XX008 | 2.37 | 0.20 | 12.14 | 1.42 | 0.00 | 0.00 | 2.22 | 18.35 | 2.96 | 0.21 | 16.06 | 1.88 | 0.00 | 0.00 | 3.17 | 24.28 |
| | G10XX009 | 2.23 | 0.19 | 16.22 | 1.90 | 0.00 | 0.00 | 2.08 | 22.62 | 2.78 | 0.19 | 21.46 | 2.51 | 0.00 | 0.00 | 2.97 | 29.91 |
| | G10XX010 | 5.75 | 0.49 | 19.29 | 2.25 | 0.00 | 0.00 | 5.38 | 33.16 | 7.18 | 0.50 | 25.51 | 2.98 | 0.00 | 0.00 | 7.68 | 43.85 |
| | G10XX011 | 4.87 | 0.41 | 42.55 | 4.97 | 0.00 | 0.00 | 4.56 | 57.36 | 6.09 | 0.42 | 56.27 | 6.57 | 0.00 | 0.00 | 6.51 | 75.86 |
| | G10XX012 | 7.66 | 0.65 | 48.56 | 5.67 | 0.00 | 0.00 | 7.17 | 69.71 | 9.57 | 0.67 | 64.23 | 7.50 | 0.00 | 0.00 | 10.23 | 92.20 |
| | G10XX013 | 6.47 | 0.55 | 64.67 | 7.56 | 0.00 | 0.00 | 6.05 | 85.30 | 8.09 | 0.56 | 85.53 | 9.99 | 0.00 | 0.00 | 8.64 | 112.81 |
| | G10XX014 | 7.29 | 0.62 | 80.90 | 9.45 | 0.00 | 0.00 | 6.82 | 105.08 | 9.12 | 0.64 | 106.99 | 12.50 | 0.00 | 0.00 | 9.74 | 138.99 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERAT | ING CON | DITIONS | | |
|------|----------------------|----------------|--------------|----------------|--------------|--------------|----------------|----------------|-----------------|----------------|--------------|----------------|--------------|---------------|----------------|----------------|-----------------|
| 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. | | | | | | | | | | | | | | | | |
| 910 | G10XX015 | 15.03 | 1.28 | 119.13 | 13.92 | 0.00 | 0.00 | 14.06 | 163.42 | 18.78 | 1.31 | 157.56 | 18.41 | 0.00 | 0.00 | 20.08 | 216.14 |
| | G10XX016 | 14.04 | 1.19 | 161.68 | 18.89 | 0.00 | 0.00 | 13.14 | 208.94 | 17.56 | 1.22 | 213.84 | 24.99 | 0.00 | 0.00 | 18.77 | 276.38 |
| G15 | | | | | | | | | | | | | | | | | |
| 613 | | | | | | | | | | | | | | | | | |
| | G15CA001 | 15.84 | 2.58 | 14.65 | 2.43 | 2.20 | 0.38 | 20.85 | 58.93 | 17.01 | 2.59 | 18.69 | 3.10 | 7.26 | 1.25 | 25.36 | 75.26 |
| | G15CA003 | 15.71 | 2.56 | 16.77 | 2.78 | 2.20 | 0.38 | 20.68 | 61.08 | 16.87 | 2.57 | 21.40 | 3.54 | 7.26 | 1.25 | 25.16 | 78.05 |
| | G15CA004 | 16.12 | 2.64 | 19.42 | 3.22 | 2.70 | 0.47 | 21.25 | 65.82 | 17.32 | 2.65 | 24.78 | 4.10 | 8.91 | 1.54 | 25.85 | 85.15 |
| | G15CA005 | 24.13 | 3.98 | 27.49 | 4.55 | 5.45 | 0.94 | 31.87 | 98.41 | 25.91 | 4.00 | 35.07 | 5.81 | 18.00 | 3.11 | 38.76 | 130.66 |
| | G15CA006 | 36.81 17.87 | 6.02 2.92 | 31.52 22.61 | 5.22 3.74 | 6.82 2.70 | 1.18 0.47 | 48.50 23.54 | 136.07 73.85 | 39.54 19.20 | 6.05 2.93 | 40.22 28.84 | 6.66 4.78 | 22.52 8.91 | 3.88 1.54 | 58.99 28.63 | 177.86 94.83 |
| | G15CA009 G15JD008 | 12.06 | 2.92 | 16.03 | 2.65 | 4.32 | 0.47 | 16.02 | 53.86 | 12.96 | 2.93 | 20.45 | 3.39 | 14.25 | 2.46 | 26.63 19.48 | 75.03 |
| | G15JD008 G15JD009 | 12.00 | 2.03 | 16.56 | 2.03 | 4.88 | 0.73 | 16.02 | 56.97 | 13.76 | 2.04 | 21.13 | 3.50 | 16.48 | 2.40 | 20.67 | 80.54 |
| | G153D007 G15JD010 | 13.08 | 2.19 | 19.64 | 3.25 | 4.32 | 0.75 | 17.35 | 60.58 | 14.05 | 2.10 | 25.05 | 4.15 | 14.25 | 2.46 | 21.10 | 83.26 |
| | G15JD010 | 15.19 | 2.53 | 21.76 | 3.60 | 4.88 | 0.73 | 20.11 | 68.91 | 16.32 | 2.54 | 27.76 | 4.60 | 16.48 | 2.84 | 24.46 | 95.00 |
| 1140 | 0.002011 | .00 | 2.00 | 20 | 0.00 | | 0.0 . | | 00.01 | .0.02 | | 21110 | | | | | 00.00 |
| H10 | | | | | | | | | | | | | | | | | |
| | H10NP019 | 0.87 | 0.06 | 0.00 | 0.80 | 0.00 | 0.00 | 1.36 | 3.09 | | | | | | | | |
| | H10NP020 | 0.91 | 0.06 | 0.00 | 0.80 | 0.00 | 0.00 | 1.42 | 3.19 | | | | | | | | |
| | H10NP021 | 1.07 | 0.07 | 0.00 | 1.20 | 0.00 | 0.00 | 1.66 | 4.00 | | | | | | | | |
| | H10NP022 | 1.33 | 0.09 | 0.00 | 1.20 | 0.00 | 0.00 | 2.06 | 4.68 | | | | | | | | |
| | H10NP023 | 1.73 | 0.11 | 0.00 | 1.60 | 0.00 | 0.00 | 2.69 | 6.13 | | | | | | | | |
| | H10NP024 | 2.75 | 0.18 | 0.00 | 1.60 | 0.00 | 0.00 | 4.28 | 8.81 | | | | | | | | |
| | H10NP025 | 4.92 | 0.32 | 0.00 | 2.00 | 0.00 | 0.00 | 7.64 | 14.88 | | | | | | | | |
| | H10NP026 | 6.27 | 0.41 | 0.00 | 2.00 | 0.00 | 0.00 | 9.76 | 18.44 | | | | | | | | |
| | H10NP027 | 7.37 | 0.48 | 0.00 | 2.00 | 0.00 | 0.00 | 11.47 | 21.32 | | | | | | | | |
| | H10NP028 | 10.29 | 0.67 | 0.00 | 2.40 | 0.00 | 0.00 | 15.99 | 29.35 | | | | | | | | |
| | H10NP029 | 13.44 | 0.87 | 0.00 | 2.40 | 0.00 | 0.00 | 20.90 | 37.61 | | | | | | | | |
| | H10NP030 | 32.92 | 2.13 | 0.00 | 2.40 | 0.00 | 0.00 | 51.19 | 88.64 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | H13AY007 | 15.81 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 22.14 | 39.57 | | | | | | | | |
| | H13AY008 | 7.77 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 10.88 | 19.44 | | | | | | | | |
| | H13AY009 | 14.07 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 19.69 | 35.20 | | | | | | | | |
| | H13AY010 | 7.17 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 10.04 | 17.94 | | | | | | | | |
| | H13AY011 | 11.76 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 16.47 | 29.43 | | | | | | | | |
| | H13AY012 | 6.02 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 8.43 | 15.07 | | | | | | | | |
| | H13AY013 | 9.44 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 13.21 | 23.61 | | | | | | | | |
| | H13AY014 | 5.07 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 7.10 | 12.69 | | | | | | | | |
| | H13AY015 | 5.56 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 7.79 | 13.92 | | | | | | | | |
| | H13AY016 | 3.61 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 9.03 | | | | | | | | |
| | H13AY017 | 17.56 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 24.58 | 43.93 | | | | | | | | |
| | H13AY018 | 8.94 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 12.52 | 22.37 | | | | | | | | |
| | H13AY019 | 1.15 | 0.12 | 0.09 | 0.30 | 0.00 | 0.00 | 1.61 | 3.27 | | | | | | | | |
| | H13AY020 | 1.49 | 0.15 | 0.09 | 0.30 | 0.00 | 0.00 | 2.08 | 4.11 | | | | | | | | |
| | H13AY021 | 19.82 | 1.87 | 0.00 | 0.00 | 0.64 | 0.11 | 23.25 | 45.69 | | | | | | | | |
| | H13AY022 | 10.67 | 1.02 | 0.00 | 0.00 | 0.64 | 0.11 | 12.53 | 24.97 | | | | | | | | |
| | H13AY023 | 17.99 | 1.70 | 0.00 | 0.00 | 0.64 | 0.11 | 21.11 | 41.55 | | | | | | | | |
| | H13AY024 | 9.45 | 0.91 | 0.00 | 0.00 | 0.64 | 0.11 | 11.11 | 22.22 | | | | | | | | |
| | H13AY025 | 16.02 | 1.52 | 0.00 | 0.00 | 0.64 | 0.11 | 18.80 | 37.09 | | | | | | | | |
| | H13AY026 | 8.70 | 0.84 | 0.00 | 0.00 | 0.64 | 0.11 | 10.23 | 20.52 | | | | | | | | |
| | H13AY027 | 13.46 | 1.28 | 0.00 | 0.00 | 0.64 | 0.11 | 15.80 | 31.29 | | | | | | | | |
| | H13AY028 | 7.36 | 0.71 | 0.00 | 0.00 | 0.64 | 0.11 | 8.66 | 17.48 | | | | | | | | |
| | H13AY029 | 10.87 | 1.04 | 0.00 | 0.00 | 0.64 | 0.11 | 12.77 | 25.43 | | | | | | | | |
| | H13AY030 | 6.23 | 0.61 | 0.00 | 0.00 | 0.64 | 0.11 | 7.34 | 14.93 | | | | | | | | |
| | H13AY031 | 7.08 | 0.68 | 0.00 | 0.00 | 0.64 | 0.11 | 8.34 | 16.85 | | | | | | | | |
| | H13AY032 | 4.64 | 0.46 | 0.00 | 0.00 | 0.64 | 0.11 | 5.48 | 11.33 | | | | | | | | |
| | H13BB001 | 3.38 | 0.14 | 0.86 | 1.22 | 0.00 | 0.00 | 4.94 | 10.54 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERAT | ING CON | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|--------|--------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | H13BB002 | 4.32 | 0.18 | 1.29 | 1.71 | 0.00 | 0.00 | 6.33 | 13.83 | | | | | | | | |
| | H13BC003 | 5.00 | 0.23 | 0.43 | 0.26 | 0.00 | 0.00 | 5.44 | 11.36 | | | | | | | | |
| | H13BC006 | 3.62 | 0.17 | 0.26 | 0.16 | 0.00 | 0.00 | 3.94 | 8.15 | | | | | | | | |
| | H13BC007 | 5.96 | 0.27 | 0.26 | 0.16 | 0.00 | 0.00 | 6.49 | 13.14 | | | | | | | | |
| | H13BC008 | 6.86 | 0.32 | 0.43 | 0.26 | 0.00 | 0.00 | 7.47 | 15.34 | | | | | | | | |
| | H13BC009 | 5.15 | 0.24 | 0.26 | 0.16 | 0.00 | 0.00 | 5.61 | 11.42 | | | | | | | | |
| | H13BC010 | 2.93 | 0.13 | 0.26 | 0.16 | 0.00 | 0.00 | 3.19 | 6.67 | | | | | | | | |
| | H13BC011 | 4.55 | 0.21 | 0.43 | 0.26 | 0.00 | 0.00 | 4.96 | 10.41 | | | | | | | | |
| | H13BC012 | 3.72 | 0.17 | 0.26 | 0.16 | 0.00 | 0.00 | 4.05 | 8.36 | | | | | | | | |
| | H13BC013 | 3.37 | 0.15 | 0.26 | 0.16 | 0.00 | 0.00 | 3.67 | 7.61 | | | | | | | | |
| | H13CB001 | 2.25 | 0.21 | 0.43 | 0.51 | 0.00 | 0.00 | 2.64 | 6.04 | | | | | | | | |
| | H13CB002 | 2.44 | 0.23 | 0.86 | 0.77 | 0.00 | 0.00 | 2.85 | 7.15 | | | | | | | | |
| | H13CO002 | 1.07 | 0.10 | 0.43 | 0.51 | 0.00 | 0.00 | 1.25 | 3.36 | | | | | | | | |
| | H13CO003 | 1.78 | 0.21 | 0.26 | 0.41 | 0.00 | 0.00 | 2.49 | 5.15 | | | | | | | | |
| | H13CO004 | 2.61 | 0.32 | 0.26 | 0.66 | 0.00 | 0.00 | 3.65 | 7.50 | | | | | | | | |
| | H13CO005 | 4.52 | 0.55 | 0.26 | 0.66 | 0.00 | 0.00 | 6.32 | 12.31 | | | | | | | | |
| | H13CO006 | 3.80 | 0.46 | 0.26 | 0.51 | 0.00 | 0.00 | 5.32 | 10.35 | | | | | | | | |
| | H13EP001 | 2.66 | 0.25 | 0.43 | 0.51 | 0.00 | 0.00 | 3.11 | 6.96 | | | | | | | | |
| | H13EP002 | 2.73 | 0.33 | 0.64 | 0.69 | 0.00 | 0.00 | 3.83 | 8.22 | | | | | | | | |
| | H13KP001 | 7.65 | 0.72 | 1.07 | 0.65 | 0.15 | 0.03 | 8.97 | 19.24 | | | | | | | | |
| | H13KP002 | 8.69 | 0.81 | 1.33 | 0.81 | 0.15 | 0.03 | 10.18 | 22.00 | | | | | | | | |
| | H13KP003 | 10.23 | 0.96 | 1.89 | 1.15 | 0.15 | 0.03 | 11.98 | 26.39 | | | | | | | | |
| | H13KP004 | 11.77 | 1.10 | 2.40 | 1.46 | 0.15 | 0.03 | 13.79 | 30.70 | | | | | | | | |
| | H13MN001 | 32.46 | 3.06 | 12.87 | 10.06 | 0.66 | 0.11 | 42.86 | 102.08 | | | | | | | | |
| | H13MN002 | 37.87 | 3.59 | 17.16 | 13.41 | 0.95 | 0.16 | 50.03 | 123.17 | | | | | | | | |
| | H13MN003 | 43.00 | 4.06 | 17.16 | 14.41 | 0.95 | 0.16 | 56.79 | 136.53 | | | | | | | | |
| | H13MN004 | 49.16 | 4.64 | 25.74 | 20.12 | 0.95 | 0.16 | 64.90 | 165.67 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CONE | <u>DITIONS</u> | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | H13PR001 | 8.83 | 0.90 | 0.26 | 0.16 | 0.00 | 0.00 | 12.36 | 22.51 | | | | | | | |
| | H13PR002 | 26.11 | 2.46 | 0.26 | 1.66 | 0.64 | 0.11 | 30.61 | 61.85 | | | | | | | |
| | H13PR003 | 15.63 | 1.60 | 0.43 | 0.26 | 0.00 | 0.00 | 21.89 | 39.81 | | | | | | | |
| | H13PR005 | 20.59 | 2.10 | 0.43 | 0.26 | 0.00 | 0.00 | 28.83 | 52.21 | | | | | | | |
| | H13PR006 | 23.02 | 2.17 | 0.43 | 1.76 | 0.64 | 0.11 | 27.00 | 55.13 | | | | | | | |
| | H13PR007 | 25.50 | 2.61 | 0.86 | 0.52 | 0.00 | 0.00 | 35.69 | 65.18 | | | | | | | |
| | H13PR011 | 36.17 | 3.39 | 0.17 | 1.60 | 0.64 | 0.11 | 42.38 | 84.46 | | | | | | | |
| | H13PR012 | 38.89 | 3.65 | 0.26 | 1.66 | 0.64 | 0.11 | 45.58 | 90.79 | | | | | | | |
| | H13PR013 | 41.29 | 3.87 | 0.43 | 1.76 | 0.64 | 0.11 | 48.38 | 96.48 | | | | | | | |
| | H13PR014 | 46.34 | 4.34 | 0.69 | 1.92 | 0.64 | 0.11 | 54.29 | 108.33 | | | | | | | |
| | H13PR015 | 52.83 | 4.94 | 0.69 | 1.92 | 0.64 | 0.11 | 61.89 | 123.02 | | | | | | | |
| | H13PR022 | 18.26 | 1.87 | 0.17 | 0.10 | 0.00 | 0.00 | 25.56 | 45.96 | | | | | | | |
| | H13PR023 | 20.89 | 2.13 | 0.26 | 0.16 | 0.00 | 0.00 | 29.24 | 52.68 | | | | | | | |
| | H13PR024 | 23.15 | 2.37 | 0.26 | 0.16 | 0.00 | 0.00 | 32.41 | 58.35 | | | | | | | |
| | H13PR025 | 27.90 | 2.85 | 0.26 | 0.16 | 0.00 | 0.00 | 39.07 | 70.24 | | | | | | | |
| | H13PR026 | 34.01 | 3.48 | 0.34 | 0.21 | 0.00 | 0.00 | 47.62 | 85.66 | | | | | | | |
| | H13S5001 | 5.25 | 0.49 | 0.26 | 0.16 | 0.00 | 0.00 | 6.15 | 12.31 | | | | | | | |
| | H13S5002 | 8.23 | 0.77 | 0.43 | 0.26 | 0.00 | 0.00 | 9.63 | 19.32 | | | | | | | |
| | H13S5003 | 9.77 | 0.91 | 0.43 | 0.26 | 0.00 | 0.00 | 11.44 | 22.81 | | | | | | | |
| | H13SH001 | 5.09 | 0.47 | 1.72 | 0.94 | 0.00 | 0.00 | 6.70 | 14.92 | | | | | | | |
| | H13SH002 | 4.77 | 0.44 | 1.72 | 0.94 | 0.00 | 0.00 | 6.29 | 14.16 | | | | | | | |
| | H13SH003 | 8.21 | 0.76 | 3.43 | 1.88 | 0.00 | 0.00 | 10.82 | 25.10 | | | | | | | |
| | H13SH004 | 8.57 | 0.80 | 3.43 | 1.88 | 0.00 | 0.00 | 11.29 | 25.97 | | | | | | | |
| | H13SH005 | 13.73 | 1.28 | 8.58 | 4.71 | 0.00 | 0.00 | 18.10 | 46.40 | | | | | | | |
| | H13SH006 | 44.10 | 4.10 | 25.74 | 14.12 | 0.00 | 0.00 | 58.10 | 146.16 | | | | | | | |
| | H13SH007 | 57.42 | 5.34 | 51.48 | 28.24 | 0.00 | 0.00 | 75.66 | 218.14 | | | | | | | |
| | H13TH001 | 1.25 | 0.12 | 0.43 | 0.26 | 0.00 | 0.00 | 1.46 | 3.52 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE C | PERAT | ING CONE | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|-------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | H13TH002 | 2.30 | 0.22 | 1.02 | 0.12 | 0.08 | 0.01 | 2.70 | 6.45 | | | | | | | |
| | H13TH003 | 2.61 | 0.25 | 1.02 | 0.12 | 0.08 | 0.01 | 3.06 | 7.15 | | | | | | | |
| | H13YB001 | 34.54 | 3.22 | 4.29 | 2.61 | 0.00 | 0.00 | 40.44 | 85.10 | | | | | | | |
| | H13YB002 | 34.54 | 3.22 | 4.29 | 2.61 | 0.00 | 0.00 | 40.44 | 85.10 | | | | | | | |
| | H13YB003 | 34.54 | 3.22 | 4.29 | 2.61 | 0.00 | 0.00 | 40.44 | 85.10 | | | | | | | |
| H20 | | | | | | | | | | | | | | | | |
| | H20BE002 | 3.09 | 0.29 | 0.00 | 0.20 | 0.00 | 0.00 | 3.85 | 7.43 | | | | | | | |
| | H20BE003 | 4.00 | 0.37 | 0.00 | 0.30 | 0.00 | 0.00 | 4.98 | 9.65 | | | | | | | |
| | H20BE004 | 5.82 | 0.54 | 0.00 | 0.40 | 0.00 | 0.00 | 7.24 | 14.00 | | | | | | | |
| H25 | | | | | | | | | | | | | | | | |
| | H25AU006 | 0.86 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | 2.17 | | | | | | | |
| | H25AU007 | 1.02 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.49 | 2.57 | | | | | | | |
| | H25AU008 | 1.67 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 2.44 | 4.21 | | | | | | | |
| | H25AU009 | 2.39 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 6.03 | | | | | | | |
| | H25AU010 | 2.65 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 3.88 | 6.69 | | | | | | | |
| | H25AX001 | 1.20 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 3.02 | | | | | | | |
| | H25AX002 | 1.36 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.99 | 3.43 | | | | | | | |
| | H25AX003 | 1.49 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 3.75 | | | | | | | |
| | H25AX004 | 1.74 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 2.54 | 4.38 | | | | | | | |
| | H25AX005 | 1.76 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 4.43 | | | | | | | |
| | H25AX006 | 2.22 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 3.25 | 5.60 | | | | | | | |
| | H25BS001 | 0.96 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 | 2.22 | | | | | | | |
| | H25BS002 | 0.98 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 2.26 | | | | | | | |
| | H25BS003 | 1.28 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 2.96 | | | | | | | |
| | H25BS004 | 1.70 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 3.93 | | | | | | | |
| | H25BS005 | 2.30 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.87 | 5.32 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | H25CA020 | 12.11 | 1.18 | 8.96 | 1.54 | 0.00 | 0.00 | 13.63 | 37.42 | 14.71 | 1.20 | 11.85 | 2.03 | 0.00 | 0.00 | 20.08 | 49.87 |
| | H25CA021 | 12.19 | 1.18 | 9.53 | 1.63 | 0.00 | 0.00 | 13.71 | 38.24 | 14.80 | 1.21 | 12.61 | 2.16 | 0.00 | 0.00 | 20.20 | 50.98 |
| | H25CA022 | 13.89 | 1.86 | 14.52 | 2.49 | 0.00 | 0.00 | 17.85 | 50.61 | 16.66 | 1.88 | 19.21 | 3.29 | 0.00 | 0.00 | 25.44 | 66.48 |
| | H25CA023 | 20.04 | 2.68 | 14.52 | 2.49 | 0.00 | 0.00 | 25.76 | 65.49 | 24.05 | 2.71 | 19.21 | 3.29 | 0.00 | 0.00 | 36.72 | 85.98 |
| | H25CA034 | 3.71 | 0.34 | 2.04 | 0.35 | 0.00 | 0.00 | 4.18 | 10.62 | 4.24 | 0.35 | 2.70 | 0.46 | 0.00 | 0.00 | 5.45 | 13.20 |
| | H25CA035 | 4.35 | 0.40 | 3.40 | 0.58 | 0.00 | 0.00 | 4.89 | 13.62 | 4.97 | 0.40 | 4.50 | 0.77 | 0.00 | 0.00 | 6.38 | 17.02 |
| | H25CA036 | 6.98 | 0.64 | 5.33 | 0.91 | 0.00 | 0.00 | 7.86 | 21.72 | 7.98 | 0.65 | 7.05 | 1.21 | 0.00 | 0.00 | 10.26 | 27.15 |
| | H25CA038 | 9.46 | 0.92 | 6.13 | 1.05 | 0.00 | 0.00 | 10.65 | 28.21 | 11.49 | 0.94 | 8.10 | 1.39 | 0.00 | 0.00 | 15.68 | 37.60 |
| | H25CA040 | 9.29 | 1.24 | 14.18 | 2.43 | 0.00 | 0.00 | 11.94 | 39.08 | 11.14 | 1.26 | 18.76 | 3.21 | 0.00 | 0.00 | 17.01 | 51.38 |
| | H25CA055 | 3.06 | 0.18 | 0.00 | 0.40 | 0.00 | 0.00 | 4.03 | 7.67 | | | | | | | | |
| | H25CA057 | 12.24 | 0.72 | 0.00 | 0.80 | 0.00 | 0.00 | 16.13 | 29.89 | | | | | | | | |
| | H25CA065 | 44.79 | 9.25 | 59.34 | 3.48 | 0.00 | 0.00 | 79.18 | 196.04 | 56.73 | 9.35 | 78.48 | 4.60 | 0.00 | 0.00 | 113.99 | 263.15 |
| | H25CA066 | 15.56 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 20.51 | 36.99 | | | | | | | | |
| | H25CA067 | 18.37 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 24.21 | 43.67 | | | | | | | | |
| | H25CA068 | 7.21 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 10.55 | 18.19 | | | | | | | | |
| | H25CA069 | 8.69 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 12.72 | 21.92 | | | | | | | | |
| | H25CA070 | 12.20 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 17.85 | 30.77 | | | | | | | | |
| | H25KC017 | 8.87 | 0.86 | 6.13 | 1.05 | 0.00 | 0.00 | 9.98 | 26.89 | 10.77 | 0.88 | 8.10 | 1.39 | 0.00 | 0.00 | 14.71 | 35.85 |
| | H25KC019 | 12.71 | 1.70 | 16.22 | 2.78 | 0.00 | 0.00 | 16.34 | 49.75 | 15.25 | 1.72 | 21.46 | 3.68 | 0.00 | 0.00 | 23.29 | 65.40 |
| | H25KC020 | 16.59 | 2.22 | 16.22 | 2.78 | 0.00 | 0.00 | 21.32 | 59.13 | 19.90 | 2.24 | 21.46 | 3.68 | 0.00 | 0.00 | 30.39 | 77.67 |
| | H25KC027 | 14.46 | 1.40 | 10.53 | 1.80 | 0.00 | 0.00 | 16.27 | 44.46 | 17.55 | 1.43 | 13.93 | 2.39 | 0.00 | 0.00 | 23.97 | 59.27 |
| | H25KC028 | 15.37 | 2.05 | 19.97 | 3.42 | 0.00 | 0.00 | 19.76 | 60.57 | 18.45 | 2.08 | 26.41 | 4.53 | 0.00 | 0.00 | 28.16 | 79.63 |
| | H25KC029 | 20.55 | 2.75 | 19.97 | 3.42 | 0.00 | 0.00 | 26.42 | 73.11 | 24.66 | 2.78 | 26.41 | 4.53 | 0.00 | 0.00 | 37.65 | 96.03 |
| | H25KC030 | 20.92 | 2.80 | 27.00 | 4.63 | 0.00 | 0.00 | 26.89 | 82.24 | 25.11 | 2.83 | 35.71 | 6.12 | 0.00 | 0.00 | 38.33 | 108.10 |
| | H25KC031 | 21.81 | 3.82 | 39.14 | 2.12 | 0.00 | 0.00 | 35.05 | 101.94 | 25.85 | 3.86 | 51.77 | 2.80 | 0.00 | 0.00 | 45.71 | 129.99 |
| | H25KM001 | 12.99 | 1.26 | 10.10 | 1.73 | 0.00 | 0.00 | 14.61 | 40.69 | 15.77 | 1.28 | 13.36 | 2.29 | 0.00 | 0.00 | 21.53 | 54.23 |
| | H25KM003 | 17.85 | 1.73 | 12.48 | 2.14 | 0.00 | 0.00 | 20.09 | 54.29 | 21.68 | 1.77 | 16.51 | 2.83 | 0.00 | 0.00 | 29.60 | 72.39 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|----------|-------|-------|--------|---------|--------------|----------------|--------|---------------|--------|-------|----------|---------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | H25KM009 | 39.54 | 8.16 | 51.51 | 3.02 | 0.00 | 0.00 | 69.91 | 172.14 | 50.09 | 8.25 | 68.13 | 4.00 | 0.00 | 0.00 | 100.64 | 231.11 |
| | H25KM015 | 32.06 | 5.62 | 43.57 | 2.36 | 0.00 | 0.00 | 51.51 | 135.12 | 38.00 | 5.67 | 57.62 | 3.11 | 0.00 | 0.00 | 67.18 | 171.58 |
| | H25KM018 | 4.73 | 0.43 | 2.27 | 0.39 | 0.00 | 0.00 | 5.32 | 13.14 | 5.41 | 0.44 | 3.00 | 0.51 | 0.00 | 0.00 | 6.95 | 16.31 |
| | H25KM021 | 6.37 | 0.59 | 4.42 | 0.76 | 0.00 | 0.00 | 7.17 | 19.31 | 7.28 | 0.59 | 5.85 | 1.00 | 0.00 | 0.00 | 9.36 | 24.08 |
| | H25KM022 | 8.14 | 0.75 | 4.54 | 0.78 | 0.00 | 0.00 | 9.16 | 23.37 | 9.30 | 0.76 | 6.00 | 1.03 | 0.00 | 0.00 | 11.96 | 29.05 |
| | H25KM023 | 10.04 | 0.92 | 6.13 | 1.05 | 0.00 | 0.00 | 11.30 | 29.44 | 11.47 | 0.93 | 8.10 | 1.39 | 0.00 | 0.00 | 14.74 | 36.63 |
| | H25KM027 | 18.35 | 1.78 | 9.76 | 1.67 | 0.00 | 0.00 | 20.65 | 52.21 | 22.28 | 1.81 | 12.91 | 2.21 | 0.00 | 0.00 | 30.42 | 69.63 |
| | H25KM033 | 92.25 | 19.05 | 103.02 | 6.04 | 0.00 | 0.00 | 163.11 | 383.47 | 116.86 | 19.25 | 136.25 | 7.99 | 0.00 | 0.00 | 234.80 | 515.15 |
| | H25KN001 | 4.49 | 0.27 | 0.00 | 0.50 | 0.00 | 0.00 | 6.57 | 11.83 | | | | | | | | |
| | H25KN002 | 6.23 | 0.37 | 0.00 | 0.50 | 0.00 | 0.00 | 9.12 | 16.22 | | | | | | | | |
| | H25KN003 | 7.59 | 0.45 | 0.00 | 0.50 | 0.00 | 0.00 | 11.11 | 19.65 | | | | | | | | |
| | H25KN004 | 8.73 | 0.52 | 0.00 | 0.50 | 0.00 | 0.00 | 12.78 | 22.53 | | | | | | | | |
| | H25KN006 | 17.63 | 1.04 | 0.00 | 1.00 | 0.00 | 0.00 | 25.80 | 45.47 | | | | | | | | |
| | H25KN007 | 0.90 | 0.05 | 0.00 | 0.15 | 0.00 | 0.00 | 1.32 | 2.42 | | | | | | | | |
| | H25KN009 | 1.88 | 0.11 | 0.00 | 0.15 | 0.00 | 0.00 | 2.75 | 4.89 | | | | | | | | |
| | H25KN010 | 2.59 | 0.15 | 0.00 | 0.15 | 0.00 | 0.00 | 3.79 | 6.68 | | | | | | | | |
| | H25LB003 | 14.63 | 1.42 | 10.78 | 1.85 | 0.00 | 0.00 | 16.47 | 45.15 | 17.77 | 1.45 | 14.26 | 2.44 | 0.00 | 0.00 | 24.26 | 60.18 |
| | H25LB005 | 17.13 | 1.66 | 13.62 | 2.33 | 0.00 | 0.00 | 19.27 | 54.01 | 20.80 | 1.69 | 18.01 | 3.09 | 0.00 | 0.00 | 28.40 | 71.99 |
| | H25LU001 | 4.05 | 0.24 | 0.00 | 0.40 | 0.00 | 0.00 | 5.33 | 10.02 | | | | | | | | |
| | H25LU002 | 4.56 | 0.27 | 0.00 | 0.50 | 0.00 | 0.00 | 6.01 | 11.34 | | | | | | | | |
| | H25LU003 | 7.11 | 0.42 | 0.00 | 0.80 | 0.00 | 0.00 | 9.37 | 17.70 | | | | | | | | |
| | H25LU004 | 8.26 | 0.49 | 0.00 | 0.90 | 0.00 | 0.00 | 10.89 | 20.54 | | | | | | | | |
| | H25LU005 | 10.36 | 0.61 | 0.00 | 1.10 | 0.00 | 0.00 | 13.65 | 25.72 | | | | | | | | |
| | H25LU006 | 14.52 | 0.86 | 0.00 | 1.50 | 0.00 | 0.00 | 19.13 | 36.01 | | | | | | | | |
| | H25LU007 | 12.38 | 0.73 | 0.00 | 1.40 | 0.00 | 0.00 | 16.31 | 30.82 | | | | | | | | |
| | H25LU008 | 16.19 | 0.96 | 0.00 | 1.60 | 0.00 | 0.00 | 21.34 | 40.09 | | | | | | | | |
| | H25LU009 | 17.77 | 1.05 | 0.00 | 1.70 | 0.00 | 0.00 | 23.42 | 43.94 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| PERATI | NG CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|------------------|-------|---------------|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR R | EPAIR | TOTAL RATE |
| H25 | | | | | | | | | | | | | | | | | |
| | H25LU010 | 21.35 | 1.26 | 0.00 | 2.00 | 0.00 | 0.00 | 28.14 | 52.75 | | | | | | | | |
| | H25LU011 | 21.15 | 1.25 | 0.00 | 2.00 | 0.00 | 0.00 | 27.87 | 52.27 | | | | | | | | |
| | H25LU012 | 25.90 | 1.53 | 0.00 | 2.50 | 0.00 | 0.00 | 34.13 | 64.06 | | | | | | | | |
| | H25LU013 | 26.76 | 1.58 | 0.00 | 2.60 | 0.00 | 0.00 | 35.26 | 66.20 | | | | | | | | |
| | H25LU014 | 31.14 | 1.84 | 0.00 | 3.00 | 0.00 | 0.00 | 41.03 | 77.01 | | | | | | | | |
| | H25LU023 | 5.15 | 0.33 | 0.00 | 0.25 | 0.00 | 0.00 | 6.41 | 12.14 | | | | | | | | |
| | H25LU024 | 2.64 | 0.17 | 0.00 | 0.30 | 0.00 | 0.00 | 3.29 | 6.40 | | | | | | | | |
| | H25LU025 | 3.24 | 0.21 | 0.00 | 0.40 | 0.00 | 0.00 | 4.03 | 7.88 | | | | | | | | |
| | H25LU026 | 3.69 | 0.24 | 0.00 | 0.50 | 0.00 | 0.00 | 4.58 | 9.01 | | | | | | | | |
| | H25LU027 | 4.13 | 0.27 | 0.00 | 0.60 | 0.00 | 0.00 | 5.13 | 10.13 | | | | | | | | |
| | H25LU028 | 6.63 | 0.43 | 0.00 | 0.70 | 0.00 | 0.00 | 8.24 | 16.00 | | | | | | | | |
| | H25LU034 | 9.65 | 0.63 | 0.00 | 0.80 | 0.00 | 0.00 | 12.00 | 23.08 | | | | | | | | |
| | H25LU035 | 11.56 | 0.75 | 0.00 | 0.90 | 0.00 | 0.00 | 14.38 | 27.59 | | | | | | | | |
| | H25LU036 | 13.31 | 0.86 | 0.00 | 1.00 | 0.00 | 0.00 | 16.55 | 31.72 | | | | | | | | |
| | H25LU040 | 21.47 | 1.27 | 0.00 | 0.75 | 0.00 | 0.00 | 31.42 | 54.91 | | | | | | | | |
| | H25LU041 | 26.32 | 1.56 | 0.00 | 0.75 | 0.00 | 0.00 | 38.52 | 67.15 | | | | | | | | |
| | H25LU042 | 31.76 | 1.88 | 0.00 | 1.50 | 0.00 | 0.00 | 46.48 | 81.62 | | | | | | | | |
| | H25LU046 | 4.97 | 0.29 | 0.00 | 0.50 | 0.00 | 0.00 | 7.27 | 13.03 | | | | | | | | |
| | H25LU047 | 5.87 | 0.35 | 0.00 | 0.60 | 0.00 | 0.00 | 8.59 | 15.41 | | | | | | | | |
| | H25LU048 | 6.30 | 0.37 | 0.00 | 0.70 | 0.00 | 0.00 | 9.22 | 16.59 | | | | | | | | |
| | H25LU049 | 7.61 | 0.45 | 0.00 | 0.80 | 0.00 | 0.00 | 11.13 | 19.99 | | | | | | | | |
| | H25LU050 | 11.51 | 0.68 | 0.00 | 0.90 | 0.00 | 0.00 | 16.85 | 29.94 | | | | | | | | |
| | H25LU053 | 22.59 | 1.34 | 0.00 | 0.75 | 0.00 | 0.00 | 33.06 | 57.74 | | | | | | | | |
| | H25LU054 | 27.80 | 1.65 | 0.00 | 0.75 | 0.00 | 0.00 | 40.69 | 70.89 | | | | | | | | |
| | H25ME001 | 2.90 | 0.27 | 1.51 | 0.26 | 0.00 | 0.00 | 3.26 | 8.20 | 3.31 | 0.27 | 2.00 | 0.34 | 0.00 | 0.00 | 4.25 | 10.17 |
| | H25ME002 | 4.15 | 0.38 | 4.54 | 0.78 | 0.00 | 0.00 | 4.68 | 14.53 | 4.75 | 0.39 | 6.00 | 1.03 | 0.00 | 0.00 | 6.10 | 18.27 |
| | H25ME003 | 5.78 | 0.53 | 5.45 | 0.93 | 0.00 | 0.00 | 6.50 | 19.19 | 6.60 | 0.54 | 7.20 | 1.23 | 0.00 | 0.00 | 8.48 | 24.05 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | NG CONE | DITIONS | | |
|-----|----------|--------|-------|--------|---------|--------------|----------------|--------|---------------|--------|-------|--------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| п2э | H25WN001 | 1.09 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 2.51 | | | | | | | | |
| | H25WN002 | 1.23 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.80 | 3.10 | | | | | | | | |
| | H25WN003 | 1.35 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.97 | 3.40 | | | | | | | | |
| | H25WN004 | 1.48 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 3.73 | | | | | | | | |
| | H25WN005 | 1.68 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 4.23 | | | | | | | | |
| H30 | | | | | | | | | | | | | | | | | |
| | H30CA005 | 18.87 | 1.81 | 16.03 | 2.60 | 2.19 | 0.38 | 15.34 | 57.22 | 23.22 | 1.85 | 20.45 | 3.32 | 7.88 | 1.36 | 20.76 | 78.84 |
| | H30CA007 | 15.71 | 1.53 | 12.84 | 2.08 | 2.49 | 0.43 | 12.83 | 47.91 | 19.34 | 1.56 | 16.39 | 2.66 | 8.98 | 1.55 | 17.36 | 67.84 |
| | H30GA006 | 27.88 | 2.64 | 24.73 | 4.01 | 1.88 | 0.32 | 22.58 | 84.04 | 34.32 | 2.69 | 31.55 | 5.12 | 6.65 | 1.15 | 30.56 | 112.04 |
| | H30GA007 | 21.03 | 1.98 | 14.65 | 2.38 | 1.15 | 0.20 | 17.01 | 58.40 | 25.89 | 2.02 | 18.69 | 3.03 | 4.06 | 0.70 | 23.02 | 77.41 |
| | H30GA008 | 24.29 | 2.90 | 22.12 | 3.59 | 7.34 | 1.27 | 23.77 | 85.28 | 30.37 | 2.96 | 27.85 | 4.52 | 25.99 | 4.48 | 32.17 | 128.34 |
| | H30KM001 | 18.87 | 2.18 | 13.06 | 2.12 | 1.47 | 0.25 | 18.30 | 56.25 | 23.58 | 2.22 | 16.66 | 2.70 | 5.28 | 0.91 | 24.77 | 76.12 |
| H35 | | | | | | | | | | | | | | | | | |
| | H35CA001 | 56.67 | 8.98 | 75.45 | 4.43 | 0.00 | 0.00 | 102.43 | 247.96 | 64.77 | 9.05 | 99.79 | 5.85 | 0.00 | 0.00 | 126.86 | 306.32 |
| | H35CA003 | 112.35 | 17.81 | 125.26 | 7.35 | 0.00 | 0.00 | 203.07 | 465.84 | 128.40 | 17.95 | 165.67 | 9.72 | 0.00 | 0.00 | 251.50 | 573.24 |
| | H35CA004 | 186.82 | 29.61 | 173.59 | 10.18 | 0.00 | 0.00 | 337.68 | 737.88 | 213.51 | 29.84 | 229.59 | 13.47 | 0.00 | 0.00 | 418.22 | 904.63 |
| | H35CA005 | 367.00 | 58.17 | 285.92 | 16.77 | 0.00 | 0.00 | 663.36 | 1,391.22 | 419.43 | 58.63 | 378.15 | 22.18 | 0.00 | 0.00 | 821.57 | 1,699.96 |
| | H35HI006 | 83.98 | 13.31 | 72.73 | 4.27 | 0.00 | 0.00 | 151.79 | 326.08 | 95.98 | 13.42 | 96.19 | 5.64 | 0.00 | 0.00 | 187.99 | 399.22 |
| L10 | | | | | | | | | | | | | | | | | |
| | L10BS002 | 3.34 | 0.34 | 0.00 | 0.30 | 0.00 | 0.00 | 4.75 | 8.73 | 4.77 | 0.35 | 0.00 | 0.30 | 0.00 | 0.00 | 7.54 | 12.96 |
| | L10BS004 | 2.27 | 0.23 | 0.00 | 0.25 | 0.00 | 0.00 | 3.23 | 5.98 | 3.24 | 0.24 | 0.00 | 0.25 | 0.00 | 0.00 | 5.13 | 8.86 |
| | L10BS005 | 3.34 | 0.34 | 0.00 | 0.30 | 0.00 | 0.00 | 4.76 | 8.74 | 4.78 | 0.35 | 0.00 | 0.30 | 0.00 | 0.00 | 7.55 | 12.98 |
| | L10BS007 | 2.42 | 0.25 | 0.00 | 0.50 | 0.00 | 0.00 | 3.44 | 6.61 | 3.45 | 0.26 | 0.00 | 0.50 | 0.00 | 0.00 | 5.46 | 9.67 |
| | L10BU005 | 0.82 | 0.08 | 0.00 | 1.10 | 0.00 | 0.00 | 1.17 | 3.17 | 1.17 | 0.09 | 0.00 | 1.10 | 0.00 | 0.00 | 1.85 | 4.21 |
| | L10BU010 | 0.34 | 0.03 | 0.00 | 0.80 | 0.00 | 0.00 | 0.48 | 1.65 | 0.48 | 0.04 | 0.00 | 0.80 | 0.00 | 0.00 | 0.76 | 2.08 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERATI | ING CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|-----------------|--------|---------------|------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | L10BU011 | 0.69 | 0.07 | 0.00 | 1.50 | 0.00 | 0.00 | 0.98 | 3.24 | 0.98 | 0.07 | 0.00 | 1.50 | 0.00 | 0.00 | 1.55 | 4.10 |
| | L10BU012 | 1.41 | 0.14 | 0.00 | 2.00 | 0.00 | 0.00 | 2.00 | 5.55 | 2.01 | 0.15 | 0.00 | 2.00 | 0.00 | 0.00 | 3.17 | 7.33 |
| | L10BU013 | 1.70 | 0.17 | 0.00 | 2.50 | 0.00 | 0.00 | 2.42 | 6.79 | 2.43 | 0.18 | 0.00 | 2.50 | 0.00 | 0.00 | 3.84 | 8.95 |
| | L10RM001 | 4.50 | 0.46 | 0.00 | 0.40 | 0.00 | 0.00 | 6.40 | 11.76 | 6.43 | 0.48 | 0.00 | 0.40 | 0.00 | 0.00 | 10.16 | 17.47 |
| | L10RM002 | 4.06 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 5.78 | 10.25 | 5.80 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 9.17 | 15.40 |
| | L10VE002 | 2.00 | 0.21 | 7.13 | 1.04 | 0.10 | 0.02 | 2.86 | 13.36 | 2.86 | 0.22 | 9.24 | 1.35 | 0.33 | 0.06 | 4.55 | 18.61 |
| | L10VE005 | 1.05 | 0.11 | 2.65 | 0.39 | 0.09 | 0.02 | 1.51 | 5.82 | 1.50 | 0.12 | 3.43 | 0.50 | 0.29 | 0.05 | 2.39 | 8.28 |
| | L10VE006 | 2.82 | 0.29 | 4.07 | 0.60 | 0.09 | 0.02 | 4.02 | 11.91 | 4.02 | 0.30 | 5.28 | 0.77 | 0.29 | 0.05 | 6.38 | 17.09 |
| | L10VE007 | 2.47 | 0.25 | 0.00 | 1.50 | 0.00 | 0.00 | 3.51 | 7.73 | 3.52 | 0.26 | 0.00 | 1.50 | 0.00 | 0.00 | 5.57 | 10.85 |
| | L10VE009 | 3.18 | 0.33 | 8.28 | 1.05 | 0.09 | 0.02 | 4.54 | 17.49 | 4.54 | 0.34 | 10.56 | 1.34 | 0.29 | 0.05 | 7.20 | 24.32 |
| | L10VE010 | 1.10 | 0.11 | 5.50 | 0.80 | 0.04 | 0.01 | 1.58 | 9.14 | 1.58 | 0.12 | 7.13 | 1.04 | 0.12 | 0.02 | 2.50 | 12.51 |
| L15 | | | | | | | | | | | | | | | | | |
| | L15BW001 | 4.35 | 0.19 | 6.79 | 0.79 | 0.12 | 0.02 | 4.47 | 16.73 | | | | | | | | |
| | L15BW002 | 7.96 | 0.35 | 9.50 | 1.11 | 0.24 | 0.04 | 8.19 | 27.39 | | | | | | | | |
| | L15BW003 | 9.19 | 0.40 | 13.57 | 1.59 | 0.24 | 0.04 | 9.45 | 34.48 | | | | | | | | |
| | L15BW004 | 13.73 | 0.58 | 12.52 | 1.46 | 0.00 | 0.00 | 14.07 | 42.36 | | | | | | | | |
| | L15FG001 | 15.11 | 0.64 | 22.80 | 2.67 | 0.00 | 0.00 | 15.49 | 56.71 | | | | | | | | |
| | L15FG002 | 10.00 | 0.43 | 15.99 | 1.87 | 0.15 | 0.03 | 10.27 | 38.74 | | | | | | | | |
| | L15HV001 | 0.17 | 0.01 | 1.36 | 0.16 | 0.00 | 0.00 | 0.18 | 1.88 | | | | | | | | |
| | L15HV002 | 0.27 | 0.01 | 2.71 | 0.32 | 0.00 | 0.00 | 0.27 | 3.58 | | | | | | | | |
| | L15HZ001 | 0.19 | 0.01 | 0.81 | 0.09 | 0.00 | 0.00 | 0.19 | 1.29 | | | | | | | | |
| | L15JD005 | 0.55 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 1.14 | | | | | | | | |
| | L15TO001 | 0.31 | 0.01 | 1.63 | 0.19 | 0.00 | 0.00 | 0.32 | 2.46 | | | | | | | | |
| | L15TO002 | 0.85 | 0.04 | 4.07 | 0.48 | 0.19 | 0.03 | 0.88 | 6.54 | | | | | | | | |
| | L15TO003 | 1.71 | 0.08 | 5.70 | 0.67 | 0.19 | 0.03 | 1.77 | 10.15 | | | | | | | | |
| | L15TO004 | 1.85 | 0.08 | 5.70 | 0.67 | 0.16 | 0.03 | 1.91 | 10.40 | | | | | | | | |
| | L15TO006 | 3.41 | 0.15 | 7.87 | 0.92 | 0.34 | 0.06 | 3.51 | 16.26 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| LIJ | L15TO007 | 3.52 | 0.16 | 7.87 | 0.92 | 0.34 | 0.06 | 3.63 | 16.50 | | | | | | | | |
| | L15TO009 | 0.28 | 0.01 | 2.17 | 0.25 | 0.00 | 0.00 | 0.29 | 3.00 | | | | | | | | |
| | L15TO010 | 0.44 | 0.02 | 2.71 | 0.32 | 0.00 | 0.00 | 0.45 | 3.94 | | | | | | | | |
| | L15WI001 | 1.83 | 0.08 | 0.00 | 0.05 | 0.11 | 0.02 | 1.90 | 3.99 | | | | | | | | |
| L20 | | | | | | | | | | | | | | | | | |
| | L20AB017 | 1.46 | 0.12 | 2.01 | 0.23 | 0.07 | 0.01 | 3.41 | 7.31 | | | | | | | | |
| | L20AB018 | 1.62 | 0.14 | 2.15 | 0.25 | 0.07 | 0.01 | 3.80 | 8.04 | | | | | | | | |
| | L20AB019 | 1.91 | 0.16 | 2.15 | 0.25 | 0.07 | 0.01 | 4.47 | 9.02 | | | | | | | | |
| | L20AB020 | 1.22 | 0.10 | 1.73 | 0.20 | 0.07 | 0.01 | 2.87 | 6.20 | | | | | | | | |
| | L20AB021 | 1.29 | 0.11 | 2.15 | 0.25 | 0.07 | 0.01 | 3.03 | 6.91 | | | | | | | | |
| | L20AB022 | 1.46 | 0.13 | 2.01 | 0.23 | 0.07 | 0.01 | 3.43 | 7.34 | | | | | | | | |
| | L20AB023 | 0.59 | 0.05 | 0.00 | 0.00 | 0.05 | 0.01 | 1.39 | 2.09 | | | | | | | | |
| | L20AB024 | 0.64 | 0.06 | 0.00 | 0.00 | 0.05 | 0.01 | 1.49 | 2.25 | | | | | | | | |
| L25 | | | | | | | | | | | | | | | | | |
| | L25JE002 | 15.38 | 1.30 | 28.51 | 3.33 | 0.46 | 0.08 | 28.78 | 77.84 | | | | | | | | |
| | L25JE003 | 0.38 | 0.03 | 1.60 | 0.19 | 0.00 | 0.00 | 0.71 | 2.91 | | | | | | | | |
| | L25MB002 | 0.51 | 0.06 | 1.45 | 1.17 | 0.37 | 0.06 | 1.02 | 4.64 | | | | | | | | |
| | L25MB004 | 16.69 | 1.41 | 55.16 | 7.94 | 0.46 | 0.08 | 31.22 | 112.96 | | | | | | | | |
| | L25MB005 | 1.07 | 0.10 | 2.90 | 1.34 | 0.37 | 0.06 | 2.06 | 7.90 | | | | | | | | |
| | L25MB006 | 10.26 | 0.86 | 17.42 | 3.29 | 0.00 | 0.00 | 19.15 | 50.98 | | | | | | | | |
| | L25MB007 | 5.76 | 0.48 | 6.68 | 1.78 | 0.00 | 0.00 | 10.75 | 25.45 | | | | | | | | |
| | L25MB008 | 17.84 | 1.54 | 28.51 | 4.83 | 1.41 | 0.24 | 33.52 | 87.89 | | | | | | | | |
| L30 | | | | | | | | | | | | | | | | | |
| | L30HW015 | 12.06 | 1.28 | 2.15 | 1.18 | 1.15 | 0.20 | 18.90 | 36.92 | 15.07 | 1.31 | 2.81 | 1.54 | 3.66 | 0.63 | 26.00 | 51.02 |
| | L30KB001 | 2.82 | 0.30 | 1.29 | 0.71 | 0.37 | 0.06 | 4.44 | 9.99 | 3.53 | 0.31 | 1.68 | 0.92 | 1.16 | 0.20 | 6.11 | 13.91 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|----------|--------|-------|--------|---------|--------------|----------------|--------|---------------|--------|-------|----------|---------|--------------|----------------|--------|---------------|
| 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 |
| L30 | cont. | | | | | | | | | | | | | | | | |
| | L30KB002 | 2.98 | 0.32 | 1.29 | 0.71 | 0.37 | 0.06 | 4.69 | 10.42 | 3.73 | 0.33 | 1.68 | 0.92 | 1.16 | 0.20 | 6.45 | 14.47 |
| | L30RA001 | 6.27 | 0.66 | 2.84 | 0.39 | 0.39 | 0.07 | 9.81 | 20.43 | 7.84 | 0.67 | 3.75 | 0.51 | 1.24 | 0.21 | 13.49 | 27.71 |
| | L30S4001 | 2.02 | 0.21 | 1.29 | 0.71 | 0.00 | 0.00 | 3.13 | 7.36 | 2.52 | 0.21 | 1.68 | 0.92 | 0.00 | 0.00 | 4.31 | 9.64 |
| | L30S4002 | 1.73 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.69 | 4.60 | 2.16 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 3.70 | 6.04 |
| | L30S4005 | 0.15 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.40 | 0.18 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.52 |
| | L30S4006 | 0.17 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.45 | 0.21 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.59 |
| | L30TS001 | 3.03 | 0.34 | 1.03 | 0.57 | 0.82 | 0.14 | 4.81 | 10.74 | 3.78 | 0.35 | 1.35 | 0.74 | 2.60 | 0.45 | 6.61 | 15.88 |
| L35 | | | | | | | | | | | | | | | | | |
| | L35CA005 | 17.78 | 1.82 | 18.42 | 2.14 | 0.00 | 0.00 | 30.94 | 71.10 | 22.23 | 1.86 | 23.83 | 2.77 | 0.00 | 0.00 | 43.93 | 94.62 |
| | L35CA007 | 33.53 | 3.43 | 30.11 | 3.50 | 0.00 | 0.00 | 58.34 | 128.91 | 41.91 | 3.50 | 38.97 | 4.53 | 0.00 | 0.00 | 82.83 | 171.74 |
| | L35CA013 | 10.82 | 1.11 | 11.20 | 1.30 | 0.00 | 0.00 | 18.82 | 43.25 | 13.52 | 1.13 | 14.49 | 1.68 | 0.00 | 0.00 | 26.72 | 57.54 |
| | L35CA014 | 24.27 | 2.48 | 19.91 | 2.31 | 0.00 | 0.00 | 42.23 | 91.20 | 30.34 | 2.53 | 25.77 | 2.99 | 0.00 | 0.00 | 59.96 | 121.59 |
| | L35KM006 | 39.41 | 4.03 | 24.89 | 2.89 | 0.00 | 0.00 | 68.57 | 139.79 | 49.26 | 4.11 | 32.21 | 3.74 | 0.00 | 0.00 | 97.35 | 186.67 |
| L40 | | | | | | | | | | | | | | | | | |
| | L40CA007 | 27.89 | 4.12 | 39.60 | 3.64 | 17.43 | 3.01 | 31.46 | 127.15 | 31.37 | 4.15 | 52.37 | 4.82 | 62.74 | 10.82 | 37.91 | 204.18 |
| | L40CA009 | 106.82 | 15.57 | 90.77 | 8.35 | 22.96 | 3.96 | 120.19 | 368.62 | 120.17 | 15.70 | 120.05 | 11.04 | 82.66 | 14.26 | 144.83 | 508.71 |
| | L40CA012 | 14.98 | 1.73 | 16.45 | 2.10 | 1.78 | 0.31 | 21.60 | 58.95 | 16.20 | 1.74 | 21.76 | 2.78 | 6.40 | 1.10 | 24.75 | 74.73 |
| | L40CA013 | 9.27 | 1.08 | 10.21 | 1.30 | 1.78 | 0.31 | 13.41 | 37.36 | 10.02 | 1.09 | 13.51 | 1.72 | 6.40 | 1.10 | 15.36 | 49.20 |
| | L40CA014 | 20.95 | 2.40 | 22.69 | 2.90 | 1.97 | 0.34 | 30.17 | 81.42 | 22.64 | 2.42 | 30.01 | 3.83 | 7.09 | 1.22 | 34.55 | 101.76 |
| | L40CA015 | 11.85 | 1.28 | 16.91 | 2.16 | 1.78 | 0.31 | 14.11 | 48.40 | 12.53 | 1.29 | 22.36 | 2.85 | 6.40 | 1.10 | 17.04 | 63.57 |
| | L40CA018 | 75.65 | 11.29 | 71.14 | 6.54 | 21.34 | 3.68 | 85.55 | 275.19 | 85.11 | 11.37 | 94.09 | 8.66 | 76.82 | 13.25 | 103.08 | 392.38 |
| | L40CA019 | 8.50 | 0.93 | 10.78 | 1.38 | 1.78 | 0.31 | 10.16 | 33.84 | 8.99 | 0.94 | 14.26 | 1.82 | 6.40 | 1.10 | 12.27 | 45.78 |
| | L40CA022 | 11.95 | 1.29 | 14.52 | 1.85 | 1.78 | 0.31 | 14.24 | 45.94 | 12.64 | 1.30 | 19.21 | 2.45 | 6.40 | 1.10 | 17.19 | 60.29 |
| | L40CA023 | 14.46 | 1.58 | 20.42 | 2.61 | 2.76 | 0.48 | 17.26 | 59.57 | 15.29 | 1.59 | 27.01 | 3.45 | 9.93 | 1.71 | 20.84 | 79.82 |
| | L40CA024 | 17.21 | 1.99 | 22.35 | 2.85 | 8.17 | 1.41 | 20.85 | 74.83 | 18.19 | 2.00 | 29.56 | 3.77 | 29.40 | 5.07 | 25.18 | 113.17 |
| | L40CA025 | 18.38 | 2.11 | 23.94 | 3.06 | 8.17 | 1.41 | 22.24 | 79.31 | 19.43 | 2.12 | 31.66 | 4.04 | 29.40 | 5.07 | 26.85 | 118.57 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | NG CONE | DITIONS | | |
|-----|----------|-------|-------|--------|---------|--------------|----------------|--------|---------------|-------|-------|--------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | L40CA028 | 3.20 | 0.28 | 6.10 | 0.78 | 0.85 | 0.15 | 4.10 | 15.46 | | | | | | | | |
| | L40CA029 | 3.57 | 0.31 | 6.72 | 0.86 | 0.85 | 0.15 | 4.56 | 17.02 | | | | | | | | |
| | L40CA030 | 4.03 | 0.36 | 7.34 | 0.94 | 1.07 | 0.18 | 5.15 | 19.07 | | | | | | | | |
| | L40CA031 | 3.91 | 0.35 | 9.21 | 1.18 | 1.07 | 0.18 | 5.00 | 20.90 | | | | | | | | |
| | L40CA032 | 3.83 | 0.43 | 5.90 | 0.75 | 0.89 | 0.15 | 4.61 | 16.56 | 4.05 | 0.43 | 7.80 | 1.00 | 3.20 | 0.55 | 5.57 | 22.60 |
| | L40CA033 | 5.12 | 0.57 | 7.72 | 0.99 | 0.89 | 0.15 | 6.14 | 21.58 | 5.41 | 0.57 | 10.20 | 1.30 | 3.20 | 0.55 | 7.41 | 28.64 |
| | L40CA034 | 5.37 | 0.67 | 8.62 | 1.10 | 5.75 | 0.99 | 6.63 | 29.13 | 5.68 | 0.67 | 11.40 | 1.46 | 20.68 | 3.57 | 8.01 | 51.47 |
| | L40CA035 | 43.36 | 6.54 | 56.84 | 5.23 | 21.70 | 3.74 | 49.14 | 186.55 | 48.78 | 6.59 | 75.18 | 6.92 | 78.12 | 13.48 | 59.21 | 288.28 |
| | L40CS009 | 13.03 | 1.45 | 15.43 | 1.97 | 3.55 | 0.61 | 15.62 | 51.66 | 13.77 | 1.45 | 20.41 | 2.61 | 12.79 | 2.21 | 18.86 | 72.10 |
| | L40CS010 | 15.67 | 1.72 | 20.54 | 2.62 | 3.55 | 0.61 | 18.74 | 63.45 | 16.57 | 1.73 | 27.16 | 3.47 | 12.79 | 2.21 | 22.63 | 86.56 |
| | L40CS011 | 18.99 | 2.18 | 21.22 | 2.71 | 8.17 | 1.41 | 22.96 | 77.64 | 20.08 | 2.19 | 28.06 | 3.58 | 29.40 | 5.07 | 27.72 | 116.10 |
| | L40KM003 | 9.91 | 1.32 | 15.77 | 2.01 | 12.25 | 2.11 | 12.50 | 55.87 | 10.48 | 1.32 | 20.86 | 2.66 | 44.11 | 7.61 | 15.09 | 102.13 |
| | L40KM008 | 19.32 | 2.96 | 38.01 | 3.50 | 17.43 | 3.01 | 21.98 | 106.21 | 21.74 | 2.98 | 50.27 | 4.62 | 62.74 | 10.82 | 26.48 | 179.65 |
| | L40KM009 | 36.07 | 5.48 | 55.60 | 5.12 | 12.22 | 2.11 | 40.95 | 157.55 | 40.58 | 5.53 | 73.53 | 6.76 | 44.01 | 7.59 | 49.35 | 227.35 |
| | L40KM010 | 47.42 | 7.47 | 77.61 | 7.14 | 21.34 | 3.68 | 54.28 | 218.94 | 53.34 | 7.53 | 102.64 | 9.44 | 76.82 | 13.25 | 65.40 | 328.42 |
| | L40KM011 | 82.94 | 12.35 | 96.78 | 8.90 | 22.96 | 3.96 | 93.75 | 321.64 | 93.31 | 12.45 | 128.00 | 11.78 | 82.66 | 14.26 | 112.97 | 455.43 |
| | L40KM015 | 7.31 | 0.81 | 8.51 | 1.09 | 1.31 | 0.23 | 8.76 | 28.02 | 7.72 | 0.82 | 11.25 | 1.44 | 4.70 | 0.81 | 10.58 | 37.32 |
| | L40ME012 | 2.85 | 0.25 | 5.72 | 0.73 | 0.56 | 0.10 | 3.63 | 13.84 | | | | | | | | |
| | L40ME016 | 1.76 | 0.15 | 2.92 | 0.37 | 0.30 | 0.05 | 2.24 | 7.79 | | | | | | | | |
| | L40ME017 | 2.13 | 0.19 | 4.42 | 0.56 | 0.66 | 0.11 | 2.73 | 10.80 | | | | | | | | |
| | L40ME021 | 2.24 | 0.22 | 6.10 | 0.78 | 1.70 | 0.29 | 2.92 | 14.25 | | | | | | | | |
| | L40ME022 | 3.44 | 0.32 | 9.33 | 1.19 | 1.70 | 0.29 | 4.45 | 20.72 | | | | | | | | |
| | L40ME023 | 3.86 | 0.35 | 10.08 | 1.29 | 1.70 | 0.29 | 4.98 | 22.55 | | | | | | | | |
| L50 | | | | | | | | | | | | | | | | | |
| | L50CA001 | 5.51 | 0.65 | 7.64 | 3.87 | 0.73 | 0.13 | 7.53 | 26.06 | 9.19 | 0.68 | 10.83 | 5.49 | 2.60 | 0.45 | 13.32 | 42.56 |
| | L50CA005 | 11.00 | 1.24 | 8.87 | 4.50 | 0.00 | 0.00 | 14.84 | 40.45 | 18.34 | 1.30 | 12.57 | 6.37 | 0.00 | 0.00 | 26.28 | 64.86 |
| | L50CS005 | 7.33 | 0.86 | 7.91 | 4.01 | 1.00 | 0.17 | 10.00 | 31.28 | 12.21 | 0.91 | 11.20 | 5.68 | 3.55 | 0.61 | 17.71 | 51.87 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|---------|--------------|----------------|--------|---------------|
| 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 |
| L50 | cont. | | | | | | | | | | | | | | | | |
| Loo | L50CS006 | 8.71 | 1.04 | 8.61 | 4.37 | 1.44 | 0.25 | 11.92 | 36.34 | 14.52 | 1.09 | 12.20 | 6.19 | 5.09 | 0.88 | 21.11 | 61.08 |
| | L50JC008 | 6.06 | 0.73 | 6.50 | 3.30 | 1.15 | 0.20 | 8.31 | 26.25 | 10.09 | 0.77 | 9.21 | 4.67 | 4.03 | 0.70 | 14.71 | 44.18 |
| | L50JC009 | 8.01 | 0.95 | 7.99 | 4.05 | 1.15 | 0.20 | 10.95 | 33.30 | 13.35 | 1.00 | 11.32 | 5.74 | 4.03 | 0.70 | 19.38 | 55.52 |
| | L50JC010 | 8.84 | 1.04 | 9.57 | 4.85 | 1.21 | 0.21 | 12.06 | 37.78 | 14.73 | 1.09 | 13.56 | 6.88 | 4.35 | 0.75 | 21.34 | 62.70 |
| | L50JC011 | 9.80 | 1.15 | 9.57 | 4.85 | 1.21 | 0.21 | 13.36 | 40.15 | 16.34 | 1.21 | 13.56 | 6.88 | 4.35 | 0.75 | 23.65 | 66.74 |
| | L50JC012 | 12.22 | 1.42 | 9.57 | 4.85 | 1.21 | 0.21 | 16.62 | 46.10 | 20.37 | 1.49 | 13.56 | 6.88 | 4.35 | 0.75 | 29.42 | 76.82 |
| L55 | | | | | | | | | | | | | | | | | |
| | L55KN001 | 1.01 | 0.07 | 0.00 | 0.52 | 0.00 | 0.00 | 1.58 | 3.18 | | | | | | | | |
| | L55KN002 | 2.08 | 0.13 | 0.00 | 1.06 | 0.00 | 0.00 | 3.23 | 6.50 | | | | | | | | |
| | L55KN004 | 1.92 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 5.03 | | | | | | | | |
| | L55KN005 | 2.84 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 4.41 | 7.43 | | | | | | | | |
| | L55KN006 | 4.23 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 6.57 | 11.07 | | | | | | | | |
| L60 | | | | | | | | | | | | | | | | | |
| | L60CA010 | 32.43 | 3.02 | 17.02 | 2.33 | 0.00 | 0.00 | 32.73 | 87.53 | 40.54 | 3.09 | 22.51 | 3.08 | 0.00 | 0.00 | 46.78 | 116.00 |
| | L60CA011 | 35.44 | 3.30 | 17.02 | 2.33 | 0.00 | 0.00 | 35.77 | 93.86 | 44.29 | 3.37 | 22.51 | 3.08 | 0.00 | 0.00 | 51.12 | 124.37 |
| | L60CA013 | 28.87 | 2.77 | 18.15 | 2.48 | 2.36 | 0.41 | 29.28 | 84.32 | 36.09 | 2.83 | 24.01 | 3.28 | 8.21 | 1.42 | 41.85 | 117.69 |
| | L60JD001 | 13.44 | 1.34 | 13.50 | 1.84 | 2.99 | 0.52 | 13.71 | 47.34 | 16.80 | 1.37 | 17.86 | 2.44 | 10.76 | 1.86 | 19.59 | 70.68 |
| | L60JD002 | 17.88 | 1.75 | 17.13 | 2.34 | 2.99 | 0.52 | 18.19 | 60.80 | 22.36 | 1.79 | 22.66 | 3.10 | 10.76 | 1.86 | 26.00 | 88.53 |
| | L60JD003 | 13.39 | 1.33 | 13.50 | 1.84 | 2.99 | 0.52 | 13.66 | 47.23 | 16.74 | 1.36 | 17.86 | 2.44 | 10.76 | 1.86 | 19.52 | 70.54 |
| | L60JD004 | 19.04 | 1.95 | 18.15 | 2.48 | 5.96 | 1.03 | 19.50 | 68.11 | 23.80 | 1.99 | 24.01 | 3.28 | 21.47 | 3.70 | 27.87 | 106.12 |
| | L60JD006 | 16.78 | 1.68 | 19.29 | 2.64 | 4.16 | 0.72 | 17.14 | 62.41 | 20.98 | 1.72 | 25.51 | 3.49 | 14.98 | 2.58 | 24.50 | 93.76 |
| | L60JD007 | 18.00 | 1.80 | 22.69 | 3.10 | 4.16 | 0.72 | 18.36 | 68.83 | 22.49 | 1.84 | 30.01 | 4.10 | 14.98 | 2.58 | 26.24 | 102.24 |
| | L60JD008 | 34.89 | 3.25 | 19.29 | 2.64 | 0.00 | 0.00 | 35.22 | 95.29 | 43.62 | 3.32 | 25.51 | 3.49 | 0.00 | 0.00 | 50.34 | 126.28 |
| M10 | | | | | | | | | | | | | | | | | |
| | M10MZ001 | 3.72 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 6.42 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | ING CONE | DITIONS | | |
|-----|----------------------|--------------|--------------|----------------|--------------|--------------|----------------|--------------|----------------|--------------|--------------|----------------|---------------|--------------|----------------|--------------|----------------|
| 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 | cont. | | | | | | | | | | | | | | | | |
| | M10MZ003 | 4.36 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 2.92 | 7.52 | | | | | | | | |
| | M10MZ005 | 0.99 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 2.03 | | | | | | | | |
| | M10MZ007 | 1.10 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.88 | 2.24 | 4.54 | 0.50 | 04.04 | 0.00 | 0.00 | 0.00 | 4.00 | 0474 |
| | M10MZ010 | 3.67 | 0.53 | 15.88 | 2.94 | 0.00 | 0.00 | 3.64 | 26.66 | 4.51 | 0.53 | 21.01 | 3.89 | 0.00 | 0.00 | 4.80 | 34.74 |
| | M10MZ011 | 4.75 | 0.68 | 23.83 | 4.42 | 0.00 | 0.00 | 4.72 | 38.40 | 5.85 | 0.69 | 31.51 | 5.84 | 0.00 | 0.00 | 6.23 | 50.12 |
| | M10SM001 | 4.49 | 0.65 | 33.36 | 5.20 | 0.00 | 0.00 | 4.46 | 48.16 | 5.53 | 0.65 | 43.54 | 6.79 | 0.00 | 0.00 | 5.88 | 62.39 |
| | M10SM003 M10SM004 | 5.23 5.50 | 0.75 0.79 | 44.49 55.61 | 6.94 8.67 | 0.00 | 0.00 | 5.19 5.46 | 62.60 76.03 | 6.44 6.77 | 0.76 0.80 | 58.06 | 9.05 11.32 | 0.00 | 0.00 | 6.85 7.21 | 81.16 98.67 |
| | M10SM005 | | | | | 0.00 | | | | _ | | 72.57 | _ | 0.00 | | 2.65 | |
| | M10SM008 | 2.03 3.55 | 0.29 0.51 | 25.58 44.49 | 3.99 6.94 | 0.00 | 0.00 | 2.01 3.52 | 33.90 59.01 | 2.49 4.37 | 0.30 0.52 | 33.38 58.06 | 5.21 9.05 | 0.00 | 0.00 | 4.65 | 44.03 |
| | M10XX001 | 3.55 0.21 | 0.51 | 0.00 | 0.00 | | 0.00 | 3.52 0.17 | 0.43 | 4.37 | 0.52 | 58.06 | 9.05 | 0.00 | 0.00 | 4.65 | 76.65 |
| | M10XX001 | 0.21 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 1.37 | | | | | | | | |
| | M10XX002 | 0.87 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 1.65 | | | | | | | | |
| | M10XX003 | 1.31 | 0.19 | | 0.00 | | 0.00 | 1.05 | 2.67 | | | | | | | | |
| | M10XX004 M10XX005 | 1.98 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 1.05 | 2.67 4.74 | | | | | | | | |
| | M10XX005 | 2.79 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 6.67 | | | | | | | | |
| | M10XX000 | 3.55 | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 8.48 | | | | | | | | |
| | M10XX007 | 4.92 | 3.10 | 0.00 | 0.00 | 0.00 | 0.00 | 3.75 | 0.40 11.77 | | | | | | | | |
| | M10XX009 | 0.89 | 0.13 | 11.12 | 1.73 | 0.00 | 0.00 | 0.89 | 14.76 | 1.10 | 0.13 | 14.51 | 2.26 | 0.00 | 0.00 | 1.17 | 19.17 |
| | M10XX009 | 2.98 | 0.13 | 8.51 | 1.73 | 0.00 | 0.00 | 2.96 | 16.46 | 3.67 | 0.13 | 11.25 | 2.09 | 0.00 | 0.00 | 3.91 | 21.35 |
| | M10XX010 | 3.43 | 0.49 | 11.35 | 2.10 | 0.00 | 0.00 | 3.40 | 20.77 | 4.22 | 0.43 | 15.01 | 2.78 | 0.00 | 0.00 | 4.49 | 27.00 |
| | M10XX011 | 3.49 | 0.49 | 11.35 | 2.10 | 0.00 | 0.00 | 3.47 | 20.77 | 4.30 | 0.50 | 15.01 | 2.78 | 0.00 | 0.00 | 4.49 | 27.00 |
| | M10XX012 | 4.53 | 0.65 | 13.05 | 2.42 | 0.00 | 0.00 | 4.49 | 25.14 | 5.57 | 0.66 | 17.26 | 3.20 | 0.00 | 0.00 | 5.93 | 32.62 |
| | M10XX013 | 6.23 | 0.00 | 19.86 | 3.68 | 0.00 | 0.00 | 6.18 | 36.85 | 7.66 | 0.00 | 26.26 | 4.87 | 0.00 | 0.00 | 8.16 | 47.86 |
| | M10XX014 | 7.81 | 1.12 | 28.37 | 5.26 | 0.00 | 0.00 | 7.76 | 50.32 | 9.61 | 1.14 | 37.52 | 6.96 | 0.00 | 0.00 | 10.24 | 65.47 |
| | M10XX013 | 8.88 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 7.70 | 18.69 | 5.01 | 1.14 | 37.32 | 0.50 | 0.00 | 0.00 | 10.24 | 05.47 |
| | M10XX010 | 9.39 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 8.34 | 19.76 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERAT | ING CON | DITIONS | | |
|---------|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|--------|--------|--------------|----------------|--------|---------------|
| 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 | cont. | | | | | | | | | | | | | | | | |
| IVI I O | M10XX018 | 11.69 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 10.39 | 24.60 | | | | | | | | |
| | M10XX019 | 11.95 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 10.62 | 25.15 | | | | | | | | |
| | M10XX021 | 19.49 | 2.85 | 43.11 | 7.99 | 0.00 | 0.00 | 20.90 | 94.34 | 23.39 | 2.88 | 57.02 | 10.57 | 0.00 | 0.00 | 26.64 | 120.50 |
| | M10XX022 | 22.18 | 3.24 | 49.36 | 9.15 | 0.00 | 0.00 | 23.78 | 107.71 | 26.62 | 3.28 | 65.28 | 12.10 | 0.00 | 0.00 | 30.31 | 137.59 |
| | M10XX023 | 29.71 | 4.34 | 45.38 | 8.41 | 0.00 | 0.00 | 31.85 | 119.69 | 35.65 | 4.39 | 60.02 | 11.13 | 0.00 | 0.00 | 40.60 | 151.79 |
| | M10XX024 | 42.36 | 6.18 | 49.36 | 9.15 | 0.00 | 0.00 | 45.42 | 152.47 | 50.83 | 6.26 | 65.28 | 12.10 | 0.00 | 0.00 | 57.89 | 192.36 |
| P10 | | | | | | | | | | | | | | | | | |
| | P10IC001 | 13.07 | 1.13 | 19.86 | 3.10 | 0.00 | 0.00 | 20.01 | 57.17 | | | | | | | | |
| | P10IC002 | 20.57 | 1.78 | 34.04 | 5.31 | 0.00 | 0.00 | 31.49 | 93.19 | | | | | | | | |
| | P10IC005 | 54.85 | 4.74 | 90.77 | 14.15 | 0.00 | 0.00 | 83.96 | 248.47 | | | | | | | | |
| | P10IC010 | 1.94 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 5.08 | | | | | | | | |
| | P10IC011 | 3.81 | 0.33 | 1.47 | 0.23 | 0.00 | 0.00 | 5.84 | 11.68 | | | | | | | | |
| | P10IC012 | 2.73 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 7.16 | | | | | | | | |
| | P10IC013 | 4.73 | 0.41 | 2.89 | 0.45 | 0.00 | 0.00 | 7.24 | 15.72 | | | | | | | | |
| P20 | | | | | | | | | | | | | | | | | |
| | P20IC002 | 13.69 | 0.97 | 0.00 | 1.90 | 0.00 | 0.00 | 24.99 | 41.55 | | | | | | | | |
| | P20IC003 | 13.92 | 0.99 | 0.00 | 2.50 | 0.00 | 0.00 | 25.41 | 42.82 | | | | | | | | |
| | P20IC004 | 14.86 | 1.05 | 0.00 | 3.15 | 0.00 | 0.00 | 27.12 | 46.18 | | | | | | | | |
| | P20MK002 | 3.68 | 0.24 | 0.00 | 0.50 | 0.00 | 0.00 | 6.30 | 10.72 | | | | | | | | |
| | P20MK003 | 4.15 | 0.27 | 0.00 | 1.00 | 0.00 | 0.00 | 7.11 | 12.53 | | | | | | | | |
| | P20MK004 | 5.83 | 0.38 | 0.00 | 1.25 | 0.00 | 0.00 | 9.98 | 17.44 | | | | | | | | |
| | P20MK005 | 8.99 | 0.58 | 0.00 | 1.25 | 0.00 | 0.00 | 15.38 | 26.20 | | | | | | | | |
| | P20MK006 | 12.22 | 0.79 | 0.00 | 2.50 | 0.00 | 0.00 | 20.91 | 36.42 | | | | | | | | |
| | P20MK007 | 13.85 | 0.90 | 0.00 | 2.50 | 0.00 | 0.00 | 23.70 | 40.95 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 |
| | | | | | | | | | | | | | | | | |
| P25 | | | | | | | | | | | | | | | | |
| | P25DL001 | 3.59 | 0.23 | 2.38 | 1.32 | 0.00 | 0.00 | 5.58 | 13.10 | | | | | | | |
| | P25DL003 | 4.64 | 0.30 | 6.13 | 2.16 | 0.00 | 0.00 | 7.22 | 20.45 | | | | | | | |
| | P25DL004 | 5.10 | 0.33 | 7.72 | 3.00 | 0.00 | 0.00 | 7.94 | 24.09 | | | | | | | |
| | P25DL005 | 8.83 | 0.57 | 11.91 | 4.51 | 0.00 | 0.00 | 13.73 | 39.55 | | | | | | | |
| | P25DL006 | 8.60 | 0.56 | 13.50 | 5.41 | 0.00 | 0.00 | 13.37 | 41.44 | | | | | | | |
| | P25DL008 | 11.10 | 0.72 | 22.24 | 8.77 | 0.00 | 0.00 | 17.26 | 60.09 | | | | | | | |
| | P25DL009 | 16.50 | 1.07 | 28.25 | 11.01 | 0.00 | 0.00 | 25.66 | 82.49 | | | | | | | |
| | P25DL010 | 30.71 | 1.99 | 32.90 | 13.38 | 0.00 | 0.00 | 47.75 | 126.73 | | | | | | | |
| | P25DL011 | 46.17 | 2.99 | 41.07 | 16.30 | 0.00 | 0.00 | 71.79 | 178.32 | | | | | | | |
| | P25IC001 | 9.99 | 0.65 | 3.40 | 2.73 | 0.00 | 0.00 | 15.54 | 32.31 | | | | | | | |
| | P25IC002 | 11.12 | 0.72 | 5.33 | 4.28 | 0.00 | 0.00 | 17.30 | 38.75 | | | | | | | |
| | P25IC003 | 16.02 | 1.04 | 8.51 | 5.73 | 0.00 | 0.00 | 24.90 | 56.20 | | | | | | | |
| | P25IC004 | 17.80 | 1.15 | 10.44 | 6.93 | 0.00 | 0.00 | 27.68 | 64.00 | | | | | | | |
| | P25IC005 | 22.14 | 1.43 | 13.05 | 8.29 | 0.00 | 0.00 | 34.42 | 79.33 | | | | | | | |
| | P25IC006 | 27.34 | 1.77 | 15.66 | 9.64 | 0.00 | 0.00 | 42.52 | 96.93 | | | | | | | |
| | P25MK001 | 8.54 | 0.55 | 4.20 | 3.15 | 0.00 | 0.00 | 13.28 | 29.72 | | | | | | | |
| | P25MK003 | 13.25 | 0.86 | 8.85 | 5.53 | 0.00 | 0.00 | 20.61 | 49.10 | | | | | | | |
| | P25VU002 | 11.08 | 0.66 | 0.00 | 2.50 | 0.00 | 0.00 | 16.22 | 30.46 | | | | | | | |
| | P25VU003 | 13.61 | 0.81 | 0.00 | 2.50 | 0.00 | 0.00 | 19.92 | 36.84 | | | | | | | |
| | P25VU004 | 13.92 | 0.82 | 0.00 | 2.50 | 0.00 | 0.00 | 20.37 | 37.61 | | | | | | | |
| | P25VU005 | 18.72 | 1.11 | 0.00 | 2.50 | 0.00 | 0.00 | 27.39 | 49.72 | | | | | | | |
| | P25VU010 | 19.25 | 1.14 | 0.00 | 0.95 | 0.00 | 0.00 | 28.17 | 49.51 | | | | | | | |
| | P25VU011 | 19.49 | 1.15 | 0.00 | 1.17 | 0.00 | 0.00 | 28.52 | 50.33 | | | | | | | |
| P30 | | | | | | | | | | | | | | | | |
| | P30MK001 | 14.26 | 0.92 | 20.99 | 3.27 | 0.00 | 0.00 | 22.17 | 61.61 | | | | | | | |
| | P30MK003 | 24.22 | 1.57 | 36.87 | 5.75 | 0.00 | 0.00 | 37.66 | 106.07 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|-----------------|--------|---------------|-------|------|----------|--------|--------------|----------------|--------|---------------|
| 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 | cont. | | | | | | | | | | | | | | | | |
| | P30MK004 | 41.30 | 2.68 | 71.48 | 11.15 | 0.00 | 0.00 | 64.22 | 190.83 | | | | | | | | |
| P35 | | | | | | | | | | | | | | | | | |
| | P35CA010 | 18.44 | 2.58 | 7.78 | 1.52 | 0.00 | 0.00 | 27.71 | 58.03 | 22.45 | 2.61 | 10.07 | 1.97 | 0.00 | 0.00 | 39.07 | 76.17 |
| | P35CA011 | 46.38 | 6.48 | 19.29 | 3.77 | 0.00 | 0.00 | 69.68 | 145.60 | 56.46 | 6.56 | 24.96 | 4.88 | 0.00 | 0.00 | 98.24 | 191.10 |
| | P35CA012 | 55.06 | 7.70 | 22.77 | 4.45 | 0.00 | 0.00 | 82.73 | 172.71 | 67.03 | 7.79 | 29.47 | 5.76 | 0.00 | 0.00 | 116.63 | 226.68 |
| P40 | | | | | | | | | | | | | | | | | |
| | P40GJ016 | 1.56 | 0.11 | 0.07 | 0.09 | 0.06 | 0.01 | 1.67 | 3.57 | | | | | | | | |
| | P40TE003 | 10.27 | 0.74 | 2.81 | 0.38 | 1.65 | 0.28 | 11.04 | 27.17 | | | | | | | | |
| | P40TE004 | 11.89 | 0.86 | 3.86 | 0.53 | 1.62 | 0.28 | 12.77 | 31.81 | | | | | | | | |
| | P40TE005 | 8.99 | 0.65 | 5.80 | 0.79 | 1.65 | 0.28 | 9.68 | 27.84 | | | | | | | | |
| | P40TE006 | 12.17 | 0.88 | 5.80 | 0.79 | 1.73 | 0.30 | 13.08 | 34.75 | | | | | | | | |
| | P40TE007 | 20.60 | 1.46 | 5.80 | 0.79 | 1.73 | 0.30 | 22.10 | 52.78 | | | | | | | | |
| | P40TE008 | 22.95 | 1.63 | 6.68 | 0.91 | 1.73 | 0.30 | 24.63 | 58.83 | | | | | | | | |
| | P40TE009 | 25.63 | 1.81 | 6.68 | 0.91 | 1.73 | 0.30 | 27.50 | 64.56 | | | | | | | | |
| | P40TE010 | 8.71 | 0.62 | 18.45 | 2.52 | 0.75 | 0.13 | 9.36 | 40.54 | | | | | | | | |
| | P40TE011 | 9.47 | 0.69 | 18.45 | 2.52 | 1.27 | 0.22 | 10.19 | 42.81 | | | | | | | | |
| | P40TE012 | 14.39 | 1.03 | 18.45 | 2.52 | 1.27 | 0.22 | 15.45 | 53.33 | | | | | | | | |
| | P40TE013 | 13.13 | 0.94 | 18.45 | 2.52 | 1.27 | 0.22 | 14.11 | 50.64 | | | | | | | | |
| | P40TE014 | 13.40 | 0.96 | 18.45 | 2.52 | 1.27 | 0.22 | 14.39 | 51.21 | | | | | | | | |
| | P40TE015 | 15.24 | 1.09 | 18.45 | 2.52 | 1.27 | 0.22 | 16.37 | 55.16 | | | | | | | | |
| P45 | | | | | | | | | | | | | | | | | |
| | P45AF002 | 0.10 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.26 | | | | | | | | |
| | P45AF003 | 0.15 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.38 | | | | | | | | |
| | P45AF006 | 1.14 | 0.10 | 3.89 | 0.61 | 0.22 | 0.04 | 1.70 | 7.70 | | | | | | | | |
| | P45AF007 | 1.52 | 0.12 | 8.11 | 1.26 | 0.14 | 0.02 | 2.25 | 13.42 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | ING CONI | DITIONS | | |
|-----|----------|------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| P43 | P45AF008 | 0.91 | 0.07 | 0.00 | 0.10 | 0.00 | 0.00 | 1.33 | 2.41 | | | | | | | | |
| | P45AF009 | 2.00 | 0.15 | 1.65 | 0.33 | 0.00 | 0.00 | 2.92 | 7.05 | | | | | | | | |
| | P45AF010 | 6.67 | 0.51 | 7.58 | 1.04 | 0.11 | 0.02 | 9.77 | 25.70 | | | | | | | | |
| | P45AF011 | 6.09 | 0.47 | 9.88 | 1.35 | 0.11 | 0.02 | 8.92 | 26.84 | | | | | | | | |
| | P45AL015 | 7.00 | 0.54 | 7.58 | 1.04 | 0.11 | 0.02 | 10.26 | 26.55 | | | | | | | | |
| | P45CG001 | 0.46 | 0.04 | 0.00 | 0.05 | 0.00 | 0.00 | 0.68 | 1.23 | | | | | | | | |
| | P45CG002 | 0.76 | 0.06 | 0.00 | 0.10 | 0.00 | 0.00 | 1.11 | 2.03 | | | | | | | | |
| | P45CG003 | 1.73 | 0.13 | 0.00 | 0.15 | 0.00 | 0.00 | 2.54 | 4.55 | | | | | | | | |
| | P45CG006 | 3.16 | 0.25 | 5.19 | 0.81 | 0.11 | 0.02 | 4.64 | 14.18 | | | | | | | | |
| | P45CG007 | 2.59 | 0.20 | 5.19 | 0.81 | 0.00 | 0.00 | 3.78 | 12.57 | | | | | | | | |
| | P45OE002 | 3.24 | 0.25 | 9.06 | 1.24 | 0.10 | 0.02 | 4.75 | 18.66 | | | | | | | | |
| | P45OE003 | 4.29 | 0.33 | 13.83 | 1.89 | 0.10 | 0.02 | 6.30 | 26.76 | | | | | | | | |
| | P45OE004 | 5.05 | 0.39 | 19.76 | 2.70 | 0.10 | 0.02 | 7.40 | 35.42 | | | | | | | | |
| | P45OE005 | 8.40 | 0.65 | 29.81 | 4.07 | 0.20 | 0.03 | 12.31 | 55.47 | | | | | | | | |
| P50 | | | | | | | | | | | | | | | | | |
| | P50GR001 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.09 | | | | | | | | |
| | P50GR002 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.14 | | | | | | | | |
| | P50GR003 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.24 | | | | | | | | |
| | P50GR004 | 0.16 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.50 | | | | | | | | |
| | P50GR005 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.08 | | | | | | | | |
| | P50GR006 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.12 | | | | | | | | |
| | P50GR007 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.19 | | | | | | | | |
| | P50GR008 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.37 | | | | | | | | |
| | P50WC001 | 0.11 | 0.01 | 3.05 | 0.48 | 0.00 | 0.00 | 0.16 | 3.81 | | | | | | | | |
| | P50WC002 | 0.13 | 0.01 | 2.36 | 0.44 | 0.00 | 0.00 | 0.19 | 3.13 | | | | | | | | |
| | P50WC003 | 0.35 | 0.03 | 2.52 | 0.47 | 0.00 | 0.00 | 0.49 | 3.86 | | | | | | | | |
| | P50WC004 | 1.41 | 0.12 | 5.19 | 0.96 | 0.05 | 0.01 | 1.99 | 9.73 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | | |
|-----|----------|------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|----------------|--------|---------------|
| 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 |
| P50 | cont. | | | | | | | | | | | | | | | | |
| F30 | P50XX001 | 4.89 | 0.41 | 9.44 | 1.75 | 0.00 | 0.00 | 6.85 | 23.34 | | | | | | | | |
| | P50XX002 | 4.61 | 0.38 | 11.02 | 2.04 | 0.00 | 0.00 | 6.45 | 24.50 | | | | | | | | |
| | P50XX003 | 8.51 | 0.71 | 13.38 | 2.48 | 0.00 | 0.00 | 11.92 | 37.00 | | | | | | | | |
| P55 | | | | | | | | | | | | | | | | | |
| | P55GF001 | 2.20 | 0.18 | 3.30 | 0.61 | 0.00 | 0.00 | 3.43 | 9.72 | | | | | | | | |
| | P55GF002 | 3.16 | 0.26 | 11.33 | 2.10 | 0.00 | 0.00 | 4.91 | 21.76 | | | | | | | | |
| | P55GR001 | 0.46 | 0.04 | 0.24 | 0.13 | 0.00 | 0.00 | 0.40 | 1.27 | | | | | | | | |
| | P55GR002 | 0.56 | 0.04 | 0.59 | 0.32 | 0.00 | 0.00 | 0.49 | 2.00 | | | | | | | | |
| | P55GR003 | 1.51 | 0.12 | 2.97 | 1.63 | 0.00 | 0.00 | 1.33 | 7.56 | | | | | | | | |
| | P55GR004 | 2.21 | 0.17 | 7.13 | 3.91 | 0.00 | 0.00 | 1.94 | 15.36 | | | | | | | | |
| | P55WC001 | 0.03 | 0.00 | 0.12 | 0.07 | 0.00 | 0.00 | 0.03 | 0.25 | | | | | | | | |
| | P55WC002 | 0.06 | 0.00 | 0.12 | 0.07 | 0.00 | 0.00 | 0.06 | 0.31 | | | | | | | | |
| P60 | | | | | | | | | | | | | | | | | |
| | P60GF003 | 2.52 | 0.22 | 3.30 | 0.61 | 0.11 | 0.02 | 3.54 | 10.32 | | | | | | | | |
| | P60GF004 | 3.05 | 0.26 | 11.33 | 2.10 | 0.11 | 0.02 | 4.28 | 21.15 | | | | | | | | |
| | P60GF005 | 4.05 | 0.34 | 17.78 | 3.30 | 0.11 | 0.02 | 5.68 | 31.28 | | | | | | | | |
| | P60GF006 | 4.88 | 0.41 | 22.03 | 4.08 | 0.13 | 0.02 | 6.85 | 38.40 | | | | | | | | |
| | P60GF008 | 3.47 | 0.29 | 11.33 | 2.10 | 0.11 | 0.02 | 4.88 | 22.20 | | | | | | | | |
| | P60GR001 | 2.63 | 0.22 | 7.40 | 1.37 | 0.10 | 0.02 | 3.69 | 15.43 | | | | | | | | |
| | P60GR002 | 3.07 | 0.26 | 30.84 | 4.81 | 0.10 | 0.02 | 4.31 | 43.41 | | | | | | | | |
| | P60HO002 | 0.09 | 0.01 | 1.07 | 0.17 | 0.00 | 0.00 | 0.13 | 1.47 | | | | | | | | |
| | P60HO003 | 0.18 | 0.02 | 2.44 | 0.38 | 0.00 | 0.00 | 0.25 | 3.27 | | | | | | | | |
| | P60WC001 | 0.05 | 0.00 | 1.22 | 0.19 | 0.00 | 0.00 | 0.06 | 1.52 | | | | | | | | |
| | P60WC002 | 0.05 | 0.00 | 1.83 | 0.29 | 0.00 | 0.00 | 0.07 | 2.24 | | | | | | | | |

Table 2-2 . HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|------------|-------|------|--------|---------|--------------|-----------------|--------|---------------|-------|------|----------|---------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | P65GR001 | 0.38 | 0.04 | 1.53 | 0.24 | 0.18 | 0.03 | 0.50 | 2.90 | | | | | | | | |
| | P65GR002 | 0.47 | 0.05 | 0.46 | 0.07 | 0.18 | 0.03 | 0.60 | 1.86 | | | | | | | | |
| | P65GR003 | 1.24 | 0.11 | 0.92 | 0.14 | 0.20 | 0.03 | 1.57 | 4.21 | | | | | | | | |
| | P65HO001 | 0.16 | 0.01 | 1.07 | 0.17 | 0.00 | 0.00 | 0.23 | 1.64 | | | | | | | | |
| | P65HO002 | 0.19 | 0.02 | 1.07 | 0.17 | 0.00 | 0.00 | 0.26 | 1.71 | | | | | | | | |
| | P65WC001 | 0.16 | 0.01 | 1.22 | 0.19 | 0.00 | 0.00 | 0.20 | 1.78 | | | | | | | | |
| | P65WC002 | 0.17 | 0.01 | 1.22 | 0.19 | 0.00 | 0.00 | 0.21 | 1.80 | | | | | | | | |
| P70 | | | | | | | | | | | | | | | | | |
| | P70XX001 | 0.35 | 0.03 | 0.61 | 0.10 | 0.00 | 0.00 | 0.46 | 1.55 | | | | | | | | |
| | P70XX001 | 0.91 | 0.03 | 1.83 | 0.10 | 0.00 | 0.00 | 1.21 | 4.32 | | | | | | | | |
| | 1 /0///002 | 0.51 | 0.00 | 1.00 | 0.23 | 0.00 | 0.00 | 1.21 | 7.02 | | | | | | | | |
| R10 | | | | | | | | | | | | | | | | | |
| | R10CA001 | 1.09 | 0.09 | 0.00 | 0.08 | 0.00 | 0.00 | 1.55 | 2.81 | 1.34 | 0.09 | 0.00 | 0.08 | 0.00 | 0.00 | 2.12 | 3.63 |
| | R10CA003 | 1.09 | 0.09 | 0.00 | 0.08 | 0.00 | 0.00 | 1.55 | 2.81 | 1.34 | 0.09 | 0.00 | 0.08 | 0.00 | 0.00 | 2.12 | 3.63 |
| | R10CA005 | 1.09 | 0.09 | 0.00 | 0.08 | 0.00 | 0.00 | 1.55 | 2.81 | 1.34 | 0.09 | 0.00 | 0.08 | 0.00 | 0.00 | 2.12 | 3.63 |
| | 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 | 1.75 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 2.50 | 4.48 | 2.16 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 3.41 | 5.80 |
| | R10CA009 | 4.60 | 0.38 | 0.00 | 0.08 | 0.00 | 0.00 | 6.55 | 11.61 | 5.67 | 0.39 | 0.00 | 0.08 | 0.00 | 0.00 | 8.96 | 15.10 |
| | R10CA010 | 0.20 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.50 | 0.24 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.65 |
| | R10CA011 | 5.15 | 0.43 | 0.00 | 0.10 | 0.00 | 0.00 | 7.33 | 13.01 | 6.33 | 0.44 | 0.00 | 0.10 | 0.00 | 0.00 | 10.02 | 16.89 |
| | R10CA012 | 6.31 | 0.53 | 0.00 | 0.10 | 0.00 | 0.00 | 8.98 | 15.92 | 7.76 | 0.54 | 0.00 | 0.10 | 0.00 | 0.00 | 12.27 | 20.67 |
| | R10CA013 | 0.44 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 1.11 | 0.54 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 1.44 |
| | R10CA014 | 6.87 | 0.57 | 0.00 | 0.16 | 0.00 | 0.00 | 9.79 | 17.39 | 8.46 | 0.59 | 0.00 | 0.16 | 0.00 | 0.00 | 13.38 | 22.59 |
| | R10CA015 | 8.83 | 0.74 | 0.00 | 0.16 | 0.00 | 0.00 | 12.57 | 22.30 | 10.87 | 0.75 | 0.00 | 0.16 | 0.00 | 0.00 | 17.18 | 28.96 |
| | R10CA016 | 0.44 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 1.11 | 0.54 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 1.44 |
| | R10CA017 | 11.61 | 0.97 | 0.00 | 0.21 | 0.00 | 0.00 | 16.52 | 29.31 | 14.28 | 0.99 | 0.00 | 0.21 | 0.00 | 0.00 | 22.59 | 38.07 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | R10CA018 | 14.03 | 1.17 | 0.00 | 0.22 | 0.00 | 0.00 | 19.97 | 35.39 | 17.26 | 1.20 | 0.00 | 0.22 | 0.00 | 0.00 | 27.30 | 45.98 |
| | R10CA019 | 0.83 | 0.07 | 0.00 | 0.24 | 0.00 | 0.00 | 1.18 | 2.32 | 1.02 | 0.07 | 0.00 | 0.24 | 0.00 | 0.00 | 1.62 | 2.95 |
| | R10CA020 | 13.80 | 1.15 | 0.00 | 0.23 | 0.00 | 0.00 | 19.65 | 34.83 | 16.99 | 1.18 | 0.00 | 0.23 | 0.00 | 0.00 | 26.86 | 45.26 |
| | R10CA021 | 14.10 | 1.18 | 0.00 | 0.25 | 0.00 | 0.00 | 20.08 | 35.61 | 17.35 | 1.21 | 0.00 | 0.25 | 0.00 | 0.00 | 27.44 | 46.25 |
| | R10CA022 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.30 | 0.15 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.40 |
| | R10CA023 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.30 | 0.15 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.40 |
| R15 | | | | | | | | | | | | | | | | | |
| | R15SO001 | 10.63 | 1.26 | 0.00 | 0.40 | 1.99 | 0.34 | 11.71 | 26.33 | | | | | | | | |
| | R15SO002 | 8.58 | 1.39 | 0.00 | 0.45 | 5.87 | 1.01 | 10.23 | 27.53 | | | | | | | | |
| | R15SO003 | 13.91 | 1.94 | 0.00 | 0.67 | 5.87 | 1.01 | 15.92 | 39.32 | | | | | | | | |
| R20 | | | | | | | | | | | | | | | | | |
| | R20SO001 | 6.85 | 0.70 | 0.00 | 0.25 | 0.00 | 0.00 | 8.35 | 16.15 | | | | | | | | |
| R30 | | | | | | | | | | | | | | | | | |
| | R30BO003 | 15.01 | 1.22 | 15.30 | 1.79 | 2.06 | 0.36 | 15.23 | 50.97 | | | | | | | | |
| | R30BO004 | 7.45 | 0.65 | 11.82 | 1.38 | 2.22 | 0.38 | 7.64 | 31.54 | | | | | | | | |
| | R30BO005 | 7.38 | 0.69 | 6.54 | 0.76 | 0.00 | 0.00 | 8.47 | 23.84 | | | | | | | | |
| | R30BO006 | 8.05 | 0.75 | 11.54 | 1.35 | 0.00 | 0.00 | 9.24 | 30.93 | | | | | | | | |
| | R30BO007 | 9.40 | 0.87 | 10.85 | 1.27 | 0.00 | 0.00 | 10.79 | 33.18 | | | | | | | | |
| | R30BO008 | 38.36 | 4.64 | 61.47 | 7.18 | 0.00 | 0.00 | 46.80 | 158.45 | | | | | | | | |
| | R30BO009 | 37.23 | 4.50 | 61.47 | 7.18 | 0.00 | 0.00 | 45.42 | 155.80 | | | | | | | | |
| | R30CA003 | 33.95 | 4.11 | 33.38 | 3.90 | 0.00 | 0.00 | 41.41 | 116.75 | | | | | | | | |
| | R30CA006 | 48.84 | 5.91 | 43.81 | 5.12 | 0.00 | 0.00 | 59.58 | 163.26 | | | | | | | | |
| | R30CA010 | 8.93 | 0.70 | 9.74 | 1.14 | 0.61 | 0.11 | 9.00 | 30.23 | | | | | | | | |
| | R30CA012 | 33.54 | 4.06 | 30.60 | 3.58 | 0.00 | 0.00 | 40.92 | 112.70 | | | | | | | | |
| | R30CA013 | 51.19 | 6.19 | 43.81 | 5.12 | 0.00 | 0.00 | 62.45 | 168.76 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERAT | NG CON | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|--------|--------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | R30CA014 | 15.48 | 1.27 | 14.60 | 1.71 | 5.21 | 0.90 | 15.74 | 54.91 | | | | | | | | |
| | R30RS001 | 1.43 | 0.13 | 4.34 | 0.51 | 0.00 | 0.00 | 1.64 | 8.05 | | | | | | | | |
| | R30RS002 | 2.85 | 0.27 | 5.56 | 0.65 | 0.00 | 0.00 | 3.28 | 12.61 | | | | | | | | |
| | R30RS003 | 7.51 | 0.60 | 11.13 | 1.30 | 0.85 | 0.15 | 7.61 | 29.15 | | | | | | | | |
| | R30SI002 | 12.30 | 1.01 | 12.66 | 1.48 | 2.01 | 0.35 | 12.50 | 42.31 | | | | | | | | |
| | R30SI003 | 15.49 | 1.25 | 13.21 | 1.54 | 2.01 | 0.35 | 15.70 | 49.55 | | | | | | | | |
| | R30SI004 | 21.04 | 1.66 | 15.02 | 1.75 | 1.58 | 0.27 | 21.25 | 62.57 | | | | | | | | |
| | R30SI005 | 11.33 | 1.06 | 10.43 | 1.22 | 0.00 | 0.00 | 13.01 | 37.05 | | | | | | | | |
| R40 | | | | | | | | | | | | | | | | | |
| | R40BO001 | 6.95 | 0.58 | 7.87 | 1.23 | 0.00 | 0.00 | 8.48 | 25.11 | | | | | | | | |
| | R40BO002 | 7.54 | 0.63 | 7.87 | 1.23 | 0.00 | 0.00 | 9.19 | 26.46 | | | | | | | | |
| R45 | | | | | | | | | | | | | | | | | |
| | R45BO004 | 4.17 | 0.35 | 5.19 | 0.81 | 0.00 | 0.00 | 7.00 | 17.52 | | | | | | | | |
| | R45BO005 | 6.14 | 0.51 | 7.24 | 1.13 | 0.00 | 0.00 | 10.30 | 25.32 | | | | | | | | |
| | R45BO006 | 12.36 | 1.03 | 17.00 | 2.65 | 0.00 | 0.00 | 20.73 | 53.77 | | | | | | | | |
| | R45BO007 | 14.14 | 1.18 | 20.62 | 3.22 | 0.00 | 0.00 | 23.73 | 62.89 | | | | | | | | |
| | R45BO008 | 15.83 | 1.32 | 32.26 | 5.03 | 0.00 | 0.00 | 26.55 | 80.99 | | | | | | | | |
| | R45CA001 | 5.38 | 0.45 | 5.04 | 0.79 | 0.00 | 0.00 | 9.02 | 20.68 | | | | | | | | |
| | R45CA005 | 12.62 | 1.05 | 11.02 | 1.72 | 0.00 | 0.00 | 21.17 | 47.58 | | | | | | | | |
| | R45CA011 | 4.13 | 0.34 | 5.19 | 0.81 | 0.00 | 0.00 | 6.93 | 17.40 | | | | | | | | |
| | R45CA012 | 14.54 | 1.21 | 21.56 | 3.36 | 0.00 | 0.00 | 24.38 | 65.05 | | | | | | | | |
| | R45CA013 | 19.32 | 1.61 | 21.56 | 3.36 | 0.00 | 0.00 | 32.41 | 78.26 | | | | | | | | |
| | R45RS001 | 2.15 | 0.18 | 3.15 | 0.49 | 0.00 | 0.00 | 3.61 | 9.58 | | | | | | | | |
| | R45SI008 | 4.15 | 0.35 | 5.51 | 0.86 | 0.00 | 0.00 | 6.97 | 17.84 | | | | | | | | |
| | R45SI009 | 11.32 | 0.95 | 12.28 | 1.91 | 0.00 | 0.00 | 18.99 | 45.45 | | | | | | | | |
| | R45SI010 | 15.16 | 1.27 | 19.99 | 3.12 | 0.00 | 0.00 | 25.44 | 64.98 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAGI | E OPERA | TING CON | NDITIONS | | | | | SEVERE (| OPERAT | ING CON | DITIONS | |
|-----|----------|-------|------|---------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| NJU | | | | | | | | | | | | | | | | |
| | R50BO005 | 5.00 | 0.52 | 5.67 | 0.88 | 1.58 | 0.27 | 8.38 | 22.30 | | | | | | | |
| | R50BO006 | 8.20 | 0.76 | 8.51 | 1.33 | 0.20 | 0.03 | 13.36 | 32.39 | | | | | | | |
| | R50BO007 | 9.44 | 0.89 | 8.51 | 1.33 | 0.52 | 0.09 | 15.44 | 36.22 | | | | | | | |
| | R50BO008 | 15.91 | 1.52 | 17.59 | 2.74 | 1.58 | 0.27 | 26.14 | 65.75 | | | | | | | |
| | R50BO009 | 14.56 | 1.39 | 22.12 | 3.45 | 1.58 | 0.27 | 23.93 | 67.30 | | | | | | | |
| | R50BO010 | 5.66 | 0.53 | 5.67 | 0.88 | 0.36 | 0.06 | 9.26 | 22.42 | | | | | | | |
| | R50BO011 | 8.65 | 0.80 | 8.51 | 1.33 | 0.20 | 0.03 | 14.10 | 33.62 | | | | | | | |
| | R50BO012 | 11.13 | 1.04 | 11.46 | 1.79 | 0.52 | 0.09 | 18.19 | 44.22 | | | | | | | |
| | R50BO013 | 16.75 | 1.60 | 14.86 | 2.32 | 1.58 | 0.27 | 27.49 | 64.87 | | | | | | | |
| | R50CA001 | 8.55 | 0.80 | 7.94 | 1.24 | 0.39 | 0.07 | 13.97 | 32.96 | | | | | | | |
| | R50CA002 | 9.48 | 0.89 | 7.94 | 1.24 | 0.39 | 0.07 | 15.48 | 35.49 | | | | | | | |
| | R50CA005 | 11.99 | 1.13 | 11.35 | 1.77 | 0.66 | 0.11 | 19.61 | 46.62 | | | | | | | |
| | R50CA006 | 9.42 | 0.92 | 9.42 | 1.47 | 1.43 | 0.25 | 15.55 | 38.46 | | | | | | | |
| | R50CA007 | 15.56 | 1.48 | 17.70 | 2.76 | 1.43 | 0.25 | 25.53 | 64.71 | | | | | | | |
| | R50CA008 | 18.27 | 1.73 | 17.70 | 2.76 | 1.43 | 0.25 | 29.94 | 72.08 | | | | | | | |
| | R50CA011 | 20.51 | 1.94 | 17.02 | 2.65 | 1.43 | 0.25 | 33.59 | 77.39 | | | | | | | |
| | R50CA013 | 13.16 | 1.23 | 11.35 | 1.77 | 0.59 | 0.10 | 21.50 | 49.70 | | | | | | | |
| | R50CA014 | 15.79 | 1.47 | 11.35 | 1.77 | 0.59 | 0.10 | 25.78 | 56.85 | | | | | | | |
| | R50CA015 | 24.83 | 2.33 | 17.81 | 2.78 | 1.43 | 0.25 | 40.62 | 90.05 | | | | | | | |
| | R50CA016 | 25.26 | 2.37 | 17.81 | 2.78 | 1.43 | 0.25 | 41.32 | 91.22 | | | | | | | |
| | R50IP001 | 9.33 | 0.89 | 9.08 | 1.42 | 0.85 | 0.15 | 15.31 | 37.03 | | | | | | | |
| | R50SI006 | 7.44 | 0.74 | 6.81 | 1.06 | 1.50 | 0.26 | 12.35 | 30.16 | | | | | | | |
| | R50SI007 | 8.01 | 0.79 | 6.81 | 1.06 | 1.50 | 0.26 | 13.28 | 31.71 | | | | | | | |
| | R50SI013 | 12.58 | 1.21 | 16.79 | 2.62 | 1.58 | 0.27 | 20.72 | 55.77 | | | | | | | |
| | R50SI016 | 13.55 | 1.30 | 16.79 | 2.62 | 1.58 | 0.27 | 22.30 | 58.41 | | | | | | | |
| | R50SI017 | 14.72 | 1.41 | 16.79 | 2.62 | 1.58 | 0.27 | 24.20 | 61.59 | | | | | | | |
| | R50SI022 | 10.72 | 1.01 | 11.35 | 1.77 | 0.64 | 0.11 | 17.55 | 43.15 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAGI | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| PERAT | ING CON | DITIONS | | |
|------|--------------------------|-------|------|---------|---------|--------------|-----------------|--------|---------------|------|------|----------|-------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | ' |
| Kou | cont. R50SI023 | 12.04 | 1.13 | 11.35 | 1.77 | 0.64 | 0.11 | 19.69 | 46.73 | | | | | | | | |
| | R50SI024 | 5.95 | 0.56 | 3.18 | 0.50 | 0.47 | 0.08 | 9.75 | 20.49 | | | | | | | | |
| | R50SI025 | 7.39 | 0.70 | 3.40 | 0.53 | 0.47 | 0.08 | 12.09 | 24.66 | | | | | | | | |
| | R50SI026 | 14.88 | 1.38 | 11.80 | 1.84 | 0.47 | 0.08 | 24.28 | 54.73 | | | | | | | | |
| R55 | | | | | | | | | | | | | | | | | |
| 1100 | 55501004 | | | | | | | | | | | | | | | | |
| | R55GL001 | 0.69 | 0.04 | 0.00 | 0.50 | 0.03 | 0.01 | 0.82 | 2.09 | | | | | | | | |
| | R55GL002 | 0.93 | 0.06 | 1.02 | 0.62 | 0.07 | 0.01 | 1.10 | 3.81 | | | | | | | | |
| | R55GL003 | 2.61 | 0.16 | 1.83 | 0.96 | 0.06 | 0.01 | 3.07 | 8.70 | | | | | | | | |
| | R55GL004 | 3.20 | 0.19 | 1.83 | 1.21 | 0.05 | 0.01 | 3.76 | 10.25 | | | | | | | | |
| | R55GL007 | 2.06 | 0.12 | 3.66 | 0.43 | 0.00 | 0.00 | 2.41 | 8.68 | | | | | | | | |
| | R55GL009 | 0.47 | 0.03 | 2.14 | 0.25 | 0.00 | 0.00 | 0.55 | 3.44 | | | | | | | | |
| | R55GL011 | 1.17 | 0.07 | 3.26 | 0.38 | 0.00 | 0.00 | 1.37 | 6.25 | | | | | | | | |
| | R55GL012 | 1.81 | 0.11 | 1.83 | 0.96 | 0.07 | 0.01 | 2.13 | 6.92 | | | | | | | | |
| | R55GL013 | 0.14 | 0.02 | 0.00 | 0.25 | 0.14 | 0.02 | 0.18 | 0.75 | | | | | | | | |
| | R55GL014 | 0.62 | 0.04 | 0.00 | 0.35 | 0.00 | 0.00 | 0.73 | 1.74 | | | | | | | | |
| | R55GL015 | 1.94 | 0.11 | 1.83 | 0.21 | 0.00 | 0.00 | 2.27 | 6.36 | | | | | | | | |
| | R55GL016 | 0.82 | 0.05 | 1.83 | 0.21 | 0.00 | 0.00 | 0.96 | 3.87 | | | | | | | | |
| | R55GL017 | 0.36 | 0.02 | 1.02 | 0.12 | 0.00 | 0.00 | 0.42 | 1.94 | | | | | | | | |
| | R55GL018 | 0.41 | 0.02 | 1.02 | 0.12 | 0.00 | 0.00 | 0.48 | 2.05 | | | | | | | | |
| | R55GL019 | 0.80 | 0.05 | 1.63 | 0.19 | 0.00 | 0.00 | 0.93 | 3.60 | | | | | | | | |
| | R55GL020 | 0.60 | 0.04 | 1.02 | 0.12 | 0.15 | 0.03 | 0.73 | 2.69 | | | | | | | | |
| | R55GL021 | 0.44 | 0.03 | 1.83 | 0.21 | 0.00 | 0.00 | 0.51 | 3.02 | | | | | | | | |
| | R55GL022 | 3.98 | 0.25 | 1.63 | 7.19 | 0.24 | 0.04 | 4.71 | 18.04 | | | | | | | | |
| | R55GL023 | 1.19 | 0.07 | 1.63 | 0.19 | 0.08 | 0.01 | 1.40 | 4.57 | | | | | | | | |
| | R55GL024 | 0.84 | 0.05 | 1.12 | 0.13 | 0.00 | 0.00 | 0.98 | 3.12 | | | | | | | | |
| | R55GL025 | 0.62 | 0.04 | 1.32 | 0.15 | 0.00 | 0.00 | 0.73 | 2.86 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | NG CONE | DITIONS | | |
|-----|----------|-------|-------|--------|---------|--------------|----------------|--------|---------------|-------|-------|--------|---------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | S10CA001 | 24.85 | 2.65 | 19.86 | 3.87 | 4.03 | 0.70 | 36.89 | 92.85 | 31.06 | 2.70 | 26.26 | 5.12 | 16.30 | 2.81 | 51.25 | 135.50 |
| | S10CA003 | 28.03 | 4.38 | 41.41 | 6.46 | 14.08 | 2.43 | 47.47 | 144.26 | 31.69 | 4.42 | 54.77 | 8.54 | 56.89 | 9.81 | 56.51 | 222.63 |
| S15 | | | | | | | | | | | | | | | | | |
| | S15CA001 | 30.84 | 4.91 | 38.74 | 6.04 | 14.08 | 2.43 | 40.92 | 137.96 | 37.01 | 4.97 | 49.43 | 7.71 | 56.89 | 9.81 | 52.15 | 217.97 |
| | S15CA001 | 45.13 | 7.21 | 47.76 | 7.45 | 21.44 | 3.70 | 59.91 | 192.60 | 54.16 | 7.30 | 60.94 | 9.50 | 86.64 | 14.95 | 76.35 | 309.84 |
| | S15JU001 | 32.87 | 5.07 | 44.79 | 6.98 | 4.99 | 0.86 | 43.32 | 138.88 | 39.45 | 5.14 | 57.15 | 8.91 | 18.58 | 3.21 | 55.22 | 187.66 |
| | S15JU002 | 34.05 | 5.25 | 44.79 | 6.98 | 4.99 | 0.86 | 44.87 | 141.79 | 40.87 | 5.31 | 57.15 | 8.91 | 18.58 | 3.21 | 57.19 | 191.22 |
| S20 | | | | | | | | | | | | | | | | | |
| | S20CA001 | 25.52 | 4.12 | 60.94 | 7.74 | 17.69 | 3.05 | 36.06 | 155.12 | 28.36 | 4.15 | 79.22 | 10.06 | 74.86 | 12.91 | 42.45 | 252.01 |
| | S20CA002 | 37.74 | 5.94 | 60.94 | 7.74 | 17.69 | 3.05 | 53.04 | 186.14 | 41.93 | 5.98 | 79.22 | 10.06 | 74.86 | 12.91 | 62.43 | 287.39 |
| | S20CA003 | 58.58 | 9.21 | 76.86 | 9.76 | 26.95 | 4.65 | 82.32 | 268.33 | 65.09 | 9.27 | 99.92 | 12.68 | 114.00 | 19.67 | 96.90 | 417.53 |
| | S20CA004 | 61.14 | 9.59 | 76.86 | 9.76 | 26.95 | 4.65 | 85.88 | 274.83 | 67.93 | 9.65 | 99.92 | 12.68 | 114.00 | 19.67 | 101.08 | 424.93 |
| | S20CA005 | 75.82 | 11.81 | 104.31 | 13.25 | 28.49 | 4.91 | 106.34 | 344.93 | 84.25 | 11.88 | 135.61 | 17.22 | 120.55 | 20.79 | 125.17 | 515.47 |
| | S20CA006 | 80.08 | 12.53 | 104.31 | 13.25 | 33.12 | 5.71 | 112.42 | 361.42 | 88.98 | 12.61 | 135.61 | 17.22 | 140.12 | 24.17 | 132.32 | 551.03 |
| S25 | | | | | | | | | | | | | | | | | |
| | S25JD001 | 3.26 | 0.47 | 0.00 | 1.50 | 1.40 | 0.24 | 3.88 | 10.75 | 3.91 | 0.48 | 0.00 | 1.50 | 5.22 | 0.90 | 4.99 | 17.00 |
| | S25JD002 | 4.17 | 0.61 | 0.00 | 1.50 | 3.39 | 0.58 | 4.97 | 15.22 | 5.01 | 0.62 | 0.00 | 1.50 | 12.63 | 2.18 | 6.40 | 28.34 |
| | S25RI001 | 3.03 | 0.40 | 0.00 | 1.50 | 0.96 | 0.17 | 3.53 | 9.59 | 3.63 | 0.41 | 0.00 | 1.50 | 3.58 | 0.62 | 4.54 | 14.28 |
| | S25RI002 | 3.31 | 0.45 | 0.00 | 1.50 | 1.44 | 0.25 | 3.88 | 10.83 | 3.97 | 0.46 | 0.00 | 1.50 | 5.38 | 0.93 | 5.00 | 17.24 |
| | S25RM001 | 8.38 | 1.13 | 0.00 | 1.50 | 3.94 | 0.68 | 9.81 | 25.44 | 10.05 | 1.14 | 0.00 | 1.50 | 14.51 | 2.50 | 12.62 | 42.32 |
| | S25RM002 | 11.57 | 1.66 | 0.00 | 1.50 | 8.94 | 1.54 | 13.75 | 38.96 | 13.88 | 1.69 | 0.00 | 1.50 | 33.08 | 5.71 | 17.69 | 73.55 |
| | S25RM003 | 6.09 | 0.85 | 0.00 | 1.50 | 3.94 | 0.68 | 7.19 | 20.25 | 7.31 | 0.86 | 0.00 | 1.50 | 14.51 | 2.50 | 9.25 | 35.93 |
| | S25RM004 | 9.06 | 1.38 | 0.00 | 1.50 | 8.92 | 1.54 | 10.91 | 33.31 | 10.87 | 1.40 | 0.00 | 1.50 | 32.91 | 5.68 | 14.04 | 66.40 |

Table 2-2. HOURLY RATE ELEMENTS

| REC | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | ING CON | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|--------|---------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | S30HW001 | 12.69 | 2.63 | 21.45 | 11.77 | 1.78 | 0.31 | 17.60 | 68.23 | 21.14 | 2.70 | 25.74 | 17.08 | 2.00 | 0.35 | 36.67 | 105.68 |
| | S30HW002 | 17.21 | 3.55 | 30.03 | 16.47 | 2.20 | 0.38 | 23.87 | 93.71 | 28.68 | 3.65 | 36.04 | 23.91 | 2.46 | 0.42 | 49.72 | 144.88 |
| | S30HW005 | 6.77 | 1.41 | 3.43 | 1.88 | 1.07 | 0.18 | 6.11 | 20.85 | 11.28 | 1.45 | 4.12 | 2.73 | 1.21 | 0.21 | 13.31 | 34.31 |
| | S30HW006 | 11.44 | 2.34 | 8.58 | 4.71 | 1.15 | 0.20 | 10.31 | 38.73 | 19.06 | 2.41 | 10.30 | 6.83 | 1.29 | 0.22 | 22.47 | 62.58 |
| | S30HW007 | 12.46 | 2.55 | 10.73 | 5.89 | 1.15 | 0.20 | 11.22 | 44.20 | 20.76 | 2.62 | 12.87 | 8.54 | 1.29 | 0.22 | 24.47 | 70.77 |
| | S30HW008 | 13.03 | 2.66 | 10.73 | 5.89 | 1.15 | 0.20 | 11.74 | 45.40 | 21.71 | 2.74 | 12.87 | 8.54 | 1.29 | 0.22 | 25.59 | 72.96 |
| | S30HW009 | 13.38 | 2.76 | 12.87 | 7.06 | 1.69 | 0.29 | 12.07 | 50.12 | 22.29 | 2.84 | 15.44 | 10.25 | 1.89 | 0.33 | 26.30 | 79.34 |
| | S30HW010 | 16.35 | 3.36 | 17.16 | 9.41 | 1.87 | 0.32 | 14.74 | 63.21 | 27.25 | 3.46 | 20.59 | 13.66 | 2.10 | 0.36 | 32.14 | 99.56 |
| | S30HW011 | 16.00 | 3.29 | 17.16 | 9.41 | 1.97 | 0.34 | 14.43 | 62.60 | 26.67 | 3.39 | 20.59 | 13.66 | 2.21 | 0.38 | 31.45 | 98.35 |
| | S30HW012 | 18.95 | 3.89 | 17.16 | 9.41 | 2.20 | 0.38 | 17.08 | 69.07 | 31.58 | 4.01 | 20.59 | 13.66 | 2.46 | 0.42 | 37.24 | 109.96 |
| | S30HW013 | 15.23 | 3.13 | 38.61 | 21.18 | 1.74 | 0.30 | 21.12 | 101.31 | 25.38 | 3.22 | 46.33 | 30.74 | 1.95 | 0.34 | 43.99 | 151.95 |
| | S30HW014 | 12.36 | 1.09 | 1.29 | 0.71 | 0.71 | 0.12 | 13.71 | 29.99 | 15.44 | 1.12 | 1.54 | 1.02 | 0.79 | 0.14 | 21.43 | 41.48 |
| | S30HW015 | 13.63 | 1.20 | 2.15 | 1.18 | 0.71 | 0.12 | 15.12 | 34.11 | 17.03 | 1.23 | 2.57 | 1.71 | 0.79 | 0.14 | 23.62 | 47.09 |
| | S30HW016 | 12.87 | 1.13 | 1.72 | 0.94 | 0.71 | 0.12 | 14.28 | 31.77 | 16.09 | 1.16 | 2.06 | 1.37 | 0.79 | 0.14 | 22.32 | 43.93 |
| | S30HW017 | 13.88 | 1.22 | 2.15 | 1.18 | 0.71 | 0.12 | 15.40 | 34.66 | 17.35 | 1.25 | 2.57 | 1.71 | 0.79 | 0.14 | 24.06 | 47.87 |
| | S30HW018 | 16.22 | 1.45 | 3.43 | 1.88 | 1.29 | 0.22 | 18.03 | 42.52 | 20.28 | 1.49 | 4.12 | 2.73 | 1.46 | 0.25 | 28.18 | 58.51 |
| | S30KB001 | 3.18 | 0.31 | 0.86 | 0.47 | 0.63 | 0.11 | 3.12 | 8.68 | 3.97 | 0.31 | 1.03 | 0.68 | 0.71 | 0.12 | 4.73 | 11.55 |
| | S30KB002 | 4.13 | 0.39 | 1.29 | 0.71 | 0.79 | 0.14 | 4.05 | 11.50 | 5.16 | 0.41 | 1.54 | 1.02 | 0.88 | 0.15 | 6.14 | 15.30 |
| | S30KB003 | 3.53 | 0.32 | 1.72 | 0.94 | 0.44 | 0.08 | 3.44 | 10.47 | 4.41 | 0.33 | 2.06 | 1.37 | 0.50 | 0.09 | 5.23 | 13.99 |
| | S30KB004 | 4.95 | 0.49 | 2.15 | 1.18 | 1.30 | 0.22 | 4.87 | 15.16 | 6.18 | 0.51 | 2.57 | 1.71 | 1.46 | 0.25 | 7.40 | 20.08 |
| | S30KB005 | 3.88 | 0.38 | 2.15 | 1.18 | 0.89 | 0.15 | 3.82 | 12.45 | 4.86 | 0.39 | 2.57 | 1.71 | 1.00 | 0.17 | 5.79 | 16.49 |
| | S30KB006 | 5.69 | 0.56 | 2.57 | 1.41 | 1.38 | 0.24 | 5.59 | 17.44 | 7.11 | 0.58 | 3.09 | 2.05 | 1.55 | 0.27 | 8.49 | 23.14 |
| | S30KB007 | 3.72 | 0.35 | 0.86 | 0.47 | 0.63 | 0.11 | 3.64 | 9.78 | 4.65 | 0.36 | 1.03 | 0.68 | 0.71 | 0.12 | 5.53 | 13.08 |
| | S30KB008 | 4.63 | 0.43 | 1.29 | 0.71 | 0.69 | 0.12 | 4.53 | 12.40 | 5.79 | 0.44 | 1.54 | 1.02 | 0.78 | 0.13 | 6.87 | 16.57 |
| | S30KB009 | 6.17 | 0.60 | 1.29 | 0.71 | 1.32 | 0.23 | 6.05 | 16.37 | 7.71 | 0.61 | 1.54 | 1.02 | 1.48 | 0.26 | 9.19 | 21.81 |
| | S30KB010 | 3.80 | 0.37 | 1.72 | 0.94 | 0.82 | 0.14 | 3.73 | 11.52 | 4.76 | 0.38 | 2.06 | 1.37 | 0.92 | 0.16 | 5.67 | 15.32 |
| | S30KB011 | 5.62 | 0.53 | 2.15 | 1.18 | 0.90 | 0.16 | 5.49 | 16.03 | 7.02 | 0.54 | 2.57 | 1.71 | 1.01 | 0.17 | 8.34 | 21.36 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAGI | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | <u>DITIONS</u> | | |
|-----|--------------------------|-------|------|---------|---------|--------------|----------------|--------|---------------|-------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. S30KB012 | 6.56 | 0.64 | 2.15 | 1.18 | 1.42 | 0.24 | 6.44 | 18.63 | 8.20 | 0.65 | 2.57 | 1.71 | 1.59 | 0.27 | 9.78 | 24.77 |
| | S30KB012 S30KB013 | 4.45 | 0.64 | 2.15 | 1.18 | 0.89 | 0.24 | 4.36 | 13.61 | 5.56 | 0.65 | 2.57 | 1.71 | 1.00 | 0.27 | 6.63 | 18.08 |
| | S30KB013 | 6.09 | 0.43 | 2.13 | 1.16 | 0.89 | 0.13 | 5.95 | 17.74 | 7.61 | 0.44 | 3.09 | 2.05 | 1.10 | 0.17 | 9.04 | 23.67 |
| | S30KB014 S30KB015 | 8.10 | 0.37 | 3.43 | 1.41 | 1.52 | 0.17 | 7.94 | 23.90 | 10.12 | 0.39 | 4.12 | 2.73 | 1.70 | 0.19 | 12.05 | 31.80 |
| | S30KB013 | 9.79 | 0.77 | 2.15 | 1.00 | 0.94 | 0.26 | 9.54 | 24.64 | 12.24 | 0.79 | 2.57 | 1.71 | 1.70 | 0.29 | 14.48 | 33.14 |
| | S30KB010 | 11.38 | 1.02 | 3.43 | 1.18 | 1.06 | 0.10 | 11.08 | 30.03 | 14.22 | 1.05 | 4.12 | 2.73 | 1.18 | 0.10 | 16.82 | 40.32 |
| | S30KB021 | 13.07 | 1.17 | 5.45 | 2.83 | 1.17 | 0.10 | 12.72 | 36.31 | 16.34 | 1.20 | 6.18 | 4.10 | 1.31 | 0.20 | 19.32 | 48.68 |
| | S30KB024 | 6.90 | 0.63 | 1.72 | 0.94 | 0.79 | 0.20 | 6.73 | 17.85 | 8.62 | 0.65 | 2.06 | 1.37 | 0.88 | 0.25 | 10.21 | 23.94 |
| | S30KB025 | 8.25 | 0.75 | 1.72 | 0.94 | 0.75 | 0.15 | 8.04 | 20.70 | 10.32 | 0.03 | 2.06 | 1.37 | 0.95 | 0.16 | 12.21 | 27.84 |
| | S30KB027 | 10.52 | 0.75 | 2.15 | 1.18 | 0.94 | 0.16 | 10.24 | 26.14 | 13.15 | 0.77 | 2.57 | 1.71 | 1.05 | 0.10 | 15.55 | 35.18 |
| | S30KB027 | 7.87 | 0.72 | 2.57 | 1.41 | 0.86 | 0.15 | 7.67 | 21.25 | 9.83 | 0.73 | 3.09 | 2.05 | 0.96 | 0.17 | 11.64 | 28.47 |
| | S30KB029 | 9.53 | 0.86 | 2.57 | 1.41 | 0.94 | 0.16 | 9.29 | 24.76 | 11.92 | 0.78 | 3.09 | 2.05 | 1.05 | 0.17 | 14.10 | 33.27 |
| | S30KB030 | 12.05 | 1.08 | 3.43 | 1.88 | 1.06 | 0.18 | 11.73 | 31.41 | 15.07 | 1.11 | 4.12 | 2.73 | 1.18 | 0.20 | 17.82 | 42.23 |
| | S30KB031 | 10.34 | 0.93 | 4.29 | 2.35 | 0.94 | 0.16 | 10.07 | 29.08 | 12.93 | 0.95 | 5.15 | 3.42 | 1.05 | 0.18 | 15.29 | 38.97 |
| | S30KB032 | 12.22 | 1.10 | 4.29 | 2.35 | 1.06 | 0.18 | 11.89 | 33.09 | 15.27 | 1.12 | 5.15 | 3.42 | 1.18 | 0.20 | 18.06 | 44.40 |
| | S30KB033 | 14.13 | 1.26 | 5.15 | 2.83 | 1.17 | 0.20 | 13.74 | 38.48 | 17.66 | 1.30 | 6.18 | 4.10 | 1.31 | 0.23 | 20.87 | 51.65 |
| | S30KB034 | 4.90 | 0.46 | 1.29 | 0.71 | 0.86 | 0.15 | 4.80 | 13.17 | 6.13 | 0.48 | 1.54 | 1.02 | 0.96 | 0.17 | 7.29 | 17.59 |
| | S30KB035 | 5.57 | 0.53 | 1.72 | 0.94 | 1.02 | 0.18 | 5.46 | 15.42 | 6.97 | 0.54 | 2.06 | 1.37 | 1.14 | 0.20 | 8.29 | 20.57 |
| | S30KB036 | 5.25 | 0.50 | 1.72 | 0.94 | 0.94 | 0.16 | 5.14 | 14.65 | 6.56 | 0.51 | 2.06 | 1.37 | 1.05 | 0.18 | 7.80 | 19.53 |
| | S30KB041 | 5.98 | 0.57 | 1.72 | 0.94 | 1.12 | 0.19 | 5.86 | 16.38 | 7.47 | 0.58 | 2.06 | 1.37 | 1.26 | 0.22 | 8.89 | 21.85 |
| | S30KB042 | 8.75 | 0.79 | 2.57 | 1.41 | 0.79 | 0.14 | 8.52 | 22.97 | 10.94 | 0.81 | 3.09 | 2.05 | 0.88 | 0.15 | 12.94 | 30.86 |
| | S30KB043 | 13.15 | 1.16 | 1.29 | 0.71 | 0.85 | 0.15 | 12.78 | 30.09 | 16.43 | 1.19 | 1.54 | 1.02 | 0.95 | 0.16 | 19.40 | 40.69 |
| | S30KB044 | 16.27 | 1.43 | 1.29 | 0.71 | 0.85 | 0.15 | 15.80 | 36.50 | 20.34 | 1.47 | 1.54 | 1.02 | 0.95 | 0.16 | 23.99 | 49.47 |
| | S30KB045 | 22.07 | 4.47 | 40.85 | 5.58 | 1.34 | 0.23 | 30.56 | 105.10 | 36.79 | 4.61 | 48.75 | 7.98 | 1.50 | 0.26 | 63.67 | 163.56 |
| | S30KB046 | 15.29 | 3.14 | 23.34 | 12.80 | 1.64 | 0.28 | 25.45 | 81.94 | 25.49 | 3.23 | 28.01 | 18.59 | 1.84 | 0.32 | 56.56 | 134.04 |
| | S30KB047 | 19.21 | 3.90 | 27.03 | 14.83 | 1.24 | 0.21 | 31.93 | 98.35 | 32.02 | 4.01 | 32.43 | 21.52 | 1.39 | 0.24 | 70.97 | 162.58 |
| | S30KB048 | 16.68 | 1.47 | 7.29 | 4.00 | 0.97 | 0.17 | 18.51 | 49.09 | 20.85 | 1.51 | 8.75 | 5.81 | 1.08 | 0.19 | 28.94 | 67.13 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | NG CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|--------|------|--------|---------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | S30KB049 | 18.62 | 1.73 | 7.72 | 4.23 | 2.82 | 0.49 | 20.79 | 56.40 | 23.28 | 1.78 | 9.27 | 6.15 | 3.17 | 0.55 | 32.48 | 76.68 |
| | S30KB050 | 24.00 | 2.09 | 21.45 | 11.77 | 0.89 | 0.15 | 26.60 | 86.95 | 30.00 | 2.14 | 25.74 | 17.08 | 1.00 | 0.17 | 41.58 | 117.71 |
| | S30KB051 | 30.35 | 2.65 | 21.45 | 11.77 | 1.34 | 0.23 | 33.66 | 101.45 | 37.94 | 2.72 | 25.74 | 17.08 | 1.50 | 0.26 | 52.60 | 137.84 |
| | S30KB052 | 32.35 | 2.77 | 21.45 | 11.77 | 0.45 | 0.08 | 35.80 | 104.67 | 40.43 | 2.84 | 25.74 | 17.08 | 0.50 | 0.09 | 55.94 | 142.62 |
| | S30KB053 | 9.02 | 0.81 | 3.43 | 1.88 | 0.85 | 0.15 | 8.78 | 24.92 | 11.28 | 0.83 | 4.12 | 2.73 | 0.95 | 0.16 | 13.34 | 33.41 |
| | S30KB054 | 8.97 | 0.81 | 1.29 | 0.71 | 0.79 | 0.14 | 8.73 | 21.44 | 11.21 | 0.83 | 1.54 | 1.02 | 0.88 | 0.15 | 13.26 | 28.89 |
| | S30KB055 | 14.27 | 2.91 | 27.80 | 3.80 | 1.15 | 0.20 | 12.85 | 62.98 | 23.78 | 2.99 | 33.18 | 5.43 | 1.29 | 0.22 | 28.02 | 94.91 |
| | S30KB056 | 14.63 | 2.98 | 27.80 | 3.80 | 1.15 | 0.20 | 13.18 | 63.74 | 24.38 | 3.07 | 33.18 | 5.43 | 1.29 | 0.22 | 28.73 | 96.30 |
| | S30KB057 | 16.37 | 3.32 | 27.80 | 3.80 | 1.15 | 0.20 | 14.74 | 67.38 | 27.28 | 3.42 | 33.18 | 5.43 | 1.29 | 0.22 | 32.12 | 102.94 |
| | S30KB058 | 15.32 | 3.11 | 11.15 | 6.12 | 1.18 | 0.20 | 13.80 | 50.88 | 25.53 | 3.21 | 13.38 | 8.88 | 1.32 | 0.23 | 30.07 | 82.62 |
| | S30KB059 | 24.07 | 4.88 | 25.74 | 14.12 | 1.62 | 0.28 | 21.67 | 92.38 | 40.11 | 5.03 | 30.89 | 20.50 | 1.82 | 0.31 | 47.24 | 145.90 |
| | S30PU002 | 55.06 | 4.74 | 45.38 | 6.20 | 1.49 | 0.26 | 53.36 | 166.49 | 68.82 | 4.86 | 54.17 | 8.87 | 1.77 | 0.31 | 81.02 | 219.82 |
| | S30PU003 | 69.35 | 5.96 | 45.38 | 6.20 | 1.65 | 0.28 | 67.20 | 196.02 | 86.68 | 6.12 | 54.17 | 8.87 | 1.94 | 0.33 | 102.03 | 260.14 |
| | S30PU004 | 81.53 | 6.99 | 45.38 | 6.20 | 1.65 | 0.28 | 78.99 | 221.02 | 101.92 | 7.18 | 54.17 | 8.87 | 1.94 | 0.33 | 119.94 | 294.35 |
| | S30RA002 | 7.08 | 0.61 | 2.84 | 0.39 | 0.24 | 0.04 | 7.84 | 19.04 | 8.85 | 0.63 | 3.39 | 0.56 | 0.27 | 0.05 | 12.26 | 26.01 |
| | S30RA003 | 11.13 | 0.97 | 5.56 | 0.76 | 0.48 | 0.08 | 12.34 | 31.32 | 13.91 | 1.00 | 6.64 | 1.09 | 0.53 | 0.09 | 19.29 | 42.55 |
| | S30TS001 | 3.45 | 0.32 | 1.03 | 0.57 | 0.51 | 0.09 | 3.37 | 9.34 | 4.31 | 0.33 | 1.24 | 0.82 | 0.57 | 0.10 | 5.11 | 12.48 |
| | S30TS002 | 4.71 | 0.43 | 1.46 | 0.80 | 0.63 | 0.11 | 4.60 | 12.74 | 5.89 | 0.45 | 1.75 | 1.16 | 0.71 | 0.12 | 6.99 | 17.07 |
| | S30TS003 | 3.53 | 0.33 | 1.46 | 0.80 | 0.58 | 0.10 | 3.46 | 10.26 | 4.42 | 0.34 | 1.75 | 1.16 | 0.65 | 0.11 | 5.25 | 13.68 |
| | S30TS004 | 4.82 | 0.45 | 1.89 | 1.04 | 0.74 | 0.13 | 4.71 | 13.78 | 6.03 | 0.46 | 2.27 | 1.51 | 0.83 | 0.14 | 7.15 | 18.39 |
| | S30TS005 | 3.69 | 0.35 | 1.89 | 1.04 | 0.66 | 0.11 | 3.61 | 11.35 | 4.62 | 0.36 | 2.27 | 1.51 | 0.74 | 0.13 | 5.49 | 15.12 |
| | S30TS006 | 5.03 | 0.47 | 2.32 | 1.27 | 0.84 | 0.14 | 4.92 | 14.99 | 6.29 | 0.48 | 2.78 | 1.84 | 0.95 | 0.16 | 7.47 | 19.97 |
| | S30TS007 | 4.45 | 0.42 | 2.75 | 1.51 | 0.73 | 0.13 | 4.35 | 14.34 | 5.57 | 0.43 | 3.29 | 2.18 | 0.82 | 0.14 | 6.61 | 19.04 |
| | S30TS008 | 7.67 | 0.70 | 3.60 | 1.97 | 0.95 | 0.16 | 7.48 | 22.53 | 9.58 | 0.72 | 4.32 | 2.87 | 1.07 | 0.18 | 11.36 | 30.10 |
| | S30TS009 | 11.95 | 2.38 | 25.74 | 17.12 | 0.00 | 0.00 | 16.51 | 73.70 | 19.91 | 2.45 | 30.89 | 23.50 | 0.00 | 0.00 | 34.40 | 111.15 |
| | S30TS010 | 17.75 | 3.54 | 34.32 | 22.83 | 0.00 | 0.00 | 24.54 | 102.98 | 29.59 | 3.64 | 41.18 | 31.33 | 0.00 | 0.00 | 51.13 | 156.87 |
| | S30TS011 | 29.49 | 5.88 | 68.64 | 45.65 | 0.00 | 0.00 | 40.76 | 190.42 | 49.15 | 6.05 | 82.37 | 62.66 | 0.00 | 0.00 | 84.92 | 285.15 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | ING CONE | DITIONS | | |
|-----|----------------------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|--------|---------|--------------|----------------|--------|---------------|
| 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 |
| | | | | | | | | | | | | | | | | | |
| S35 | | | | | | | | | | | | | | | | | |
| | S35AR001 | 0.54 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 | 1.26 | | | | | | | | |
| | S35AR002 | 0.77 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 1.79 | | | | | | | | |
| S40 | | | | | | | | | | | | | | | | | |
| | S40BO002 | 28.95 | 3.03 | 44.80 | 6.12 | 1.88 | 0.32 | 40.42 | 125.52 | 36.19 | 3.09 | 57.97 | 7.92 | 7.75 | 1.34 | 56.48 | 170.74 |
| | S40BO002 S40BO003 | 27.28 | 2.85 | 44.80 | 6.12 | 1.88 | 0.32 | 38.10 | 123.32 | 34.10 | 2.92 | 57.97 | 7.92 | 7.75 | 1.34 | 53.24 | 165.24 |
| | S40BO003 | 27.76 | 2.83 | 44.80 | 6.12 | 1.88 | 0.32 | 38.77 | 121.55 | 34.70 | 2.92 | 57.97 | 7.92 | 7.75 | 1.34 | 54.17 | 166.82 |
| | S40CA001 | 32.11 | 3.35 | 38.45 | 5.25 | 2.53 | 0.32 | 44.82 | 126.95 | 40.13 | 3.42 | 49.76 | 6.80 | 9.75 | 1.68 | 62.63 | 174.17 |
| | S40CA001 | 30.67 | 3.22 | 38.45 | 5.25 | 1.80 | 0.44 | 42.86 | 120.55 | 38.34 | 3.42 | 49.76 | 6.80 | 6.84 | 1.18 | 59.88 | 166.08 |
| | S40CA002 | 24.69 | 2.77 | 43.55 | 5.95 | 11.31 | 1.95 | 35.00 | 125.22 | 30.86 | 2.83 | 56.36 | 7.70 | 45.15 | 7.79 | 48.90 | 199.59 |
| | S40CA004 | 40.20 | 4.35 | 67.20 | 9.18 | 9.71 | 1.67 | 56.52 | 188.83 | 50.24 | 4.44 | 86.96 | 11.88 | 37.46 | 6.46 | 78.97 | 276.41 |
| S45 | | | | | | | | | | | | | | | | | |
| 343 | | | | | | | | | | | | | | | | | |
| | S45DA004 | 1.81 | 0.12 | 0.00 | 0.25 | 0.00 | 0.00 | 2.81 | 4.99 | | | | | | | | |
| | S45DA005 | 2.16 | 0.14 | 0.00 | 0.25 | 0.00 | 0.00 | 3.36 | 5.91 | | | | | | | | |
| | S45DA007 | 2.28 | 0.15 | 0.00 | 0.25 | 0.00 | 0.00 | 3.54 | 6.22 | | | | | | | | |
| T10 | | | | | | | | | | | | | | | | | |
| | T10CA001 | 1.18 | 0.12 | 0.00 | 0.08 | 0.00 | 0.00 | 1.49 | 2.87 | 1.47 | 0.12 | 0.00 | 0.08 | 0.00 | 0.00 | 2.10 | 3.77 |
| | T10CA002 | 1.46 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 1.84 | 3.53 | 1.82 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 2.59 | 4.64 |
| | T10CA004 | 1.30 | 0.13 | 0.00 | 0.08 | 0.00 | 0.00 | 1.65 | 3.16 | 1.63 | 0.14 | 0.00 | 0.08 | 0.00 | 0.00 | 2.32 | 4.17 |
| | T10CA005 | 1.46 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 1.84 | 3.53 | 1.82 | 0.15 | 0.00 | 0.08 | 0.00 | 0.00 | 2.59 | 4.64 |
| | T10CA007 | 1.97 | 0.20 | 0.00 | 0.08 | 0.00 | 0.00 | 2.50 | 4.75 | 2.47 | 0.21 | 0.00 | 0.08 | 0.00 | 0.00 | 3.51 | 6.27 |
| | T10CA008 | 2.21 | 0.23 | 0.00 | 0.08 | 0.00 | 0.00 | 2.80 | 5.32 | 2.77 | 0.23 | 0.00 | 0.08 | 0.00 | 0.00 | 3.94 | 7.02 |
| | T10CA009 | 2.41 | 0.25 | 0.00 | 0.08 | 0.00 | 0.00 | 3.05 | 5.79 | 3.01 | 0.25 | 0.00 | 0.08 | 0.00 | 0.00 | 4.29 | 7.63 |
| | T10CA010 | 2.64 | 0.27 | 0.00 | 0.08 | 0.00 | 0.00 | 3.34 | 6.33 | 3.30 | 0.28 | 0.00 | 0.08 | 0.00 | 0.00 | 4.69 | 8.35 |
| | T10CA011 | 3.67 | 0.38 | 0.00 | 0.08 | 0.00 | 0.00 | 4.65 | 8.78 | 4.59 | 0.38 | 0.00 | 0.08 | 0.00 | 0.00 | 6.54 | 11.59 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| PERATI | NG CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | T10CA012 | 3.55 | 0.36 | 0.00 | 0.08 | 0.00 | 0.00 | 4.49 | 8.48 | 4.44 | 0.37 | 0.00 | 0.08 | 0.00 | 0.00 | 6.32 | 11.21 |
| | T10CA013 | 3.90 | 0.40 | 0.00 | 0.08 | 0.00 | 0.00 | 4.93 | 9.31 | 4.88 | 0.41 | 0.00 | 0.08 | 0.00 | 0.00 | 6.94 | 12.31 |
| | T10CA014 | 3.25 | 0.33 | 0.00 | 0.08 | 0.00 | 0.00 | 4.11 | 7.77 | 4.06 | 0.34 | 0.00 | 0.08 | 0.00 | 0.00 | 5.78 | 10.26 |
| | T10CA015 | 4.83 | 0.49 | 0.00 | 0.10 | 0.00 | 0.00 | 6.11 | 11.53 | 6.04 | 0.50 | 0.00 | 0.10 | 0.00 | 0.00 | 8.59 | 15.23 |
| | T10CA016 | 4.73 | 0.48 | 0.00 | 0.12 | 0.00 | 0.00 | 5.98 | 11.31 | 5.91 | 0.49 | 0.00 | 0.12 | 0.00 | 0.00 | 8.42 | 14.94 |
| | T10CA017 | 5.14 | 0.52 | 0.00 | 0.13 | 0.00 | 0.00 | 6.50 | 12.29 | 6.42 | 0.54 | 0.00 | 0.13 | 0.00 | 0.00 | 9.14 | 16.23 |
| | T10CA018 | 4.54 | 0.46 | 0.00 | 0.13 | 0.00 | 0.00 | 5.75 | 10.88 | 5.68 | 0.47 | 0.00 | 0.13 | 0.00 | 0.00 | 8.09 | 14.37 |
| | T10CA019 | 0.13 | 0.01 | 0.00 | 0.05 | 0.00 | 0.00 | 0.17 | 0.36 | 0.16 | 0.01 | 0.00 | 0.05 | 0.00 | 0.00 | 0.23 | 0.45 |
| | T10CA020 | 4.81 | 0.49 | 0.00 | 0.15 | 0.00 | 0.00 | 6.09 | 11.54 | 6.02 | 0.50 | 0.00 | 0.15 | 0.00 | 0.00 | 8.57 | 15.24 |
| | T10CA021 | 6.43 | 0.66 | 0.00 | 0.19 | 0.00 | 0.00 | 8.13 | 15.41 | 8.03 | 0.67 | 0.00 | 0.19 | 0.00 | 0.00 | 11.44 | 20.33 |
| | T10CA022 | 6.26 | 0.64 | 0.00 | 0.19 | 0.00 | 0.00 | 7.92 | 15.01 | 7.82 | 0.65 | 0.00 | 0.19 | 0.00 | 0.00 | 11.14 | 19.80 |
| | T10CA023 | 6.47 | 0.66 | 0.00 | 0.20 | 0.00 | 0.00 | 8.19 | 15.52 | 8.09 | 0.68 | 0.00 | 0.20 | 0.00 | 0.00 | 11.52 | 20.49 |
| | T10CA024 | 5.04 | 0.51 | 0.00 | 0.28 | 0.00 | 0.00 | 6.37 | 12.20 | 6.30 | 0.53 | 0.00 | 0.28 | 0.00 | 0.00 | 8.96 | 16.07 |
| | T10CA025 | 6.02 | 0.61 | 0.00 | 0.29 | 0.00 | 0.00 | 7.61 | 14.53 | 7.52 | 0.63 | 0.00 | 0.29 | 0.00 | 0.00 | 10.71 | 19.15 |
| | T10CA026 | 9.41 | 0.96 | 0.00 | 0.40 | 0.00 | 0.00 | 11.90 | 22.67 | 11.76 | 0.98 | 0.00 | 0.40 | 0.00 | 0.00 | 16.74 | 29.88 |
| | T10CA027 | 12.39 | 1.27 | 0.00 | 0.42 | 0.00 | 0.00 | 15.67 | 29.75 | 15.48 | 1.29 | 0.00 | 0.42 | 0.00 | 0.00 | 22.05 | 39.24 |
| | T10JD001 | 0.97 | 0.10 | 0.00 | 0.25 | 0.10 | 0.02 | 1.24 | 2.68 | 1.21 | 0.11 | 0.00 | 0.25 | 0.12 | 0.02 | 1.74 | 3.45 |
| T15 | | | | | | | | | | | | | | | | | |
| | T15CA002 | 8.17 | 1.02 | 8.71 | 1.53 | 0.00 | 0.00 | 16.25 | 35.68 | 10.22 | 1.04 | 11.27 | 1.98 | 0.00 | 0.00 | 23.07 | 47.58 |
| | T15CA005 | 9.17 | 1.14 | 9.96 | 1.75 | 0.00 | 0.00 | 18.24 | 40.26 | 11.47 | 1.16 | 12.88 | 2.27 | 0.00 | 0.00 | 25.90 | 53.68 |
| | T15CA008 | 18.51 | 2.31 | 18.04 | 3.17 | 0.00 | 0.00 | 36.80 | 78.83 | 23.13 | 2.35 | 23.35 | 4.11 | 0.00 | 0.00 | 52.25 | 105.19 |
| | T15CA009 | 27.70 | 3.45 | 20.53 | 3.61 | 0.00 | 0.00 | 55.09 | 110.38 | 34.63 | 3.51 | 26.57 | 4.68 | 0.00 | 0.00 | 78.21 | 147.60 |
| | T15CA011 | 27.37 | 3.41 | 23.02 | 4.05 | 0.00 | 0.00 | 54.43 | 112.28 | 34.21 | 3.47 | 29.79 | 5.24 | 0.00 | 0.00 | 77.27 | 149.98 |
| | T15CA012 | 21.78 | 3.02 | 29.87 | 4.09 | 0.00 | 0.00 | 44.08 | 102.84 | 25.92 | 3.06 | 38.65 | 5.29 | 0.00 | 0.00 | 54.65 | 127.57 |
| | T15CA014 | 24.67 | 3.42 | 29.87 | 4.09 | 0.00 | 0.00 | 49.94 | 111.99 | 29.37 | 3.46 | 38.65 | 5.29 | 0.00 | 0.00 | 61.92 | 138.69 |
| | T15CA016 | 37.64 | 5.22 | 38.58 | 5.28 | 0.00 | 0.00 | 76.19 | 162.91 | 44.81 | 5.29 | 49.92 | 6.83 | 0.00 | 0.00 | 94.46 | 201.31 |
| | T15CA017 | 43.71 | 6.06 | 51.02 | 6.98 | 0.00 | 0.00 | 88.47 | 196.24 | 52.04 | 6.14 | 66.03 | 9.04 | 0.00 | 0.00 | 109.69 | 242.94 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | ING CONE | DITIONS | | |
|-----|----------|--------|-------|--------|---------|--------------|----------------|--------|---------------|--------|-------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | T15CA018 | 64.51 | 9.62 | 61.56 | 4.67 | 0.00 | 0.00 | 122.41 | 262.77 | 77.41 | 9.74 | 78.54 | 5.96 | 0.00 | 0.00 | 165.27 | 336.92 |
| | T15CA019 | 104.69 | 15.61 | 90.22 | 6.85 | 0.00 | 0.00 | 198.65 | 416.02 | 125.63 | 15.80 | 115.11 | 8.74 | 0.00 | 0.00 | 268.21 | 533.49 |
| | T15CA020 | 8.70 | 1.08 | 9.96 | 1.75 | 0.00 | 0.00 | 17.29 | 38.78 | 10.87 | 1.10 | 12.88 | 2.27 | 0.00 | 0.00 | 24.55 | 51.67 |
| | T15CA021 | 9.84 | 1.23 | 11.20 | 1.97 | 0.00 | 0.00 | 19.56 | 43.80 | 12.30 | 1.25 | 14.49 | 2.55 | 0.00 | 0.00 | 27.77 | 58.36 |
| | T15CA022 | 9.77 | 1.22 | 11.20 | 1.97 | 0.00 | 0.00 | 19.43 | 43.59 | 12.21 | 1.24 | 14.49 | 2.55 | 0.00 | 0.00 | 27.59 | 58.08 |
| | T15CA023 | 22.56 | 2.81 | 20.53 | 3.61 | 0.00 | 0.00 | 44.86 | 94.37 | 28.20 | 2.86 | 26.57 | 4.68 | 0.00 | 0.00 | 63.68 | 125.99 |
| | T15CA024 | 9.37 | 1.17 | 13.69 | 2.41 | 0.00 | 0.00 | 18.63 | 45.27 | 11.71 | 1.19 | 17.71 | 3.12 | 0.00 | 0.00 | 26.45 | 60.18 |
| | T15CS004 | 8.08 | 1.01 | 8.34 | 1.47 | 0.00 | 0.00 | 16.08 | 34.98 | 10.10 | 1.02 | 10.79 | 1.90 | 0.00 | 0.00 | 22.82 | 46.63 |
| | T15CS007 | 14.11 | 1.76 | 14.81 | 2.61 | 0.00 | 0.00 | 28.05 | 61.34 | 17.63 | 1.79 | 19.16 | 3.37 | 0.00 | 0.00 | 39.83 | 81.78 |
| | T15JD005 | 6.79 | 0.85 | 8.71 | 1.53 | 0.00 | 0.00 | 13.50 | 31.38 | 8.49 | 0.86 | 11.27 | 1.98 | 0.00 | 0.00 | 19.17 | 41.77 |
| | T15JD006 | 6.93 | 0.86 | 8.71 | 1.53 | 0.00 | 0.00 | 13.79 | 31.82 | 8.67 | 0.88 | 11.27 | 1.98 | 0.00 | 0.00 | 19.57 | 42.37 |
| | T15JD007 | 10.59 | 1.32 | 12.57 | 2.21 | 0.00 | 0.00 | 21.06 | 47.75 | 13.24 | 1.34 | 16.27 | 2.86 | 0.00 | 0.00 | 29.89 | 63.60 |
| | T15JD008 | 17.16 | 2.14 | 19.29 | 3.39 | 0.00 | 0.00 | 34.13 | 76.11 | 21.45 | 2.18 | 24.96 | 4.39 | 0.00 | 0.00 | 48.46 | 101.44 |
| | T15JD009 | 17.89 | 2.23 | 20.53 | 3.61 | 0.00 | 0.00 | 35.58 | 79.84 | 22.36 | 2.27 | 26.57 | 4.68 | 0.00 | 0.00 | 50.51 | 106.39 |
| | T15JD010 | 24.19 | 3.02 | 23.27 | 4.09 | 0.00 | 0.00 | 48.11 | 102.68 | 30.24 | 3.07 | 30.11 | 5.30 | 0.00 | 0.00 | 68.30 | 137.02 |
| | T15JD011 | 25.80 | 3.22 | 25.51 | 4.49 | 0.00 | 0.00 | 51.31 | 110.33 | 32.26 | 3.27 | 33.01 | 5.81 | 0.00 | 0.00 | 72.85 | 147.20 |
| | T15KM008 | 34.74 | 4.82 | 38.58 | 5.28 | 0.00 | 0.00 | 70.32 | 153.74 | 41.36 | 4.88 | 49.92 | 6.83 | 0.00 | 0.00 | 87.19 | 190.18 |
| T20 | | | | | | | | | | | | | | | | | |
| | T20CA001 | 30.46 | 4.01 | 25.47 | 3.49 | 7.00 | 1.21 | 26.53 | 98.17 | 32.80 | 4.03 | 32.50 | 4.45 | 29.40 | 5.07 | 30.94 | 139.19 |
| | T20CA002 | 44.29 | 5.93 | 35.98 | 4.92 | 14.94 | 2.58 | 38.67 | 147.31 | 47.70 | 5.96 | 45.91 | 6.28 | 62.74 | 10.82 | 45.10 | 224.51 |
| | T20CA003 | 67.28 | 9.15 | 51.05 | 6.99 | 18.60 | 3.21 | 58.89 | 215.17 | 72.45 | 9.19 | 65.14 | 8.91 | 78.12 | 13.48 | 68.67 | 315.96 |
| T25 | | | | | | | | | | | | | | | | | |
| İ | T25CA006 | 19.77 | 1.84 | 30.29 | 4.15 | 0.00 | 0.00 | 24.23 | 80.28 | | | j | | | | | j |
| | T25CA007 | 21.69 | 2.02 | 33.13 | 4.53 | 0.00 | 0.00 | 26.59 | 87.96 | | | | | | | | |
| | T25CA008 | 23.50 | 2.19 | 40.05 | 5.48 | 0.00 | 0.00 | 28.80 | 100.02 | | | | | | | | |
| | T25JD021 | 9.71 | 0.77 | 13.05 | 1.79 | 0.80 | 0.14 | 9.87 | 36.13 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERATI | NG CON | DITIONS | | |
|-----|----------|--------|-------|--------|---------|--------------|----------------|--------|---------------|--------|-------|--------|---------|--------------|----------------|--------|---------------|
| 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 |
| T25 | cont. | | | | | | | | | | | | | | | | |
| | T25JD022 | 14.08 | 1.11 | 19.29 | 2.64 | 0.80 | 0.14 | 14.28 | 52.34 | | | | | | | | |
| | T25JD023 | 19.68 | 1.57 | 26.66 | 3.65 | 1.74 | 0.30 | 20.01 | 73.61 | | | | | | | | |
| | T25JD024 | 22.79 | 1.81 | 32.34 | 4.43 | 1.74 | 0.30 | 23.15 | 86.56 | | | | | | | | |
| | T25JD025 | 23.61 | 2.05 | 40.85 | 5.59 | 5.44 | 0.94 | 24.32 | 102.80 | | | | | | | | |
| | T25JD026 | 28.92 | 2.45 | 52.19 | 7.14 | 5.44 | 0.94 | 29.69 | 126.77 | | | | | | | | |
| | T25JD027 | 1.41 | 0.13 | 5.11 | 0.70 | 0.45 | 0.08 | 1.46 | 9.34 | | | | | | | | |
| | T25JD028 | 1.54 | 0.14 | 6.24 | 0.85 | 0.45 | 0.08 | 1.59 | 10.89 | | | | | | | | |
| | T25JD029 | 2.18 | 0.19 | 6.24 | 0.85 | 0.45 | 0.08 | 2.24 | 12.23 | | | | | | | | |
| | T25JD030 | 3.39 | 0.28 | 7.37 | 1.01 | 0.45 | 0.08 | 3.46 | 16.04 | | | | | | | | |
| | T25JD031 | 3.46 | 0.29 | 9.42 | 1.29 | 0.54 | 0.09 | 3.54 | 18.63 | | | | | | | | |
| | T25JD032 | 3.54 | 0.34 | 11.46 | 1.57 | 1.82 | 0.31 | 3.72 | 22.76 | | | | | | | | |
| T30 | | | | | | | | | | | | | | | | | |
| | T30DW005 | 3.73 | 0.33 | 4.77 | 0.65 | 0.33 | 0.06 | 5.17 | 15.04 | 4.97 | 0.34 | 6.30 | 0.86 | 1.22 | 0.21 | 7.66 | 21.56 |
| | T30DW010 | 10.59 | 0.96 | 11.23 | 1.53 | 2.34 | 0.40 | 14.78 | 41.83 | 14.12 | 0.99 | 14.86 | 2.03 | 8.72 | 1.50 | 21.90 | 64.12 |
| | T30DW011 | 54.45 | 4.55 | 24.96 | 3.41 | 0.00 | 0.00 | 74.73 | 162.10 | 72.60 | 4.70 | 33.01 | 4.52 | 0.00 | 0.00 | 110.72 | 225.55 |
| | T30DW012 | 0.97 | 0.08 | 3.56 | 0.49 | 0.03 | 0.01 | 1.33 | 6.47 | 1.29 | 0.08 | 4.64 | 0.64 | 0.09 | 0.02 | 1.97 | 8.73 |
| | T30DW013 | 1.21 | 0.11 | 4.89 | 0.67 | 0.13 | 0.02 | 1.68 | 8.71 | 1.61 | 0.11 | 6.39 | 0.87 | 0.48 | 0.08 | 2.49 | 12.03 |
| | T30DW014 | 12.79 | 1.10 | 11.57 | 1.58 | 0.57 | 0.10 | 17.64 | 45.35 | 17.05 | 1.13 | 15.31 | 2.10 | 2.13 | 0.37 | 26.14 | 64.23 |
| | T30DW015 | 3.82 | 0.35 | 4.77 | 0.65 | 0.57 | 0.10 | 5.34 | 15.60 | 5.10 | 0.36 | 6.30 | 0.86 | 2.13 | 0.37 | 7.91 | 23.03 |
| | T30DW016 | 6.89 | 0.59 | 6.81 | 0.93 | 0.33 | 0.06 | 9.51 | 25.12 | 9.19 | 0.61 | 9.00 | 1.23 | 1.22 | 0.21 | 14.10 | 35.56 |
| | T30DW017 | 8.12 | 0.71 | 8.85 | 1.21 | 0.57 | 0.10 | 11.24 | 30.80 | 10.82 | 0.73 | 11.70 | 1.60 | 2.13 | 0.37 | 16.65 | 44.00 |
| | T30DW018 | 11.01 | 0.95 | 11.23 | 1.53 | 0.57 | 0.10 | 15.20 | 40.59 | 14.67 | 0.98 | 14.86 | 2.03 | 2.13 | 0.37 | 22.52 | 57.56 |
| | T30TM007 | 50.50 | 4.22 | 24.96 | 3.41 | 0.00 | 0.00 | 69.31 | 152.40 | 67.33 | 4.36 | 33.01 | 4.52 | 0.00 | 0.00 | 102.69 | 211.91 |
| | T30TM008 | 50.84 | 4.24 | 24.96 | 3.41 | 0.00 | 0.00 | 69.77 | 153.22 | 67.78 | 4.39 | 33.01 | 4.52 | 0.00 | 0.00 | 103.36 | 213.06 |
| | T30TM012 | 86.81 | 7.25 | 43.68 | 5.97 | 0.00 | 0.00 | 119.14 | 262.85 | 115.74 | 7.50 | 57.77 | 7.91 | 0.00 | 0.00 | 176.51 | 365.43 |
| | T30TM013 | 142.34 | 11.89 | 59.57 | 8.14 | 0.00 | 0.00 | 195.36 | 417.30 | 189.78 | 12.29 | 78.78 | 10.78 | 0.00 | 0.00 | 289.42 | 581.05 |
| | T30TM014 | 136.29 | 11.38 | 59.57 | 8.14 | 0.00 | 0.00 | 187.06 | 402.44 | 181.72 | 11.77 | 78.78 | 10.78 | 0.00 | 0.00 | 277.13 | 560.18 |

Table 2-2 . HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAGE | OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERAT | ING CONE | DITIONS | | |
|-----|----------|--------|-------|---------|-------|--------------|----------------|--------|---------------|--------|-------|--------|--------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | T30TM015 | 145.31 | 12.13 | 59.57 | 8.14 | 0.00 | 0.00 | 199.43 | 424.58 | 193.74 | 12.55 | 78.78 | 10.78 | 0.00 | 0.00 | 295.46 | 591.31 |
| | T30VE007 | 19.98 | 1.67 | 14.18 | 1.94 | 0.00 | 0.00 | 27.42 | 65.19 | 26.64 | 1.73 | 18.76 | 2.57 | 0.00 | 0.00 | 40.63 | 90.33 |
| | T30VE008 | 25.39 | 2.12 | 20.99 | 2.87 | 0.00 | 0.00 | 34.84 | 86.21 | 33.85 | 2.19 | 27.76 | 3.80 | 0.00 | 0.00 | 51.62 | 119.22 |
| | T30VE009 | 41.14 | 3.44 | 28.37 | 3.88 | 0.00 | 0.00 | 56.46 | 133.29 | 54.85 | 3.55 | 37.52 | 5.13 | 0.00 | 0.00 | 83.65 | 184.70 |
| | T30VE010 | 49.84 | 4.16 | 31.20 | 4.26 | 0.00 | 0.00 | 68.40 | 157.86 | 66.45 | 4.30 | 41.27 | 5.65 | 0.00 | 0.00 | 101.33 | 219.00 |
| T35 | | | | | | | | | | | | | | | | | |
| | T35CT001 | 26.52 | 2.21 | 15.88 | 2.17 | 0.00 | 0.00 | 36.40 | 83.18 | 35.36 | 2.29 | 21.01 | 2.87 | 0.00 | 0.00 | 53.93 | 115.46 |
| | T35CT002 | 32.67 | 2.73 | 15.88 | 2.17 | 0.00 | 0.00 | 44.83 | 98.28 | 43.55 | 2.82 | 21.01 | 2.87 | 0.00 | 0.00 | 66.42 | 136.67 |
| | T35CT003 | 36.70 | 3.06 | 20.99 | 2.87 | 0.00 | 0.00 | 50.37 | 113.99 | 48.93 | 3.17 | 27.76 | 3.79 | 0.00 | 0.00 | 74.62 | 158.27 |
| | T35CT004 | 34.56 | 2.89 | 11.57 | 1.58 | 0.00 | 0.00 | 47.44 | 98.04 | 46.09 | 2.99 | 15.31 | 2.09 | 0.00 | 0.00 | 70.28 | 136.76 |
| | T35CT005 | 32.69 | 2.73 | 11.57 | 1.58 | 0.00 | 0.00 | 44.87 | 93.44 | 43.59 | 2.82 | 15.31 | 2.09 | 0.00 | 0.00 | 66.48 | 130.29 |
| | T35CT006 | 32.69 | 2.73 | 11.57 | 1.58 | 0.00 | 0.00 | 44.87 | 93.44 | 43.59 | 2.82 | 15.31 | 2.09 | 0.00 | 0.00 | 66.48 | 130.29 |
| | T35CT007 | 36.18 | 3.02 | 11.57 | 1.58 | 0.00 | 0.00 | 49.66 | 102.01 | 48.25 | 3.13 | 15.31 | 2.09 | 0.00 | 0.00 | 73.57 | 142.35 |
| | T35CT008 | 46.35 | 3.87 | 17.02 | 2.33 | 0.00 | 0.00 | 63.62 | 133.19 | 61.81 | 4.00 | 22.51 | 3.08 | 0.00 | 0.00 | 94.25 | 185.65 |
| | T35CT009 | 53.95 | 4.50 | 17.02 | 2.33 | 0.00 | 0.00 | 74.04 | 151.84 | 71.93 | 4.66 | 22.51 | 3.08 | 0.00 | 0.00 | 109.69 | 211.87 |
| | T35CT010 | 52.85 | 4.41 | 17.02 | 2.33 | 0.00 | 0.00 | 72.53 | 149.14 | 70.46 | 4.56 | 22.51 | 3.08 | 0.00 | 0.00 | 107.46 | 208.07 |
| | T35CT011 | 63.41 | 5.29 | 19.86 | 2.71 | 0.00 | 0.00 | 87.03 | 178.30 | 84.55 | 5.48 | 26.26 | 3.59 | 0.00 | 0.00 | 128.93 | 248.81 |
| T40 | | | | | | | | | | | | | | | | | |
| | T40AG001 | 8.97 | 0.78 | 9.08 | 1.42 | 0.48 | 0.08 | 9.83 | 30.64 | | | | | | | | |
| | T40AH001 | 2.95 | 0.25 | 0.00 | 0.25 | 0.00 | 0.00 | 3.67 | 7.12 | | | | | | | | |
| | T40AH003 | 4.37 | 0.36 | 0.00 | 0.25 | 0.00 | 0.00 | 5.43 | 10.41 | | | | | | | | |
| | T40AH004 | 5.40 | 0.45 | 0.00 | 0.25 | 0.00 | 0.00 | 6.72 | 12.82 | | | | | | | | |
| | T40GN001 | 1.93 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 3.92 | 2.37 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 5.13 |
| | T40KF011 | 0.48 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.97 | | | | | | | | |
| | T40KF013 | 0.52 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 1.04 | | | | | | | | |
| | T40KF014 | 0.56 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 1.13 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REC | GION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | ING CONE | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|---------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | T40KF016 | 0.68 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 1.37 | | | | | | | | |
| | T40KF018 | 0.80 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 1.62 | | | | | | | | |
| | T40KF020 | 0.97 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 1.95 | | | | | | | | |
| | T40KF021 | 0.48 | 0.04 | 0.00 | 0.10 | 0.00 | 0.00 | 0.52 | 1.14 | | | | | | | | |
| | T40KF022 | 0.86 | 0.07 | 0.00 | 0.10 | 0.00 | 0.00 | 0.93 | 1.96 | | | | | | | | |
| | T40KF023 | 0.35 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.38 | 0.81 | | | | | | | | |
| | T40KF024 | 0.50 | 0.04 | 0.00 | 0.05 | 0.00 | 0.00 | 0.55 | 1.14 | | | | | | | | |
| | T40MY002 | 0.64 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 1.30 | 0.79 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 1.71 |
| | T40MY003 | 0.80 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 1.63 | 0.98 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.08 | 2.12 |
| | T40MY004 | 0.92 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.89 | 1.87 | 1.13 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.25 | 2.45 |
| | T40MY005 | 1.30 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | 2.65 | 1.60 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.76 | 3.45 |
| | T40MY006 | 1.48 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.43 | 3.01 | 1.82 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 2.01 | 3.94 |
| | T40PA001 | 0.78 | 0.06 | 0.00 | 0.24 | 0.00 | 0.00 | 0.97 | 2.05 | | | | | | | | |
| | T40PA002 | 4.06 | 0.34 | 0.00 | 0.24 | 0.00 | 0.00 | 5.05 | 9.69 | | | | | | | | |
| | T40PA004 | 5.25 | 0.44 | 0.00 | 0.26 | 0.00 | 0.00 | 6.54 | 12.49 | | | | | | | | |
| | T40PA005 | 10.11 | 0.84 | 0.00 | 0.27 | 0.00 | 0.00 | 12.58 | 23.80 | | | | | | | | |
| | T40PA006 | 11.46 | 0.96 | 0.00 | 0.27 | 0.00 | 0.00 | 14.26 | 26.95 | | | | | | | | |
| | T40PA007 | 5.14 | 0.43 | 0.00 | 0.26 | 0.00 | 0.00 | 6.39 | 12.22 | | | | | | | | |
| | T40RS001 | 2.99 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 6.24 | | | | | | | | |
| | T40RS002 | 3.09 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 | 6.45 | | | | | | | | |
| | T40RS003 | 3.32 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 3.31 | 6.94 | | | | | | | | |
| | T40XX034 | 17.20 | 1.31 | 30.52 | 4.76 | 0.00 | 0.00 | 17.62 | 71.41 | | | | | | | | |
| | T40XX035 | 17.47 | 1.33 | 32.47 | 5.06 | 0.00 | 0.00 | 17.90 | 74.23 | | | | | | | | |
| | T40XX036 | 18.32 | 1.39 | 37.02 | 5.77 | 0.00 | 0.00 | 18.77 | 81.27 | | | | | | | | |
| | T40XX037 | 20.57 | 1.57 | 37.02 | 5.77 | 0.00 | 0.00 | 21.08 | 86.01 | | | | | | | | |
| | T40XX038 | 21.53 | 1.64 | 37.02 | 5.77 | 0.00 | 0.00 | 22.06 | 88.02 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | <u>IDITIONS</u> | | | | | SEVERE (| OPERAT | ING CON | DITIONS | | |
|-----|----------|-------|------|--------|---------|--------------|-----------------|--------|---------------|------|------|----------|--------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| 143 | | | | | | | | | | | | | | | | | |
| | T45EA006 | 3.64 | 0.38 | 0.00 | 0.50 | 1.93 | 0.33 | 2.57 | 9.35 | | | | | | | | |
| | T45EA007 | 4.78 | 0.51 | 0.00 | 0.50 | 2.90 | 0.50 | 3.39 | 12.58 | | | | | | | | |
| | T45G1001 | 8.44 | 0.95 | 8.51 | 0.99 | 0.00 | 0.00 | 9.80 | 28.69 | | | | | | | | |
| | T45G1002 | 4.24 | 0.48 | 8.51 | 0.99 | 0.00 | 0.00 | 4.93 | 19.15 | | | | | | | | |
| | T45MY004 | 2.43 | 0.26 | 0.00 | 0.30 | 1.56 | 0.27 | 2.41 | 7.23 | 3.03 | 0.27 | 0.00 | 0.30 | 5.70 | 0.98 | 3.44 | 13.72 |
| | T45MY005 | 3.17 | 0.35 | 0.00 | 0.30 | 2.34 | 0.40 | 3.16 | 9.72 | 3.96 | 0.36 | 0.00 | 0.30 | 8.55 | 1.47 | 4.52 | 19.16 |
| | T45MY006 | 3.28 | 0.36 | 0.00 | 0.30 | 2.34 | 0.40 | 3.27 | 9.95 | 4.10 | 0.37 | 0.00 | 0.30 | 8.55 | 1.47 | 4.67 | 19.46 |
| | T45MY007 | 3.15 | 0.35 | 0.00 | 0.30 | 2.34 | 0.40 | 3.15 | 9.69 | 3.94 | 0.36 | 0.00 | 0.30 | 8.55 | 1.47 | 4.49 | 19.11 |
| | T45MY015 | 2.63 | 0.28 | 0.00 | 0.40 | 1.56 | 0.27 | 2.43 | 7.57 | 3.29 | 0.29 | 0.00 | 0.40 | 5.70 | 0.98 | 3.50 | 14.16 |
| | T45MY016 | 2.70 | 0.29 | 0.00 | 0.40 | 1.56 | 0.27 | 2.49 | 7.71 | 3.37 | 0.29 | 0.00 | 0.40 | 5.70 | 0.98 | 3.58 | 14.32 |
| | T45MY017 | 2.74 | 0.32 | 0.00 | 0.40 | 2.34 | 0.40 | 2.55 | 8.75 | 3.42 | 0.33 | 0.00 | 0.40 | 8.55 | 1.47 | 3.68 | 17.85 |
| | T45MY018 | 1.94 | 0.19 | 0.00 | 0.40 | 1.56 | 0.27 | 1.68 | 6.04 | | | | | | | | |
| | T45MY019 | 1.92 | 0.19 | 0.00 | 0.40 | 1.56 | 0.27 | 1.66 | 6.00 | | | | | | | | |
| | T45XX001 | 3.40 | 0.33 | 0.00 | 0.40 | 1.11 | 0.19 | 3.34 | 8.77 | 4.26 | 0.34 | 0.00 | 0.40 | 4.04 | 0.70 | 4.77 | 14.51 |
| | T45XX003 | 4.20 | 0.40 | 0.00 | 0.40 | 1.11 | 0.19 | 4.11 | 10.41 | 5.26 | 0.41 | 0.00 | 0.40 | 4.04 | 0.70 | 5.88 | 16.69 |
| | T45XX008 | 2.73 | 0.27 | 0.00 | 0.40 | 1.11 | 0.19 | 2.50 | 7.20 | 3.41 | 0.28 | 0.00 | 0.40 | 4.04 | 0.70 | 3.60 | 12.43 |
| | T45XX009 | 3.05 | 0.25 | 0.00 | 0.40 | 1.11 | 0.19 | 2.58 | 7.58 | | | | | | | | |
| | T45XX010 | 3.43 | 0.28 | 0.00 | 0.40 | 1.11 | 0.19 | 2.90 | 8.31 | | | | | | | | |
| | T45XX011 | 2.80 | 0.27 | 0.00 | 0.40 | 0.98 | 0.17 | 1.97 | 6.59 | | | | | | | | |
| | T45XX012 | 3.01 | 0.29 | 0.00 | 0.40 | 0.98 | 0.17 | 2.11 | 6.96 | | | | | | | | |
| | T45XX013 | 3.12 | 0.30 | 0.00 | 0.40 | 1.11 | 0.19 | 2.19 | 7.31 | | | | | | | | |
| | T45XX013 | 3.75 | 0.37 | 0.00 | 0.50 | 1.47 | 0.15 | 2.64 | 8.98 | | | | | | | | |
| | T45XX014 | 15.78 | 1.39 | 0.00 | 0.50 | 1.47 | 0.25 | 10.95 | 30.34 | | | | | | | | |
| | T45XX015 | 8.44 | 0.78 | 0.00 | 0.50 | 1.66 | 0.29 | 5.88 | 17.55 | | | | | | | | |
| | T45XX010 | 12.14 | 1.10 | 0.00 | 0.50 | 1.93 | 0.29 | 8.44 | 24.44 | | | | | | | | |
| | T45XX017 | 13.35 | 1.10 | 0.00 | 0.50 | 1.93 | 0.33 | 9.28 | 26.59 | | | | | | | | |
| | T45XX018 | 5.34 | 0.52 | 0.00 | 0.50 | 1.93 | 0.33 | 3.75 | 12.37 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CON | DITIONS | | |
|-----|----------|------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. | | | | | | | | | | | | | | | | |
| | T45XX020 | 5.06 | 0.51 | 0.00 | 0.60 | 2.21 | 0.38 | 3.56 | 12.32 | | | | | | | | |
| | T45XX021 | 5.58 | 0.55 | 0.00 | 0.60 | 2.21 | 0.38 | 3.92 | 13.24 | | | | | | | | |
| | T45XX022 | 6.25 | 0.62 | 0.00 | 0.60 | 2.57 | 0.44 | 4.39 | 14.87 | | | | | | | | |
| | T45XX023 | 7.44 | 0.74 | 0.00 | 0.60 | 3.13 | 0.54 | 5.23 | 17.68 | | | | | | | | |
| | T45XX024 | 2.35 | 0.24 | 0.00 | 0.09 | 1.11 | 0.19 | 1.65 | 5.63 | | | | | | | | |
| | T45XX025 | 2.59 | 0.26 | 0.00 | 0.10 | 1.11 | 0.19 | 1.82 | 6.07 | | | | | | | | |
| | T45XX026 | 1.50 | 0.15 | 0.00 | 0.40 | 0.55 | 0.09 | 1.05 | 3.74 | | | | | | | | |
| | T45XX027 | 1.65 | 0.17 | 0.00 | 0.40 | 0.72 | 0.12 | 1.16 | 4.22 | | | | | | | | |
| | T45XX028 | 1.81 | 0.19 | 0.00 | 0.40 | 1.04 | 0.18 | 1.28 | 4.90 | | | | | | | | |
| | T45XX029 | 6.40 | 0.75 | 7.15 | 0.84 | 0.55 | 0.09 | 6.43 | 22.21 | | | | | | | | |
| | T45XX030 | 6.16 | 0.75 | 7.15 | 0.84 | 1.11 | 0.19 | 6.25 | 22.45 | | | | | | | | |
| | T45XX031 | 7.57 | 0.91 | 7.15 | 0.84 | 1.11 | 0.19 | 7.66 | 25.43 | | | | | | | | |
| | T45XX032 | 4.44 | 0.34 | 0.00 | 0.50 | 0.83 | 0.14 | 3.72 | 9.97 | | | | | | | | |
| | T45XX033 | 5.42 | 0.42 | 0.00 | 0.60 | 1.11 | 0.19 | 4.55 | 12.29 | | | | | | | | |
| | T45XX034 | 2.53 | 0.25 | 0.00 | 0.40 | 1.11 | 0.19 | 1.78 | 6.26 | | | | | | | | |
| | T45XX035 | 2.72 | 0.27 | 0.00 | 0.40 | 1.11 | 0.19 | 1.91 | 6.60 | | | | | | | | |
| T50 | | | | | | | | | | | | | | | | | |
| | T50GM001 | 1.74 | 0.16 | 6.33 | 0.86 | 0.27 | 0.05 | 1.96 | 11.37 | 2.14 | 0.16 | 8.14 | 1.11 | 0.90 | 0.16 | 2.58 | 15.19 |
| | T50GM004 | 4.02 | 0.35 | 15.04 | 2.05 | 0.27 | 0.05 | 4.49 | 26.27 | 4.94 | 0.35 | 19.34 | 2.64 | 0.90 | 0.16 | 5.91 | 34.24 |
| | T50GM005 | 4.33 | 0.37 | 15.04 | 2.05 | 0.29 | 0.05 | 4.83 | 26.96 | 5.33 | 0.38 | 19.34 | 2.64 | 1.01 | 0.17 | 6.37 | 35.24 |
| | T50XX001 | 1.66 | 0.15 | 6.86 | 0.94 | 0.34 | 0.06 | 1.88 | 11.89 | 2.05 | 0.15 | 8.82 | 1.21 | 1.12 | 0.19 | 2.48 | 16.02 |
| | T50XX002 | 2.05 | 0.18 | 6.86 | 0.94 | 0.25 | 0.04 | 2.30 | 12.62 | 2.52 | 0.18 | 8.82 | 1.21 | 0.83 | 0.14 | 3.03 | 16.73 |
| | T50XX003 | 2.33 | 0.20 | 9.50 | 1.30 | 0.29 | 0.05 | 2.61 | 16.28 | 2.87 | 0.21 | 12.21 | 1.67 | 0.94 | 0.16 | 3.44 | 21.50 |
| | T50XX004 | 2.02 | 0.18 | 6.86 | 0.94 | 0.36 | 0.06 | 2.28 | 12.70 | 2.49 | 0.19 | 8.82 | 1.21 | 1.25 | 0.22 | 3.00 | 17.18 |
| | T50XX005 | 2.44 | 0.21 | 6.86 | 0.94 | 0.26 | 0.04 | 2.73 | 13.48 | 3.00 | 0.22 | 8.82 | 1.21 | 0.92 | 0.16 | 3.59 | 17.92 |
| | T50XX006 | 2.50 | 0.22 | 9.50 | 1.30 | 0.30 | 0.05 | 2.81 | 16.68 | 3.08 | 0.22 | 12.21 | 1.67 | 1.04 | 0.18 | 3.70 | 22.10 |
| | T50XX007 | 1.76 | 0.16 | 6.86 | 0.94 | 0.34 | 0.06 | 1.99 | 12.11 | 2.17 | 0.16 | 8.82 | 1.21 | 1.12 | 0.19 | 2.62 | 16.29 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERATI | NG CONE | DITIONS | | |
|-----|----------|------|------|--------|---------|--------------|----------------|--------|---------------|-------|------|----------|---------|--------------|----------------|--------|---------------|
| 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. | 0.40 | 0.40 | 0.00 | 0.04 | 0.05 | 0.04 | 0.45 | 40.04 | 0.00 | 0.00 | 0.00 | 4.04 | 0.00 | 0.44 | 0.00 | 17.10 |
| | T50XX008 | 2.18 | 0.19 | 6.86 | 0.94 | 0.25 | 0.04 | 2.45 | 12.91 | 2.69 | 0.20 | 8.82 | 1.21 | 0.83 | 0.14 | 3.23 | 17.12 |
| | T50XX009 | 2.69 | 0.23 | 9.50 | 1.30 | 0.29 | 0.05 | 3.01 | 17.07 | 3.30 | 0.24 | 12.21 | 1.67 | 0.94 | 0.16 | 3.96 | 22.48 |
| | T50XX010 | 2.43 | 0.21 | 6.86 | 0.94 | 0.36 | 0.06 | 2.73 | 13.59 | 2.99 | 0.22 | 8.82 | 1.21 | 1.25 | 0.22 | 3.59 | 18.30 |
| | T50XX011 | 2.66 | 0.23 | 9.50 | 1.30 | 0.26 | 0.04 | 2.97 | 16.96 | 3.27 | 0.24 | 12.21 | 1.67 | 0.92 | 0.16 | 3.92 | 22.39 |
| | T50XX012 | 2.77 | 0.24 | 9.50 | 1.30 | 0.30 | 0.05 | 3.10 | 17.26 | 3.40 | 0.25 | 12.21 | 1.67 | 1.04 | 0.18 | 4.08 | 22.83 |
| | T50XX013 | 2.19 | 0.19 | 2.20 | 0.26 | 0.34 | 0.06 | 2.46 | 7.70 | 2.69 | 0.20 | 3.14 | 0.37 | 1.12 | 0.19 | 3.24 | 10.95 |
| | T50XX014 | 2.48 | 0.22 | 2.20 | 0.26 | 0.25 | 0.04 | 2.77 | 8.22 | 3.05 | 0.22 | 3.14 | 0.37 | 0.83 | 0.14 | 3.66 | 11.41 |
| | T50XX015 | 2.86 | 0.25 | 3.81 | 0.45 | 0.29 | 0.05 | 3.20 | 10.91 | 3.51 | 0.25 | 5.45 | 0.64 | 0.94 | 0.16 | 4.21 | 15.16 |
| | T50XX016 | 2.63 | 0.23 | 3.81 | 0.45 | 0.36 | 0.06 | 2.95 | 10.49 | 3.24 | 0.24 | 5.45 | 0.64 | 1.25 | 0.22 | 3.89 | 14.93 |
| | T50XX017 | 2.70 | 0.23 | 3.81 | 0.45 | 0.26 | 0.04 | 3.02 | 10.51 | 3.32 | 0.24 | 5.45 | 0.64 | 0.92 | 0.16 | 3.98 | 14.71 |
| | T50XX018 | 3.23 | 0.28 | 3.81 | 0.45 | 0.30 | 0.05 | 3.61 | 11.73 | 3.98 | 0.29 | 5.45 | 0.64 | 1.04 | 0.18 | 4.76 | 16.34 |
| | T50XX019 | 2.58 | 0.22 | 3.81 | 0.45 | 0.25 | 0.04 | 2.88 | 10.23 | 3.17 | 0.23 | 5.45 | 0.64 | 0.83 | 0.14 | 3.80 | 14.26 |
| | T50XX020 | 3.14 | 0.27 | 3.81 | 0.45 | 0.26 | 0.04 | 3.51 | 11.48 | 3.86 | 0.28 | 5.45 | 0.64 | 0.92 | 0.16 | 4.62 | 15.93 |
| | T50XX021 | 2.82 | 0.25 | 3.81 | 0.45 | 0.29 | 0.05 | 3.16 | 10.83 | 3.47 | 0.25 | 5.45 | 0.64 | 0.94 | 0.16 | 4.16 | 15.07 |
| | T50XX022 | 4.48 | 0.48 | 12.82 | 1.63 | 0.52 | 0.09 | 4.66 | 24.68 | 5.60 | 0.49 | 16.59 | 2.11 | 2.02 | 0.35 | 6.28 | 33.44 |
| | T50XX023 | 3.49 | 0.38 | 25.33 | 3.71 | 0.52 | 0.09 | 3.64 | 37.16 | 4.36 | 0.39 | 32.46 | 4.75 | 2.02 | 0.35 | 4.90 | 49.23 |
| | T50XX024 | 3.01 | 0.33 | 25.33 | 3.71 | 0.52 | 0.09 | 3.15 | 36.14 | 3.76 | 0.34 | 32.46 | 4.75 | 2.02 | 0.35 | 4.24 | 47.92 |
| | T50XX025 | 5.85 | 0.63 | 12.11 | 1.54 | 0.84 | 0.14 | 6.09 | 27.20 | 7.31 | 0.64 | 15.67 | 1.99 | 3.48 | 0.60 | 8.21 | 37.90 |
| | T50XX026 | 5.96 | 0.64 | 14.96 | 1.90 | 0.81 | 0.14 | 6.20 | 30.61 | 7.44 | 0.66 | 19.36 | 2.46 | 3.13 | 0.54 | 8.35 | 41.94 |
| | T50XX027 | 8.03 | 1.00 | 26.65 | 3.64 | 0.75 | 0.13 | 8.33 | 48.53 | 9.63 | 1.02 | 34.42 | 4.70 | 2.86 | 0.49 | 11.53 | 64.65 |
| | T50XX028 | 7.91 | 1.01 | 23.13 | 3.16 | 1.14 | 0.20 | 8.23 | 44.78 | 9.50 | 1.02 | 29.87 | 4.08 | 4.41 | 0.76 | 11.40 | 61.04 |
| | T50XX029 | 7.27 | 0.93 | 31.17 | 4.26 | 1.14 | 0.20 | 7.57 | 52.54 | 8.72 | 0.94 | 40.27 | 5.50 | 4.41 | 0.76 | 10.48 | 71.08 |
| | T50XX030 | 9.37 | 1.18 | 35.20 | 4.81 | 1.14 | 0.20 | 9.73 | 61.63 | 11.24 | 1.20 | 45.46 | 6.21 | 4.41 | 0.76 | 13.48 | 82.76 |
| | T50XX031 | 8.59 | 1.09 | 40.22 | 5.49 | 1.17 | 0.20 | 8.93 | 65.69 | 10.31 | 1.10 | 51.96 | 7.10 | 4.53 | 0.78 | 12.37 | 88.15 |
| | T50XX032 | 8.74 | 1.09 | 26.65 | 3.64 | 0.75 | 0.13 | 9.06 | 50.06 | 10.49 | 1.11 | 34.42 | 4.70 | 2.86 | 0.49 | 12.55 | 66.62 |
| | T50XX033 | 9.41 | 1.19 | 40.22 | 5.49 | 1.17 | 0.20 | 9.77 | 67.45 | 11.29 | 1.20 | 51.96 | 7.10 | 4.53 | 0.78 | 13.54 | 90.40 |
| | T50XX035 | 8.39 | 0.89 | 14.96 | 1.90 | 0.81 | 0.14 | 8.71 | 35.80 | 10.49 | 0.91 | 19.36 | 2.46 | 3.13 | 0.54 | 11.73 | 48.62 |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAGI | E OPERA | TING CON | IDITIONS | | | | | SEVERE | OPERAT | ING CONE | DITIONS | | |
|-----|----------|--------|-------|---------|---------|--------------|----------------|--------|---------------|--------|-------|--------|--------|--------------|----------------|--------|---------------|
| 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 | | | | | | | | | | | | | | | | | |
| | T55CA002 | 35.24 | 6.76 | 40.44 | 6.70 | 12.67 | 2.19 | 45.49 | 149.49 | 39.16 | 6.79 | 52.34 | 8.67 | 49.81 | 8.59 | 53.34 | 218.70 |
| | T55CA003 | 48.94 | 9.82 | 58.36 | 9.66 | 28.43 | 4.90 | 63.62 | 223.73 | 54.38 | 9.86 | 75.53 | 12.51 | 111.85 | 19.29 | 74.60 | 358.02 |
| | T55CA007 | 27.04 | 5.12 | 30.30 | 5.02 | 14.33 | 2.47 | 34.83 | 119.11 | 30.05 | 5.15 | 39.21 | 6.49 | 56.38 | 9.73 | 40.84 | 187.85 |
| | T55CA014 | 25.23 | 2.99 | 18.80 | 1.73 | 0.00 | 0.00 | 28.58 | 77.33 | 26.77 | 3.00 | 22.71 | 2.09 | 0.00 | 0.00 | 32.22 | 86.79 |
| | T55CA015 | 28.86 | 3.42 | 25.03 | 2.30 | 0.00 | 0.00 | 32.69 | 92.30 | 30.62 | 3.43 | 30.25 | 2.78 | 0.00 | 0.00 | 36.86 | 103.94 |
| | T55CA016 | 34.89 | 4.13 | 22.84 | 2.10 | 0.00 | 0.00 | 39.53 | 103.49 | 37.03 | 4.15 | 27.60 | 2.54 | 0.00 | 0.00 | 44.57 | 115.89 |
| | T55CA017 | 39.29 | 4.65 | 31.18 | 2.87 | 0.00 | 0.00 | 44.51 | 122.50 | 41.69 | 4.67 | 37.68 | 3.47 | 0.00 | 0.00 | 50.18 | 137.69 |
| | T55CA018 | 40.35 | 4.78 | 35.58 | 3.27 | 0.00 | 0.00 | 45.72 | 129.70 | 42.82 | 4.80 | 42.99 | 3.96 | 0.00 | 0.00 | 51.54 | 146.11 |
| | T55JD001 | 23.73 | 2.98 | 23.28 | 2.14 | 7.52 | 1.30 | 27.13 | 88.08 | 25.19 | 2.99 | 28.13 | 2.59 | 29.57 | 5.10 | 30.59 | 124.16 |
| | T55JD002 | 26.49 | 3.31 | 25.03 | 2.30 | 7.52 | 1.30 | 30.26 | 96.21 | 28.12 | 3.32 | 30.25 | 2.78 | 29.57 | 5.10 | 34.11 | 133.25 |
| | T55JD003 | 33.30 | 4.41 | 33.38 | 3.07 | 20.57 | 3.55 | 38.40 | 136.68 | 35.34 | 4.43 | 40.33 | 3.71 | 80.89 | 13.95 | 43.29 | 221.94 |
| | T55JD004 | 37.45 | 4.78 | 36.28 | 3.34 | 15.45 | 2.67 | 42.93 | 142.90 | 39.74 | 4.80 | 43.84 | 4.03 | 60.79 | 10.49 | 48.40 | 212.09 |
| | T55KM009 | 19.48 | 3.78 | 30.36 | 5.03 | 14.33 | 2.47 | 25.18 | 100.63 | 21.64 | 3.80 | 39.29 | 6.51 | 56.38 | 9.73 | 29.53 | 166.88 |
| | T55KM012 | 37.52 | 7.79 | 64.83 | 10.74 | 28.43 | 4.90 | 49.06 | 203.27 | 41.69 | 7.83 | 83.90 | 13.89 | 111.85 | 19.29 | 57.53 | 335.98 |
| | T55KM013 | 96.46 | 18.05 | 92.46 | 15.31 | 23.20 | 4.00 | 124.00 | 373.48 | 107.17 | 18.14 | 119.65 | 19.81 | 91.23 | 15.74 | 145.40 | 517.14 |
| | T55KM014 | 113.13 | 21.34 | 124.44 | 20.61 | 31.52 | 5.44 | 145.62 | 462.10 | 125.70 | 21.45 | 161.04 | 26.67 | 123.97 | 21.38 | 170.75 | 650.96 |
| | T55KM015 | 21.96 | 3.06 | 34.17 | 3.14 | 20.57 | 3.55 | 25.55 | 112.00 | 23.30 | 3.08 | 41.29 | 3.80 | 80.89 | 13.95 | 28.80 | 195.11 |
| | T55KM016 | 29.81 | 3.88 | 37.77 | 3.47 | 15.45 | 2.67 | 34.28 | 127.33 | 31.64 | 3.90 | 45.64 | 4.20 | 60.79 | 10.49 | 38.64 | 195.30 |
| | T55VO002 | 23.61 | 3.03 | 26.26 | 2.42 | 10.76 | 1.86 | 27.09 | 95.03 | 25.05 | 3.05 | 31.74 | 2.92 | 42.70 | 7.37 | 30.54 | 143.37 |
| | T55VO003 | 25.61 | 3.20 | 26.26 | 2.42 | 7.52 | 1.30 | 29.25 | 95.56 | 27.17 | 3.22 | 31.74 | 2.92 | 29.57 | 5.10 | 32.98 | 132.70 |
| | T55VO004 | 36.77 | 4.64 | 36.37 | 3.35 | 12.74 | 2.20 | 42.07 | 138.14 | 39.02 | 4.66 | 43.94 | 4.04 | 50.10 | 8.64 | 47.43 | 197.83 |
| | T55VO005 | 30.50 | 3.75 | 29.51 | 2.71 | 5.48 | 0.95 | 34.76 | 107.66 | 32.37 | 3.77 | 35.66 | 3.28 | 21.55 | 3.72 | 39.19 | 139.54 |
| | T55VO006 | 38.87 | 5.15 | 40.76 | 3.75 | 24.33 | 4.20 | 44.83 | 161.89 | 41.25 | 5.18 | 49.25 | 4.53 | 95.68 | 16.50 | 50.54 | 262.93 |
| T56 | | | | | | | | | | | | | | | | | |
| | T56CA006 | 55.10 | 10.91 | 65.23 | 10.80 | 31.22 | 5.39 | 71.48 | 250.13 | 61.22 | 10.96 | 106.43 | 16.60 | 121.90 | 21.03 | 83.81 | 421.95 |

Table 2-2. HOURLY RATE ELEMENTS

| T570 T570 T570 T570 T570 T570 T570 T670 | D. NO. 37CU001 37CU002 37CU003 37CU004 37CU005 | 10.05 12.35 10.58 11.74 13.90 | 1.03 1.27 1.09 1.21 1.43 | 8.62 8.62 34.04 39.71 48.22 | 1.18 1.18 4.65 5.43 6.59 | 0.44 0.44 0.44 0.44 | 0.08 0.08 0.08 | 12.51 15.37 | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
|--|---|---|--------------------------------------|---|--------------------------------------|------------------------------|----------------------|----------------|---------------|-------|------|-------|-------|--------------|----------------|--------|---------------|
| T570 T570 T570 T570 T570 | 7CU002 7CU003 7CU004 7CU005 | 12.35 10.58 11.74 | 1.27 1.09 1.21 | 8.62 34.04 39.71 | 1.18 4.65 5.43 | 0.44 0.44 | 0.08 | | | | | | | | | | |
| T570 T570 T570 T570 T570 | 7CU002 7CU003 7CU004 7CU005 | 12.35 10.58 11.74 | 1.27 1.09 1.21 | 8.62 34.04 39.71 | 1.18 4.65 5.43 | 0.44 0.44 | 0.08 | | | | | | | | | | |
| T570 7570 7570 7570 | 7CU002 7CU003 7CU004 7CU005 | 12.35 10.58 11.74 | 1.27 1.09 1.21 | 8.62 34.04 39.71 | 1.18 4.65 5.43 | 0.44 0.44 | 0.08 | | | | | | | | | | |
| T570 T570 T570 | 57CU003 57CU004 57CU005 | 10.58 11.74 | 1.09 1.21 | 34.04 39.71 | 4.65 5.43 | 0.44 | | 15.37 | | | | | | | | | |
| T570 T570 | 57CU004 57CU005 | 11.74 | 1.21 | 39.71 | 5.43 | | 0.08 | | 39.31 | | | | | | | | |
| T60 | 7CU005 | | | | | 0.44 | | 13.18 | 64.06 | | | | | | | | |
| T60 | | 13.90 | 1.43 | 48.22 | 6.59 | | 0.08 | 14.62 | 73.23 | | | | | | | | |
| | 0KI001 | | | | 5.00 | 0.44 | 0.08 | 17.31 | 87.97 | | | | | | | | |
| T60I | 0KI001 | | | | | | | | | | | | | | | | |
| | | 30.27 | 3.78 | 37.44 | 5.84 | 3.93 | 0.68 | 32.10 | 114.04 | 36.32 | 3.83 | 49.52 | 7.72 | 15.03 | 2.59 | 44.00 | 159.01 |
| T60I | 0KI002 | 19.72 | 2.74 | 37.44 | 5.84 | 13.20 | 2.28 | 21.40 | 102.62 | 23.67 | 2.78 | 49.52 | 7.72 | 50.95 | 8.79 | 29.33 | 172.76 |
| T60I | 0KI003 | 27.52 | 3.84 | 52.42 | 8.17 | 19.11 | 3.30 | 29.89 | 144.25 | 33.02 | 3.89 | 69.33 | 10.81 | 73.75 | 12.72 | 40.98 | 244.50 |
| T60I | 0KI004 | 40.86 | 5.45 | 52.42 | 8.17 | 19.11 | 3.30 | 43.95 | 173.26 | 49.03 | 5.53 | 69.33 | 10.81 | 73.75 | 12.72 | 60.24 | 281.41 |
| T60I | 0KI006 | 62.01 | 8.01 | 63.99 | 9.98 | 19.20 | 3.31 | 66.24 | 232.74 | 74.41 | 8.13 | 84.63 | 13.20 | 74.07 | 12.78 | 90.80 | 358.02 |
| T609 | 0SO001 | 31.19 | 4.13 | 37.44 | 5.84 | 13.20 | 2.28 | 33.48 | 127.56 | 37.42 | 4.18 | 49.52 | 7.72 | 50.95 | 8.79 | 45.89 | 204.47 |
| T609 | 0SO002 | 44.19 | 5.75 | 51.06 | 7.96 | 15.22 | 2.63 | 47.28 | 174.09 | 53.03 | 5.83 | 67.53 | 10.53 | 58.74 | 10.13 | 64.81 | 270.60 |
| T609 | 0SO003 | 44.95 | 5.84 | 51.06 | 7.96 | 15.22 | 2.63 | 48.07 | 175.73 | 53.94 | 5.93 | 67.53 | 10.53 | 58.74 | 10.13 | 65.90 | 272.70 |
| T605 | 0SO004 | 55.12 | 7.26 | 62.40 | 9.73 | 22.31 | 3.85 | 59.12 | 219.79 | 66.14 | 7.37 | 82.53 | 12.87 | 86.10 | 14.85 | 81.05 | 350.91 |
| T605 | 0SO005 | 56.13 | 7.39 | 62.40 | 9.73 | 22.31 | 3.85 | 60.19 | 222.00 | 67.36 | 7.49 | 82.53 | 12.87 | 86.10 | 14.85 | 82.51 | 353.71 |
| T65 | | | | | | | | | | | | | | | | | |
| T65\ | 5WG012 | 108.39 | 13.85 | 20.11 | 10.64 | 3.15 | 0.54 | 139.91 | 296.59 | | | | | | | | |
| T65\ | 5WG013 | 163.41 | 20.83 | 20.11 | 10.64 | 3.15 | 0.54 | 210.85 | 429.53 | | | | | | | | |
| T65\ | 5WG014 | 178.49 | 22.74 | 45.05 | 25.13 | 3.15 | 0.54 | 230.30 | 505.40 | | | | | | | | |
| W25 | | | | | | | | | | | | | | | | | |
| W/25 | 25AO002 | 0.92 | 0.04 | 0.13 | 0.81 | 0.00 | 0.00 | 1.57 | 3.47 | | | | | | | | |
| | 25AO002 25AO003 | 1.33 | 0.04 | 0.13 | 0.81 | 0.00 | 0.00 | 2.28 | 4.61 | | | | | | | | |
| | 25AO003 25AO004 | 1.31 | 0.06 | 0.15 | 1.12 | 0.00 | 0.00 | 2.24 | 4.98 | | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | SION 1 | | | AVERAG | E OPERA | TING CON | IDITIONS | | | | | SEVERE (| OPERAT | ING CON | <u>DITIONS</u> | |
|-----|----------|-------|------|--------|---------|--------------|----------------|--------|---------------|------|------|----------|--------|--------------|-----------------------|---------------|
| 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 | | | | | | | | | | | | | | | | |
| | W25AO005 | 2.65 | 0.12 | 0.50 | 1.74 | 0.00 | 0.00 | 4.54 | 9.55 | | | | | | | |
| | W25AO006 | 2.05 | 0.09 | 0.13 | 0.81 | 0.00 | 0.00 | 3.51 | 6.59 | | | | | | | |
| | W25CJ001 | 10.82 | 0.70 | 1.85 | 1.13 | 0.00 | 0.00 | 16.83 | 31.33 | | | | | | | |
| | W25CJ002 | 16.79 | 1.09 | 2.22 | 1.35 | 0.00 | 0.00 | 26.11 | 47.56 | | | | | | | |
| | W25CJ003 | 26.55 | 1.72 | 2.22 | 1.35 | 0.00 | 0.00 | 41.28 | 73.12 | | | | | | | |
| | W25KZ001 | 1.48 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 2.81 | | | | | | | |
| | W25KZ002 | 1.63 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 1.25 | 3.11 | | | | | | | |
| | W25KZ003 | 1.67 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 3.18 | | | | | | | |
| | W25KZ004 | 2.38 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 1.82 | 4.53 | | | | | | | |
| | W25KZ005 | 2.81 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 2.15 | 5.35 | | | | | | | |
| | W25KZ006 | 2.86 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 5.45 | | | | | | | |
| | W25KZ007 | 3.05 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.34 | 5.81 | | | | | | | |
| | W25NL001 | 15.73 | 0.72 | 25.08 | 12.23 | 0.00 | 0.00 | 29.36 | 83.12 | | | | | | | |
| | W25NL002 | 26.48 | 1.22 | 55.17 | 7.54 | 0.00 | 0.00 | 49.42 | 139.83 | | | | | | | |
| | W25NL003 | 16.97 | 0.78 | 24.71 | 3.38 | 0.00 | 0.00 | 31.66 | 77.50 | | | | | | | |
| | W25NL004 | 33.96 | 1.60 | 5.60 | 0.77 | 0.69 | 0.12 | 63.68 | 106.42 | | | | | | | |
| | W25NL005 | 64.94 | 2.99 | 115.29 | 15.75 | 0.00 | 0.00 | 121.20 | 320.17 | | | | | | | |
| | W25SD001 | 1.14 | 0.05 | 0.63 | 0.31 | 0.00 | 0.00 | 1.96 | 4.09 | | | | | | | |
| | W25SD002 | 2.95 | 0.14 | 0.38 | 0.19 | 0.00 | 0.00 | 5.05 | 8.71 | | | | | | | |
| | W25SD003 | 1.77 | 0.08 | 5.84 | 0.68 | 0.00 | 0.00 | 3.04 | 11.41 | | | | | | | |
| | W25SD004 | 2.53 | 0.12 | 2.59 | 0.30 | 0.04 | 0.01 | 4.35 | 9.94 | | | | | | | |
| | W25SD005 | 1.34 | 0.06 | 3.89 | 0.45 | 0.00 | 0.00 | 2.29 | 8.03 | | | | | | | |
| | W25SD006 | 1.22 | 0.06 | 0.13 | 4.06 | 0.00 | 0.00 | 2.09 | 7.56 | | | | | | | |
| | W25SD007 | 1.30 | 0.06 | 0.13 | 5.06 | 0.00 | 0.00 | 2.22 | 8.77 | | | | | | | |
| | W25SD008 | 1.41 | 0.07 | 0.13 | 6.06 | 0.00 | 0.00 | 2.42 | 10.09 | | | | | | | |
| | W25SD009 | 3.13 | 0.14 | 1.38 | 6.67 | 0.00 | 0.00 | 5.36 | 16.68 | | | | | | | |
| | W25XX005 | 0.43 | 0.02 | 1.62 | 0.19 | 0.00 | 0.00 | 0.73 | 2.99 | | | | | | | |

Table 2-2. HOURLY RATE ELEMENTS

| REG | ION 1 | | | AVERAGI | E OPERA | TING CON | NDITIONS | | | | | SEVERE C | PERAT | ING CON | DITIONS | |
|-----|--------------------------|------|------|---------|---------|--------------|----------------|--------|---------------|------|------|----------|-------|--------------|-----------------------|---------------|
| 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 |
| MOE | 2011 | | | | | | | | | | | | | | | |
| W25 | cont. W25XX006 | 0.60 | 0.03 | 1.62 | 0.19 | 0.00 | 0.00 | 1.02 | 3.46 | | | | | | | |
| | W25XX007 | 0.80 | 0.04 | 2.59 | 0.30 | 0.00 | 0.00 | 1.37 | 5.10 | | | | | | | |
| | W25XX008 | 0.84 | 0.04 | 3.57 | 0.42 | 0.00 | 0.00 | 1.43 | 6.30 | | | | | | | |
| | W25XX009 | 1.68 | 0.08 | 2.59 | 0.30 | 0.00 | 0.00 | 2.87 | 7.52 | | | | | | | |
| | W25XX010 | 2.57 | 0.12 | 7.78 | 0.91 | 0.00 | 0.00 | 4.39 | 15.77 | | | | | | | |
| W30 | | | | | | | | | | | | | | | | |
| | W30SO001 | 3.65 | 0.46 | 1.78 | 0.22 | 0.49 | 0.08 | 3.33 | 10.01 | | | | | | | |
| | W30SO001 | 4.39 | 0.55 | 1.78 | 0.22 | 0.49 | 0.08 | 4.00 | 11.51 | | | | | | | |
| | W30SO003 | 4.80 | 0.60 | 1.78 | 0.22 | 0.49 | 0.08 | 4.36 | 12.33 | | | | | | | |
| | W30SO004 | 2.45 | 0.30 | 0.00 | 0.01 | 0.00 | 0.00 | 1.84 | 4.60 | | | | | | | |
| | W30SO005 | 2.74 | 0.33 | 0.00 | 0.01 | 0.00 | 0.00 | 2.06 | 5.14 | | | | | | | |
| | W30SO006 | 3.16 | 0.38 | 0.00 | 0.01 | 0.00 | 0.00 | 2.38 | 5.93 | | | | | | | |
| W35 | | | | | | | | | | | | | | | | |
| | W35LC012 | 0.62 | 0.04 | 1.39 | 0.68 | 0.00 | 0.00 | 0.48 | 3.21 | | | | | | | |
| | W35LC013 | 0.67 | 0.04 | 1.62 | 0.79 | 0.00 | 0.00 | 0.52 | 3.64 | | | | | | | |
| | W35LC018 | 0.11 | 0.01 | 0.20 | 0.10 | 0.00 | 0.00 | 0.08 | 0.50 | | | | | | | |
| | W35LC021 | 0.39 | 0.03 | 0.79 | 0.39 | 0.00 | 0.00 | 0.30 | 1.90 | | | | | | | |
| | W35XX020 | 0.25 | 0.02 | 2.99 | 0.35 | 0.00 | 0.00 | 0.31 | 3.92 | | | | | | | |
| | W35XX021 | 0.63 | 0.06 | 4.61 | 0.54 | 0.03 | 0.01 | 0.80 | 6.68 | | | | | | | |
| | W35XX022 | 0.65 | 0.06 | 4.89 | 0.57 | 0.03 | 0.01 | 0.82 | 7.03 | | | | | | | |
| | W35XX023 | 1.15 | 0.11 | 12.21 | 1.43 | 0.03 | 0.01 | 1.43 | 16.37 | | | | | | | |
| | W35XX024 | 1.71 | 0.16 | 6.68 | 0.78 | 0.03 | 0.01 | 2.13 | 11.50 | | | | | | | |
| | W35XX025 | 1.63 | 0.15 | 5.84 | 0.68 | 0.03 | 0.01 | 2.04 | 10.38 | | | | | | | |

CHAPTER 3

Adjustments to Hourly Rates

SECTION I. GENERAL

- 3.1 <u>Contents</u>. This chapter explains the procedures for adjusting the hourly rates shown in tables 2-1 and 2-2.
- 3.2 <u>Basis for Equipment Rates</u>. The rates shown in tables 2-1 and 2-2 are based on the catalog list price of equipment manufactured in 2011 (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 and 2-2.
- 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); repairs (REPAIR); tire wear (TIRE WEAR); and tire repair (TIRE REPAIR). These elements are located in table 2-2.
- 3.3 <u>Equipment Rate Adjustment Tables</u>. 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 <u>Rate Adjustments</u>. 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 exist (rate adjustments are explained in detail in the following paragraphs).

- a. Changes in operating conditions.
- b. Changes in Cost of Money Rate.
- c. Actual work hours (hrs) exceed 40 hr per week (wk).
- d. Changes in FUEL cost.
- 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. Also, there are no rate adjustments for repairs, tire wear, or tire repair.

- 3.6 <u>Changes in Operating Conditions</u>. 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 (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 http://www.treasurydirect.gov/govt/rates/tcir/tcir_opdprmt2.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:

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

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

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

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

<u>Example</u>: 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:

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

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

3.9 Changes in Fuel Cost. Hourly fuel costs (including electricity) shall be adjusted in the event 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:

<u>Example</u>: 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 \$3.50/gal and the current fuel cost has increased to \$4.20/gal (increase of 20.00 percent). The total hourly rate for this piece of equipment can be determined as follows:

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

Assumptions for Fuel Cost (based on \$3.50/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 \$3.00/gal:

$$(\$30.00/hr + \$10.00/hr) + \$30.00/hr + [\frac{(\$4.20/gal)}{(\$3.50/gal)} \times \$10.00/hr] = \$82.00/hr$$

- 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 fuel costs change 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 2011) 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).

<u>Example</u>: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) manufactured in 2011 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 2007, the total hourly rate is determined as follows:

Table 2-1 Rate and Adjustment Calculation:

Total hourly rate = \$65.00/hr Ownership rate 2011 (DEPR + FCCM) = -(\$30.00)/hr Ownership rate 2007 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 2007.) = +\$27.90/hr Total hourly rate for equipment manufactured in 2007 = \$62.90/hr

- b. When the unit of equipment is older than the age of equipment listed in table 2-1 (purchased new in 2011) 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 2011), 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 <u>Rate Adjustment for Overage Equipment</u>. 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 2011). 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.

<u>Example</u>: Assume that table 2-1 includes a crane (category C80, subcategory 0.02) manufactured in 2011, 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 1997 (maximum life 2003), 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 2011 (DEPR + FCCM) = -(\$30.00)/hr Ownership rate 1997 adjusted for age (Ownership rate = \$30.00) x (0.79) use the oldest age adjustment factor from table 3-1, for category C80, subcategory 0.02, the last year shown.) = +\$23.70/hr Total hourly rate for equipment manufactured in 1997 = \$58.70/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 2011), 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.

Hourly Standby Rate Adjusted for Actual Age = Hourly Standby Rate x Age Adjustment Factor

<u>Example</u>: Assume that table 2-1 includes a crane (*category C80*, *subcategory 0.02*) manufactured in 2011 and has a standby rate of \$20.00 per hour. If an equivalent crane owned by a contractor was manufactured in 2003, the hourly standby rate is determined as follows:

Hourly Standby Rate (table 2-1) = \$20.00/hr Age Adjustment Factor (table 3-2) = 0.79 for category C80, subcategory 0.02, and for 2003 (actual year of manufacture)

Adjustment Calculation:

Hourly Standby Rate Adjusted for Actual Age (Hourly Standby Rate) x 0.79 (Age Adjustment Factor)

=\$20.00/hr =\$15.80/hr

- b. When the unit of equipment is newer than the equipment listed in table 2-1 (purchased new in 2011), 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 <u>Equipment Purchased Used</u>. 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 <u>Rate Calculation Examples</u>. 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 2011).

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

| | | REGION 1 | Life | in Yea | rs | | | | ` | Year | Purc | hase | d Ne | <u>N</u> | | | | | | \Box |
|------|------|--|------|--------|------|------|------|------|------|-------------|------|------|------|----------|------|------|------|------|------|--------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| A10 | 0.00 | AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | | | | | | | |
| A10 | 0.10 | SELF-PROPELLED | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| A10 | 0.20 | TOWED & TAILGATE | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | | | | | | | | | | | | | |
| A15 | 0.00 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | | | | | | | | |
| A15 | 0.10 | ROTARY SCREW | 1.11 | 1.09 | 1.04 | 1.00 | 0.91 | 0.91 | 0.85 | 0.79 | | | | | | | | | | |
| A15 | 0.20 | SHOP TYPE | 1.11 | 1.09 | 1.04 | 1.00 | 0.92 | 0.91 | 0.86 | 0.80 | 0.76 | | | | | | | | | |
| A20 | 0.00 | AIR HOSE, TOOLS & EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A20 | 0.10 | AIR DRILL HOSE | 1.09 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| A20 | 0.20 | SANDBLAST HOSE | 1.09 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| A20 | 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 1.10 | 1.08 | 1.04 | 1.00 | 0.92 | | | | | | | | | | | | | |
| A25 | 0.00 | ASPHALT PAVING DISTRIBUTORS | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | | | | | | | | | | | | | |
| A30 | 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A30 | 0.10 | SELF PROPELLED | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| A30 | 0.20 | TOWED | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | | | | | | | | | | |
| A30 | 0.30 | SLURRY SEAL PAVERS (Cold mix) | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | | | | | | | | | |
| A30 | 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | | | | | | | | | | |
| A35 | 0.00 | ASPHALT PAVING KETTLES | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | | | | | | | | | | | | | |
| A40 | 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | | | | | | | | | | | | | |
| A45 | 0.00 | ASPHALT RECYCLERS & SEALERS | 1.08 | 1.06 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| B10 | 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | | | | | | | |
| B10 | 0.10 | ASPHALT | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| B10 | 0.20 | CONCRETE | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | 10.010 0 1 = 90.1611 | | .90 | j. | | | | | | | | | | • | | | | | |
|------|--|---|----------------------------|------|--|------|------|--------------------------|------|------|-------------|------|----------|---|---|--|---|--|--|
| | REGION 1 | Life | in Yea | rs | | | | <u> </u> | Year | Purc | <u>hase</u> | d Ne | <u>W</u> | | | | | | |
| GORY | KEGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| 0.30 | PUGMILL | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | | | | | | | | | | |
| 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| 0.00 | BRUSH CHIPPERS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| 0.00 | BUCKETS, CLAMSHELL | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| 0.00 | BUCKETS, CONCRETE | | | | | | | | | | | | | | | | | | |
| 0.10 | GENERAL PURPOSE, MANUAL TRIP | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| 0.20 | LAYDOWN | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| 0.30 | LOWBOY | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| 0.40 | LOW SLUMP | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| 0.00 | BUCKETS, DRAGLINE | | | | | | | | | | | | | | | | | | |
| 0.10 | LIGHT WEIGHT | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |
| 0.20 | MEDIUM WEIGHT | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | | | | | | | | | | | |
| 0.30 | HEAVY WEIGHT | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | | | | | | | | | | |
| 0.00 | CHAIN SAWS | 1.09 | 1.08 | | 1.00 | | | | | | | | | | | | | | |
| 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | | | | | | |
| 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 1.09 | 1.07 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| 0.20 | ROLLERS, VIBRATORY | 1.10 | 1.08 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | | | | | | | |
| 0.10 | WALK BEHIND | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| 0.20 | TRUCK/TRAILER MOUNTED | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| 0.00 | CONCRETE BUGGIES | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | | | | | | | | |
| | 0.30 0.00 0.00 0.00 0.10 0.20 0.30 0.40 0.20 0.30 0.00 0.10 0.20 0.00 0.10 0.20 0.00 | REGION 1 TYPE OF EQUIPMENT O.30 PUGMILL O.00 BROOMS, STREET SWEEPERS & FLUSHERS O.00 BRUSH CHIPPERS O.00 BUCKETS, CLAMSHELL O.00 BUCKETS, CONCRETE O.10 GENERAL PURPOSE, MANUAL TRIP O.20 LAYDOWN O.30 LOWBOY O.40 LOW SLUMP O.00 BUCKETS, DRAGLINE O.10 LIGHT WEIGHT O.20 MEDIUM WEIGHT O.30 HEAVY WEIGHT O.00 COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER O.10 COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES O.20 ROLLERS, VIBRATORY O.00 CONCRETE CLEANERS / ABRASIVE BLASTERS O.10 WALK BEHIND O.20 TRUCK/TRAILER MOUNTED O.00 CONCRETE BUGGIES | REGION 1 Life 0 2014 | Name | REGION 1 SUB REGIO | Name | Name | REGION 1 2 3 4 5 | Name | Name | Name | Name | Name | REGION 1 SUB REGION 1 TYPE OF EQUIPMENT 10 | SUBSTRINGENT 10 10 10 10 10 10 10 1 | REGION 1 SUB REGIO | REGION 1 SUB REGION 1 TYPE OF EQUIPMENT 1.08 1.05 1.03 1.05 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 | REGION 1 PURAMIL PURAM | REGION 1 TYPE OF EQUIPMENT 10 1 2 30 3 4 5 6 7 8 9 10 11 12 13 14 15 16 10 10 2013 2012 2011 2010 2009 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2008 |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life | in Yea | rs | | | | | Year | Purcl | hase | d Nev | N | | | | | | |
|------|------|---|------|--------|------|------|------|------|------|-------------|-------|------|-------|------|------|------|------|------|------|------|
| CATE | GORY | REGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| C25 | 0.10 | FINISHERS/TROWELS | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| C25 | 0.20 | VIBRATORY SCREED | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| C25 | 0.25 | VIBRATORY LASER SCREED | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.95 | | | | | | | | | | | | |
| C25 | 0.30 | MATERIAL/TOPPING SPREADERS | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.95 | | | | | | | | | | | | |
| C30 | 0.00 | CONCRETE GRINDERS | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| C35 | 0.00 | CONCRETE GUNITERS / SHOTCRETERS | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| C40 | 0.00 | CONCRETE MIXING UNITS | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| C45 | 0.00 | CONCRETE PAVING MACHINES | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | | | | | | | | | | | | | |
| C55 | 0.00 | CONCRETE PUMPS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| C60 | 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | | | | | | | | | | | | | |
| C65 | 0.00 | CONCRETE VIBRATORS | 1.10 | 1.08 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| C70 | 0.00 | CRANES, GANTRY & STRADDLE | | | | | | | | | | | | | | | | | | |
| C75 | 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | | | | | | | |
| C80 | 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C80 | 0.01 | UNDER 26 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | | | | | | | |
| C80 | 0.02 | 26 TON THRU 65 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | | | | | | |
| C80 | 0.03 | 66 TON THRU 125 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | | | | |
| C80 | 0.04 | OVER 125 TON | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | 0.72 | | | |
| C85 | 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| C85 | 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | | | | | | | |
| C85 | 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.77 | | | | | | |
| C85 | 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | PECION 4 | | n Yea | | | | | | | Purcl | | | | | | | | | |
|--------|------|---|------|-------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| CATEGO | ORY | REGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| S | UB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| C85 0 | 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | 0.71 | | | |
| C85 C | 0.21 | LIFTING, 0 THRU 25 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.77 | | | | | | |
| C85 C | 0.22 | LIFTING, 26 TON THRU 50 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | | | | ı |
| C85 C | 0.23 | LIFTING, 51 TON THRU 150 TON | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | 0.72 | | | ı |
| C85 C | 0.24 | LIFTING, OVER 150 TON | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.87 | 0.81 | 0.79 | 0.76 | 0.71 | 0.72 | 0.72 | 0.71 | |
| C90 C | 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C90 C | 0.01 | UNDER 26 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | | | | | | | |
| C90 C | 0.02 | 26 TON THRU 65 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | | | | | | |
| C90 C | 0.03 | 66 TON THRU 125 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | | | | |
| C90 C | 0.04 | OVER 125 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | 0.71 | | | |
| C95 C | 0.00 | CRANES, TOWER | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | | | | |
| D10 0 | 0.00 | DRILLS, AIR/HYDRAULIC, CRWLR MTD, 0" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | | | | | | | |
| D10 0 | 0.10 | DRILLS, AIR TRACK (Add cost for drill steel and bit wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | 0.77 | 0.70 | 0.63 | | | | | | | |
| D10 C | 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | | | | | | | | | | |
| D15 C | 0.00 | DRILLS, HORIZONTAL | | | | | | | | | | | | | | | | | | |
| D15 C | 0.10 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | | | | | | | | | | |
| D15 C | 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | | | | | | | | | | |
| D20 C | 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | | | | | | | | | | | | |
| D25 0 | 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | | | | | | | | | | |
| D30 0 | 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 1.08 | 1.06 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | | | | | | | | | | |
| D35 C | 0.00 | DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear) | | | | | | | | | | | | | | | | | | |
| D35 0 | 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.85 | 0.78 | 0.71 | 0.65 | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life | in Yea | rs | | | | | Year | Purcl | hase | d Ne | <u>w</u> | | | | | | |
|------|------|--|------|--------|------|------|------|------|------|-------------|-------|------|------|----------|------|------|------|------|------|------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| D35 | 0.12 | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.85 | 0.78 | 0.72 | 0.66 | 0.61 | 0.59 | 0.53 | | | | |
| D35 | 0.21 | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.85 | 0.78 | 0.71 | 0.65 | | | | | | | |
| D35 | 0.22 | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.85 | 0.78 | 0.72 | 0.66 | 0.61 | 0.59 | 0.53 | | | | |
| F10 | 0.00 | FORK LIFTS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | | | | | | | | | | |
| G10 | 0.00 | GENERATOR SETS | | | | | | | | | | | | | | | | | | |
| G10 | 0.10 | PORTABLE | 1.05 | 1.03 | 1.02 | 1.00 | 0.94 | 0.92 | | | | | | | | | | | | |
| G10 | 0.20 | SKID MOUNTED | 1.05 | 1.03 | 1.02 | 1.00 | 0.94 | 0.92 | 0.89 | 0.84 | | | | | | | | | | |
| G15 | 0.00 | GRADERS, MOTOR | 1.18 | 1.17 | 1.12 | 1.00 | 0.95 | 0.93 | 0.87 | 0.83 | 0.82 | 0.77 | 0.73 | | | | | | | |
| H10 | 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| H13 | 0.00 | HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | | | | | | | |
| H13 | 0.11 | COMPACTORS (Compression force) 0 THRU 50 TONS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| H13 | 0.12 | COMPACTORS (Compression force) OVER 50 TONS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | | | | | | | | | |
| H13 | 0.21 | FILTER PRESSES, STATIONARY | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | | | | | | | | | | |
| H13 | 0.22 | FILTER PRESSES, MOBILE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| H13 | 0.30 | CENTRIFUGES | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | İ |
| H13 | 0.40 | SHREDDERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| H13 | 0.51 | SOIL TREATMENT PLANT, MOBILE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| H13 | 0.61 | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| H13 | 0.71 | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 1.10 | 1.08 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| H15 | 0.00 | HEATERS, SPACE | | | | | | | | | | | | | | | | | | |
| H20 | 0.00 | HOISTS & AIR WINCHES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | | | | | | | | | | | |
| H25 | 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life i | n Yea | rs | | | | <u> </u> | ear | Purcl | nase | d Ne | N | | | | | | • |
|------|------|--|--------|-------|------|------|------|------|----------|------------|-------|------|------|------|------|------|------|------|------|------|
| CATE | GORY | REGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| H25 | 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 1.06 | 1.05 | 1.02 | 1.00 | 0.96 | 0.97 | | | | | | | | | | | | |
| H25 | 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 1.06 | 1.05 | 1.02 | 1.00 | 0.96 | 0.97 | 0.93 | | | | | | | | | | | |
| H25 | 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.92 | 0.91 | | | | | | | | | |
| H25 | 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.92 | 0.91 | 0.85 | 0.79 | 0.76 | | | | | | |
| H25 | 0.14 | OVER 160,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.91 | 0.85 | 0.79 | 0.76 | 0.74 | 0.67 | | | | |
| H25 | 0.21 | ATTACHMENTS, MOBILE SHEARS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| H25 | 0.22 | ATTACHMENTS, MATERIAL HANDLING | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| H25 | 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| H25 | 0.24 | ATTACHMENTS, COMPACTORS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| H30 | 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | | | | | | | |
| H30 | 0.01 | 0 THRU 1.0 CY | 1.06 | 1.05 | 1.02 | 1.00 | 0.96 | 0.97 | | | | | | | | | | | | |
| H30 | 0.02 | OVER 1.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.92 | | | | | | | | | | |
| H35 | 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H35 | 0.11 | DIESEL, 0 CY THRU 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | | | | | | | |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.77 | | | | | | |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | | | | |
| L10 | 0.00 | LAND CLEARING EQUIPMENT | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| L15 | 0.00 | LANDSCAPING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| L20 | 0.00 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | |
| L20 | 0.10 | METALLIC VAPOR | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| L25 | 0.00 | LINE STRIPING EQUIPMENT | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| L30 | 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life | in Yea | rs | | | | | Year | Purc | hase | d Ne | N | | | | | | |
|------|------|---|------|--------|------|------|------|------|------|-------------|------|------|------|------|------|------|------|------|------|------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| L35 | 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| L40 | 0.00 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | | | | | | | | |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 1.13 | 1.12 | 1.07 | 1.00 | 0.95 | 0.95 | 0.92 | | | | | | | | | | | |
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 1.12 | 1.11 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | | | | | | | | |
| L40 | 0.20 | SKID STEER | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | | | | | | | | | | | | |
| L40 | 0.21 | SKID STEER ATTACHMENTS | 1.13 | 1.11 | 1.06 | 1.00 | | | | | | | | | | | | | | |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 1.13 | 1.12 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.88 | | | | | | | | | | |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.88 | | | | | | | | | |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | | | | | | | | | | | | |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 1.13 | 1.12 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.88 | | | | | | | | | | |
| L55 | 0.00 | LOADER / BACKHOE, ATTACHMENTS | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| L60 | 0.00 | LOG SKIDDERS | 1.08 | 1.06 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | | | | | | | | | | |
| M10 | 0.00 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | | | | | | | | |
| M10 | 0.11 | AQUATIC MAINTENANCE | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | 0.95 | 0.91 | 0.87 | | | | | | | | | | |
| M10 | 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | 1.06 | 1.03 | 1.02 | 1.00 | 0.97 | | | | | | | | | | | | | |
| M10 | 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS,TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.80 | 0.77 | 0.73 | | | | | | |
| M10 | 0.22 | HYDRAULIC CUTTERHEAD DREDGE,8" - 12",TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.80 | 0.77 | 0.73 | | | | | | |
| M10 | 0.23 | HYDRAULIC AUGERHEAD DREDGE,12" OR LESS,TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.80 | 0.77 | 0.73 | | | | | | |
| M10 | 0.24 | HYDRAULIC FLOATING PUMPS,12" OR LESS,TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | | | | | | | | | | | | |
| M10 | 0.25 | HYDRAULIC DREDGE PUMPS,12" OR LESS,TRANSPORTABLE | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | | | | | | | | | | | | | |
| M10 | 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | | | | | | | | | | | | | |
| M10 | 0.31 | SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | REGION 1 | <u>Life</u> | in Yea | rs | | | | | Year | Purc | hase | d Nev | W | | | | | | |
|---------|---|-------------|--------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|-----------|------|
| CATEGOR | RY REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUE | JB TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| M10 0.3 | 32 SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | | | | | | | | | | |
| M10 0.3 | 33 SMALL MECH DREDGES,HOE-MOUNTED DREDGING ATTACH | 1.06 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.87 | 0.83 | 0.79 | 0.76 | 0.72 | 0.68 | 0.67 | 0.65 | | | |
| M10 0.4 | 41 WORK FLOATS (NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | | | | | | | | | | | | | |
| M10 0.4 | 42 WORK BARGES (SECTIONAL, NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | 0.65 | 0.64 |
| M10 0.4 | 45 FLAT-DECK OR CARGO BARGE (NON-DREDGING) | 1.05 | 1.02 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.89 | 0.85 | 0.82 | 0.79 | 0.75 | 0.72 | 0.71 | 0.69 | 0.68 | 0.67 | 0.66 |
| M10 0.4 | 46 DUMP SCOW (NON-DREDGING) | 1.05 | 1.02 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.89 | 0.85 | 0.82 | 0.79 | 0.75 | 0.72 | 0.71 | 0.69 | 0.68 | 0.67 | 0.66 |
| M10 0.4 | 47 DRILL BARGE (NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.71 | 0.70 | 0.68 | 0.67 | 0.67 | 0.66 |
| M10 0.4 | 48 ALL OTHER BARGES (NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.71 | 0.70 | 0.68 | 0.67 | 0.67 | 0.66 |
| M10 0.5 | 51 BOATS & LAUNCHES, 0 THRU 250 HP | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | 0.95 | 0.91 | 0.87 | 0.83 | 0.79 | 0.76 | 0.71 | | | | | | |
| M10 0.5 | 53 BOATS & LAUNCHES, 251 THRU 500 HP | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.80 | 0.77 | 0.73 | 0.69 | 0.68 | | | · — — —] | |
| M10 0.5 | 54 TUGS, 501 THRU 1,000 HP | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | 0.66 | 0.65 |
| M10 0.5 | 55 TUGS, 1,000 THRU 2,000 HP | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 | 0.65 |
| P10 0.0 | 00 PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P20 0.0 | 00 PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | | | | | | | | |
| P20 0.1 | 10 DIESEL | 1.11 | 1.09 | 1.06 | 1.00 | 0.96 | | | | | | | | | | | | | |
| P20 0.2 | 20 PNEUMATIC (STEAM/AIR) | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| P25 0.0 | 00 PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | |
| P25 0.1 | 10 DIESEL | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| P25 0.2 | 20 PNEUMATIC (STEAM/AIR) | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| P30 0.0 | 00 PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| P35 0.0 | 00 PIPELAYERS | 1.12 | 1.11 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | | | | | | | |
| P40 0.0 | 00 PLATFORMS & MAN-LIFTS | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life | in Yea | rs | | | | | Year | Purc | nase | d Ne | w | | | | | | |
|------|------|---------------------------------------|------|--------|------|------|------|------|------|-------------|------|------|------|------|------|------|------|------|------|------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| P45 | 0.00 | PUMPS, GROUT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P50 | 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | | | | | |
| P50 | 0.11 | ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P50 | 0.12 | ELECTRIC DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P50 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P50 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P50 | 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 1.09 | 1.08 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| P55 | 0.00 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | | | | | | |
| P55 | 0.01 | ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P55 | 0.02 | ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P60 | 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | | | | | | | | |
| P60 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P60 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P60 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P60 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P65 | 0.00 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | | | | | | |
| P65 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P65 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P65 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P65 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| P70 | 0.00 | PUMPS, WATER (For core drills) | | | | | | | | | | | | | | | | | | |
| P70 | 0.01 | ENGINE DRIVE | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | <u>Life</u> | in Yea | rs_ | | | | | ear | Purcl | nase | d Nev | N | | | | | | |
|------|------|--|-------------|--------|------|------|------|------|------|------------|-------|------|-------|------|------|------|------|---------|------|------|
| CATE | GORY | KEGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| P70 | 0.02 | ELECTRIC DRIVE | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| R10 | 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | | | | | | | | | | | | |
| R15 | 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | | | | | | | | | | |
| R20 | 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | | | | | | | | | | |
| R30 | 0.00 | ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | | | | | | | |
| R30 | 0.01 | PNEUMATIC | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| R30 | 0.02 | SMOOTH DRUM | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | | | | | | | | | | |
| R30 | 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | 0.83 | | | | | | | | | |
| R40 | 0.00 | ROLLERS, VIBRATORY, TOWED | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| R45 | 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| R50 | 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| R55 | 0.00 | ROOFING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| S10 | 0.00 | SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | |
| S10 | 0.01 | 0 THRU 200 HP | 1.18 | 1.16 | 1.12 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | | | | | | | | | | |
| S10 | 0.02 | OVER 200 HP | 1.18 | 1.17 | 1.12 | 1.00 | 0.95 | 0.93 | 0.87 | 0.83 | 0.82 | 0.77 | | | | | | | | |
| S15 | 0.00 | SCRAPERS, CONVENTIONAL | 1.17 | 1.16 | 1.11 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | 0.83 | 0.79 | 0.75 | 0.72 | | | | | | |
| S20 | 0.00 | SCRAPERS, TANDEM POWERED | 1.17 | 1.16 | 1.11 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | 0.83 | 0.79 | 0.75 | 0.72 | | | | | | |
| S25 | 0.00 | SCRAPERS, TRACTOR DRAWN | 1.17 | 1.16 | 1.12 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | 0.83 | | | | | | | | | |
| S30 | 0.00 | SCREENING & CRUSHING PLANTS | | | | | | | | | | | | | | | | | | |
| S30 | 0.10 | CONVEYORS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| S30 | 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.93 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.70 |
| S30 | 0.21 | CRUSHERS - CONE | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.93 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.70 |
| | | | 1 | 1 | | | | | | | | - | | | l | l | | ı – – I | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life | in Yea | rs | | | | | Year | Purcl | hase | d Ne | N | | | | | | |
|------|------|---|------|--------|------|------|------|------|------|-------------|-------|------|------|------|------|------|------|------|------|------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| S30 | 0.22 | CRUSHERS - JAW | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.93 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.70 |
| S30 | 0.30 | SCREENING PLANT | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 1.18 | 1.16 | 1.12 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | | | | | | | | | | |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.93 | 0.89 | | | | | | | | | | |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 1.14 | 1.12 | 1.07 | 1.00 | 0.95 | 0.95 | 0.91 | 0.87 | | | | | | | | | | |
| T15 | 0.02 | 226 HP THRU 425 HP | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.88 | 0.86 | 0.82 | | | | | | | | |
| T15 | 0.03 | OVER 425 HP | 1.12 | 1.11 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.75 | | | | | | |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.84 | 0.79 | 0.75 | | | | | | | |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 1.08 | 1.06 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | | | | | | | | | | |
| T25 | 0.20 | WHEEL | 1.08 | 1.06 | 1.04 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| T40 | 0.00 | TRUCK OPTIONS | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| T40 | 0.20 | DUMP BODY, REAR | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| T40 | 0.30 | FLATBEDS, WITH SIDES | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| T40 | 0.50 | TRANSIT MIXERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | DECION 4 | Life | in Yea | rs - | | | | ` | Year | Purcl | hase | d Nev | N | | | | | | |
|------|------|--|------|--------|------|------|------|------|------|-------------|-------|------|-------|------|------|------|------|------|------|------|
| CATE | GORY | REGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| T40 | 0.60 | WATER TANKS | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| T40 | 0.70 | ALL OTHER OPTIONS | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| T45 | 0.00 | TRUCK TRAILERS | | | | | | | | | | | | | | | | | | |
| T45 | 0.10 | BOTTOM DUMP | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| T45 | 0.20 | END DUMP | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| T45 | 0.30 | PUP TRAILER | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | | | | | | | | | | | | |
| T45 | 0.41 | LOWBOY, RIGID NECK, DROP DECK | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| T45 | 0.50 | FLATBED TRAILER | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| T45 | 0.60 | MISCELLANEOUS / UTILITY | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | | | | | | | | | | |
| T45 | 0.70 | WATER TANKER TRAILER | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | | | | | | | | | | |
| T45 | 0.80 | DECONTAMINATION FACILITY | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| T45 | 0.90 | TANK TRAILERS | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | | | | | | | | | | |
| T50 | 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | | | | | | | |
| T50 | 0.01 | 0 THRU 10,000 GVW | 1.13 | 1.11 | 1.08 | 1.00 | 0.96 | 0.94 | | | | | | | | | | | | |
| T50 | 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 1.13 | 1.11 | 1.08 | 1.00 | 0.96 | 0.94 | 0.88 | 0.85 | | | | | | | | | | |
| T50 | 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 1.13 | 1.11 | 1.08 | 1.00 | 0.96 | 0.94 | 0.88 | 0.85 | 0.82 | | | | | | | | | |
| T55 | 0.00 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | | | | | | | | |
| T55 | 0.10 | RIGID FRAME | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.78 | 0.73 | 0.72 | 0.71 | 0.70 | | | |
| T55 | 0.20 | ARTICULATED FRAME | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | | | | | | | | |
| T56 | 0.00 | TRUCKS,OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | | | | | | | | | | | | | | | | | | |
| T56 | 0.10 | PRIME MOVER TRACTORS | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.78 | 0.73 | 0.72 | 0.71 | 0.70 | | | |
| T56 | 0.20 | WAGONS, BOTTOM DUMP | 1.06 | 1.04 | 1.03 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | 0.84 | 0.77 | 0.72 | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | | REGION 1 | Life | in Yea | rs | | | | | ⁄ear | Purcl | hase | d Nev | N | | | | | | |
|------|------|--|------|--------|------|------|------|------|------|------|-------|------|-------|------|------|------|------|------|------|------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| T56 | 0.30 | WAGONS, REAR DUMP | 1.06 | 1.04 | 1.03 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | | | | | | | | | |
| T57 | 0.00 | TRUCKS, VACUUM | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | | | | | | | | | | |
| T60 | 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 1.06 | 1.04 | 1.03 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | | | | | | | | | |
| T65 | 0.00 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | | | | | | |
| T65 | 0.10 | DRIFTING & TUNNELING DRILLS | 1.07 | 1.05 | 1.03 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.79 | 0.73 | 0.67 | | | | | | | |
| T65 | 0.20 | TUNNEL BORING MACHINES | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | | | | |
| T65 | 0.30 | PRODUCTION DRILLING RIGS | 1.07 | 1.05 | 1.03 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.79 | | | | | | | | | |
| T65 | 0.40 | ROADHEADERS & CONTINUOUS MINERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | | | | | | |
| T65 | 0.50 | ROCK BOLTING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | | | | | | | | | | |
| T65 | 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | | | | | | | | | |
| T65 | 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | | | | | | | |
| T65 | 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | | | | | | | | | | |
| T65 | 0.70 | LOCOMOTIVES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | | | | | | | | | |
| T65 | 0.90 | OTHER TUNNELING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | | | | | | | | | | |
| W10 | 0.00 | WAGONS, BOTTOM DUMP | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | | | | | | | | | |
| W15 | 0.00 | WAGONS, REAR DUMP | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | | | | | | | | | |
| W25 | 0.00 | WATER & CO2 BLASTERS | | | | | | | | | | | | | | | | | | |
| W25 | 0.10 | LOW PRESSURE, (< 5,000 PSI) | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| W25 | 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| W25 | 0.30 | STEAM CLEANERS | 1.10 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| W25 | 0.40 | CO2 BLASTERS | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| W25 | 0.50 | WET ABRASIVE BLASTING SYSTEM (TORBO) | 1.13 | 1.10 | 1.06 | 1.00 | 0.95 | 0.95 | 0.91 | 0.86 | | | | | | | | | | |

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| | REGION 1 | Life i | in Yea | rs_ | | | | | ⁄ear | Purc | hase | d Nev | W | | | | | | |
|----------|----------------------|--------|--------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| CATEGORY | KEGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| W30 0.00 | WATER TANKS | | | | | | | | | | | | | | | | | | |
| W30 0.10 | PORTABLE WITH WHEELS | 1.06 | 1.04 | 1.03 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | | | | | | | | | |
| W30 0.20 | SKID MOUNTED | 1.06 | 1.04 | 1.03 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | | | | | | | | | |
| W35 0.00 | WELDERS | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | | | | | | | | | | | | |
| W35 0.20 | ELECTRIC DRIVEN | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |

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 <u>not listed</u> 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 = 2002
 - d. Actual purchase price in 2002 = \$205,000 (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 \$4,233 /tire = \$16,932
 - 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 = 2008
- 5. Adjust the actual purchase price:
 - a. Economic Indexes from appendix E (wheel loaders EK = 45)
 - (1) For 2008 (first year of economic life), the economic index = 6695
 (2) For 2002 (year of manufacture), the economic index = 5612
 - b. Purchase price [total equipment value (TEV)] indexed to 2008 (first year of economic life): (Purchase price includes discount, sales tax, and freight for this region).
 - (6695 / 5612) x \$205,000 = \$244,561 (= 2008 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

Tire Wear Factor:
(a) Front (FT):

(b) Drive (DT):

(c) Trailing (TT):

(10) Repair Cost Factor (RCF):

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 01 1. EQUIPMENT INFORMATION AND EXPENSE FACTORS ID No: a. Equipment Specification Data: Loader, Front-end, Wheel, 4WD, 3.5 CY capacity (1) Equipment Description: Model and Series: Caterpillar Model 950-G (3)Present Year or Year of Use: 2014 (4) Year Manufactured: 2002 indexed to 2008 (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; Enter number 6-marine diesel from 0 to 6 ==> D-off - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road: 4-diesel on-road: 5-marine gas: Enter number 6-marine diesel from 0 to 6 ==: None (8) Shipping Weight (cwt): 392 cwt 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 (b) Drive (DT): 23.5X25/16Ply ANNB5 \$4,233 \$16,932 4 (c) Trailing (TT): 0 \$0 \$0 (d) Total Tire Cost: \$16,932 (10) List Price + Accessories: [at Year (yr) of Manufacture] \$0 OR actual purchase price: \$244,561 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 Condition (C): A=Average D=Difficult S=Severe AVERAGE (2) Α (3) Discount Code (DC): $\mathbf{B} = 7.5\%$ (0.075) or $\mathbf{S} = 15.0\%$ (0.15) В 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 Filter, Oil, and Grease (FOG) Factor (E G D): 0.111

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

0.83

0.54

0.92

0.70

Region 01

2. EQUIPMENT VALUE

| a. | List Price + Accessories | s: [at Year (yr) of Ma | nufacture] | | =\$0 |
|---------------------------------|---|---|--------------------|---|--|
| | (1) Discount: | (List Price {1.a.(10)} | + Accessories |) x Discount {1.c.(3)} | |
| | | <u>(\$0</u> | + \$0.00) | x <u>0.075</u> | = - [\$0] |
| | (2) Subtotal {2.a} {2. | a.(1)} | | | Subtotal = <u>\$0</u> |
| | (3) Sales or Import | Subtotal {2.a.(2)} | x | Tax Rate {Appendix B} | |
| | | <u>\$0</u> | x | 6.00% | = \$0 |
| | (4) Total Discounted P | rice: Subtotal: {2.a.(| 2)} + {2.a.(3)} | | Subtotal = \$0 |
| b. | Freight: | Shipping Weight {1.a.(8)} | х | Freight Rate per cwt {Appendix B} | |
| | | 0,000 cwt | х | \$0.00 /cwt | =\$0 |
| c. 3. <u>Di</u> a. | TOTAL EQUIPMENT V {2.a.(4)} + {2.b} OR (See chapter 3 for used a EPRECIATION PERIOD LIFE {1.c.(4)} 9,250 hr | actual purchase price {1and overage equipment | rate adjustments.) | | TOTAL[2.]: = \$244,561 = N = 6.80 yrs (N) |
| 4. <u>O\</u> | WNERSHIP COST | | | | |
| a. | Depreciation (1) Tire Cost Index (TO Tire Index, Year of Manufacture, {1.a.(4)} Appendix E, EK=100 3267 | , | | | = TCI = 0.807 |
| | (2) [TEV {2.c.} [\$244,561 | x (1.0-SLV) {1.c.(5)} x (1.0-0.25) | - (TCI {4.a.(1)} | {1.a.(9)(d)} | / LIFE {1.c.(4)} / <u>9,250 hr</u> = \$18.35 /hr |

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

Region 01

4. OWNERSHIP COST (Continued)

b. Facilities Capital Cost of Money (FCCM):

| (1) | (N - 1.0) {3.a.} [(6.80 yr - 1.0) | x x | (1.0 + SLV) {1.c.5.} (1.0 + 0.25) | + | 2.0] 2.0] | / | (2.0 x N) {3.a.} (2.0 x 6.80 yr) | = =_ | Avg Value Factor {AVF} 0.680 |
|-----|---|--------|---|--------|--|---|--|---------|---------------------------------------|
| (2) | TEV {2.c.} <u>\$244,561</u> | x x | AVF {4.b.(1)} <u>0.680</u> | x x | Adjusted Cost-of-Money {Appendix B} 1.70% | / | WHPY {Appendix B} 1,360 hr/yr | =_ | \$2.08 /hr |

c. TOTAL HOURLY OWNERSHIP COST:

TOTAL [4.]: = \$20.43 /hr

{4.a.(2)} + {4.b.(2)}

5. OPERATING COST

- a. Fuel Costs:
 - (1) Equipment:

| | Fuel Factor {1.c.(6)} | x | Horsepower (hp) {1.a.(5)} | х | Fuel Cost per Gallon (gal) {Appendix B} | | |
|-----------|-----------------------|---|---------------------------|---|---|----|-------------|
| | 0.031 | Χ | <u>180 hp</u> | Х | \$3.66 /gal | =_ | \$20.42 /hr |
| (2) Carri | er: | | | | | | |

(3) Total Hourly Fuel Cost: Total [5.a.] = \$20.42 /hr {(5.a (1)) + {5.a (2)}}

- b. FOG Cost:
 - (1) Equipment:

| | E | Equipment Hourly | у | Labor Adjustment |
|--------------|---|------------------|---|--------------------------|
| FOG Factor | Х | Fuel Cost | Х | Factor (LAF) |
| {1.c.(8)} | | {5.a.(1)} | | {Appendix B} |
| <u>0.111</u> | X | \$20.42 /hr | X | <u>1.15</u> = \$2.61 /hr |

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

Region 01

5. OPERATING COST (Continued)

(2) Carrier:

| | ` , | | | | | | | | | | |
|----|------|---|--------|---|---|-------------------|----------------|------------|--------------|------------|--------------|
| | | FOG Factor | x | Carrier Hourly Fuel Cost | х | LAF | | | | | |
| | | {1.c.(8)} | | {5.a.(2)} | | {Appendix B} | | | | | |
| | | <u>0.111</u> | Х | <u>\$0.00 /hr</u> | Χ | <u>1.15</u> | | | | = | \$0.00 /hr |
| | (3) | Total Hourly FOG Cos {5.b.(1)} + {5.b.(2)} | t: | | | | | Total | [5.b.] | = | \$2.61 /hr |
| C. | Alte | ernative Fuel/FOG Cost (See chapter 2, paragraph 2 | | or guidance on when to use. |) | | | Total | [5.c.] | = | \$0.00 hr |
| d. | Rep | pair Cost: | | | | | | | | | |
| | (1) | Economic Adjustment [EK is from 1c. (1)] | Facto | r (EAF): | | | | | | | |
| | | Economic Index, Present Year or Year of Use,1.a.(3) Appendix E, EK={1.c.(1)} 7830 (See table 3-1 for last year of | / / | Economic Index, Year of Manufacture, 1.a.(4) Appendix E, EK={1.c.(1)} 6695 omic life.) | | | | | | = <u> </u> | EAF 1.170 |
| | (2) | Repair Factor (RF): | | | | | | | | | |
| | | RCF | х | EAF | х | LAF | | | | = | RF |
| | | {1.c.(10)} | | {5.d.(1)} | | {Appendix B} | | | | | |
| | | <u>0.70</u> | Х | <u>1.170</u> | Х | <u>1.15</u> | | | | = | 0.942 |
| | (3) | Repair Cost: | | | | | | | | | |
| | | [TEV | _ | (TCI | х | Tire Cost)] | x RF | / 1 | LIFE | | |
| | | {2.c.} | | {4.a.(1)} | | {1.a.(9)(d)} | {5.d.(2)} | | 1.c.(4)} | | |
| | | [\$244,561 | - | (0.807 | Х | <u>\$16,932)]</u> | x <u>0.942</u> | / <u>s</u> | <u>9,250</u> | | |
| | (4) | Total Hourly Repair Co | ost: | | | | | Total | [5.d.] | = | \$23.51 /hr |

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

{5.e.(4)}

\$8.17 /hr

Region 01

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 Maximum Tire Life Hours) {1.a.(9)(a)} {1.c.(9)(a)} {Appendix F} (1.5 x \$0) (1.8 x 0.83 <u>0 hr)</u> \$0.00 /hr Х (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} 3200 hr) (1.5 x \$16,932) (1.8 x 0.54 \$8.17 /hr Х 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 x \$0) (1.8 x 0.92 <u>0 hr)</u> \$0.00 /hr **Total Tire Wear Cost:** (4) Total [5.e.] = \$8.17 /hr Sum {5.e.(1)} through {5.e.(3)} f. Tire Repair Cost: **Total Tire Wear Cost** per Hour (0.15 x LAF)

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

Total [5.f.] = \$1.41 /hr

{Appendix B}

(0.15 x 1.15)

Figure 3-1. Total Hourly Rate Calculation for Overage Equipment Page 5 of 6

Region 01

6. HOURLY RATES

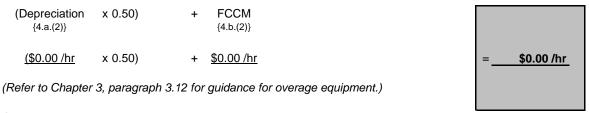
a. Total Hourly Rate: [based on 40 hours per week (wk)]

b. Other Work Shifts Hourly Rate:

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

c. Standby Hourly Rate:

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



See Figure 3-2 for standby calculations for overage equipment

See Chapter 3 if rate adjustments are necessary.

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

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

| | | REGION 1 | | n Yea | | _ | | | <u>Y</u> | ear l | Purch | nased | l Nev | <u>v</u> | | | | | | |
|-------|------|--|------|-------|------|------|------|------|----------|-------|-------|-------|-------|----------|------|------|------|------|------|------|
| CATEG | ORY | KEOION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 5 | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| A10 | 0.00 | AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | | | | | | | |
| A10 | 0.10 | SELF-PROPELLED | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| A10 | 0.20 | TOWED & TAILGATE | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.81 | 0.76 | 0.76 | 0.77 | 0.76 | 0.75 | 0.73 | 0.72 | 0.69 |
| A15 | 0.00 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | | | | | | | | |
| A15 | 0.10 | ROTARY SCREW | 1.11 | 1.09 | 1.04 | 1.00 | 0.92 | 0.91 | 0.85 | 0.79 | 0.76 | 0.72 | 0.69 | 0.69 | 0.68 | 0.69 | 0.67 | 0.69 | 0.69 | 0.68 |
| A15 | 0.20 | SHOP TYPE | 1.10 | 1.09 | 1.04 | 1.00 | 0.92 | 0.91 | 0.86 | 0.80 | 0.77 | 0.74 | 0.71 | 0.70 | 0.70 | 0.71 | 0.69 | 0.71 | 0.70 | 0.70 |
| A20 | 0.00 | AIR HOSE, TOOLS & EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A20 | 0.10 | AIR DRILL HOSE | 1.09 | 1.08 | 1.03 | 1.00 | 0.93 | 0.92 | 0.87 | 0.82 | 0.79 | 0.76 | 0.73 | 0.73 | 0.73 | 0.73 | 0.72 | 0.73 | 0.73 | 0.73 |
| A20 | 0.20 | SANDBLAST HOSE | 1.09 | 1.08 | 1.03 | 1.00 | 0.93 | 0.92 | 0.87 | 0.82 | 0.79 | 0.76 | 0.73 | 0.73 | 0.73 | 0.73 | 0.72 | 0.73 | 0.73 | 0.73 |
| A20 | 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 1.10 | 1.08 | 1.04 | 1.00 | 0.92 | 0.92 | 0.87 | 0.81 | 0.78 | 0.75 | 0.72 | 0.71 | 0.71 | 0.72 | 0.70 | 0.72 | 0.71 | 0.71 |
| A25 | 0.00 | ASPHALT PAVING DISTRIBUTORS | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.94 | 0.90 | 0.87 | 0.83 | 0.79 | 0.79 | 0.79 | 0.79 | 0.78 | 0.76 | 0.75 | 0.72 |
| A30 | 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A30 | 0.10 | SELF PROPELLED | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.78 | 0.78 | 0.78 | 0.77 | 0.75 | 0.74 | 0.71 |
| A30 | 0.20 | TOWED | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.76 | 0.74 | 0.72 | 0.70 |
| A30 | 0.30 | SLURRY SEAL PAVERS (Cold mix) | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.76 | 0.74 | 0.73 | 0.70 |
| A30 | 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.76 | 0.74 | 0.72 | 0.70 |
| A35 | 0.00 | ASPHALT PAVING KETTLES | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.81 | 0.76 | 0.76 | 0.77 | 0.76 | 0.75 | 0.73 | 0.72 | 0.69 |
| A40 | 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.81 | 0.76 | 0.76 | 0.77 | 0.76 | 0.75 | 0.73 | 0.72 | 0.69 |
| A45 | 0.00 | ASPHALT RECYCLERS & SEALERS | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.81 | 0.76 | 0.76 | 0.76 | 0.76 | 0.75 | 0.73 | 0.72 | 0.69 |
| B10 | 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | | | | | | | |
| B10 | 0.10 | ASPHALT | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| B10 | 0.20 | CONCRETE | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | REGION 1 | | n Yea | | | | | Y | 'ear l | Purch | nased | l Nev | <u>v</u> | | | | | | |
|----------|--|------|-------|------|------|------|------|------|--------|-------|-------|-------|----------|------|------|------|------|------|------|
| CATEGORY | KEGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| B10 0.30 | PUGMILL | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.77 | 0.77 | 0.77 | 0.76 | 0.74 | 0.72 | 0.70 |
| B15 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| B20 0.00 | BRUSH CHIPPERS | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| B25 0.00 | BUCKETS, CLAMSHELL | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.80 | 0.77 | 0.72 | 0.73 | 0.74 | 0.73 | 0.73 |
| B30 0.00 | BUCKETS, CONCRETE | | | | | | | | | | | | | | | | | | |
| B30 0.10 | GENERAL PURPOSE, MANUAL TRIP | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.93 | 0.88 | 0.83 | 0.81 | 0.78 | 0.73 | 0.74 | 0.75 | 0.75 | 0.74 |
| B30 0.20 | LAYDOWN | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.93 | 0.88 | 0.83 | 0.81 | 0.78 | 0.73 | 0.74 | 0.75 | 0.75 | 0.74 |
| B30 0.30 | LOWBOY | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.93 | 0.88 | 0.83 | 0.81 | 0.78 | 0.73 | 0.74 | 0.75 | 0.75 | 0.74 |
| B30 0.40 | LOW SLUMP | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.93 | 0.88 | 0.83 | 0.81 | 0.78 | 0.73 | 0.74 | 0.75 | 0.75 | 0.74 |
| B35 0.00 | BUCKETS, DRAGLINE | | | | | | | | | | | | | | | | | | |
| B35 0.10 | LIGHT WEIGHT | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.80 | 0.77 | 0.72 | 0.73 | 0.74 | 0.73 | 0.73 |
| B35 0.20 | MEDIUM WEIGHT | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.80 | 0.77 | 0.72 | 0.73 | 0.74 | 0.74 | 0.73 |
| B35 0.30 | HEAVY WEIGHT | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.80 | 0.77 | 0.72 | 0.73 | 0.74 | 0.74 | 0.73 |
| C05 0.00 | CHAIN SAWS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.74 | 0.73 | 0.72 | 0.72 | 0.70 | 0.69 |
| C10 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | | | | | | |
| C10 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.94 | 0.91 | 0.88 | 0.84 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.71 |
| C10 0.20 | ROLLERS, VIBRATORY | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.72 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| C15 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | | | | | | | |
| C15 0.10 | WALK BEHIND | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.81 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| C15 0.20 | TRUCK/TRAILER MOUNTED | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| C20 0.00 | CONCRETE BUGGIES | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.81 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| C25 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | | | | | | | | |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | | REGION 1 | <u>Life in Years</u> <u>Year Purchased New</u> | | | | | | | | | | | | | | | | | |
|-------|------|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CATEG | ORY | KEGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| (| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| C25 | 0.10 | FINISHERS/TROWELS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| C25 | 0.20 | VIBRATORY SCREED | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| C25 | 0.25 | VIBRATORY LASER SCREED | 1.11 | 1.09 | 1.06 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.85 | 0.80 | 0.73 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 | 0.63 | 0.61 |
| C25 | 0.30 | MATERIAL/TOPPING SPREADERS | 1.11 | 1.09 | 1.06 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.85 | 0.80 | 0.73 | 0.69 | 0.68 | 0.66 | 0.66 | 0.65 | 0.63 | 0.61 |
| C30 | 0.00 | CONCRETE GRINDERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| C35 | 0.00 | CONCRETE GUNITERS / SHOTCRETERS | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.85 | 0.81 | 0.74 | 0.71 | 0.69 | 0.68 | 0.68 | 0.67 | 0.65 | 0.63 |
| C40 | 0.00 | CONCRETE MIXING UNITS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| C45 | 0.00 | CONCRETE PAVING MACHINES | 1.08 | 1.05 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.89 | 0.86 | 0.81 | 0.76 | 0.76 | 0.77 | 0.76 | 0.75 | 0.73 | 0.72 | 0.69 |
| C55 | 0.00 | CONCRETE PUMPS | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| C60 | 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| C65 | 0.00 | CONCRETE VIBRATORS | 1.10 | 1.08 | 1.04 | 1.00 | 0.92 | 0.92 | 0.87 | 0.81 | 0.78 | 0.75 | 0.72 | 0.71 | 0.71 | 0.71 | 0.70 | 0.71 | 0.71 | 0.71 |
| C70 | 0.00 | CRANES, GANTRY & STRADDLE | | | | | | | | | | | | | | | | | | |
| C75 | 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.87 | 0.81 | 0.79 | 0.77 | 0.71 | 0.72 | 0.72 | 0.71 | 0.69 |
| C80 | 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C80 | 0.01 | UNDER 26 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.87 | 0.81 | 0.79 | 0.77 | 0.71 | 0.72 | 0.72 | 0.71 | 0.69 |
| C80 | 0.02 | 26 TON THRU 65 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.87 | 0.81 | 0.79 | 0.77 | 0.71 | 0.73 | 0.72 | 0.71 | 0.69 |
| C80 | 0.03 | 66 TON THRU 125 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.93 | 0.92 | 0.87 | 0.82 | 0.79 | 0.77 | 0.72 | 0.73 | 0.72 | 0.71 | 0.70 |
| C80 | 0.04 | OVER 125 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.79 | 0.77 | 0.72 | 0.73 | 0.73 | 0.72 | 0.70 |
| C85 | 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| C85 | 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.76 | 0.70 | 0.71 | 0.71 | 0.70 | 0.68 |
| C85 | 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.71 | 0.71 | 0.70 | 0.68 |
| C85 | 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.72 | 0.71 | 0.70 | 0.68 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | PECION 1 | Life i | n Yea | rs | | | | Υ | ear l | Purch | nased | d Nev | V | | | | | | |
|----------|---|--------|-------|------|------|------|------|------|-------|-------|-------|-------|---------|------|------|------|------|------|------|
| CATEGORY | REGION 1 | 0 | 1 | _ 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | _ 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | 0.72 | 0.71 | 0.70 | 0.69 |
| C85 0.21 | LIFTING, 0 THRU 25 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.71 | 0.71 | 0.70 | 0.68 |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.72 | 0.71 | 0.70 | 0.68 |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.79 | 0.77 | 0.72 | 0.73 | 0.73 | 0.72 | 0.70 |
| C85 0.24 | LIFTING, OVER 150 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.80 | 0.77 | 0.72 | 0.73 | 0.73 | 0.72 | 0.70 |
| C90 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C90 0.01 | UNDER 26 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.87 | 0.81 | 0.79 | 0.77 | 0.71 | 0.72 | 0.72 | 0.71 | 0.69 |
| C90 0.02 | 26 TON THRU 65 TON | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.87 | 0.81 | 0.79 | 0.77 | 0.71 | 0.73 | 0.72 | 0.71 | 0.69 |
| C90 0.03 | 66 TON THRU 125 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.72 | 0.71 | 0.70 | 0.68 |
| C90 0.04 | OVER 125 TON | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | 0.72 | 0.71 | 0.70 | 0.69 |
| C95 0.00 | CRANES, TOWER | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.72 | 0.71 | 0.70 | 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) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.85 | 0.78 | 0.71 | 0.65 | 0.60 | 0.58 | 0.52 | 0.51 | 0.50 | 0.48 | 0.47 |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.91 | 0.84 | 0.77 | 0.70 | 0.64 | 0.59 | 0.57 | 0.51 | 0.49 | 0.48 | 0.47 | 0.46 |
| D15 0.00 | DRILLS, HORIZONTAL | | | | | | | | | | | | | | | | | | |
| D15 0.10 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.91 | 0.84 | 0.77 | 0.70 | 0.64 | 0.59 | 0.57 | 0.51 | 0.49 | 0.48 | 0.47 | 0.46 |
| D15 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.91 | 0.84 | 0.77 | 0.70 | 0.64 | 0.59 | 0.57 | 0.51 | 0.49 | 0.48 | 0.47 | 0.46 |
| D20 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 1.08 | 1.05 | 1.04 | 1.00 | 0.95 | 0.94 | 0.91 | 0.84 | 0.77 | 0.70 | 0.63 | 0.58 | 0.57 | 0.50 | 0.49 | 0.48 | 0.46 | 0.45 |
| D25 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.91 | 0.84 | 0.77 | 0.70 | 0.64 | 0.59 | 0.57 | 0.51 | 0.49 | 0.48 | 0.47 | 0.46 |
| D30 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.91 | 0.84 | 0.77 | 0.70 | 0.64 | 0.59 | 0.57 | 0.51 | 0.49 | 0.48 | 0.47 | 0.46 |
| 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) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.79 | 0.72 | 0.66 | 0.62 | 0.60 | 0.54 | 0.53 | 0.52 | 0.51 | 0.50 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | REGION 1 | <u>Life in Years</u> <u>Year Purchased New</u> | | | | | | | | | | | | | | | | | |
|----------|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CATEGORY | KEGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| D35 0.12 | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.03 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.79 | 0.73 | 0.67 | 0.62 | 0.61 | 0.55 | 0.54 | 0.53 | 0.52 | 0.51 |
| D35 0.21 | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.04 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.79 | 0.72 | 0.66 | 0.62 | 0.60 | 0.54 | 0.53 | 0.52 | 0.51 | 0.50 |
| D35 0.22 | ELECTRIC, OVER 9.875* DIAMETER (Add cost for drill steel and bit wear) | 1.07 | 1.05 | 1.03 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.79 | 0.73 | 0.67 | 0.62 | 0.61 | 0.55 | 0.54 | 0.53 | 0.52 | 0.51 |
| F10 0.00 | FORKLIFTS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| G10 0.00 | GENERATOR SETS | | | | | | | | | | | | | | | | | | |
| G10 0.10 | PORTABLE | 1.05 | 1.03 | 1.02 | 1.00 | 0.94 | 0.92 | 0.89 | 0.84 | 0.80 | 0.76 | 0.72 | 0.70 | 0.70 | 0.70 | 0.70 | 0.69 | 0.69 | 0.69 |
| G10 0.20 | SKID MOUNTED | 1.05 | 1.03 | 1.02 | 1.00 | 0.94 | 0.92 | 0.89 | 0.84 | 0.80 | 0.76 | 0.72 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.69 |
| G15 0.00 | GRADERS, MOTOR | 1.17 | 1.16 | 1.12 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | 0.83 | 0.79 | 0.75 | 0.71 | 0.70 | 0.69 | 0.69 | 0.67 | 0.64 | 0.62 |
| H10 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| H13 0.00 | HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | | | | | | | |
| H13 0.11 | COMPACTORS (Compression force) 0 THRU 50 TONS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.68 |
| H13 0.12 | COMPACTORS (Compression force) OVER 50 TONS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.66 |
| H13 0.21 | FILTER PRESSES, STATIONARY | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| H13 0.22 | FILTER PRESSES, MOBILE | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.68 |
| H13 0.30 | CENTRIFUGES | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.81 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| H13 0.40 | SHREDDERS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.68 |
| H13 0.51 | SOIL TREATMENT PLANT, MOBILE | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.68 |
| H13 0.61 | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.68 |
| H13 0.71 | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.72 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| H15 0.00 | HEATERS, SPACE | | | | | | | | | | | | | | | | | | |
| H20 0.00 | HOISTS & AIR WINCHES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| H25 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |

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Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | REGION 1 | | <u>Life in Years</u> <u>Year Purchased New</u> | | | | | | | | | | | | | | | \neg | |
|----------|--|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|
| CATEGORY | REGION I | 0 | 1 | _ 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.92 | 0.91 | 0.85 | 0.79 | 0.76 | 0.73 | 0.67 | 0.68 | 0.68 | 0.67 | 0.65 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.91 | 0.85 | 0.79 | 0.76 | 0.74 | 0.67 | 0.69 | 0.68 | 0.67 | 0.65 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.91 | 0.85 | 0.79 | 0.77 | 0.74 | 0.68 | 0.69 | 0.69 | 0.68 | 0.66 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.77 | 0.75 | 0.69 | 0.70 | 0.70 | 0.69 | 0.67 |
| H25 0.14 | OVER 160,000 LBS | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.75 | 0.69 | 0.71 | 0.70 | 0.69 | 0.67 |
| H25 0.21 | ATTACHMENTS, MOBILE SHEARS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| H25 0.22 | ATTACHMENTS, MATERIAL HANDLING | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| H25 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| H25 0.24 | ATTACHMENTS, COMPACTORS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| H30 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | | | | | | | |
| H30 0.01 | 0 THRU 1.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.92 | 0.91 | 0.85 | 0.79 | 0.76 | 0.73 | 0.67 | 0.68 | 0.68 | 0.67 | 0.65 |
| H30 0.02 | OVER 1.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.91 | 0.85 | 0.79 | 0.76 | 0.74 | 0.68 | 0.69 | 0.69 | 0.67 | 0.65 |
| H35 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.80 | 0.78 | 0.76 | 0.70 | 0.71 | 0.71 | 0.70 | 0.68 |
| H35 0.12 | DIESEL, OVER 5.0 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.96 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.71 | 0.71 | 0.70 | 0.68 |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 1.06 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.78 | 0.76 | 0.70 | 0.72 | 0.71 | 0.70 | 0.68 |
| L10 0.00 | LAND CLEARING EQUIPMENT | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.76 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 | 0.68 |
| L15 0.00 | LANDSCAPING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.72 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| L20 0.00 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | |
| L20 0.10 | METALLIC VAPOR | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| L25 0.00 | LINE STRIPING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | | Table 3-2 Equipi | | n Yea | | , | | | | | Purch | | | | | | | | | |
|-------|------|---|------|--------------------|----------------|------|------|------|----------------|--------------|-------|-------------------|----------------|----------------|------|------|------|------|------|------|
| CATEG | GORY | REGION 1 | 0 | <u>n real</u> 1 | <u>rs</u> 2 | 3 | 4 | 5 | <u>-1</u> 6 | <u>ear i</u> | 8 | <u>14360</u> 9 | 11 10-V | <u>v</u> 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| : | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | | 2011 | | 2009 | 2008 | | | 2005 | | 2003 | 2002 | 2001 | 2000 | | 1998 | 1997 |
| L35 | 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.76 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 | 0.68 |
| L40 | 0.00 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | | | | | | | | |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.69 | 0.67 |
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.84 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.71 | 0.70 |
| L40 | 0.20 | SKID STEER | 1.12 | 1.11 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 | 0.69 |
| L40 | 0.21 | SKID STEER ATTACHMENTS | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.89 | 0.87 | 0.83 | 0.78 | 0.75 | 0.73 | 0.73 | 0.72 | 0.71 | 0.70 | 0.68 |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.89 | 0.87 | 0.82 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.69 | 0.67 |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 1.11 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.80 | 0.77 | 0.76 | 0.75 | 0.75 | 0.74 | 0.72 | 0.71 |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 1.12 | 1.11 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.69 | 0.68 |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.89 | 0.87 | 0.82 | 0.77 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.69 | 0.67 |
| L55 | 0.00 | LOADER/BACKHOE, ATTACHMENTS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| L60 | 0.00 | LOG SKIDDERS | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.84 | 0.79 | 0.76 | 0.72 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 | 0.63 |
| M10 | 0.00 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | | | | | | | | |
| M10 | 0.11 | AQUATIC MAINTENANCE | 1.06 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.87 | 0.83 | 0.79 | 0.76 | 0.72 | 0.68 | 0.67 | 0.65 | 0.64 | 0.63 | 0.62 |
| M10 | 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | 0.95 | 0.90 | 0.86 | 0.82 | 0.78 | 0.74 | 0.69 | 0.66 | 0.64 | 0.62 | 0.61 | 0.60 | 0.59 |
| M10 | 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS,TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | 0.65 | 0.64 |
| M10 | 0.22 | HYDRAULIC CUTTERHEAD DREDGE,8" - 12",TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | 0.65 | 0.64 |
| M10 | 0.23 | HYDRAULIC AUGERHEAD DREDGE,12" OR LESS,TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | 0.65 | 0.64 |
| M10 | 0.24 | HYDRAULIC FLOATING PUMPS,12" OR LESS,TRANSPORTABLE | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.80 | 0.77 | 0.73 | 0.69 | 0.68 | 0.67 | 0.65 | 0.65 | 0.64 |
| M10 | 0.25 | HYDRAULIC DREDGE PUMPS,12" OR LESS,TRANSPORTABLE | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | 0.95 | 0.91 | 0.87 | 0.83 | 0.79 | 0.76 | 0.71 | 0.67 | 0.66 | 0.65 | 0.63 | 0.63 | 0.61 |
| M10 | 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | 1.06 | 1.03 | 1.01 | 1.00 | 0.97 | 0.95 | 0.91 | 0.87 | 0.83 | 0.79 | 0.76 | 0.71 | 0.67 | 0.66 | 0.65 | 0.63 | 0.63 | 0.61 |
| M10 | 0.31 | SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.93 | 0.92 | 0.87 | 0.82 | 0.79 | 0.77 | 0.72 | 0.73 | 0.72 | 0.71 | 0.70 |

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Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | | REGION 1 | | n Yea | | | | | | | Purch | | | | | | | | | |
|------|------|--|------|-------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| CATE | GORY | REGION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| M10 | 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.97 | 0.94 | 0.93 | 0.92 | 0.86 | 0.81 | 0.79 | 0.76 | 0.71 | 0.72 | 0.72 | 0.71 | 0.69 |
| M10 | 0.33 | SMALL MECH DREDGES,HOE-MOUNTED DREDGING ATTACH | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.87 | 0.83 | 0.80 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.65 | 0.64 | 0.63 |
| M10 | 0.41 | WORK FLOATS (NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.80 | 0.77 | 0.73 | 0.69 | 0.68 | 0.66 | 0.65 | 0.65 | 0.63 |
| M10 | 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 | 0.65 |
| M10 | 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | 1.05 | 1.02 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.89 | 0.85 | 0.82 | 0.79 | 0.75 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 |
| M10 | 0.46 | DUMP SCOW (NON-DREDGING) | 1.05 | 1.02 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.89 | 0.85 | 0.82 | 0.79 | 0.75 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 |
| M10 | 0.47 | DRILL BARGE (NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 |
| M10 | 0.48 | ALL OTHER BARGES (NON-DREDGING) | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 |
| M10 | 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.87 | 0.83 | 0.80 | 0.77 | 0.72 | 0.69 | 0.68 | 0.66 | 0.65 | 0.64 | 0.63 |
| M10 | 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.73 | 0.70 | 0.69 | 0.67 | 0.66 | 0.66 | 0.64 |
| M10 | 0.54 | TUGS, 501 THRU 1,000 HP | 1.05 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.84 | 0.81 | 0.78 | 0.74 | 0.71 | 0.70 | 0.68 | 0.67 | 0.67 | 0.66 |
| M10 | 0.55 | TUGS, 1,000 THRU 2,000 HP | 1.05 | 1.02 | 1.01 | 1.00 | 0.98 | 0.96 | 0.92 | 0.88 | 0.85 | 0.82 | 0.79 | 0.75 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 |
| P10 | 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | 1.12 | 1.10 | 1.06 | 1.00 | 0.95 | 0.95 | 0.91 | 0.86 | 0.83 | 0.78 | 0.70 | 0.66 | 0.64 | 0.63 | 0.63 | 0.62 | 0.60 | 0.58 |
| P20 | 0.00 | PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | | | | | | | | |
| P20 | 0.10 | DIESEL | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.85 | 0.81 | 0.74 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 | 0.65 | 0.63 |
| P20 | 0.20 | PNEUMATIC (STEAM/AIR) | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| P25 | 0.00 | PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | |
| P25 | 0.10 | DIESEL | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| P25 | 0.20 | PNEUMATIC (STEAM/AIR) | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| P30 | 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| P35 | 0.00 | PIPELAYERS | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.70 | 0.69 |
| P40 | 0.00 | PLATFORMS & MAN-LIFTS | 1.05 | 1.04 | 1.01 | 1.00 | 0.97 | 0.97 | 0.95 | 0.94 | 0.92 | 0.87 | 0.82 | 0.80 | 0.77 | 0.72 | 0.73 | 0.73 | 0.72 | 0.70 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | PECION 4 | | n Yea | | | | | | | Purch | | | | | | | | | |
|---------|---------------------------------------|------|-------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| CATEGOR | REGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUE | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| P45 0.0 | PUMPS, GROUT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |
| P50 0.0 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | | | | | |
| P50 0.1 | ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P50 0.1 | ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P50 0.2 | WHEEL MOUNTED, ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P50 0.2 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P50 0.3 | HOSES, PUMP, SUCTION & DISCHARGE | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| P55 0.0 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | | | | | | |
| P55 0.0 | ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P55 0.0 | ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |
| P60 0.0 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | | | | | | | | |
| P60 0.1 | SKID MOUNTED, ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P60 0.1 | SKID MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |
| P60 0.2 | WHEEL MOUNTED, ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P60 0.2 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |
| P65 0.0 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | | | | | | |
| P65 0.1 | SKID MOUNTED, ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P65 0.1 | SKID MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |
| P65 0.2 | WHEEL MOUNTED, ENGINE DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| P65 0.2 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |
| P70 0.0 | PUMPS, WATER (For core drills) | | | | | | | | | | | | | | | | | | |
| P70 0.0 | ENGINE DRIVE | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.74 | 0.71 | 0.70 | 0.68 | 0.68 | 0.67 | 0.66 | 0.64 |

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Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | REGION 1 | Life i | in Yea | rs_ | | | | Y | ear | Purch | nased | l Nev | <u>v</u> | | | | | | |
|---------|--|--------|--------|------|------|------|------|------|------|-------|-------|-------|----------|------|------|------|------|------|------|
| CATEGO | REGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SU | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| P70 0.0 | 2 ELECTRIC DRIVE | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.74 | 0.71 | 0.70 | 0.68 | 0.68 | 0.67 | 0.66 | 0.64 |
| R10 0.0 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 1.12 | 1.11 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.69 | 0.68 |
| R15 0.0 | 00 ROLLERS, STATIC, TOWED, PNEUMATIC | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.68 | 0.67 | 0.66 | 0.67 | 0.65 | 0.64 |
| R20 0.0 | 00 ROLLERS, STATIC, TOWED, STEEL DRUM | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.68 | 0.67 | 0.66 | 0.67 | 0.65 | 0.64 |
| R30 0.0 | 00 ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | | | | | | | |
| R30 0.0 | PNEUMATIC | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.84 | 0.79 | 0.76 | 0.72 | 0.70 | 0.69 | 0.67 | 0.68 | 0.67 | 0.65 |
| R30 0.0 | 22 SMOOTH DRUM | 1.07 | 1.05 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.84 | 0.79 | 0.76 | 0.72 | 0.70 | 0.69 | 0.67 | 0.69 | 0.67 | 0.65 |
| R30 0.0 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.69 | 0.68 | 0.66 | 0.67 | 0.66 | 0.64 |
| R40 0.0 | 00 ROLLERS, VIBRATORY, TOWED | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | 0.83 | 0.78 | 0.74 | 0.70 | 0.68 | 0.67 | 0.65 | 0.67 | 0.65 | 0.63 |
| R45 0.0 | 00 ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | 0.83 | 0.78 | 0.74 | 0.70 | 0.68 | 0.67 | 0.65 | 0.67 | 0.65 | 0.63 |
| R50 0.0 | 00 ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.92 | 0.87 | 0.82 | 0.77 | 0.73 | 0.68 | 0.66 | 0.65 | 0.63 | 0.65 | 0.63 | 0.61 |
| R55 0.0 | 00 ROOFING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| S10 0.0 | OO SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | |
| S10 0.0 | 01 0 THRU 200 HP | 1.17 | 1.15 | 1.11 | 1.00 | 0.96 | 0.94 | 0.88 | 0.84 | 0.83 | 0.79 | 0.75 | 0.72 | 0.71 | 0.70 | 0.70 | 0.68 | 0.65 | 0.63 |
| S10 0.0 | 02 OVER 200 HP | 1.18 | 1.16 | 1.12 | 1.00 | 0.95 | 0.94 | 0.88 | 0.84 | 0.82 | 0.78 | 0.74 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.64 | 0.62 |
| S15 0.0 | OO SCRAPERS, CONVENTIONAL | 1.17 | 1.15 | 1.11 | 1.00 | 0.96 | 0.94 | 0.88 | 0.85 | 0.83 | 0.80 | 0.76 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.66 | 0.64 |
| S20 0.0 | OO SCRAPERS, TANDEM POWERED | 1.17 | 1.15 | 1.11 | 1.00 | 0.96 | 0.94 | 0.88 | 0.85 | 0.83 | 0.80 | 0.76 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.66 | 0.64 |
| S25 0.0 | OO SCRAPERS, TRACTOR DRAWN | 1.17 | 1.15 | 1.11 | 1.00 | 0.96 | 0.94 | 0.88 | 0.85 | 0.83 | 0.79 | 0.75 | 0.72 | 0.71 | 0.70 | 0.70 | 0.68 | 0.66 | 0.64 |
| S30 0.0 | OO SCREENING & CRUSHING PLANTS | | | | | | | | | | | | | | | | | | |
| S30 0. | 0 CONVEYORS | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| S30 0.2 | 20 CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.94 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 |
| S30 0.2 | CRUSHERS - CONE | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.94 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | | Table 3-2 Equip | | n Yea | | , | | | | | Purch | | | | | | | | | |
|------|------|---|------|-------|----------------|------|------|------|---------------|------|-------|------|------|----------------|------|------|------|------|------|------|
| CATE | GORY | REGION 1 | 0 | 1 | <u>13</u> 2 | 3 | 4 | 5 | <u>-</u> 6 | 7 | 8 | 9 | 10 | <u>*</u> 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | | | | 2009 | 2008 | | | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | | 1998 | 1997 |
| S30 | 0.22 | CRUSHERS - JAW | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.97 | 0.94 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 |
| S30 | 0.30 | SCREENING PLANT | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 1.17 | 1.15 | 1.11 | 1.00 | 0.96 | 0.94 | 0.88 | 0.84 | 0.83 | 0.79 | 0.75 | 0.72 | 0.71 | 0.70 | 0.70 | 0.68 | 0.65 | 0.63 |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.83 | 0.78 | 0.76 | 0.74 | 0.74 | 0.73 | 0.72 | 0.70 | 0.68 |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 1.14 | 1.12 | 1.07 | 1.00 | 0.95 | 0.95 | 0.92 | 0.88 | 0.86 | 0.81 | 0.76 | 0.73 | 0.71 | 0.71 | 0.70 | 0.69 | 0.66 | 0.64 |
| T15 | 0.02 | 226 HP THRU 425 HP | 1.13 | 1.11 | 1.06 | 1.00 | 0.95 | 0.96 | 0.92 | 0.89 | 0.87 | 0.83 | 0.78 | 0.75 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 | 0.67 |
| T15 | 0.03 | OVER 425 HP | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.79 | 0.76 | 0.75 | 0.75 | 0.74 | 0.73 | 0.70 | 0.69 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.97 | 0.93 | 0.88 | 0.84 | 0.80 | 0.76 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 | 0.64 | 0.63 |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.84 | 0.79 | 0.76 | 0.72 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 | 0.63 |
| T25 | 0.20 | WHEEL | 1.08 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.88 | 0.84 | 0.79 | 0.76 | 0.72 | 0.70 | 0.69 | 0.67 | 0.66 | 0.64 | 0.62 |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | 0.83 | 0.78 | 0.74 | 0.67 | 0.68 | 0.67 | 0.65 | 0.64 | 0.61 | 0.59 |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 1.07 | 1.06 | 1.03 | 1.00 | 0.97 | 0.96 | 0.93 | 0.87 | 0.83 | 0.78 | 0.74 | 0.67 | 0.68 | 0.67 | 0.65 | 0.64 | 0.61 | 0.59 |
| T40 | 0.00 | TRUCK OPTIONS | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| T40 | 0.20 | DUMP BODY, REAR | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T40 | 0.30 | FLATBEDS, WITH SIDES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| T40 | 0.50 | TRANSIT MIXERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 |

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Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | REGION 1 | Life i | n Yea | <u>rs</u> | - | | | Y | 'ear l | Purch | nased | l Nev | <u>v</u> | | | | | | |
|----------|--|--------|-------|-----------|------|------|------|------|--------|-------|-------|-------|----------|------|------|------|------|------|------|
| CATEGORY | KEGION 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| T40 0.60 | WATER TANKS | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.74 | 0.71 | 0.70 | 0.68 | 0.68 | 0.67 | 0.66 | 0.64 |
| T40 0.70 | ALL OTHER OPTIONS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.86 | 0.82 | 0.76 | 0.73 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| T45 0.00 | TRUCK TRAILERS | | | | | | | | | | | | | | | | | | |
| T45 0.10 | BOTTOM DUMP | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T45 0.20 | END DUMP | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T45 0.30 | PUP TRAILER | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T45 0.41 | LOWBOY, RIGID NECK, DROP DECK | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T45 0.50 | FLATBED TRAILER | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T45 0.60 | MISCELLANEOUS / UTILITY | 1.09 | 1.07 | 1.04 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.84 | 0.78 | 0.75 | 0.74 | 0.73 | 0.73 | 0.72 | 0.71 | 0.69 |
| T45 0.70 | WATER TANKER TRAILER | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.75 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 | 0.64 |
| T45 0.80 | DECONTAMINATION FACILITY | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.74 | 0.71 | 0.70 | 0.68 | 0.68 | 0.67 | 0.66 | 0.64 |
| T45 0.90 | TANK TRAILERS | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.75 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 | 0.64 |
| T50 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | | | | | | | |
| T50 0.01 | 0 THRU 10,000 GVW | 1.13 | 1.11 | 1.07 | 1.00 | 0.96 | 0.94 | 0.89 | 0.85 | 0.82 | 0.78 | 0.74 | 0.72 | 0.71 | 0.69 | 0.69 | 0.71 | 0.69 | 0.69 |
| T50 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 1.13 | 1.10 | 1.07 | 1.00 | 0.96 | 0.94 | 0.89 | 0.85 | 0.82 | 0.78 | 0.74 | 0.72 | 0.71 | 0.69 | 0.69 | 0.71 | 0.69 | 0.70 |
| T50 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 1.12 | 1.10 | 1.07 | 1.00 | 0.97 | 0.94 | 0.89 | 0.85 | 0.82 | 0.78 | 0.74 | 0.72 | 0.71 | 0.69 | 0.69 | 0.71 | 0.69 | 0.70 |
| T55 0.00 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | | | | | | | | |
| T55 0.10 | RIGID FRAME | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.79 | 0.74 | 0.73 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 |
| T55 0.20 | ARTICULATED FRAME | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.78 | 0.74 | 0.73 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 |
| T56 0.00 | TRUCKS,OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | | | | | | | | | | | | | | | | | | |
| T56 0.10 | PRIME MOVER TRACTORS | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.79 | 0.74 | 0.73 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 |
| T56 0.20 | WAGONS, BOTTOM DUMP | 1.06 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.78 | 0.73 | 0.72 | 0.70 | 0.69 | 0.67 | 0.66 | 0.65 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | | Table 3-2 Equipi | | n Yea | | , | | | | | Purch | | | | | | | | | |
|-------|------|--|------|----------------|----------------|------|------|------|---------------|------|-------|------|------|----------------|------|------|------|------|------|------|
| CATEG | ORY | REGION 1 | 0 | <u>11 1 ea</u> | <u>15</u> 2 | 3 | 4 | 5 | <u>-</u> 6 | 7 | 8 | 9 | 10 | <u>v</u> 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| ! | SUB | TYPE OF EQUIPMENT | 2014 | 2013 | | | | 2009 | 2008 | | | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | | 1998 | 1997 |
| T56 | 0.30 | WAGONS, REAR DUMP | 1.06 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | 0.84 | 0.77 | 0.72 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 | 0.65 |
| T57 | 0.00 | TRUCKS, VACUUM | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| T60 | 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 1.06 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | 0.84 | 0.77 | 0.72 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 | 0.65 |
| T65 | 0.00 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | | | | | | |
| T65 | 0.10 | DRIFTING & TUNNELING DRILLS | 1.07 | 1.05 | 1.03 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.80 | 0.74 | 0.68 | 0.63 | 0.62 | 0.56 | 0.55 | 0.54 | 0.53 | 0.52 |
| T65 | 0.20 | TUNNEL BORING MACHINES | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.88 | 0.83 | 0.78 | 0.75 | 0.74 | 0.73 | 0.72 | 0.72 | 0.70 | 0.69 |
| T65 | 0.30 | PRODUCTION DRILLING RIGS | 1.07 | 1.05 | 1.03 | 1.00 | 0.96 | 0.95 | 0.92 | 0.86 | 0.80 | 0.74 | 0.68 | 0.63 | 0.62 | 0.56 | 0.55 | 0.54 | 0.53 | 0.52 |
| T65 | 0.40 | ROADHEADERS & CONTINUOUS MINERS | 1.09 | 1.08 | 1.05 | 1.00 | 0.97 | 0.96 | 0.93 | 0.90 | 0.87 | 0.83 | 0.78 | 0.75 | 0.74 | 0.72 | 0.72 | 0.71 | 0.70 | 0.69 |
| T65 | 0.50 | ROCK BOLTING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| T65 | 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.66 |
| T65 | 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.77 | 0.73 | 0.72 | 0.71 | 0.71 | 0.70 | 0.69 | 0.67 |
| T65 | 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.75 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 | 0.64 |
| T65 | 0.70 | LOCOMOTIVES | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.66 |
| T65 | 0.90 | OTHER TUNNELING EQUIPMENT | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.93 | 0.89 | 0.87 | 0.82 | 0.76 | 0.73 | 0.72 | 0.70 | 0.70 | 0.69 | 0.68 | 0.66 |
| W10 | 0.00 | WAGONS, BOTTOM DUMP | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.78 | 0.74 | 0.73 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 |
| W15 | 0.00 | WAGONS, REAR DUMP | 1.05 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.90 | 0.85 | 0.78 | 0.74 | 0.73 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 |
| W25 | 0.00 | WATER & CO2 BLASTERS | | | | | | | | | | | | | | | | | | |
| W25 | 0.10 | LOW PRESSURE, (< 5,000 PSI) | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.81 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| W25 | 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.81 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| W25 | 0.30 | STEAM CLEANERS | 1.10 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.81 | 0.75 | 0.72 | 0.71 | 0.69 | 0.69 | 0.68 | 0.67 | 0.65 |
| W25 | 0.40 | CO2 BLASTERS | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |
| W25 | 0.50 | WET ABRASIVE BLASTING SYSTEM (TORBO) | 1.12 | 1.10 | 1.06 | 1.00 | 0.96 | 0.95 | 0.91 | 0.87 | 0.84 | 0.79 | 0.72 | 0.68 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 | 0.60 |

Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| | REGION 1 | Life i | n Yea | <u>'s</u> | | • | • | <u>Y</u> | 'ear l | Purch | asec | l Nev | <u>N</u> | • | • | • | | | |
|----------|----------------------|--------|-------|-----------|------|------|------|----------|--------|-------|------|-------|----------|------|------|------|------|------|------|
| CATEGORY | KESION I | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| SUB | TYPE OF EQUIPMENT | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
| W30 0.00 | WATER TANKS | | | | | | | | | | | | | | | | | | |
| W30 0.10 | PORTABLE WITH WHEELS | 1.06 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | 0.84 | 0.77 | 0.72 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 | 0.65 |
| W30 0.20 | SKID MOUNTED | 1.06 | 1.03 | 1.02 | 1.00 | 0.98 | 0.98 | 0.96 | 0.92 | 0.89 | 0.84 | 0.77 | 0.72 | 0.71 | 0.70 | 0.68 | 0.67 | 0.66 | 0.65 |
| W35 0.00 | WELDERS | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | 1.11 | 1.09 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.88 | 0.86 | 0.81 | 0.74 | 0.71 | 0.70 | 0.68 | 0.68 | 0.67 | 0.66 | 0.64 |
| W35 0.20 | ELECTRIC DRIVEN | 1.10 | 1.08 | 1.05 | 1.00 | 0.96 | 0.96 | 0.92 | 0.89 | 0.86 | 0.82 | 0.76 | 0.72 | 0.71 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 |

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 <u>not listed</u> 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 = 2002
 - d. Actual purchase price in 2002 = \$205,000 (includes all regional discounts, sales tax and freight)
 - e. Horsepower is 180 hp (fuel is Diesel off-road)
 - f. Drive tire (DT) size = 23.50×25 , 16 ply, L-3 (appendix F tire code ANNB5) DT cost (2014) = 4 tires x \$4,233/tire = \$16,932
 - g. Weight = 39,200 lbs
- 4. Use the actual cost data as follows:
 - a. Purchase price (TEV) = \$205,000
 - b. Year of manufacture = 2002
- 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)

| a. Equipment Specification Data: (1) Equipment Description: (2) Model and Series: (3) Present Year or Year of Use: (4) Year Manufactured: (5) Horsepower - Equipment: (6) Horsepower - Carrier: (7) Fuel - Equipment: O-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; Enter number from 0 to 6 =>> - Carrier: O-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; Enter number from 0 to 6 =>> (8) Shipping Weight (cwt): (9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F) (a) Front (FT): (b) Drive (DT): (c) Trailling (TT): (d) Total Tire Cost: (10) List Price + Accessories: [at Year (yr) of Manufacture] b. Category and Subcategory Number: (c) Hourly Expense Calculation Factors: (1) Economic Key (EK): (2) Condition (C): A=Average D=Difficult S=Severe (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) File Factor - Equipment (Electric (E) Gas (G) Diesel (D)): (7) Fuel Factor - Carrier (E G D): (8) Front (FT): (9) Tire Waer Factor: (9) Tire Waer Factor: (10) List Price - Accessories: (11) List Price - Accessories: (12) Condition (C): A=Average B=Difficult S=Severe (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) Filter, Oil, and Grease (FOG) Factor (E G D): (9) Tire Wear Factor: (10) Repair Cost Factor (RCF): | 1. | EC | UIPM | ENT INFORMATION AND EXPENSE FAC | CTORS | | ID No: | |
|--|----|------|-------|--|------------------------|-----------------|------------------------|-----------|
| (2) Model and Series: Caterpillar Model 950-G | | a. | Equip | ment Specification Data: | | | | |
| (3) Present Year or Year of Use: 2014 (4) Year Manufactured: 20002 (5) Horsepower - Equipment: 1880 (6) Horsepower - Carrier: 0 | | | (1) | Equipment Description: | Loader, Fron | t-end, Wheel, 4 | 4WD, 3.5 CY capacity | |
| (4) Year Manufactured: 2002 (5) Horsepower - Equipment: 180 (6) Horsepower - Carrier: 0 | | | (2) | | Caterpillar M | odel 950-G | | |
| (5) Horsepower - Equipment: (6) Horsepower - Carrier: 0 0 (7) Fuel - Equipment: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - None | | | (3) | Present Year or Year of Use: | | | | 2014 |
| (6) Horsepower - Carrier: (7) Fuel - Equipment: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel - Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel (8) Shipping Weight (cwt): (9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F) Size/Ply | | | (4) | | | | | 2002 |
| (7) Fuel - Equipment: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; Finter number from 0 to 6 ==> 3 | | | | | - | | | 180 |
| Soliesel of Froat, 4-diesel on-road; 5-marine gas; 6-marine diesel Carrier: 0-None; 1-electric; 2-gasoline; 3-diesel of Froad; 4-diesel on-road; 5-marine gas; 6-marine diesel O | | | | · | | | | 0 |
| Shipping Weight (cwt): Shipping Weight (cwt): Size/Ply App F Code No. | | | (7) | 3-diesel off-road; 4-diesel on-road; 5-r | • | | 3 | D-off |
| (9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F) Size/Ply | | | | 3-diesel off-road; 4-diesel on-road; 5-r | | | 0 | None |
| Size/Ply | | | (8) | Shipping Weight (cwt): | | | | 392 cwt |
| Size/Ply | | | | | | | _ | |
| (b) Drive (DT): 23.5X25/16Ply ANNB5 4 \$4,233 \$16,932 (c) Trailing (TT): 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ | | | (9) | Size/Ply | | <u>No.</u> | Unit Price | Cost |
| (c) Trailing (TT): (d) Total Tire Cost: (10) List Price + Accessories: [at Year (yr) of Manufacture] \$0 OR actual purchase price: \$205,000 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): A=Average D=Difficult S=Severe (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) Filter, Oil, and Grease (FOG) Factor (E G D): (9) Tire Wear Factor: (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): | | | | | ANNR5 | | | |
| (d) Total Tire Cost: (10) List Price + Accessories: [at Year (yr) of Manufacture] \$0 OR actual purchase price: \$205,000 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): A=Average D=Difficult S=Severe (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) Filter, Oil, and Grease (FOG) Factor (E G D): (9) Tire Wear Factor: (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): | | | | • | 7111120 | | | |
| (10) List Price + Accessories: [at Year (yr) of Manufacture] \$0 OR actual purchase price: \$205,000 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 | | | | | | | | |
| USE APPENDIX D TO COMPLETE THE FOLLOWING DATA: L40 0.11 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) | · , | | | = | · -, |
| b. Category and Subcategory Number: c. Hourly Expense Calculation Factors: (1) Economic Key (EK): (2) Condition (C): A=Average D=Difficult S=Severe (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) Filter, Oil, and Grease (FOG) Factor (E G D): (9) Tire Wear Factor: (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): | | | , | | \$0 | OR | actual purchase price: | \$205,000 |
| b. Category and Subcategory Number: c. Hourly Expense Calculation Factors: (1) Economic Key (EK): (2) Condition (C): A=Average D=Difficult S=Severe (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) Filter, Oil, and Grease (FOG) Factor (E G D): (9) Tire Wear Factor: (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): | US | SE A | PPEN | DIX D TO COMPLETE THE FOLLOWING | DATA | | | |
| c. Hourly Expense Calculation Factors: 45 (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: 0.83 (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | | | | | L40 | 0.11 |
| (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: 0.83 (a) Front (FT): 0.83 (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | | | | | | - |
| (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) Filter, Oil, and Grease (FOG) Factor (E G D): (9) Tire Wear Factor: (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): B 0.075 9.250 0.025 0.031 | | | | | | | | 45 |
| (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: 0.83 (a) Front (FT): 0.83 (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | (2) | Condition (C): A=Average D=Difficult S=S | Severe | | A | AVERAGE |
| (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: 0.83 (a) Front (FT): 0.54 (b) Drive (DT): 0.92 | | | (3) | Discount Code (DC): $\mathbf{B} = 7.5\%$ (0. | .075) or S = 15 | 5.0% (0.15) | В | 0.075 |
| (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: 0.83 (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | (4) | | | | | |
| (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: 0.83 (a) Front (FT): 0.54 (b) Drive (DT): 0.92 | | | (5) | | | | | 0.25 |
| (8) Filter, Oil, and Grease (FOG) Factor (E G D): 0.111 (9) Tire Wear Factor: 0.83 (a) Front (FT): 0.83 (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | | | s (G) Diesel (I | D)]: | | |
| (9) Tire Wear Factor: (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): (d) Trailing (TT): (e) Trailing (TT): | | | . , | | | | | |
| (a) Front (FT): 0.83 (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | | | G D): | | | 0.111 |
| (b) Drive (DT): 0.54 (c) Trailing (TT): 0.92 | | | (9) | | | | | 0.00 |
| (c) Trailing (TT): | | | | * | | | | |
| | | | | | | | | |
| (10) Repail Cost Factor (RCF): 0.70 | | | (40) | | | | | |
| | | | (10) | Repail Cost Factor (RCF): | | | | 0.70 |

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

2. EQUIPMENT VALUE

| a. | . List Price + Accessories: | [at Year (yr) of Mar | nufacture] | | | | = | \$0 |
|--------------------------|---|--|--|-------|-------------------------|----------|----|------------------|
| | (1) Discount: | (List Price {1.a.(10)} | + Accessories |) x | Discount {1.c.(3)} | | | |
| | | <u>(\$0</u> | + \$0.00) | х | <u>0.075</u> | | = | - [\$0 <u>]</u> |
| | (2) Subtotal {2.a.} - {2.a.(1)} | | | | | Subtotal | =_ | \$0 |
| | (3) Sales or Import Tax: | Subtotal {2.a.(2)} | x | | Tax Rate {Appendix B} | | | |
| | | <u>\$0</u> | Х | | 6.00% | | = | \$0 |
| | (4) Total Discounted Pric | e: {Subtotal: 2.a.(2) |) + 2.a.(3)} | | | Subtotal | =_ | \$0 |
| | | | | | Freight Rate | | | |
| b. | . Freight: | Shipping Weight {1.a.(8)} | t x | | per cwt {Appendix B} | | | |
| | | 0,000 cwt | х | | \$0.00 /cwt | | = | \$0 |
| C. | . TOTAL EQUIPMENT VA {2.a.(4)} + {2.b} OR ac | LUE (TEV): tual purchase price {1a. | (10)) | | TOTAL[2.]: | | =_ | \$205,000 |
| 3. <u>D</u> | (See chapter 3 for used and | overage equipment ra | | | | | | |
| 3. <u>D</u> | (See chapter 3 for used and SEPRECIATION PERIOD (No. LIFE | overage equipment ra | ate adjustments.) j Hours Per Yea | r (Wŀ | HPY) | | = | N |
| | (See chapter 3 for used and PEPRECIATION PERIOD (No. LIFE {1.c.(4)} | overage equipment ra | ate adjustments.) Hours Per Yea {Appendix B} | | HPY) | | = | |
| a. | (See chapter 3 for used and SEPRECIATION PERIOD (No. LIFE | overage equipment re Working | ate adjustments.) j Hours Per Yea | | HPY) | | = | N 6.80 yrs |
| a. 4. <u>O</u> | (See chapter 3 for used and EPRECIATION PERIOD (No. LIFE (1.c.(4)) 9,250 hr | overage equipment re Working | Hours Per Yea {Appendix B} 1,360 hr/yr ent Year or Yea Jse .(3)} , EK=100 | | HPY) | | = | |

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

Region 01

4. OWNERSHIP COST (Continued)

| | | | _ | | | | |
|---|------------|---------|--------|----------|-----|--------|----|
| h | Facilities | Canital | Cost o | if Mone\ | / 1 | (FCCM) | ٠. |
| | | | | | | | |

| (1) | [(N - 1.0) {3.a.} | х | (1.0 + SLV) {1.c.5.} | + | 2.0] | / | (2.0 x N) {3.a.} | = | Avg Value Factor (AVF) |
|-----|-----------------------|---|-------------------------|---|---|---|----------------------|----|------------------------------|
| | [(6.80 yr - 1.0) | х | (1.0 + 0.25) | + | 2.0] | / | (2.0 x 6.80 yr) | =_ | 0.680 |
| (2) | TEV {2.c.} | x | AVF {4.b.(1)} | x | Adjusted Cost-of-Money {Appendix B} | / | WHPY {Appendix B} | | |
| | \$205,000 | Х | <u>0.680</u> | х | <u>1.70%</u> | / | 1,360 hr/yr | =_ | \$1.74 /hr |

c. TOTAL HOURLY OWNERSHIP COST:

{4.a.(2)} + {4.b.(2)}

5. OPERATING COST

- a. Fuel Costs:
 - (1) Equipment:

| Fuel Factor {1.c.(6)} | x | Horsepower (hp) {1.a.(5)} | x | Fuel Cost per Gallon (gal) {Appendix B} | |
|---|---|---------------------------|---|---|------------|
| 0.000 | Х | <u>0 hp</u> | X | <u>\$0.00 /gal</u> = | \$0.00 /hr |
| (2) Carrier: | | | | | |
| Fuel Factor {1.c.(7)} | х | hp {1.a.(6)} | Х | Fuel Cost per gal {Appendix B} | |
| 0.000 | х | <u>0 hp</u> | X | <u>\$0.00 /gal</u> = | \$0.00 /hr |
| (3) Total Hourly Fuel {5.a (1)} + {5.a (2) | | | | Total [5.a.] = | \$0.00 /hr |

- b. FOG Cost:
 - (1) Equipment:

| | Ec | uipment Hourly Fo | uel | Labor Adjustment |
|------------|----|-------------------|-----|-----------------------------|
| FOG Factor | Х | Cost | Х | Factor (LAF) |
| {1.c.(8)} | | {5.a.(1)} | | {Appendix B} |
| 0.000 | Х | \$0.00 /hr | Х | $0.00 = \frac{0.00 / hr}{}$ |

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

TOTAL [4.]: = \$17.26 /hr

5. **OPERATING COST** (Continued)

(2) Carrier:

| | | FOG Factor {1.c.(8)} 0.000 | x x | Carrier Hourly Fuel Cost {5.a.(2)} \$0.00 /hr | x x | LAF {Appendix B} <u>0.00</u> | | | | | = | \$0.00 /hr |
|----|------|---|--------------|--|--------|------------------------------------|---|-----------------|---|-------------------|------------|------------|
| | (3) | Total Hourly FO {5.b.(1)} + {5.b.(2)} | G Co | st: | | | | | | Total [5.b. |] = | \$0.00 /hr |
| C. | Alte | ernative Fuel/FOG (See chapter 2, para | | st: 2.24.d. for guidance on whe | n to u | se.) | | | | Total [5.c. |] = | \$0.00 hr |
| d. | Rep | pair Cost: | | | | | | | | | | |
| | (1) | Economic Adjus EK is from {1.c.(1)} | tmen | t Factor (EAF): | | | | | | | | |
| | | Economic Index Present Year of Year of Appendix E, EK={1.c.(1)} | | Economic Index, Year of Manufacture, {1.a.(4)} Appendix E, EK={1.c.(1)} | | | | | | | | |
| | | 0000 (See table 3-1 for las | / st year | 0000 of economic life.) | | | | | | | = | 0.000 |
| | (2) | Repair Factor (F | RF): | | | | | | | | | |
| | | RCF {1.c.(10)} <u>0.00</u> | x x | EAF {5.d.(1)} <u>0.000</u> | x x | LAF {Appendix B} 0.00 | | | | | = <u> </u> | 0.000 |
| | | | | | | | | | | | | |
| | (3) | Repair Cost: | | | | | | | | | | |
| | | [TEV {2.c.} | - | (TCI {4.a.(1)} | X | Tire Cost)] {1.a.(9)(d)} | Х | RF {5.d.(2)} | / | LIFE {1.c.(4)} | | |
| | | [\$0 | - | (0.000 | Х | <u>\$0)]</u> | х | | / | <u>0</u> | | |
| | (4) | Total Hourly Re | oair C | Cost: | | | | | | Total [5.d. |] = | \$0.00 /hr |

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

5. OPERATING COST (Continued)

| e. | Tire \ | Wear Cost: (Use current | price | e levels. See Appendix F | . .) | | | |
|----|--------|--|-------|------------------------------------|-----------------|--|----|-----------|
| | (1) | Front Tires (FT): | | | | | | |
| | | (1.5 x FT Cost) {1.a.(9)(a)} | / | (1.8 x FT Wear Factor {1.c.(9)(a)} | х | Maximum Tire Life Hours) {Appendix F} | | |
| | | (1.5 x \$0) | / | (1.8 x 0.00 | x | <u>0 hrs)</u> | =_ | \$0.00/hr |
| | (2) | Drive Tires (DT): | | | | | | |
| | | (1.5 x DT Cost) {1.a.(9)(b)} | / | (1.8 x DT Wear Factor {1.c.(9)(b)} | Х | Maximum Tire Life Hours) {Appendix F} | | |
| | | (1.5 x (\$0) | / | (1.8 x 0.00 | Х | <u>0 hrs</u> | =_ | \$0.00/hr |
| | (3) | Trailing Tires (TT): | | | | | | |
| | | (1.5 x TT Cost) {1.a.(9)(c)} | / | (1.8 x TT Wear Factor {1.c.(9)(c)} | х | Maximum Tire Life Hours) {Appendix F} | | |
| | | (1.5 x \$0) | / | (1.8 x 0.00 | x | <u>0 hr)</u> | =_ | \$0.00/hr |
| | (4) | Total Tire Wear Cost: Sum {5.e.(1)} through {5.e.(3)} | + | | | Total [5.e.] | =_ | \$0.00/hr |
| f. | Tire I | Repair Cost: | | | | | | |
| | | Total Tire Wear Cost per Hour {5.e.(4)} | х | (0.15 x LAF) {Appendix B} | | | | |
| | | \$0.00/hr | X | (0.15 x 0.00) | | Total [5.f.] | =_ | \$0.00/hr |
| | | | | | | | | |
| g. | | AL HOURLY OPERATIN | G C | OST: | | Total [5.] | =_ | \$0.00/hr |
| | 8 | um {5.a.} through {5.f.} | | | | | | |

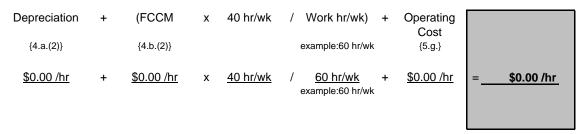
Figure 3-2. Total Hourly Rate Calculation for Overage Equipment Page 5 of 6

6. HOURLY RATES

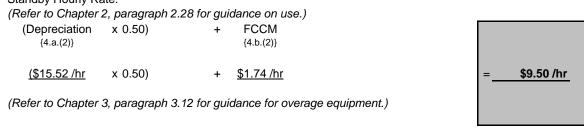
a. Total Hourly Rate: [based on 40 hours per week (wk)]

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.)



c. Standby Hourly Rate:



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 <u>Contents</u>. This chapter contains the methodology used to compute ownership and operating rates for dredging plant and permanent floating plant such as floating piledriving 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. The internet locations for downloading these documents are provided in Appendix A. 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 <u>Time Available to Dredge</u>. The number of months available per calendar year (yr) for dredging shall be based on the work time <u>available</u> 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) | | | | | | | | | | |
|---|-----------------|--------|---------------|--|--|--|--|--|--|--|
| Type of Dredging Operation | | | | | | | | | | |
| Region | <u>Pipeline</u> | Bucket | <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 <u>Life</u>. 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 <u>Annual Hours Available</u>. 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:

Available Hours per yr = Months Available/yr x 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 <u>Salvage Value (SLV)</u>. 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 1 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 upgrade of 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 distributed over a monthly basis. The monthly rate is calculated based on the available use months by using the following formula:

Monthly Ownership Cost = Plant Value x (Yearly DEPR Percent + Yearly CMR Percent)

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 <u>Depreciation Factor</u>. 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:

Where:

- a. N = Useful Life from table 4-1.
- b. SLV = Salvage Value from table 4-1.
- 4.9 <u>The Cost of Money Rate (CMR) Factor</u>. 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:

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

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 <u>Hourly Operating Cost</u>. 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 <u>Prime and Secondary Power</u>. 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 costs are calculated separately for the primary and secondary engines. The formula used is expressed as follows:

Hourly Fuel Cost = Horsepower x Fuel Cost/Gallon x Engine Fuel Factor

Where:

- a. Horsepower is the engines 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 <u>Water, Lube, and Supplies (WLS)</u>. 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 <u>does not include</u> an allowance for the oiler normally assigned to the dredge or other piece of dredging plant. The formula is expressed as follows:

Water, Lube, and Supply Cost = WLS factor x 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 <u>Repair Factor (RPR)</u>. This factor includes an allownce 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:

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

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 <u>does not include</u> 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 <u>Standby Rate</u>. 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 cost are as follows: a generator fuel allowance to account for operation of a diesel engine generator for power to operate pumps; navigation lights; minimum crew; *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 <u>Rates</u>. 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 <u>Allowance for Additional Capital Improvements</u>. 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 <u>Dredging Plant Purchased Used</u>. 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 <u>Rate Calculation Example</u>. 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 1.70 percent.

Table 4-1. Dredging Plant Cost Factors

| | Useful | Physical | Salvage | ı | Prime Eng | | | ondary Er | | | LS | RPR |
|------------------------------|--------|----------|---------|-----|-----------|-------|-----|------------|-------|----|----|-----|
| Type of Plant | Life | Life | Value | | Fuel Fact | | | Fuel Facto | | | % | % |
| | YRS | HR | SLV | HPF | G | D | HPF | G | D | G | D | |
| Hydraulic Dredges - Pipeline | | | | | | | | | | | | |
| (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 |
| Barge Mounted Booster Pump | | | | | | | | | | | | |
| (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)

| | | 14616 1 11 | Breaging . | idiii C | 0011 001 | 0.0 (00 | a.a.a. _/ | | | | | |
|---|--------|------------|----------------|---------|-----------|----------------|---------------------|------------|-------|-----|----|-----|
| | Useful | Physical | Salvage | | Prime Eng | ine | Sec | condary Er | ngine | WLS | | RPR |
| Type of Plant | Life | Ĺife | Value | | Fuel Fact | | | Fuel Facto | - | 9 | % | % |
| | YRS | HR | SLV | HPF | G | D | HPF | G | D | G | D | |
| Mechanical Dredges (Large) ¹ | | | | | | | | | | | | |
| 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 |
| Barge Mounted Crane with | | | | | | | | | | | | |
| Clamshell Bucket | | | | | | | | | | | | |
| Non - Dredging | | | | | | | | | | | | |
| 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 |
| Barge Mounted Lifting Crane | | | | | | | | | | | | |
| 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 |
| , | | 12,000 | 0.00 | | 0.010 | 0.022 | | 0.000 | 0.017 | | | 100 |
| Barges (Used with Dredging) | | | | | | | | | | | | |
| 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 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

RPR = Repairs

WLS = Water, Lube and Supplies RF

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

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

| Table 4-1. Dredging Flant Cost Factors (Continued) | | | | | | | | | | | | |
|--|--------|----------|---------|-----|-----------|-------|----------|------------|-------|----------|-----|-----|
| | Useful | Physical | Salvage | F | Prime Eng | ine | Sec | ngine | W | LS | RPR | |
| Type of Plant | Life | Life | Value | | Fuel Fact | | | Fuel Facto | or | 9 | % | |
| | YRS | HR | SLV | HPF | G | D | HPF | G | D | G | D | |
| Boats – See Category M10 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Tugs and Tenders | | | | | | | | | | | | |
| (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 70 | 0.072 | 0.039 | 32 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 |
| | | | | | | | | | | | | |
| Pipeline and Accessories | | | | | | | | | | | | |
| (Inland Environment) | | | | | | | | | | | | |
| , | | | | | | | | | | | | |
| Metal Pipeline (under 20 inch) | | | | | | | | | | | | |
| 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 |
| Metal Pipeline (20 inch and | | | | | | | | | | | | |
| Larger) | | | | | | | | | | | | |
| 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 | ő | 0.000 | 0.000 | Ö | 0.000 | 0.000 | 0 | Ö | 5 |
| Pumping Rock (Gravel) | 0.5 | 2,000 | 0.10 | Ö | 0.000 | 0.000 | Ö | 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)

| | | Table + 1. | <u> </u> | iant O | | 0.0 (00 | | | | | | |
|--|-------------------------|---|--------------------------------------|------------------|---|---|------------------|---|---|------------------|------------------|-----------------------|
| Type of Plant | Useful Life | Physical Life | Salvage Value | ı | Prime Eng Fuel Fact | | | condary Er Fuel Facto | | WLS % | | RPR % |
| Typo or Frank | YRS | HR | SLV | HPF | G | D | HPF | G | D | G | D | 70 |
| Pipeline and Accessories (Ocean Environment) | | | | | | | | | | | | |
| Metal Pipeline (All sizes) Pumping Mud Pumping Sand Pumping Rock (Gravel) Joints Pontoons/Floats | 2 1 0.3 1 2 | 9,000 4,500 1,500 4,500 9,000 | 0.40 0.40 0.40 0.40 0.40 | 0 0 0 0 | 0.000 0.000 0.000 0.000 0.000 | 0.000 0.000 0.000 0.000 0.000 | 0 0 0 0 | 0.000 0.000 0.000 0.000 0.000 | 0.000 0.000 0.000 0.000 0.000 | 0 0 0 0 | 0 0 0 0 | 5 5 5 5 5 |
| Metal Pipeline On-Shore Pumping Mud Pumping Sand Pumping Rock (Gravel) | 3 1.5 0.5 | 12,000 6,000 2,000 | 0.10 0.10 0.10 | 0 0 0 | 0.000 0.000 0.000 | 0.000 0.000 0.000 | 0 0 0 | 0.000 0.000 0.000 | 0.000 0.000 0.000 | 0 0 0 | 0 0 0 | 5 5 5 |
| | | | | | | | | | | | | |

Standby Calculation: Standby for pipeline and accessories shall be based on pumping mud.

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

| Re | gion | า 01 | | ID No: | | | | | | | |
|----|------|------|-----------------------------------|-------------------------------------|---------------|--|--|--|--|--|--|
| 1. | MA | RINE | AND DREDGING PLANT INFORM | MATION AND EXPENSE FACTORS | | | | | | | |
| | a. | Plan | t Pertinent Data: | | | | | | | | |
| | a. | (1) | Equipment Description: | 24" Hydraulic Cutter Suction Dredge | | | | | | | |
| | | (2) | Model and Series: | Ellicott Series 4900 Super Dragon | | | | | | | |
| | | (3) | Present Year or Year of Use: | | 2014 | | | | | | |
| | | (4) | Acquisition Year: | | 1997 | | | | | | |
| | | (5) | Horsepower (hp) - Prime | | 3,730 hp | | | | | | |
| | | (6) | Horsepower (hp) - Secondary Eng | gine | <u> </u> | | | | | | |
| | | | (a) Electrical Generators | | 200 hp | | | | | | |
| | | | (b) Hydraulic System | | 1,325 hp | | | | | | |
| | | | (c) Cutter Head Drive | | 750 hp | | | | | | |
| | | | (d) Hydraulic Water Jet | | 200 hp | | | | | | |
| | | | Total Seco | ondary hp | 2,475 hp | | | | | | |
| | | (7) | Plant Value: | | | | | | | | |
| | | | (a) Acquisition Costs | | \$4,500,000 | | | | | | |
| | | | (b) Capital Improvements | | \$0 | | | | | | |
| | | | Total Plan | t Value | \$4,500,000 | | | | | | |
| | | (8) | Hours Worked per Month (Effective | re Time) | 500 hrs/mo | | | | | | |
| | | (9) | Additive Item(s) (Monthly Costs T | o be Estimated) | | | | | | | |
| | | () | (a) Excessive Dredge Wear (Gra | | \$8,000 /mo | | | | | | |
| | | | (b) | | \$0 /mo | | | | | | |
| | | | (c) | | \$0 /mo | | | | | | |
| | | | (d) | | \$0 /mo | | | | | | |
| | | | (e) | | \$0 /mo | | | | | | |
| | | | | Total Additive Items | \$8,000 /mo | | | | | | |
| | b. | Appe | endix B, Area Factors Data | | | | | | | | |
| | | (1) | Labor Adjustment Factor (LAF) | | 1.15 | | | | | | |
| | | (2) | Fuel type | | Marine Diesel | | | | | | |
| | | | Fuel Cost Per Gallon | | \$3.11 | | | | | | |
| | | (3) | Cost of Money Rate (undiscounted | d) | 2.125% | | | | | | |
| | | (4) | Cost of Money Rate (discounted) | | 1.700% | | | | | | |
| | c. | Appe | endix E, Economic Index Data (EK | 105) | | | | | | | |
| | | (1) | Economic Index, Acquisition Year | | 5429 | | | | | | |
| | | (2) | Economic Index, Present Year or | | 8515 | | | | | | |
| | | | | | | | | | | | |

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

| 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 (9 months is used for this example) 9 months/yr | | | | | | | | | | |
| | e. Table 4-1, Dredging Plant Cost Factors Data 25 yrs (1) Useful Life (in Years) for Ownership (N) 25 yrs (2) Physical Life (in Hours) for Repairs 130,000 hrs (3) SLV (Salvage Value Factor) 0.10 (4) Prime Engine Fuel Factor (gal/bhp-hr) 0.045 (5) Secondary Engine Fuel Factor (gal/bhp-hr) 0.039 (6) WLS (Water, Lube & Supplies Factor) percent 22% (7) RPR (Repair Cost Factor) 1.30 | | | | | | | | | | |
| 2. | ANNUAL OWNERSHIP PERCENTAGE FACTORS | | | | | | | | | | |
| | a. Depreciation Percent Per Year (DEPR) | | | | | | | | | | |
| | 1.0 - SLV / N {1.e.(3)} {1.e.(1)} 1.0 - 0.10 / 25 yrs = 3.60% /yr | | | | | | | | | | |
| | b. Facilities Capital Cost of Money Percent Per Year (FCCM) Discounted Money | | | | | | | | | | |
| | (N-1) x (1+SLV)+2 x Rate / 2N {1.e.(1)} {1.e.(3)} {Appendix B} {1.e.(1)} | | | | | | | | | | |
| | (25-1) x $(1+0.10) + 2$ x $1.700%$ / 50.00 = $0.97% / yr$ | | | | | | | | | | |
| | c. Total Ownership Percent Per Year (DEPR + FCCM) = 4.57% /yr | | | | | | | | | | |
| 3. | OWNERSHIP COSTS | | | | | | | | | | |
| | a. Ownership per Year $ \begin{array}{ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | |
| | b. Monthly Ownership Expense | | | | | | | | | | |
| | Ownership per Year / Months Available per Year {3.a.} {1.d.(1)} \$205,650.00 /yr / 9 months/yr rounded = \$22,850.00 /mo | | | | | | | | | | |

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

4. OPERATING COSTS

| a. | Fuel Cost (1) Prime Engine F | - Tuel | | | | | | | | |
|----|---------------------------------------|--|------|------------------|---|---------------|-------------|-----|-----|--------------|
| | , | | | | | Fuel Cost | | | | |
| | | Fuel Factor | Х | HP | Χ | per Gallon | | | | |
| | | {1.e.(4)} | | {1.a.(5)} | | {1.b.(2)} | | | | ΦΕΩΩ Ω4 /h |
| | | 0.045 gal/bhp-hr | Х | <u>3,730</u> | Х | <u>\$3.11</u> | | | =_ | \$522.01 /hr |
| | (2) Secondary Eng | ine Fuel | | | | | | | | |
| | (_) | , | | | | Fuel Cost | | | | |
| | | Fuel Factor | х | HP | Х | per Gallon | | | | |
| | | {1.e.(5)} | | {1.a.(6)} | | {1.b.(2)} | | | | |
| | | 0.039 gal/bhp-hr | Х | <u>2,475</u> | Х | <u>\$3.11</u> | | : | =_ | \$300.19 /hr |
| | (3) Total Fuel (Prim | ne Engine Fuel + Second | dan | / Engine Fuel) | | | | | _ | \$822.20 /hr |
| | (3) Total Fuel (Fill) | ne Engine Fuel + Second | Jaiy | / Engine Fuel) | | | | | | φο22.20 /111 |
| b. | Water, Lube, and S (1) Prime Engine V | | | | | | | | | |
| | , | WLS Factor | х | Hourly Fuel Cost | | | | | | |
| | | {1.e.(6)} | | {4.a.(1)} | | | | | | |
| | | <u>0.22</u> | Х | \$522.01 /hr | | | | | = _ | \$114.84 /hr |
| | (2) Secondary Eng | uino M/I S | | | | | | | | |
| | (2) Secondary Eng | WLS Factor | х | Hourly Fuel Cost | | | | | | |
| | | {1.e.(6)} | ^ | {4.a.(2)} | | | | | | |
| | | 0.22 | х | \$300.19 /hr | | | | | = _ | \$66.04 /hr |
| | | | | | | | | | | |
| | (3) Total Fuel (Prin | ne Engine WLS + Secon | dar | y Engine WLS) | | | | | =_ | \$180.88 /hr |
| c. | Repair Cost | | | | | | | | | |
| | (4) Francis Adio | -t | | | | | | | | |
| | (1) Economic Adjus | stment Factor (EAF) Economic Index for | | Economic Index | | | | | | |
| | | Present Year or | | for Acquisition | | | | | | |
| | | Year of Use | / | Year | | | | | | |
| | | {1.c.(2)} | | {1.c.(1)} | | | | | | |
| | | <u>8515</u> | / | <u>5429</u> | | | | : | =_ | 1.568 |
| | (2) Repair Cost | | | | | | | | | |
| | Total Plant | | | | | | | | | |
| | Value | x RPR | х | EAF | х | LAF | / Life in F | Irs | | |
| | {1.a.(7)} | {1.e.(7)} | | {4.c.(1)} | | {1.b.(1)} | (1.e.(2) | | | |
| | \$4,500,000 | x <u>1.30</u> | х | <u>1.568</u> | Х | <u>1.15</u> | / 130,00 | | =_ | \$81.14 /hr |
| | | | | | | | | | | |

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

Region 01

4. OPERATING COSTS (Continued) d. Total Hourly Operating Cost (Fuel + WLS + Repairs) Fuel WLS Repairs {4.a.(3)} {4.b.(3)} {4.c.(2)} \$822.20 /hr \$180.88 /hr \$81.14 /hr \$1,084.22 /hr e. Monthly Operating Cost **Total Hourly** Hrs Worked per **Operating Cost** Мо $\{4.d.\}$ {1.a.(8)} \$542,110.00 /mo \$1,084.22 /hr 500 hrs/mo rounded = 5. TOTAL MONTHLY RATE \$22,850.00 /mo a. Ownership {3.b.} b. Operating {4.e.} \$542,110.00 /mo c. Total Estimated Additive Items {1.a.(9))} \$8,000.00 /mo d. TOTAL MONTHLY RATE \$572,960.00 /mo {5.a.} + {5.b.} + {5.c.} STANDBY ALLOWANCE a. Standard Hourly Standby Expense Maximum Monthly hrs/mo = 30.4Ownership days/mo x 24 Expense hrs/day ${3.b.}$ \$22,850.00 /mo 730 hrs/mo \$31.30 /hr b. Generator Fuel Allowance for Dredge (An additional generator fuel allowance may be allowed under certain circumstances. This allowance is applicable to dredges only.) **Total Secondary** Secondary Fuel Generator HP HP Cost Х {1.a.(6)} {4.a.(2)} {1.a.} 200 hp 2,475 hp \$300.19 \$24.26 /hr c. TOTAL HOURLY STANDBY ALLOWANCE FOR DREDGE Generator Fuel Standby Expense + Allowance $\{6.b.\}$

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

\$24.26 /hr

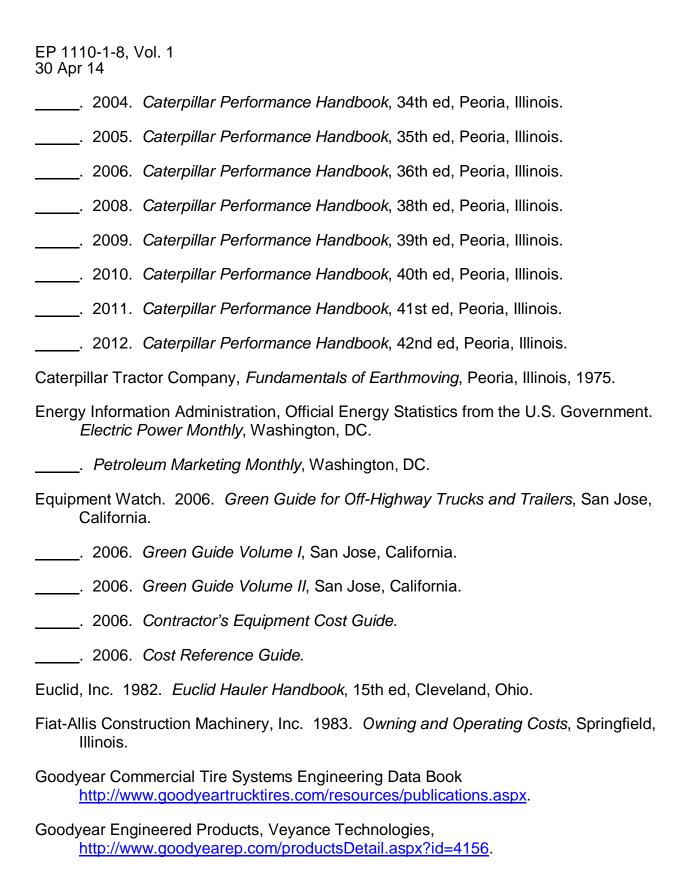
\$55.56 /hr

\$31.30 /hr

APPENDIX AREFERENCES

SECTION I: REQUIRED PUBLICATIONS

| Public Law 92-41. Renegotiation Act of 1971 [PL 92-41 (85 Stat. 97)]. |
|--|
| Federal Acquisition Regulation 15.4 <i>Contract Pricing</i> , 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. |
| Engineer Regulation 1110-2-1302. 2008. Engineering and Design - Civil Works Cost Engineering, U.S. Army Corps of Engineers. |
| U.S. Department of Labor, Bureau of Labor Statistics. <i>Producer Prices and Price Indexes,</i> Government Printing Office, Washington, DC. |
| SECTION II: RELATED PUBLICATIONS |
| 2000. Caterpillar Performance Handbook, 31st ed, Peoria, Illinois. |
| 2001. Caterpillar Performance Handbook, 32nd ed, Peoria, Illinois. |



International Harvester, Pay Line Division. 1975. *Earthmoving Principles*, Schaumburg, Illinois.

Koehring Company. 1981. *Application Manual for Hydraulic Excavators and Shovels*, 1st ed, Milwaukee, Wisconsin.

Mitchell Industrial Tire Company (MITCO), www.mitco.com.

Nichols, H L Jr. 2005. *Moving the Earth*, 5th ed, McGraw-Hill Professional; 5 edition (March 28, 2005).

R S Means Company, Inc. 2013. *Labor Rates for the Construction Industry*, 40th ed., Kingston, Massachusetts.

Terex Corporation. 1981. Production and Cost Estimating of Material Movement with Earthmoving Equipment, Hudson, Ohio.

TITAN Tire Corporation, Tire Catalog, http://www.titanstore.com/.

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
Maine
Pennsylvania
Massachusetts
Rhode Island
New Hampshire
Vermont

New Jersey

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)

Kentucky (East of U.S. Highway 51)

Indiana

Ohio

Virginia

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° -

Florida 30'00")

Georgia North Carolina
Louisiana South Carolina
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 DakotaMichigan (Upper Peninsula)South DakotaMinnesotaWisconsinMontanaWyoming

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 Oklahoma Texas

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 <u>Region X</u>, 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 states:

Puerto Rico

EP 1110-1-8, Vol. 1 30 Apr 14

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 states:

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 <u>FAR Part 49</u>.
- (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 <u>FAR 31.105(d)(ii)</u> and <u>FAR 31.205-36</u>, <u>Rental Costs</u>. 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.

SECTION IV: USACE ACQUISITION INSTRUCTIONS (Continued)

(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.

EFARS PART 31 - CONTRACT COST PRINCIPLE AND PROCEDURES

SUBPART 31.1 -- APPLICABILITY

31.105 Construction and Architect-Engineer Contracts.

(d)(2)(i)(b) In this case, equipment ownership and operating costs shall be determined using the Construction Equipment Ownership and Operating Expense Schedule published by the U.S. Army Corps of Engineers.

31.105-100 Contract Statement.

The contracting officer shall insert the statement at 52.231-5000 in all solicitations and contracts for construction within the United States that are expected to exceed the small purchase threshold.

EFARS Clause - 52.231-5000 Equipment Ownership and Operating Expense Schedule.

As prescribed in 31.105-100, insert the following clause in all solicitations and contracts for construction that are expected to exceed the small purchase threshold.

EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE (MAR 1995) – EFARS.

- (a) This clause does not apply to terminations. See 52.249-5000, *Basis for Settlement of Proposals*, and FAR Part 49, *Termination of Contracts*.
- (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, Construction and Architect-Engineer Contract, 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 or unaffiliated lessees.

(d) When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, 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 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". The direct link to the current edition is: http://publications.usace.army.mil/publications/eng-pamphlets/EP 1110-1-8/toc.html.

Compact disks (CDs) are developed and distributed to a pre-publication mailing list, a limited number of additional CDs are produced and available upon request.

Requests for CDs may be placed by sending an e-mail to <u>CENWW-COST@usace.army.mil</u>. 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. 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 EP1110-1-8 are available at: http://www.nww.usace.army.mil/Missions/CostEngineering/Historical.aspx.

To download the CHECKRATE workbook the direct link is: http://www.nww.usace.army.mil/Portals/28/docs/costengineering/CheckRate04v06r1.xls.

| | | | ID No.: | | |
|--|--|--|--|--|-------------------------|
| a. Ec (1) (2) (3) (4) (5) (6) (7) | Model and Series: Year of Use: Year Manufactured: Horsepower - Equ Horsepower - Car Fuel type: - Equ | ion: lipment: rier: lipment: gas/die rier: gas/diesel | sel off-road/diesel off-road/diesel on- | on-road/electric/air road/electric/air year of use – see 1.a | |
| | (a) Front (FT): (b) Drive (DT): (c) Trailing (TT): | <u>No.</u> | Size/Ply | <u>Unit Price</u> \$\$ \$\$ | <u>Cost</u> \$ \$ |
| | (d) Total Tire Cost: | | | | \$ |
| | (d) Total Tire Cost: NDIX D TO COMPLET ategory and Subcatego | | | | \$ |

| 2. | EQU | IPMENT VALUE | |
|-------|------------|---|-------------------------|
| | a. | List Price + Accessories: [at Year of Manufacture] | =\$ |
| | | (1) Discount: (List Price + Accessories) x (Discount Code) | |
| | | (\$+ \$) x () | =-(\$ |
| | | (2) Subtotal [2.a.] – [2.a.(1)] Subtota | al=\$ |
| | | (3) Sales or Import Tax: (Subtotal) x (Tax Rate) [2.a.(2)] [Appendix B] | |
| | | (\$) x () | =+\$ |
| | | (4) Total Discounted Price: Subtotal: [2.a.(2)] + [2.a.(3)] Subtotal | al=\$ |
| | b. | Freight: (Shipping Weight) x (Freight Rate per cwt) [1.a.(8)] [Appendix B] | |
| | | (cwt) x (\$/cwt) | =+\$ |
| | c. (See | TOTAL EQUIPMENT VALUE (TEV): [(2.a.(4)] + [(2.b)] c chapter 3 for used and overage equipment rate adjustments.) |]:=\$ |
| 3. | <u>DEP</u> | RECIATION PERIOD (N) | |
| | a. | (LIFE hours (hr)) / (Working Hours Per Year (WHPY)) = N [1.c.(4)] [Appendix B] | |
| | | (hr) / (hr/yr) | = |
| 4. | <u>owi</u> | NERSHIP COST | |
| | a. | Depreciation | |
| | | (1) Tire Cost Index (TCI): (Tire Index, Yr of Mfg) / (Tire Index, Based on 1.a.(3)) [Appendix E, EK=100] [Appendix E, EK=100] | = Tire Cost Index (TCI) |
| | | () / () | =(TCI) |
| | | (2) [(TEV) x [1.0 - (SLV)] - [(TCI) x (Tire Cost)]] / (LIFE) [2.c.] [1.c.(5)] [4.a.(1)] [1.a.(9)(d)] [1.c.(4)] | |
| [(\$_ | |) x [1.0 – ()] – [() x (\$ |)]] / (hr) |
| | | | =\$/hr |
| | | Equipment Rate Computation Worksheet (copy as r | needed). Page 2 of 6 |

| 4. | OW | NERS | SHIP COST (Continued) | |
|----|------------|------|---|-------------|
| | b. | Faci | cilities Capital Cost of Money (FCCM): | |
| | | (1) | $[[(N)-1.0] \times [1.0+(SLV)] + 2.0] / [2.0x (N)] = Avg Value Factor$ [3.a.] [3.a.] (AVF) | |
| | | | [[(yr) - 1.0] x [1.0 + ()] + 2.0] / [2.0 x (| yr)] |
| | | | = <u> </u> | (AVF) |
| | | (2) | (TEV)x(AVF)x(Adjusted Cost - of - Money)/(WHPY) [2.c] [4.b.(1)] [Appendix B] [Appendix B] | |
| | | | (\$) x () x () / (hr/yr) =\$ | /hr |
| | C. | | TAL HOURLY OWNERSHIP COST: TOTAL [4.]: =\$ | /hr |
| 5. | <u>OPE</u> | RATI | TING COST | |
| | a. | Fuel | el Costs: | |
| | | (1) | Equipment: | |
| | | | (Fuel Factor x (Horsepower (hp)) x (Fuel Cost Per Gallon (gal)) [1.c.(6)] [1.a.(5)] [Appendix B] | |
| | | | () x (hp) x (\$/gal) =\$ | /hr |
| | | (2) | Carrier: | |
| | | | (Fuel Factor) x (Horsepower) x (Fuel Cost Per Gallon) [1.c.(7)] [1.a.(6)] [Appendix B] | |
| | | | () x (hp) x (\$/gal) =\$ | /hr |
| | | (3) | Total Hourly Fuel Cost: Total [5.a.] =\$ | /hr |
| | b. | FOG | G Cost: | |
| | | (1) | Equipment: | |
| | | | (FOG Factor) x (Equipment Fuel Cost) x (Labor Adjustment Factor (LAF)) [1.c.(8)] [5.a.(1)] [Appendix B] | |
| | | | () x (\$/hr) x () =\$ | /hr |
| | | | Equipment Rate Computation Worksheet (copy as needed). | Page 3 of 6 |

| 5. | OPI | ERAT | NG COST (Continued) | | | | |
|----|------|---------|---|-------------------------------|-------|------------------|-----|
| | | (2) | Carrier: | | | | |
| | | | (FOG Factor) x (Carrier Fuel Cost) x (LAF) [1.c.(8)] [5.a.(2) [Appendix B] | | | | |
| | | | () x (\$/hr) x (|) | =\$ | / | hr |
| | | (3) | Total Hourly FOG Cost: [(5.b.(1)] + [5.b.(2)] | Total [5.b.] | =\$ | / | 'hr |
| | c. | Alte | rnative Fuel/FOG Cost: | Total [5.c.] | =\$ | / | 'nr |
| | (See | chapte | r 2, paragraph 24.d. for guidance on when to use.) | | | | |
| | d. | Rep | air Cost: | | | | |
| | | (1) | Economic Adjustment Factor (EAF): (EK is from [1.c.(1)]) | | | | |
| | | | (Economic Index for Year 1.a.(3)) / (Economic Index [Appendix E] [App | dex for Year 1.a pendix E] | .(4)) | | |
| | | | ()/(|) | = | (EA | F) |
| | (See | table 3 | -1 for last year of economic life.) | | | | |
| | | (2) | Repair Factor (RF): | | | | |
| | | | (RCF) x (EAF) x (LAF) [1.c.(10)] [5.d.(1)] [Appendix B] | | = | Repair Factor (R | F) |
| | | | () x () x (|) | = | (R | F) |
| | | (3) | Repair Cost: | | | | |
| | | | [(TEV) - [(TCI) x (Tire Cost)]] x (RF) / (LIFE) [2.c.] [4.a.(1)] [1.a.(9)(d)] [5.d.(2)] [1.c.(4)] | | | | |
| | | | [(\$) - [() x (\$ |)]] × (| |)/(| _) |
| | | (4) | Total Hourly Repair Cost: | Total [5.d.] | =\$ | / | hr' |
| | | | | | | | |
| | | | Equipment Rate Computation Workshe | et (copy as n | eeded | l). Page 4 of | 6 |

| 5. | OPE | ERAT | ING COST (Con | tinued) | | | |
|----|-----|------|----------------------------------|--|----------------------------|------------------------------|-------------|
| | e. | Tire | Wear Cost: (Use | e current price levels. Se | ee Appendix F) | | |
| | | (1) | Front Tires (FT) |): | | | |
| | | | [1.5 x (FT Cost) [1.a.(9)(a)] |] / [1.8 x (FT Wear Facto [1.c.(9)(a)] | | ire Life Hours)] endix F] | |
| | | | [1.5 x (\$ |)] / [1.8 x (|) x (| /hr)] | |
| | | | | | | =\$ | /hr |
| | | (2) | Drive Tires (DT |): | | | |
| | | | [1.5 x (DT Cost [1.a.(9)(b)] |)] / [1.8 x (DT Wear Facto [1.c.(9)(b)] | | ire Life Hours)] endix F] | |
| | | | [1.5 x (\$ |)] / [1.8 x (|) x (| /hr)] | |
| | | | | | | =\$ | /hr |
| | | (3) | Trailing Tires (T | T): | | | |
| | | | [1.5 x (TT Cost) [1.a.(9)(c)] |] / [1.8 x (TT Wear Facto [1.c.(9)(c)] | or) x (Maximum T [Apper | | |
| | | | [1.5 x (\$ |)] / [1.8 x (|) x (| /hr)] | |
| | | | | | | =\$ | /hr |
| | | (4) | Total Tire Wear | | Tota | al [5.e.] =\$ | /hr |
| | f. | Tire | Repair Cost: | | | | |
| | | (Tot | al Tire Wear Cos [5.e.(4)] | t) x 0.15 x (LAF) [Appendix B] | | | |
| | | (\$ | | hr) x 0.15 x (|) Tota | al [5.f.] =\$ | /hr |
| | g. | ТОТ | | PERATING COST: hrough 5.f.] | тот | ⁻ AL [5.] =\$ | /hr |
| | | | Equipment | Rate Computation V | Vorksheet (cop | y as needed). | Page 5 of 6 |

| 6. | HOL | URLY 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.) [(Depreciation) + [(FCCM) x (40 hr/wk) / (Work hr/wk)] + (Operating | Cost)] | |
| | | [4.a.(2)] [4.b.(2)] (example: 60 hr/wk) [5.g.] [(\$/hr) + [(\$/hr) x (40 hr/wk) / (/hr) x (40 hr/wk) / (/hr) x (40 hr/wk) | hr/wk)] + (\$ | /hr)] |
| | | | =\$ | /hr |
| | c. | Standby Hourly Rate: | | |
| | | [(Depreciation) x 0.50] + (FCCM) [4.a.(2)] [4.b.(2)] | | |
| | | [(\$/hr) x 0.50] + (\$/hr) | =\$ | /hr) |
| | See | Chapter 3 if rate adjustments are necessary. | | |
| | | Equipment Rate Computation Worksheet (copy as | s needed). Page | 6 of 6 |

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APPENDIX B AREA FACTORS

NORTHEAST
Region:

| Total State Sales or Import Tax Rate: | 6.00% | |
|--|---------|--------|
| Working Hours Per Year (WHPY): | 1,360 | hrs/yr |
| Labor Adjustment Factor (LAF): | 1.15 | |
| Electricity Cost Per Kilowatt-Hour: | \$0.132 | /kW-Hr |
| Gasoline Cost Per Gallon: | \$3.77 | /gal |
| Diesel Cost Per Gallon (Off-Road Use): | \$3.66 | /gal |
| Diesel Cost Per Gallon (On-Road Use): | \$4.19 | /gal |
| Cost-of-Money Rate (Full Rate): | 2.125% | |
| Cost-of-Money Rate (Adjusted): | 1.700% | |

Freight Rates

| over | 0 | cwt | thru | 240 | \$19.34 |
|------|-----|-----|------|--------|---------|
| over | 240 | cwt | thru | 300 | \$17.80 |
| over | 300 | cwt | thru | 400 | \$15.56 |
| over | 400 | cwt | thru | 500 | \$13.43 |
| over | 500 | cwt | thru | 700 | \$6.79 |
| over | 700 | cwt | thru | 800 | \$6.79 |
| over | 800 | cwt | thru | 99,999 | \$11.41 |

APPENDIX B AREA FACTORS (for all regions)

| Ве | elow is a listin | g of a | all region | al are | ea fact | ors fo | r refer | ence on | ly. T | he a | ea fact | or's u | sed fo | r this | pamph | let ar | e locat | ed on | previo | us pa | ge B-1 | ۱. | |
|----|------------------|--------|------------|--------|---------|--------|---------|---------|-------|--------|----------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | Fre | ight Cos | st | | | | | | | | | | | |
| Re | 9 | | SST WHP | / LAF | Elec | Gas | D-Off | D-On | | Thru C | WT \$ | Thru C | WT \$ | Thru C | WT \$ | Thru C\ | NT \$ | Thru CV | VT \$ | Thru C\ | NT \$ | Thru CW | /T \$ |
| 1 | NORTHEAST | 2014 | 6.00% 1360 | 1.15 | \$0.132 | \$3.77 | \$3.66 | \$4.19 | | 240 | \$19.34 | 300 | \$17.80 | 400 | \$15.56 | 500 | \$13.43 | 700 | \$6.79 | 800 | \$6.79 | 99,999 | \$11.41 |
| 2 | MIDEAST | 2014 | 6.00% 1450 | 1.02 | \$0.095 | \$3.76 | \$3.49 | \$4.05 | | 240 | \$10.54 | 300 | \$9.81 | 400 | \$8.84 | 500 | \$7.94 | 700 | \$5.17 | 800 | \$5.17 | 99,999 | \$8.64 |
| 3 | SOUTHEAST | 2014 | 8.60% 1530 | 0.88 | \$0.095 | \$3.62 | \$3.42 | \$3.89 | | 240 | \$16.27 | 300 | \$14.82 | 400 | \$12.69 | 500 | \$10.64 | 700 | \$5.85 | 800 | \$5.85 | 99,999 | \$9.79 |
| 4 | NORTHCENTRAL | 2014 | 5.85% 1260 | 1.02 | \$0.094 | \$3.75 | \$3.49 | \$4.00 | | 240 | \$22.71 | 300 | \$20.99 | 400 | \$18.72 | 500 | \$16.62 | 700 | \$12.23 | 800 | \$12.14 | 99,999 | \$7.90 |
| 5 | MIDWEST | 2014 | 7.90% 1400 | 0.98 | \$0.089 | \$3.82 | \$3.44 | \$3.94 | | 240 | \$17.09 | 300 | \$15.69 | 400 | \$13.80 | 500 | \$12.05 | 700 | \$9.02 | 800 | \$8.99 | 99,999 | \$7.36 |
| 6 | SOUTHWEST | 2014 | 8.70% 1590 | 0.86 | \$0.086 | \$3.65 | \$3.43 | \$3.86 | | 240 | \$22.74 | 300 | \$21.12 | 400 | \$19.04 | 500 | \$17.14 | 700 | \$12.49 | 800 | \$12.45 | 99,999 | \$8.14 |
| 7 | WEST | 2014 | 9.25% 1630 | 1.12 | \$0.105 | \$3.83 | \$3.49 | \$4.05 | | 240 | \$36.13 | 300 | \$33.56 | 400 | \$30.18 | 500 | \$27.08 | 700 | \$18.40 | 800 | \$17.53 | 99,999 | \$10.93 |
| 8 | NORTHWEST | 2014 | 6.05% 1540 | 1.06 | \$0.078 | \$3.85 | \$3.54 | \$4.07 | | 240 | \$30.86 | 300 | \$29.05 | 400 | \$26.59 | 500 | \$24.30 | 700 | \$11.26 | 800 | \$9.51 | 99,999 | \$6.48 |
| 9 | ALASKA | 2014 | 4.40% 1040 | 1.19 | \$0.155 | \$4.36 | \$3.87 | \$4.11 | | 240 | \$63.98 | 300 | \$53.95 | 400 | \$43.11 | 500 | \$49.09 | 700 | \$33.08 | 800 | \$31.15 | 99,999 | \$27.79 |
| 10 | HAWAII | 2014 | 4.50% 1480 | 1.23 | \$0.341 | \$4.39 | \$4.15 | \$4.90 | | 240 | \$118.93 | 300 | \$71.52 | 400 | \$56.01 | 500 | \$61.76 | 700 | \$43.92 | 800 | \$48.92 | 99,999 | \$22.55 |
| 11 | PUERTO RICO | 2014 | 7.00% 1560 | 0.7 | \$0.312 | \$3.86 | \$3.47 | \$3.95 | | 240 | \$42.12 | 300 | \$30.96 | 400 | \$26.95 | 500 | \$24.52 | 700 | \$17.75 | 800 | \$16.52 | 99,999 | \$12.22 |
| 12 | KWAJALEIN | 2014 | 4.50% 1390 | 1 | \$0.341 | \$4.00 | \$4.15 | \$4.90 | | 240 | \$33.40 | 300 | \$31.19 | 400 | \$28.13 | 500 | \$25.24 | 700 | \$12.23 | 800 | \$10.61 | 99,999 | \$8.09 |
| | | | | 1 | 1 | 1 | | 1 | | | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |

SST = State Sales tax Gas = Gasoline Cost per Gal

WHPY = Work Hours Per Year D-Off = Diesel-Off Road Cost per Gal

LAF = Labor Adjustment Factor

Elec = Electricty Cost Per kW-Hr

APPENDIX C GUIDE FOR SELECTING OPERATING CONDITIONS

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|--|--|---|
| B25 and B35: 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 |
| C80 and C90: 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 |
| C85: 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 |
| G10: 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 |

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| EQUIPMENT TYPE | AVERAGE | SEVERE | | | |
|---|--|---|--|--|--|
| <u>G15</u> : 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 | | | |
| 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 | | | |

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| 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 |
| <u>L60</u> : 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 |
|--|---|--|
| M1031 and .32: Clamshell dredges < 5 cy Amphibious Excavator | Gravel, silts, breakout force at less than capacity, freshwater conditions. | Rock, abrasive materials, load at rated capacity, saltwater conditions. |
| Depreciation Period: | 10,000 - 20,000 hours | 9,000 - 18,000 hours |
| M1051 and .53: Boats, Skiffs, Crew Boats, Work Boats, Survey Boats, and Launches | Freshwater applications, light waves, and steady to light use. | Saltwater use, medium to high waves, heavy use. |
| Depreciation Period: | 16,000 - 18,000 hours | 13,000 - 15,000 hours |
| <u>P35</u> : Pipelayers | Typical pipelayer use in operating conditions ranging from very good to severe. | Continuous use in deep mud or water or on rock surfaces. |
| Depreciation Period: | 14,000 hours | 11,500 hours |
| R10: Rippers and Bank Slopers | Light rock, medium breakout force required. | Hard rock, excessive wear due to high breakout force. |
| Depreciation Period: | 8,000 hours | 6,500 hours |
| S10, S15, S20, and S25: Scrapers Self-Propelled Tractor Drawn Soil Stabilizers | Varying loading and haul road conditions; long and short hauls; adverse and favorable grades; some impact; and typical roadbuilding use on a variety of jobs. | High impact conditions, such as loading ripped rock; overloading, continuous high total resistance conditions; and rough haul roads. |
| Depreciation Period: | 10,000 - 15,000 hours | 8,000 - 13,500 hours |

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| 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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| CATEGORY | | | | | | | | | UIPME | | | | ARRIE | | | FOG | | RE WEAR | | |
|----------|--|----|---|----|--------|------|-----|------|-------|------|-----|------|--------------------|------|------|--------------|--------|--------------|----|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | L FAC | D | HPF | | L FACT G | D | E | CTORS G D | | ACTORS DT | | RCF |
| A10 0.00 | AGGREGATE / CHIP SPREADERS | 1 | | | | | | | | | | | | | | | | | | |
| A10 0.10 | SELF-PROPELLED | 10 | Α | В | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .102 .10 | 0.83 | 0.72 0. | 92 | 0.75 |
| A10 0.20 | TOWED & TAILGATE | 10 | Α | В | 6,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 .00 | 0.73 | 0.00 0. | 82 | 0.60 |
| A15 0.00 | AIR COMPRESSORS, PORTABLE | 1 | | | | | | | | | | | | | | | | | | |
| A15 0.10 | ROTARY SCREW | 5 | Α | В | 10,000 | 0.20 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 .11 | 0.66 | 0.00 0. | 73 | 0.75 |
| A15 0.20 | SHOP TYPE | 5 | Α | В | 12,000 | 0.15 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 .11 | 0.00 | 0.00 0. | 00 | 0.65 |
| A20 0.00 | AIR HOSE, TOOLS & EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | |
| A20 0.10 | AIR DRILL HOSE | 5 | Α | В | 3,500 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 .00 | 0.00 | 0.00 0. | 00 | 1.50 |
| A20 0.20 | SANDBLAST HOSE | 5 | Α | В | 3,500 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 .00 | 0.00 | 0.00 0. | 00 | 1.65 |
| A20 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 5 | Α | В | 6,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 .11 | 0.96 | 0.84 1. | 07 | 1.50 |
| A25 0.00 | ASPHALT PAVING DISTRIBUTORS | 10 | Α | В | 6,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 0.96 | 0.63 1. | 07 | 0.85 |
| A30 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | |
| A30 0.10 | SELF PROPELLED | 10 | Α | В | 8,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 9 1.08 | 0.72 1. | 20 | 1.00 |
| A30 0.20 | TOWED | 10 | Α | В | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 9 1.08 | 0.00 1. | 20 | 0.80 |
| A30 0.30 | SLURRY SEAL PAVERS (Cold mix) | 10 | Α | В | 12,000 | 0.20 | 60 | .600 | .054 | .029 | 13 | .130 | .012 | .006 | .000 | .100 .10 | 1.08 | 0.71 1. | 20 | 0.55 |
| A30 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 10 | Α | В | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 1.08 | 0.71 1. | 20 | 0.80 |
| A35 0.00 | ASPHALT PAVING KETTLES | 10 | Α | В | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 1.08 | 0.71 1. | 20 | 0.80 |
| A40 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 10 | Α | В | 6,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 9 1.08 | 0.71 1. | 20 | 1.00 |
| A45 0.00 | ASPHALT RECYCLERS & SEALERS | 10 | Α | В | 5,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 .11 | 1.08 | 0.71 1. | 20 | 0.90 |
| B10 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | 1 | | | | | | | | | | | | | | | | | | |
| B10 0.10 | ASPHALT | 10 | Α | В | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 .11 | 1.08 | 0.72 1. | 20 | 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 LIFE=Economic Life SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered G=Gas Powered D=Diesel Powered

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | 6 | | E WEAR | |
|----------|--|----|---|----|--------|------|-----|------|-------|------|-----|------|------------------|------|------|------------------|--------|------|-------------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | L FAC | D | HPF | | FACT G | D | E | CTOR G | D D | | CTORS DT T | RCF |
| B10 0.20 | CONCRETE | 10 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | | | | | | | | | | | | | | | | | | |
| B30 0.10 | GENERAL PURPOSE, MANUAL TRIP | 15 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | | | | | | | | | | | | | | | | | | |
| B35 0.10 | LIGHT WEIGHT | 15 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | | | | | | | | | | | | | | | | | | |
| C10 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 95 | Α | В | 4,000 | 0.05 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 0.00 | 1.20 |

LIFE=Economic Life SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered G=Gas Powered D=Diesel Powered

| OATEOODY. | | | | | | | | EC | QUIPMI | ENT | | C | ARRIE | ER | | FOG | | TIR | E WEAR | |
|-----------|--|----|---|----|--------|------|-----|------|--------|------|-----|------|-------|------|------|------|------|------|-----------|------|
| CATEGORY | | | | | | | | FUE | L FAC | TORS | | FUEI | L FAC | rors | FA | CTOR | S | FA | CTORS | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | Е | G | D | HPF | E | G | D | E | G | D | FT | DT TT | RCF |
| C10 0.20 | ROLLERS, VIBRATORY | 95 | Α | В | 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 | Α | | | | | | | | | | | | | | | | | |
| C15 0.10 | WALK BEHIND | 95 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 / SHOTCRETERS | 95 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 12,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .161 | .153 | 0.18 | 0.14 0.20 | 0.65 |

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

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | | TIRE WEAR | |
|----------|---|----|---|----|--------|------|----------|------|-------|------|-----|------|--------------------|--------|---------|---------------------|-------|------------------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | FUE | L FAC | D | HPF | | _ FAC1 G | D D | FA E | CTORS G D | | FACTORS DT TT | RCF |
| 000 000 | OC TON TUDU OF TON | 20 | ^ | D | 1/ 000 | 0.15 | / [| /50 | ٥٢٥ | 021 | 10 | 100 | 000 | 005 | 000 | 107 11 | 0.4 | / 0.50 0.72 | 0.70 |
| C80 0.02 | 26 TON THRU 65 TON | 20 | A | В | 16,000 | 0.15 | 65 or | | .059 | .031 | 10 | .100 | .009 | | | .127 .11 | | 0.58 0.73 | 0.70 |
| C80 0.02 | 26 TON THRU 65 TON | 20 | S | В | 14,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | | | .127 .11 | | 8 0.14 0.20 | 0.75 |
| C80 0.03 | 66 TON THRU 125 TON | 20 | Α | В | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | | .005 | | .127 .11 | | 6 0.58 0.73 | 0.80 |
| C80 0.03 | 66 TON THRU 125 TON | 20 | S | В | 16,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | | .006 | | .127 .11 | | 8 0.14 0.20 | 0.85 |
| C80 0.04 | OVER 125 TON | 20 | Α | В | 20,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | | | .127 .11 | | 6 0.58 0.73 | 0.90 |
| C80 0.04 | OVER 125 TON | 20 | S | В | 18,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 .11 | 0. | 8 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 | Α | В | 14,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .136 .13 | 0.0 | 0.00 0.00 | 0.80 |
| C85 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 20 | S | В | 12,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .136 .13 | 0.0 | 0.00 0.00 | 0.90 |
| C85 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 20 | Α | В | 16,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .144 .14 | 1 0.0 | 0.00 0.00 | 0.85 |
| C85 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 20 | S | В | 13,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .144 .14 | 1 0.0 | 0.00 0.00 | 0.95 |
| C85 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 20 | Α | В | 18,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .093 .09 | 3 0.0 | 0.00 0.00 | 0.95 |
| C85 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 20 | S | В | 15,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .093 .09 | 3 0.0 | 0.00 0.00 | 1.05 |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 20 | Α | В | 20,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .102 .10 | 0.0 | 0.00 0.00 | 1.05 |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 20 | S | В | 16,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .102 .10 | 0.0 | 0.00 0.00 | 1.15 |
| C85 0.21 | LIFTING, 0 THRU 25 TON | 20 | Α | В | 16,000 | 0.20 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .136 .13 | 0.0 | 0.00 0.00 | 0.65 |
| C85 0.21 | LIFTING, 0 THRU 25 TON | 20 | S | В | 13,000 | 0.20 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .136 .13 | 0.0 | 0.00 0.00 | 0.70 |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | 20 | Α | В | 18,000 | 0.20 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .085 .08 | 0.0 | 0.00 0.00 | 0.75 |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | 20 | S | В | 15,000 | 0.20 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .085 .08 | 5 0.0 | 0.00 0.00 | 0.80 |

LIFE=Economic Life SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered G=Gas Powered D=Diesel Powered

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | | | E WEAR | |
|----------|---|----|---|----|--------|------|-----|------|-------|------|-----|------|--------|------|------|------|------|------|-----------|------|
| OUD. | | | _ | | | | | | L FAC | | | | L FACT | | | CTOR | | | CTORS | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | Е | G | D | Е | G | D | FT | DT TT | RCF |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | 20 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 14,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 0.00 | 1.00 |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 25 | Α | В | 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 | Α | В | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 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 SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered G=Gas Powered D=Diesel Powered

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | | | E WEAR | |
|----------|--|----|---|----|--------|------|------|------|-------|------|-----|------|-------|------|------|---------|----|------|-----------|------|
| SUB | DECCRIPTION | ГV | _ | DC | | CI V | LIDE | | L FAC | | une | | FAC1 | | | CTORS | | | CTORS | DOE |
| 308 | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | Е | G | D | E | G [| , | FI | DT TT | RCF |
| D15 0.20 | DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear) | 25 | А | В | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 .1 | 19 | 0.00 | 0.00 0.00 | 0.90 |
| D20 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 25 | Α | В | 8,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .068 .1 | 02 | 0.00 | 0.00 0.00 | 0.85 |
| D25 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 25 | Α | В | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .068 .1 | 02 | 0.00 | 0.00 0.92 | 1.00 |
| D30 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 25 | Α | В | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .477 | .136 .1 | 19 | 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 | Α | В | 14,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .005 | .161 .1 | 61 | 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 | Α | В | 18,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .011 | .136 .1 | 36 | 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 | Α | В | 14,000 | 0.20 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .530 | .000 .0 | 00 | 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 | Α | В | 18,000 | 0.20 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .530 | .000 .0 | 00 | 0.00 | 0.00 0.00 | 0.55 |
| F10 0.00 | FORK LIFTS | 95 | Α | В | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .102 .1 | 02 | 0.83 | 0.46 0.92 | 0.75 |
| G10 0.00 | GENERATOR SETS | 1 | | | | | | | | | | | | | | | | | | |
| G10 0.10 | PORTABLE | 30 | Α | В | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 02 | 0.00 | 0.00 0.73 | 0.60 |
| G10 0.10 | PORTABLE | 30 | S | В | 7,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 02 | 0.00 | 0.00 0.20 | 0.70 |
| G10 0.20 | SKID MOUNTED | 30 | Α | В | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 02 | 0.00 | 0.00 0.00 | 0.70 |
| G10 0.20 | SKID MOUNTED | 30 | S | В | 8,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 02 | 0.00 | 0.00 0.00 | 0.80 |
| G15 0.00 | GRADERS, MOTOR | 35 | Α | В | 14,500 | 0.25 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .085 .1 | 44 | 0.83 | 0.54 0.92 | 0.75 |
| G15 0.00 | GRADERS, MOTOR | 35 | S | В | 13,500 | 0.25 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .085 .1 | 44 | 0.27 | 0.16 0.30 | 0.85 |

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

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | | | E WEAR | |
|----------|--|----|---|----|--------|------|-----|------|-------|------|-----|------|------------------|------|------|------------------|--------|------|----------------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | L FAC | D | HPF | | FACT G | D | E | CTOR G | D D | | CTORS DT TT | RCF |
| H10 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 95 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 12,000 | 0.25 | 65 | .600 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 0.00 | 0.80 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | S | В | 10,000 | 0.25 | 85 | .800 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 0.00 | 0.95 |

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

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | | | | | | | | EO | UIPMI | ENT | | C | ARRII | ER | | FOG | | TIR | E WEA | ₹ | |
|----------|-------------------------------------|----|---|----|--------|------|-----|------|-------|------|-----|------|-------|------|------|------|------|------|--------|-----|------|
| ONIEGONI | | | | | | | | FUE | L FAC | TORS | | FUE | L FAC | TORS | F.A | CTOR | RS | FA | CTORS | | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | E | G | D | E | G | D | FT | DT | TT | RCF |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 10,000 | 0.20 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.83 | 0.54 0 | .92 | 0.90 |
| L10 0.00 | LAND CLEARING EQUIPMENT | 70 | S | В | 7,000 | 0.20 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.25 | 0.15 0 | .28 | 1.00 |

LIFE=Economic Life SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered G=Gas Powered D=Diesel Powered

| CATEGORY | | | | | | | | EQUIPMENT | | | | CARRIER | | | | FOG | | | WEAR | |
|----------|--|----|---|----|--------|------|-----|-----------|--------------|------|-----|--------------|------|------|------|----------|----|------|-----------|------|
| | | | | | | | | | FUEL FACTORS | | | FUEL FACTORS | | | | | | | CTORS | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | Е | G | D | E | G D |) | FT | DT TT | RCF |
| L15 0.00 | LANDSCAPING EQUIPMENT | 95 | Α | В | 4,000 | 0.15 | 80 | .800 | .072 | .038 | 13 | .130 | .012 | .006 | .477 | .102 .10 |)2 | 0.59 | 0.30 0.66 | 0.70 |
| L20 0.00 | LIGHTING SETS, TRAILER MOUNTED | 1 | | | | | | | | | | | | | | | | | | |
| L20 0.10 | METALLIC VAPOR | 95 | Α | В | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 .10 |)2 | 0.66 | 0.58 0.73 | 1.50 |
| L25 0.00 | LINE STRIPING EQUIPMENT | 95 | Α | В | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .102 .10 |)2 | 0.66 | 0.58 0.73 | 1.20 |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 95 | Α | В | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .119 .1 | 19 | 0.66 | 0.58 0.73 | 1.00 |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 95 | S | В | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .119 .1 | 19 | 0.21 | 0.16 0.23 | 1.10 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | Α | В | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .170 .10 |)1 | 0.00 | 0.00 0.00 | 1.10 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | S | В | 8,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .170 .10 |)1 | 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 | Α | В | 9,250 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 .1 | 11 | 0.83 | 0.54 0.92 | 0.70 |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | S | В | 8,750 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 .1 | 11 | 0.25 | 0.15 0.28 | 0.80 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | Α | В | 13,500 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 .08 | 30 | 0.83 | 0.54 0.92 | 0.70 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | S | В | 12,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 .08 | 30 | 0.25 | 0.15 0.28 | 0.75 |
| L40 0.20 | SKID STEER | 45 | Α | В | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .170 .1 | 11 | 0.57 | 0.29 0.63 | 0.80 |
| L40 0.21 | SKID STEER ATTACHMENTS | 45 | Α | В | 4,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 .1 | 70 | 0.00 | 0.00 0.00 | 1.00 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | Α | В | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 .1 | 11 | 0.83 | 0.54 0.92 | 0.85 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | S | В | 9,250 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 .1 | 11 | 0.25 | 0.15 0.28 | 0.90 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | Α | В | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 .08 | 30 | 0.83 | 0.54 0.92 | 0.85 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | S | В | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 .08 | 30 | 0.25 | 0.15 0.28 | 0.90 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | Α | В | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .441 .52 | 24 | 0.00 | 0.00 0.00 | 1.35 |

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

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | | | | | | | | EQUIPMENT FUEL FACTORS | | | | | | | | | | CARRIER FUEL FACTOR | | | FOG S FACTORS | | | TIR FA | |
|----------|---|-----|---|----|--------|------|-----|---------------------------|------|------|-----|------|------|------|------|------|------|------------------------|-----------|------|------------------|--|--|-----------|--|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | | | D | E | | D | | DT TT | RCF | | | | | |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | S | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 SKIDDERS | 75 | S | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | А | В | 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 | Α | В | 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 | А | В | 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 | А | В | 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 | Α | В | 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 | А | В | 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 | В | 16,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 0.00 | 1.05 | | | | | |

LIFE=Economic Life SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered G=Gas Powered D=Diesel Powered

| CATEGORY | | | | | | | | EQUIPMENT FACTORS | | | | CARRIER FUEL FACTORS | | | | FOG | | | E WEAR | |
|----------|--|-----|---|----|--------|------|------|-------------------|-------------------|------|-----|-------------------------|------|------|---------|-------------------|--------|------|--------------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | FUE | L FAC G | D | HPF | | | D | FA E | CTORS G | S D | | CTORS DT TT | RCF |
| 305 | DESCRIPTION | LIX | _ | ЪС | | SLV | "" " | _ | | | | _ | | | _ | | | | DI 11 | IXCI |
| M10 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 65 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | | | | | | | | | | | | | | | | | | |

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

| CATEGORY | | | | | | | | EQUIPMENT FUEL FACTORS | | FUEL FACTORS | | CARRIER FUEL FACTORS | | | | | | TIRE WEAR FACTORS | | | |
|----------|--|----|---|----|--------|------|-----|---------------------------|------|--------------|-----|-------------------------|------|------|------|------|------|-------------------|--------|-----|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | E | G | D | E | G | D | FT | DT | TT | RCF |
| P25 0.10 | DIESEL | 50 | Α | В | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | .00 | 1.00 |
| P25 0.20 | PNEUMATIC (STEAM/AIR) | 50 | Α | В | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | .00 | 1.00 |
| P30 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 50 | Α | В | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | .00 | 1.00 |
| P35 0.00 | PIPELAYERS | 70 | Α | В | 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 | В | 11,500 | 0.20 | 46 | .460 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.00 | 0.00 | .00 | 1.10 |
| P40 0.00 | PLATFORMS & MAN-LIFTS | 20 | Α | В | 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 | Α | В | 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 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | .73 | 0.90 |
| P50 0.12 | ELECTRIC DRIVE | 95 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | .73 | 0.50 |
| P50 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | .73 | 0.90 |
| P50 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | .73 | 0.50 |
| P50 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 95 | Α | В | 4,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | .00 | 1.50 |
| P55 0.00 | PUMPS, WATER, SUBMERSIBLE | 1 | | | | | | | | | | | | | | | | | | | |
| P55 0.01 | ENGINE DRIVE | 95 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | .00 | 1.00 |
| P55 0.02 | ELECTRIC DRIVE | 95 | Α | В | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | .00 | 0.60 |
| P60 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | 1 | | | | | | | | | | | | | | | | | | | |
| P60 0.11 | SKID MOUNTED, ENGINE DRIVE | 95 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | .00 | 0.90 |
| P60 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 95 | Α | В | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | .00 | 0.50 |
| P60 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | Α | В | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | .73 | 0.90 |
| P60 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | Α | В | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | .73 | 0.50 |
| P65 0.00 | PUMPS, WATER, DIAPHRAGM | 1 | | | | | | | | | | | | | | | | | | | |

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| CATEGORY | | | | | | | | EQUIPMENT FUEL FACTORS | | | | CARRIER FUEL FACTOR | | | | | oc. | TIRE WEAR S FACTORS | | |
|----------|--|----|---|----|--------|------|-----|------------------------|------|------|-----|------------------------|------|------|------|------|------|---------------------|-----------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | | | D | E | G | D | | DT TT | RCF |
| P65 0.11 | SKID MOUNTED, ENGINE DRIVE | 95 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | | | | 1 | | | | | | | | | | | | | | |
| P70 0.01 | ENGINE DRIVE | 95 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | | | | | | | | | | | | | | | | | | |

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

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | | | | | | | | EQUIPMENT | | | | | | | | | | | | | CARRIER | | | | FOG | TIRE WEAR | | |
|----------|---|----|---|----|--------|------|-----|-----------|--------------|------|-----|------|------|--------------|------|-----------|------|-----------|------|--------|---------|--|--|--|-----|-----------|--|--|
| | | | | | | | | FUE | FUEL FACTORS | | | | | FUEL FACTORS | | | FA | CTORS | F | ACTORS | | | | | | | | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | E | G | D | Е | G D | FT | DT TT | RCF | | | | | | | | | |
| S10 0.01 | 0 THRU 200 HP | 60 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | А | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 8,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 .142 | 0.96 | 0.72 1.07 | 1.00 | | | | | | | | | |

LIFE=Economic Life SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered
G=Gas Powered
D=Diesel Powered

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | _ | | E WEAR | |
|----------|---|-----|---|----|--------|------|------|------|-------|------|-----|------|--------|------|------|------|------|------|-----------|------|
| SUB | DESCRIPTION | FIZ | • | DC | LIFE | CI V | LIDE | | L FAC | | | | L FACT | | | CTOR | | | CTORS | DOE |
| 300 | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | E | G | D | E | G | D | FT | DT TT | RCF |
| S35 0.00 | SNOW REMOVAL EQUIPMENT | 95 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 SLV=Salvage Value HPF=Horsepower Factor E=Electric Powered
G=Gas Powered
D=Diesel Powered

| CATEGORY | | | | | | | | EO | UIPME | ENT | | С | ARRIE | :R | | FOG | | | E WEAF | | |
|----------|--|----|---|----|--------|------|-----|------|-------|------|-----|------|-------|------|------|--------|------|------|--------|-----|------|
| | | | | | | | | _ | L FAC | TORS | | | FACT | ORS | | CTORS | S | | CTORS | | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | Е | G | D | E | G | D | FT | DT | ין | RCF |
| T35 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 80 | S | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 . | .102 | 0.66 | 0.00 0 | .73 | 0.70 |

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

| CATEGORY | | | | | | | | | UIPMI | | | | ARRIE | | | FOG | | | E WEAR | |
|----------|--|----|---|----|--------|------|-----|------|-------|------|-----|------|-------|------|------|-------------------|-----|------|--------------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | L FAC | D | HPF | | FAC | D | E | CTORS G | D D | FT | CTORS DT TT | RCF |
| T50 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | 1 | | | | | | | | | | | | | | | | | | |
| T50 0.01 | 0 THRU 10,000 GVW | 85 | Α | 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 | Α | 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 | Α | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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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APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | | | | | | | | | UIPME | | | | ARRIE | | | FOG | | | WEAR | |
|----------|--|----|---|----|--------|------|-----|------|--------------------------------|--------|-----|------|--------------------------------|------|------|---------------------|-------|-------|----------------------|------|
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | L FAC ¹ G | D D | HPF | | _ FAC ¹ G | D | E | CTORS G I | | | TORS DT TT | RCF |
| T60 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 90 | S | В | 10,000 | 0.20 | 85 | 050 | .077 | .041 | 0 | 000 | .000 | 000 | 000 | .102 .1 | 26 0 | 25 0 | 0.17 0.28 | 0.80 |
| T65 0.00 | TUNNEL/MINING EQUIPMENT | 1 | 3 | ь | 10,000 | 0.20 | 00 | .030 | .077 | .041 | U | .000 | .000 | .000 | .000 | .102 .1 | 130 0 | .25 0 | 0.17 0.20 | 0.60 |
| T65 0.10 | DRIFTING & TUNNELING DRILLS | 25 | Α | В | 14.000 | 0.15 | 80 | .800 | .072 | .038 | 13 | .130 | .012 | .006 | 530 | .136 .1 | 119 0 | 67 0 | 0.57 0.00 | 0.90 |
| T65 0.10 | TUNNEL BORING MACHINES | 95 | A | В | 18,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | | .000 | | .000 .0 | | | 0.00 0.00 | 0.70 |
| T65 0.20 | TUNNEL BORING MACHINES | 95 | S | В | 16,000 | 0.15 | 91 | .910 | .082 | .044 | 0 | .000 | | .000 | | .000 .0 | | | 0.00 0.00 | 0.80 |
| T65 0.30 | PRODUCTION DRILLING RIGS | 25 | A | В | 12,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | | .000 | | .136 .1 | | | 0.00 0.00 | 0.90 |
| T65 0.40 | ROADHEADERS & CONTINUOUS MINERS | 95 | Α | В | 16,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | | .000 .0 | | | 0.00 0.00 | 0.90 |
| T65 0.40 | ROADHEADERS & CONTINUOUS MINERS | 95 | S | В | 14,000 | 0.15 | 91 | .910 | .082 | .044 | 0 | .000 | | .000 | | .000 .0 | | | 0.00 0.00 | 1.00 |
| T65 0.50 | ROCK BOLTING EQUIPMENT | 95 | Α | В | 10,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .530 | .136 .1 | 19 0 | .00 0 | 0.00 0.00 | 0.80 |
| T65 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 95 | Α | В | 12,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .136 .1 | 27 0 | .00 0 | 0.00 0.00 | 0.75 |
| T65 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 95 | Α | В | 14,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .477 | .102 .1 | 02 0 | .00 0 | 0.00 0.00 | 0.70 |
| T65 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 95 | Α | В | 10,000 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .477 | .136 .1 | 19 0 | .00 0 | 0.00 0.00 | 0.65 |
| T65 0.70 | LOCOMOTIVES | 95 | Α | В | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 .1 | 19 0 | .00 0 | 0.00 0.00 | 0.75 |
| T65 0.90 | OTHER TUNNELING EQUIPMENT | 95 | Α | В | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 13 | .130 | .012 | .006 | .477 | .136 .1 | 27 0 | .00 0 | 0.00 0.00 | 0.80 |
| W10 0.00 | WAGONS, BOTTOM DUMP | 90 | Α | В | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 36 0 | .88 0 | 0.67 0.98 | 0.65 |
| W10 0.00 | WAGONS, BOTTOM DUMP | 90 | S | В | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 36 0 | .25 0 | 0.17 0.28 | 0.75 |
| W15 0.00 | WAGONS, REAR DUMP | 90 | Α | В | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 36 0 | .88 0 | 0.77 0.98 | 0.60 |
| W15 0.00 | WAGONS, REAR DUMP | 90 | S | В | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 .1 | 36 0 | .25 0 | 0.19 0.28 | 0.70 |
| W25 0.00 | WATER & CO2 BLASTERS | 1 | | | | | | | | | | | | | | | | | | |
| W25 0.10 | LOW PRESSURE, (< 5,000 PSI) | 95 | Α | В | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 .1 | 19 0 | .96 0 | 0.73 1.07 | 1.10 |
| W25 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 95 | Α | В | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 .1 | 19 0 | .96 0 | 0.73 1.07 | 1.20 |
| W25 0.30 | STEAM CLEANERS | 95 | Α | В | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 .1 | 19 0 | .00 0 | 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

| CATEGORY | | | | | | | | EC | UIPMI | ENT | | С | ARRIE | R | | FOG | | TIR | E WE | ιR | |
|----------|--------------------------------------|----|---|----|--------|------|-----|------|-------|------|-----|------|-------|------|------|------|------|------------|-------|------|------|
| CATEGORY | | | | | | | | FUE | L FAC | TORS | | FUEL | - FAC | rors | FA | CTOR | lS | F <i>F</i> | ACTOR | S | |
| SUB | DESCRIPTION | EK | С | DC | LIFE | SLV | HPF | E | G | D | HPF | E | G | D | E | G | D | FT | DT | TT | RCF |
| W25 0.40 | CO2 BLASTERS | 95 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 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 | Α | В | 6,000 | 0.20 | 30 | .300 | .027 | .014 | 0 | .000 | .000 | .000 | .424 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |

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APPENDIX E ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

| KEY | LCONON | | ı | | Table | | | | | | sed on | | | purch | ased | new ir | the y | ear 20 | 011 | |
|------|--|------|------|------|-------|------|------|------|------|------|--------|------|------|-------|------|--------|-------|--------|------|------|
| (EK) | EQUIPMENT DIVISIONS | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 |
| 5 | Air Equipment | 3165 | 3105 | 3047 | 3007 | 2887 | 2796 | 2601 | 2585 | 2458 | 2319 | 2234 | 2157 | 2085 | 2075 | 2069 | 2079 | 2047 | 2078 | 2074 |
| 10 | Asphalt & Concrete Paving Equipment | 5142 | 5046 | 4951 | 4855 | 4767 | 4652 | 4534 | 4526 | 4381 | 4228 | 4116 | 3950 | 3758 | 3763 | 3769 | 3766 | 3717 | 3638 | 3589 |
| 15 | Buckets | 9944 | 9757 | 9574 | 9448 | 9257 | 9135 | 8862 | 8911 | 8687 | 8604 | 8502 | 8057 | 7626 | 7443 | 7254 | 6804 | 6900 | 6982 | 6930 |
| 20 | Cranes, Draglines & Clamshells - Crawler & Truck Mtd | 7653 | 7509 | 7368 | 7271 | 7124 | 7031 | 6820 | 6858 | 6685 | 6621 | 6543 | 6201 | 5869 | 5728 | 5582 | 5236 | 5310 | 5289 | 5225 |
| 25 | Drills | 6824 | 6695 | 6569 | 6469 | 6391 | 6205 | 5987 | 5938 | 5783 | 5448 | 5104 | 4762 | 4444 | 4192 | 4116 | 3819 | 3736 | 3683 | 3626 |
| 30 | Generators | 6807 | 6679 | 6553 | 6458 | 6397 | 6262 | 5905 | 5794 | 5628 | 5357 | 5112 | 4888 | 4641 | 4566 | 4548 | 4548 | 4529 | 4520 | 4517 |
| 35 | Graders, Motor | 9365 | 9189 | 9016 | 8914 | 8648 | 7920 | 7632 | 7516 | 7155 | 6909 | 6825 | 6578 | 6318 | 6117 | 6049 | 5979 | 5952 | 5853 | 5682 |
| 40 | Loaders, Track | 8813 | 8647 | 8485 | 8378 | 8088 | 7713 | 7434 | 7454 | 7254 | 7037 | 6907 | 6653 | 6347 | 6177 | 6081 | 6058 | 6032 | 5960 | 5792 |
| 45 | Loaders, Wheel | 8133 | 7980 | 7830 | 7732 | 7464 | 7119 | 6861 | 6880 | 6695 | 6494 | 6374 | 6140 | 5857 | 5701 | 5612 | 5591 | 5567 | 5511 | 5409 |
| 50 | Pile Driving Equipment | 7628 | 7485 | 7344 | 7247 | 7063 | 6787 | 6582 | 6569 | 6375 | 6176 | 6033 | 5787 | 5450 | 5270 | 5195 | 5127 | 5112 | 5062 | 4993 |
| 55 | Rollers | 7890 | 7741 | 7596 | 7488 | 7341 | 7157 | 6983 | 6938 | 6736 | 6424 | 6145 | 5872 | 5646 | 5406 | 5285 | 5225 | 5130 | 5204 | 5092 |
| 60 | Scrapers & Soil Stabilizers | 9365 | 9189 | 9016 | 8914 | 8648 | 7920 | 7632 | 7516 | 7155 | 6909 | 6825 | 6578 | 6318 | 6117 | 6049 | 5979 | 5952 | 5853 | 5682 |
| 65 | Shovels, Backhoes & Hydraulic Excavators | 7653 | 7509 | 7368 | 7271 | 7124 | 7031 | 6820 | 6858 | 6685 | 6621 | 6543 | 6201 | 5869 | 5728 | 5582 | 5236 | 5310 | 5289 | 5225 |
| 70 | Tractors, Crawlers & Attachments | 8813 | 8647 | 8485 | 8378 | 8088 | 7713 | 7434 | 7454 | 7254 | 7037 | 6907 | 6653 | 6347 | 6177 | 6081 | 6058 | 6032 | 5960 | 5792 |
| 75 | Tractor, Wheel | 7583 | 7440 | 7300 | 7196 | 7050 | 6845 | 6678 | 6636 | 6442 | 6144 | 5876 | 5616 | 5400 | 5170 | 5055 | 4997 | 4906 | 4833 | 4695 |
| 80 | Trenchers | 9739 | 9556 | 9376 | 9243 | 9062 | 8835 | 8620 | 8565 | 8314 | 7930 | 7584 | 7248 | 6970 | 6466 | 6524 | 6450 | 6332 | 6223 | 6042 |
| 85 | Trucks, Highway | 6473 | 6351 | 6231 | 6131 | 5988 | 5648 | 5485 | 5366 | 5123 | 4965 | 4820 | 4638 | 4450 | 4356 | 4306 | 4216 | 4212 | 4307 | 4216 |
| 90 | Trucks & Wagons - Off-Highway | 8636 | 8473 | 8314 | 8172 | 8103 | 7940 | 7820 | 7785 | 7651 | 7392 | 7231 | 6896 | 6424 | 6095 | 6026 | 5931 | 5828 | 5715 | 5651 |
| 95 | All Other Equipment | 7628 | 7485 | 7344 | 7247 | 7063 | 6787 | 6582 | 6569 | 6375 | 6176 | 6033 | 5787 | 5450 | 5270 | 5195 | 5127 | 5112 | 5062 | 4993 |
| 100 | All Tires & Tubes | 4207 | 4128 | 4050 | 3991 | 4062 | 3929 | 3525 | 3343 | 3267 | 3025 | 2926 | 2759 | 2614 | 2487 | 2430 | 2401 | 2373 | 2371 | 2400 |
| 105 | Marine Equipment | 8844 | 8678 | 8515 | 8316 | 8216 | 8118 | 7941 | 7773 | 7466 | 7202 | 6905 | 6661 | 6436 | 6101 | 5846 | 5771 | 5645 | 5556 | 5513 |

EK = Economic Key E-1

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APPENDIX E ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

| KEY | | N | lote: 1 | Table : | 2-1 Ec | Juipme | ent Ra | tes ar | re base | ed on | equip | ment p | ourcha | ased r | new in | the ye | ear 20 | 011 | |
|------|--|------|---------|---------|--------|--------|--------|--------|---------|-------|-------|--------|--------|--------|--------|--------|--------|------|------|
| (EK) | EQUIPMENT DIVISIONS | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 | 1980 |
| 5 | Air Equipment | 2070 | 2063 | 2053 | 2012 | 2022 | 2008 | 1963 | 1956 | 1888 | 1801 | 1730 | 1720 | 1733 | 1683 | 1695 | 1668 | 1563 | 1630 |
| 10 | Asphalt & Concrete Paving Equipment | 3490 | 3390 | 3323 | 3248 | 3189 | 3092 | 3106 | 2967 | 2867 | 2793 | 2730 | 2687 | 2687 | 2611 | 2583 | 2620 | 2461 | 2296 |
| 15 | Buckets | 6888 | 6774 | 6672 | 6638 | 6663 | 6380 | 5901 | 5640 | 5314 | 4872 | 4767 | 4713 | 4640 | 4527 | 4471 | 4541 | 4313 | 3879 |
| 20 | Cranes, Draglines & Clamshells - Crawler & Truck Mtd | 5116 | 5013 | 4880 | 4783 | 4736 | 4540 | 4298 | 4152 | 3967 | 3688 | 3595 | 3485 | 3395 | 3339 | 3282 | 3213 | 3009 | 2782 |
| 25 | Drills | 3574 | 3518 | 3394 | 3320 | 3268 | 3196 | 3163 | 3069 | 2969 | 2807 | 2792 | 2786 | 2832 | 2803 | 2836 | 2810 | 2602 | 2265 |
| 30 | Generators | 4484 | 4511 | 4457 | 4343 | 4294 | 4234 | 4181 | 4116 | 3998 | 3773 | 3575 | 3514 | 3510 | 3400 | 3314 | 3236 | 3160 | 2817 |
| 35 | Graders, Motor | 5544 | 5466 | 5186 | 5088 | 4946 | 4655 | 4509 | 4359 | 4219 | 4010 | 3914 | 3759 | 3738 | 3645 | 3643 | 3561 | 3276 | 2992 |
| 40 | Loaders, Track | 5686 | 5606 | 5434 | 5257 | 5068 | 4816 | 4677 | 4555 | 4404 | 4163 | 3918 | 3770 | 3767 | 3791 | 3792 | 3655 | 3349 | 3061 |
| 45 | Loaders, Wheel | 5303 | 5251 | 5101 | 4988 | 4894 | 4758 | 4640 | 4532 | 4409 | 4235 | 4099 | 3991 | 3973 | 3944 | 3873 | 3788 | 3441 | 2938 |
| 50 | Pile Driving Equipment | 4892 | 4809 | 4700 | 4598 | 4539 | 4427 | 4305 | 4182 | 4029 | 3845 | 3745 | 3668 | 3626 | 3570 | 3519 | 3439 | 3208 | 2894 |
| 55 | Rollers | 5001 | 4950 | 4851 | 4719 | 4484 | 4460 | 4668 | 4630 | 4507 | 4412 | 4217 | 4151 | 4090 | 3926 | 3744 | 3431 | 3199 | 2913 |
| 60 | Scrapers & Soil Stabilizers | 5544 | 5466 | 5186 | 5088 | 4946 | 4655 | 4509 | 4359 | 4219 | 4010 | 3914 | 3759 | 3738 | 3645 | 3643 | 3561 | 3276 | 2992 |
| 65 | Shovels, Backhoes & Hydraulic Excavators | 5116 | 5013 | 4880 | 4783 | 4736 | 4540 | 4298 | 4152 | 3967 | 3688 | 3595 | 3485 | 3395 | 3339 | 3282 | 3213 | 3009 | 2782 |
| 70 | Tractors, Crawlers & Attachments | 5686 | 5606 | 5434 | 5257 | 5068 | 4816 | 4677 | 4555 | 4404 | 4163 | 3918 | 3770 | 3767 | 3791 | 3792 | 3655 | 3349 | 3061 |
| 75 | Tractor, Wheel | 4624 | 4540 | 4527 | 4484 | 4342 | 4270 | 4186 | 4123 | 4018 | 3936 | 3862 | 3820 | 3818 | 3656 | 3557 | 3530 | 3256 | 2927 |
| 80 | Trenchers | 5833 | 5749 | 5670 | 5509 | 5207 | 5015 | 4948 | 4886 | 4753 | 4679 | 4600 | 4586 | 4488 | 4431 | 4360 | 4097 | 3618 | 3153 |
| 85 | Trucks, Highway | 4241 | 4318 | 4293 | 4190 | 4025 | 3838 | 3669 | 3546 | 3495 | 3363 | 3299 | 3282 | 3139 | 3055 | 2934 | 2824 | 2638 | 2324 |
| 90 | Trucks & Wagons - Off-Highway | 5581 | 5440 | 5265 | 4979 | 4837 | 4797 | 4739 | 4617 | 4405 | 4094 | 3915 | 3840 | 3822 | 3786 | 3744 | 3662 | 3363 | 2964 |
| 95 | All Other Equipment | 4892 | 4809 | 4700 | 4598 | 4539 | 4427 | 4305 | 4182 | 4029 | 3845 | 3745 | 3668 | 3626 | 3570 | 3519 | 3439 | 3208 | 2894 |
| 100 | All Tires & Tubes | 2431 | 2475 | 2559 | 2517 | 2525 | 2524 | 2506 | 2470 | 2480 | 2399 | 2322 | 2340 | 2374 | 2421 | 2453 | 2552 | 2506 | 2369 |
| 105 | Marine Equipment | 5429 | 5245 | 5036 | 4951 | 4881 | 4679 | 4438 | 4271 | 4091 | 3920 | 3886 | 3863 | 3749 | 3633 | 3497 | 3391 | 3239 | 2922 |

EK = Economic Key

APPENDIX F TIRE DESCRIPTION AND TIRE COST

| | | | | | | TUBE | COST |
|---------|---------------------|-------------------|--------------|---------|-----|------|----------|
| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | (1) | PER EACH |
| LT TRUC | K/RECREATIONAL | L VEHICLE, RADIAL | | | | | |
| WORK | HORSE EXTRA GRIP | RADIAL | (Life = 5000 | 0 hrs) | | | |
| ABAA3 | | LT265/75R16 | 10.40 x | 16.00 | 10 | TL | \$254 |
| WRANG | GLER RADIAL AT | | (Life = 5000 | 0 hrs) | | | |
| ABAC1 | | LT235/75R15 | 9.25 x | 15.00 | 6 | TL | \$216 |
| ABAC2 | | 31-1050R15 | 10.50 x | 15.00 | 6 | TL | \$177 |
| SERVIC | CE TRAILER - MARAT | HON RADIAL | (Life = 5000 | 0 hrs) | | | |
| ABBF1 | | ST175/80R13 | 7.00 x | 13.00 | 4 | TL | \$101 |
| ABBF3 | | ST185/80R13 | 7.20 x | 13.00 | 6 | TL | \$128 |
| ABBF5 | | ST205/75R14 | 8.00 x | 14.00 | 6 | TL | \$141 |
| ABBF8 | | ST205/75R15 | 8.00 x | 15.00 | 6 | TL | \$143 |
| ABBF6 | | ST215/75R14 | 8.50 x | 14.00 | 6 | TL | \$152 |
| ABBF9 | | ST225/75R15 | 8.80 x | 15.00 | 6 | TL | \$154 |
| ABBF10 | | ST225/75R15 | 8.80 x | 15.00 | 8 | TL | \$164 |
| LT TRUC | K/RECREATIONAL | L VEHICLE, BIAS | | | | | |
| WORK | HORSE RIB | | (Life = 5000 | 0 hrs) | | | |
| ACBA2 | | 700-15LT | 8.30 x | 15.00 | 8 | TL | \$242 |
| ACBA7 | | 875-16.5LT | 8.80 x | 16.50 | 10 | TL | \$281 |
| ACBA4 | | 750-16LT | 8.90 x | 16.00 | 10 | TL | \$279 |
| ACBA9 | | 950-16.5LT | 9.60 x | 16.50 | 10 | TL | \$308 |
| TRACT | ION HI-MILER | | (Life = 5000 | 0 hrs) | | | |
| ACBC1 | | 6.70-15LT | 7.50 x | 15.00 | 6 | TL | \$248 |
| ACBC3 | | 8-14.5LT | 8.00 x | 14.50 | 12 | TL | \$189 |
| ACBC4 | | 9-14.5LT | 9.50 x | 14.50 | 12 | TL | \$218 |
| CUSTO | M HI-MILER | | (Life = 5000 | 0 hrs) | | | |
| ACBD1 | | 12-16.5LT | 12.10 x | 16.50 | 12 | TL | \$818 |
| OVER-TH | IE-ROAD TRUCK, | COMMERCIAL, RAD | <u>IAL</u> | | | | |
| COMM | ERICAL RADIAL LT TI | RUCK | (Life = 5000 | 0 hrs) | | | |
| ADCA2 | | LT225/75R16 | 7.50 x | 16.00 | 10 | TL | \$299 |
| ADCA17 | | 8R19.5 | 8.00 x | 19.50 | 10 | TL | \$503 |
| ADCA18 | | 8R195 | 8.00 x | 19.50 | 12 | TL | \$343 |

(1) TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | Ē | PLY | TUBE (1) | COST PER EACH |
|---------|-------------------|------------------|------------|----------|-----|----------|------------------|
| ADCA4 | | LT215/85R16 | 8.50 x | 16.00 | 10 | TL | \$250 |
| ADCA3 | | LT215/85R16 | 8.50 x | 16.00 | 8 | TL | \$245 |
| ADCA1 | | 750R16LT | 8.70 x | 16.00 | 8 | TL | \$218 |
| ADCA6 | | LT225/75R16 | 8.80 x | 16.00 | 10 | TL | \$204 |
| ADCA19 | | 225/70R195 | 8.85 x | 19.50 | 12 | TL | \$351 |
| ADCA8 | | LT235/85R16 | 9.25 x | 16.00 | 10 | TL | \$213 |
| ADCA21 | | 245/70R195 | 9.65 x | 19.50 | 14 | TL | \$393 |
| ADCA11 | | LT245/75R16 | 9.80 x | 16.00 | 10 | TL | \$221 |
| СОММ | ERCIAL RADIAL TRU | CK TL | (Life = 50 | 00 hrs) | | | |
| ADCB2 | | 9R175 | 9.00 x | 17.50 | 16 | TL | \$520 |
| ADCB5 | | 9R22.5 | 9.00 x | 22.50 | 12 | TL | \$368 |
| ADCB3 | | 10R175 | 10.00 x | 17.50 | 16 | TL | \$559 |
| ADCB7 | | 10R22.5 | 10.00 x | 22.50 | 14 | TL | \$524 |
| ADCB4 | | 11R17.5 | 11.00 x | 17.50 | 16 | TL | \$506 |
| ADCB8 | | 11R22.5 | 11.00 x | 22.50 | 16 | TL | \$803 |
| ADCB13 | | 11R24.5 | 11.00 x | 24.50 | 16 | TL | \$855 |
| ADCB10 | | 12R22.5 | 12.00 x | 22.50 | 16 | TL | \$926 |
| ADCB14 | | 12R24.5 | 12.00 x | 24.50 | 16 | TL | \$959 |
| LOW P | ROFILE RADIAL TRU | CK TL | (Life = 50 | 00 hrs) | | | |
| ADCC1 | | 215/75R175 | 8.40 x | 17.50 | 16 | TL | \$549 |
| ADCC5 | | 245/75R22.5 | 9.60 x | 22.50 | 14 | TL | \$403 |
| ADCC3 | | 255/70R22.5 | 10.00 x | 22.50 | 16 | TL | \$486 |
| ADCC2 | | 265/70R19.5 | 10.40 x | 19.50 | 14 | TL | \$426 |
| ADCC6 | | 265/75R22.5 | 10.40 x | 22.50 | 14 | TL | \$489 |
| ADCC4 | | 275/70R22.5 | 10.80 x | 22.50 | 16 | TL | \$562 |
| ADCC12 | | 285/75R24.5 | 11.20 x | 24.50 | 14 | TL | \$491 |
| ADCC8 | | 295/75R22.5 | 11.60 x | 22.50 | 16 | TL | \$716 |
| ADCC10 | | 315/80R22.5 | 12.40 x | 22.50 | 18 | TL | \$1,134 |
| SUPER | R SINGLE COMMERCI | AL RADIAL TRUCK | (Life = 50 | 00 hrs) | | | |
| ADCD1 | | 385/65R22.5 | 15.10 x | 22.50 | 18 | TL | \$943 |
| ADCD2 | | 425/65R22.5 | 16.70 x | 22.50 | 20 | TL | \$1,058 |
| ADCD3 | | 445/65R22.5 | 17.50 x | 22.50 | 20 | TL | \$1,196 |
| СОММ | ERCIAL RADIAL TRU | СКТТ | (Life = 50 | 00 hrs) | | | |
| ADCE1 | | 825R15 | 8.25 x | 15.00 | 14 | TT | \$393 |
| ADCE5 | | 9.00R20 | 8.25 x | 20.00 | 12 | TT | \$513 |

⁽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 |
|---------|-------------------|------------------|------------|----------|-----|----------|------------------|
| ADCE6 | | 9.00R20 | 9.00 x | 20.00 | 12 | TT | \$538 |
| ADCE3 | | 1000R15 | 10.00 x | 15.00 | 14 | TT | \$568 |
| ADCE7 | | 1000R20 | 10.00 x | 20.00 | 14 | TT | \$606 |
| ADCE13 | | 10R22.5 | 10.00 x | 22.50 | 12 | TL | \$607 |
| ADCE12 | | 365/80R20 | 10.40 x | 20.00 | 18 | TT | \$1,305 |
| ADCE9 | | 1100R20 | 11.00 x | 20.00 | 16 | TT | \$703 |
| ADCE10 | | 1100R20 | 11.00 x | 20.00 | 16 | TT | \$887 |
| ADCE14 | | 1100R22 | 11.00 x | 22.00 | 16 | TT | \$834 |
| ADCE15 | | 1100R24 | 11.00 x | 24.00 | 16 | TT | \$833 |
| ADCE11 | | 1200R20 | 12.00 x | 20.00 | 18 | TT | \$858 |
| ADCE17 | | 1200R24 | 12.00 x | 24.00 | 18 | TT | \$950 |
| FARM, F | RONT | | | | | | |
| DYNA | RIB F-2-M | | (Life = 50 | 00 hrs) | | | |
| AFED2 | F-2M | 1000-16 | 10.00 x | 16.00 | 8 | TL | \$350 |
| AFED1 | F-2M | 11L-15 | 11.00 x | 15.00 | 6 | TL | \$338 |
| 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 | \$1,015 |
| AFED6 | F-2M | 14L-161 | 14.00 x | 16.10 | 10 | TL | \$884 |
| AFED7 | F-2M | 165L-161 | 16.50 x | 16.10 | 8 | TL | \$1,128 |
| SINGL | E RIB FRONT TRACT | OR F-1 | (Life = 50 | 00 hrs) | | | |
| AFEE1 | F-1 | 600-16 | 6.00 x | 16.00 | 4 | TT | \$251 |
| FARM | HIGHWAY SERVICE | | (Life = 50 | 00 hrs) | | | |
| AFEF2 | I-1 | 95L-15FI | 9.50 x | 15.00 | D | TL | \$282 |
| FARM | UTILITY | | (Life = 50 | 00 hrs) | | | |
| AFEG7 | I-1 | 750-14 | 7.50 x | 14.00 | 4 | TL | \$233 |
| AFEG14 | I-1 | 760-15 | 7.60 x | 15.00 | 8 | TL | \$203 |
| AFEG8 | I-1 | 85L-14 | 8.50 x | 14.00 | 6 | TL | \$210 |
| AFEG1 | I-1 | 95L-14 | 9.50 x | 14.00 | 6 | TT | \$205 |
| AFEG17 | I-1 | 95L-15 | 9.50 x | 15.00 | 12 | TL | \$302 |
| AFEG18 | I-1 | 1000-15 | 10.00 x | 15.00 | 8 | TL | \$356 |
| AFEG11 | I-1 | 11L-14 | 11.00 x | 14.00 | 8 | TL | \$271 |
| AFEG22 | I-1 | 11L-15 | 11.00 x | 15.00 | 10 | TL | \$310 |
| AFEG20 | I-1 | 11L-15 | 11.00 x | 15.00 | 8 | TL | \$227 |
| AFEG34 | I-1 | 11L-16 | 11.00 x | 16.00 | 10 | TL | \$312 |

⁽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 |
|---------|------------------|------------------|------------|----------|-----|----------|------------------|
| AFEG25 | I-1 | 125L-15 | 12.50 x | 15.00 | 12 | TL | \$388 |
| AFEG30 | I-1 | 125L-16 | 12.50 x | 16.00 | 12 | TL | \$451 |
| AFEG29 | I-1 | 125L-16 | 12.50 x | 16.00 | 8 | TL | \$398 |
| AFEG28 | I-1 | 14L-161 | 14.00 x | 16.10 | 12 | TL | \$681 |
| AFEG31 | I-1 | 165L-161 | 16.50 x | 16.10 | 10 | TL | \$677 |
| AFEG32 | I-1 | 19L-161 | 19.00 x | 16.10 | 10 | TL | \$891 |
| AFEG27 | I-1 | 215L-161 | 21.50 x | 16.10 | 14 | TL | \$1,449 |
| FOUR | RIB FRONT TRACTO | R F-2-M | (Life = 50 | 00 hrs) | | | |
| AFEH1 | F-2M | 750-16 | 7.50 x | 16.00 | 6 | TT | \$232 |
| AFEH3 | F-2M | 1000-16 | 10.00 x | 16.00 | 8 | TT | \$323 |
| AFEH4 | F-2M | 1100-16 | 11.00 x | 16.00 | 8 | TT | \$427 |
| IMPLE | MENT RIB | | (Life = 50 | 00 hrs) | | | |
| TFEK11 | I-1 | 4.00-18 | 4.00 x | 18.00 | 4 | TT | \$171 |
| AFEK4 | I-1 | 500-15 | 5.00 x | 15.00 | 4 | TL | \$126 |
| AFEK16 | I-1 | 590-15 | 5.90 x | 15.00 | 4 | TL | \$171 |
| AFEK6 | I-1 | 600-16 | 6.00 x | 16.00 | 6 | TL | \$175 |
| AFEK7 | I-1 | 650-16 | 6.50 x | 16.00 | 6 | TL | \$175 |
| AFEK5 | I-1 | 670-15 | 6.70 x | 15.00 | 6 | TL | \$169 |
| AFEK9 | I-1 | 750-16 | 7.50 x | 16.00 | 10 | TL | \$292 |
| AFEK13 | I-1 | 900-24 | 9.00 x | 24.00 | 8 | TL | \$637 |
| AFEK14 | I-1 | 1125-28 | 11.25 x | 28.00 | 12 | TL | \$1,185 |
| LABO | RER F-3 | | (Life = 50 | 00 hrs) | | | |
| AFEL6 | F-3 | 145/75-161 | 5.70 x | 16.10 | 10 | TL | \$785 |
| AFEL2 | F-3 | 11L-15 | 11.00 x | 15.00 | 10 | TL | \$349 |
| AFEL4 | F-3 | 11L-16 | 11.00 x | 16.00 | 10 | TL | \$325 |
| AFEL5 | F-3 | 11L-16 | 11.00 x | 16.00 | 12 | TL | \$372 |
| MULTI | -RIB F-3 | | (Life = 50 | 00 hrs) | | | |
| AFEM1 | F-3 | 900-10 | 9.00 x | 10.00 | 10 | TT | \$236 |
| TFEM2 | F-3 | 1100-16 | 11.00 x | 16.00 | 12 | TL | \$564 |
| SMOO | тн | | (Life = 50 | 00 hrs) | | | |
| AFEN1 | I-1 | 169-30 | 16.90 x | 30.00 | 6 | TL | \$1,354 |
| SMOO | TH IMP | | (Life = 50 | 00 hrs) | | | |
| AFEO1 | | 4.00-8 | 4.00 x | 8.00 | 4 | TL | \$127 |
| AFEO3 | | 600-16 | 6.00 x | 16.00 | 10 | TL | \$394 |

⁽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 | COST PER EACH |
|----------------|-----------------|------------------|--------------------------|-------|----------|------------------|
| AFEO2 | | 11L-15 | 11.00 x 15. | 00 10 | TL | \$378 |
| SOFTE | DAC II | | (Life = 5000 hr | s) | | · |
| AFEP1 | I-2 | 165L-161 | 16.50 x 16. | | TL | \$760 |
| AFEP3 | I-2 | 215L-161 | 21.50 x 16. | | TL | \$1,734 |
| | | 2131-101 | | | '- | ψ1,734 |
| | R RIB F-2 | | (Life = 5000 hr. | | | |
| TFER1 | F-2 | 400-12 | 4.00 x 12. | 00 4 | TT | \$119 |
| COMP | ACT UTILITY R-1 | | (Life = 5000 hr | s) | | |
| TFES2 | | 5-12 | 5.00 x 12. | 00 4 | TL | \$127 |
| AFES1 | | 7-16 | 7.00 x 16. | 00 6 | TL | \$277 |
| SURE | GRIP IMPLEMENT | | (Life = 5000 hr | s) | | |
| AFET1 | I-3 | 105/80-18 | 10.50 x 18. | 00 10 | TL | \$722 |
| AFET2 | I-3 | 12.5/80-18 | 12.50 x 18. | | TL | \$776 |
| SIIDE | GRIP LUG | | (Life = 5000 hr | s) | | |
| AFEU2 | I-3 | 105/80-18 | 10.50 x 18. | | TL | \$594 |
| AFEU1 | I-3 | 124-16 | 10.30 x 18. | | TL | \$880 |
| AFEU3 | I-3 | 12.5/80-18 | 12.50 x 18. | | TL | \$720 |
| | | .2.6,60 | (Life = 5000 hr | | | 4.20 |
| | GRIP TRACTION | 070.45 | • | | | 0004 |
| AFEV1 | I-3 | 670-15 | 6.70 x 15. | | TT | \$224 |
| AFEV5 AFEV2 | I-3 I-3 | 750-16 750-18 | 7.50 x 16. 7.50 x 18. | | TL | \$345 \$341 |
| AFEV3 | I-3 | 750-10 | 7.50 x 18. | | TT | \$386 |
| AFEV4 | I-3 | 760-15 | 7.60 x 15. | | TL | \$297 |
| | | | (Life = 5000 hr | | | , , , |
| | FION IMPLEMENT | E00.4E | | | | \$046 |
| AFEW1 AFEW2 | I-3 I-3 | 500-15 590-15 | 5.00 x 15. 5.90 x 15. | | TL TL | \$216 \$231 |
| ALLVVZ | 1-3 | 390-13 | | | 1. | φΖΟΙ |
| TRIPL | E RIB HD | | (Life = 5000 hr | s) | | |
| AFEX8 | F-2 | 550-16 | 5.50 x 16. | 00 6 | TT | \$137 |
| AFEX10 | F-2 | 600-16 | 6.00 x 16. | 00 6 | TT | \$156 |
| AFEX11 | F-2 | 650-16 | 6.50 x 16. | 00 6 | TT | \$195 |
| AFEX4 | F-2 | 75L-15 | 7.50 x 15. | 00 6 | TT | \$192 |
| AFEX18 | F-2 | 750-16 | 7.50 x 16. | | TL | \$229 |
| AFEX13 | F-2 | 750-16 | 7.50 x 16. | 00 8 | TT | \$237 |

⁽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 |
|-------------------|---------------|------------------|--------------|-------|-------|----------|------------------|
| AFEX14 | F-2 | 750-18 | 7.50 x | 18.00 | 6 | TT | \$265 |
| AFEX5 | F-2 | 95L-15 | | 15.00 | 8 | TT | \$305 |
| AFEX16 | F-2 | 1000-16 | | 16.00 | 8 | TL | \$377 |
| AFEX6 | F-2 | 11L-15 | 11.00 x | 15.00 | 8 | TT | \$338 |
| AFEX17 | F-2 | 1100-16 | 11.00 x | 16.00 | 8 | TL | \$474 |
| TRIPL | E RIB R/S F-2 | | (Life = 5000 | hrs) | | | |
| AFEY2 | F-2 | 400-15 | 4.00 x | 15.00 | 4 | TT | \$164 |
| AFEY1 | F-2 | 500-15 | 5.00 x | 15.00 | 4 | TT | \$156 |
| DURA ⁻ | TORQUE R-1 | | (Life = 5000 | hrs) | | | |
| AFFU3 | R-1 | 8-16 | 8.00 x | 16.00 | 6 | TL | \$345 |
| FARM, R | EAR | | | | | | |
| ALL TI | RACTION R-3 | | (Life = 5000 | hrs) | | | |
| AGFA1 | R-3 | 750-16 | 7.50 x | 16.00 | 4 | TT | \$322 |
| ALL W | EATHER R-3 | | (Life = 5000 | hrs) | | | |
| AGFB2 | R-3 | 95-24 | 9.50 x | 24.00 | 4 | TT | \$584 |
| AGFB7 | R-3 | 136-161 | 13.60 x | 16.10 | 8 | TL | \$999 |
| AGFB5 | R-3 | 136-28 | 13.60 x | 28.00 | 6 | TT | \$1,087 |
| AGFB3 | R-3 | 149-24 | 14.90 x | 24.00 | 6 | TL | \$1,065 |
| AGFB4 | R-3 | 169-24 | 16.90 x | 24.00 | 6 | TL | \$1,248 |
| AGFB8 | R-3 | 184-161 | 18.40 x | 16.10 | 8 | TL | \$1,275 |
| AGFB10 | R-3 | 184-26 | 18.40 x | 26.00 | 12 | TL | \$1,476 |
| AGFB11 | R-3 | 231-26 | 23.10 x | 26.00 | 10 | TL | \$2,309 |
| AGFB12 | R-3 | 231-26 | 23.10 x | 26.00 | 12 | TL | \$2,421 |
| AGFB14 | R-3 | 245-32 | 24.50 x | 32.00 | 12 | TL | \$3,827 |
| AGFB13 | R-3 | 28L-26 | 28.00 x | 26.00 | 16 | TL | \$3,371 |
| AGFB15 | R-3 | 305L-32 | 30.50 x | 32.00 | 12 | TL | \$4,513 |
| AGFB16 | R-3 | 305L-32 VA | 30.50 x | 32.00 | 16 | TL | \$5,741 |
| DT 800 | RADIAL R-1W | | (Life = 5000 | hrs) | | | |
| AGFE1 | R-1W | 320/90R42 | 12.60 x | 42.00 | 139A8 | TL | \$2,257 |
| AGFE3 | R-1W | 320/90R50 | 12.60 x | 50.00 | 148A8 | TL | \$2,952 |
| AGFE2 | R-1W | 380/90R46 | 14.90 x | 46.00 | 149A8 | TL | \$2,913 |
| DT 812 | RADIAL R-1W | | (Life = 5000 | hrs) | | | |
| AGFF1 | R-1W | 380/70R24 | 14.90 x | 24.00 | 125A8 | TL | \$2,231 |
| | | | | Į. | | 1 | ı |

⁽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 |
|---------|-------------------|------------------|-------------|----------|---------|-------------|------------------|
| AGFF2 | R-1W | 420/70R28 | 16.50 x | 28.00 | 133A8 | TL | \$3,111 |
| AGFF3 | R-1W | 480/70R30 | 18.90 x | 30.00 | 152A8 | TL | \$3,159 |
| DT 820 | RADIAL R-1W | | (Life = 500 | 00 hrs) | | | |
| AGFG2 | R-1W | 600/65R28 | 23.60 x | 28.00 | 154A8/B | TL | \$3,869 |
| AGFG1 | R-1W | 620/75R26 | 24.40 x | 26.00 | 166A8 | TL | \$6,478 |
| AGFG5 | R-1W | 620/70R42 | 24.40 x | 42.00 | UK | TL | \$4,477 |
| AGFG3 | R-1W | 650/75R34 | 25.60 x | 34.00 | UK | TL | \$6,124 |
| AGFG4 | R-1W | 710/70R38 | 27.90 x | 38.00 | UK | TL | \$4,870 |
| DYNA | TORQUE RADIAL R-1 | | (Life = 500 | 00 hrs) | | | |
| TGFH5 | R-1 | 320/85R34 | 12.60 x | 34.00 | 132D | TL | \$1,796 |
| AGFH7 | R-1 | 380/85R30 | 14.90 x | 30.00 | ХЗ | TL | \$2,112 |
| AGFH9 | R-1 | 380/85R34 | 14.90 x | 34.00 | Х3 | TL | \$2,358 |
| AGFH15 | R-1 | 380/85R46 | 14.90 x | 46.00 | ХЗ | TL | \$2,801 |
| TGFH6 | R-1 | 385/85R34 | 15.20 x | 34.00 | 141G | TL | \$2,358 |
| AGFH16 | R-1 | 420/80R46 | 16.50 x | 46.00 | UK | TL | \$3,817 |
| AGFH8 | R-1 | 420/90R30 | 16.90 x | 30.00 | Х3 | TT | \$2,394 |
| TGFH2 | R-1 | 480/85R26 | 18.40 x | 26.00 | X2 | TL | \$2,367 |
| AGFH10 | R-1 | 480/80R38 | 18.40 x | 38.00 | 14 | TL | \$2,126 |
| AGFH17 | R-1 | 480/80R46 | 18.40 x | 46.00 | Х3 | TL | \$3,269 |
| AGFH12 | R-1 | 520/85R38 | 20.80 x | 38.00 | 14 | TL | \$2,758 |
| AGFH14 | R-1 | 520/85R42 | 20.80 x | 42.00 | 14 | TL | \$2,992 |
| DYNA | TORQUE II R-1 | | (Life = 500 | 00 hrs) | | | |
| AGFJ29 | R-1 | 112-16 | 11.20 x | 16.00 | 4 | TL | \$522 |
| AGFJ6 | R-1 | 136-24 | 13.60 x | 24.00 | 8 | TT | \$1,080 |
| AGFJ41 | R-1 | 136-28 | 13.60 x | 28.00 | 10 | TL | \$1,377 |
| AGFJ7 | R-1 | 149-24 | 14.90 x | 24.00 | 6 | TL | \$835 |
| AGFJ31 | R-1 | 149-24 | 14.90 x | 24.00 | 8 | TL | \$961 |
| AGFJ42 | R-1 | 149-28 | 14.90 x | 28.00 | 10 | TL | \$1,805 |
| AGFJ8 | R-1 | 169-24 | 16.90 x | 24.00 | 6 | TT | \$1,033 |
| AGFJ39 | R-1 | 169-26 | 16.90 x | 26.00 | 10 | TL | \$2,257 |
| AGFJ43 | R-1 | 169-28 | 16.90 x | 28.00 | 10 | TL | \$2,084 |
| AGFJ37 | R-1 | 169-34 | 16.90 x | 34.00 | 6 | TT | \$1,260 |
| AGFJ23 | R-1 | 169-38 | 16.90 x | 38.00 | 14 | TL | \$2,245 |
| AGFJ40 | R-1 | 184-26 | 18.40 x | 26.00 | 12 | TL | \$1,810 |
| AGFJ18 | R-1 | 184-34 | 18.40 x | 34.00 | | TT | \$1,448 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (1) | COST PER EACH |
|---------|---------------------|------------------|-------------|----------|-----|----------|------------------|
| AGFJ24 | R-1 | 184-38 | 18.40 x | 38.00 | 8 | TT | \$1,511 |
| AGFJ19 | R-1 | 208-34 | 20.80 x | 34.00 | 8 | TT | \$2,518 |
| AGFJ25 | R-1 | 208-38 | 20.80 x | 38.00 | 8 | TT | \$2,016 |
| AGFJ27 | R-1 | 208-42 | 20.80 x | 42.00 | 10 | TL | \$3,385 |
| AGFJ45 | R-1 | 231-26 | 23.10 x | 26.00 | 12 | TL | \$2,552 |
| AGFJ20 | R-1 | 231-34 | 23.10 x | 34.00 | 8 | TT | \$2,821 |
| AGFJ35 | R-1 | 245-32 | 24.50 x | 32.00 | 12 | TL | \$3,184 |
| AGFJ34 | R-1 | 28L-26 | 28.00 x | 26.00 | 12 | TL | \$3,241 |
| AGFJ36 | R-1 | 305L-32 | 30.50 x | 32.00 | 14 | TL | \$4,831 |
| INDUST | TRIAL SURE GRIP R-4 | 4 | (Life = 500 | 00 hrs) | | | |
| AGFK1 | R-4 | 169-30 | 16.90 x | 30.00 | 10 | TT | \$2,868 |
| AGFK3 | R-4 | 184-28 | 18.40 x | 28.00 | 12 | TL | \$1,587 |
| IT510 R | RADIAL R4 | | (Life = 500 | 00 hrs) | | | |
| AGFL3 | R-4 | 195LR24 | 19.50 x | 24.00 | UK | TL | \$2,585 |
| IT525 R | RADIAL R4 | | (Life = 500 | 00 hrs) | | | |
| AGFM1 | R-4 | 149-24 | 14.90 x | 24.00 | 8 | TL | \$962 |
| AGFM4 | R-4 | 169-24 | 16.90 x | 24.00 | 10 | TL | \$978 |
| AGFM12 | R-4 | 169-28 | 16.90 x | 28.00 | 10 | TL | \$1,250 |
| AGFM6 | R-4 | 175L-24 | 17.50 x | 24.00 | 10 | TL | \$1,095 |
| AGFM5 | R-4 | 184-24 | 18.40 x | 24.00 | 12 | TL | \$1,422 |
| AGFM7 | R-4 | 195L-24 | 19.50 x | 24.00 | 10 | TL | \$1,369 |
| AGFM8 | R-4 | 195L-24 | 19.50 x | 24.00 | 12 | TL | \$1,536 |
| AGFM9 | R-4 | 21L-24 | 21.00 x | 24.00 | 12 | TL | \$1,846 |
| AGFM11 | R-4 | 21L-24 | 21.00 x | 24.00 | 16 | TL | \$2,138 |
| AGFM14 | R-4 | 21L-28 | 21.00 x | 28.00 | 14 | TL | \$2,257 |
| POWER | R TORQUE R-1 | | (Life = 500 | 00 hrs) | | | |
| AGFN1 | R-1 | 6-12 | 6.00 x | 12.00 | 4 | TL | \$129 |
| SPECIA | AL SURE GRIP R-2-0 | | (Life = 500 | 00 hrs) | | | |
| AGFO2 | R-2 | 149-24 | 14.90 x | 24.00 | 6 | TL | \$1,989 |
| AGFO11 | R-2 | 184-26 | 18.40 x | 26.00 | 10 | TL | \$2,000 |
| AGFO8 | R-2 | 184-38 | 18.40 x | 38.00 | 8 | TL | \$2,868 |
| AGFO12 | R-2 | VA500/95D32 | 19.70 x | 32.00 | 20 | TL | \$5,608 |
| AGFO10 | R-2 | 208-38 | 20.80 x | 38.00 | 8 | TL | \$2,978 |
| AGFO3 | R-2 | 231-26 | 23.10 x | 26.00 | 10 | TL | \$3,204 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (1) | COST PER EACH |
|-------------------|---------------------------|------------------|------------------|------|----------|------------------|
| AGFO4 | R-2 | 28L-26 | 28.00 x 26.0 | 12 | TL | \$4,459 |
| AGFO6 | R-2 | 305L-32 | 30.50 x 32.0 | 14 | TL | \$5,529 |
| SPECI | AL SURE GRIP RADIA | AL R-2-0 | (Life = 5000 hrs |) | | |
| AGFP8 | R-2 | 320/90R46 | 12.60 x 46.0 |) | TL | \$2,914 |
| AGFP9 | R-2 | 340/85R46 | 13.40 x 46.0 | UK | TL | \$3,150 |
| AGFP6 | R-2 | 520/85R42 | 20.80 x 42.0 |) X2 | TL | \$4,845 |
| SUPER | R TRACTION RADIAL | R-1W | (Life = 5000 hrs |) | | |
| AGFQ3 | R-1W | 260/80R20 | 10.20 x 20.0 | 8 | TL | \$1,242 |
| TGFQ15 | R-1W | 340/85R28 | 13.60 x 38.0 | UK | TL | \$2,351 |
| AGFQ20 | R-1W | 149R24 | 14.90 x 24.0 |) X2 | TL | \$2,438 |
| TGFQ7 | R-1W | 380/85R28 | 14.90 x 28.0 | UK | TL | \$1,785 |
| AGFQ9 | R-1W | 149R30 | 14.90 x 30.0 | UK | TL | \$2,421 |
| AGFQ5 | R-1W | 169R26 | 16.90 x 26.0 | UK | TL | \$3,611 |
| AGFQ8 | R-1W | 169R28 | 16.90 x 28.0 | UK | TL | \$2,598 |
| AGFQ10 | R-1W | 169R30 | 16.90 x 30.0 | UK | TL | \$2,611 |
| AGFQ11 | R-1W | 184R26 | 18.40 x 26.0 | UK | TL | \$2,720 |
| AGFQ12 | R-1W | 460/85R30 | 18.40 x 30.0 | UK | TL | \$3,593 |
| AGFQ14 | R-1W | 460/85R34 | 18.40 x 34.0 | UK | TL | \$4,036 |
| AGFQ16 | R-1W | 184R38 | 18.40 x 38.0 | UK | TL | \$2,611 |
| AGFQ18 | R-1W | 184R42 | 18.40 x 42.0 | UK | TL | \$3,200 |
| AGFQ17 | R-1W | 208R38 | 20.80 x 38.0 | UK | TL | \$3,397 |
| AGFQ13 | R-1W | 800/65R32 | 31.50 x 32.0 | UK | TL | \$5,647 |
| DURA ⁻ | TORQUE R-1 | | (Life = 5000 hrs |) | | |
| AGFU1 | R-1 | 149-28 | 14.90 x 28.0 | 6 | TT | \$806 |
| AGFU2 | R-1 | 169-30 | 16.90 x 30.0 | 6 | TT | \$1,015 |
| AGFU3 | R-1 | 184-30 | 18.40 x 30.0 | 6 | TT | \$1,261 |
| AGFU5 | R-1 | 184-38 | 18.40 x 38.0 | 8 | TT | \$1,519 |
| FARM, T | ERRA - 20" UP | | | | | |
| SFT10 | 5 | | (Life = 5000 hrs |) | | |
| AHGA2 | HF-1 | 54-3100-26 | 31.00 x 26.0 | | TL | \$2,450 |
| SOF T | SOF TRAC (Life = 5000 hrs | |) | | | |
| AHGB3 | HF-1 | 38-1400-20 | 14.00 x 20.0 | | TL | \$729 |
| AHGB2 | HF-1 | 41-1400-20 | 14.00 x 20.00 | | TL | \$729 |
| , IODZ | 1 II = I | T1-1700-20 | 17.00 A 20.00 | ´ | '- | Ψ100 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | İ | PLY | TUBE (1) | COST PER EACH |
|---------|------------------------------|------------------|------------|----------|-----|----------|------------------|
| AHGB1 | HF-1 | 44-1800-20 | 18.00 x | 20.00 | 4 | TL | \$1,088 |
| SUPER | R TERRA GRIP | | (Life = 50 | 00 hrs) | | | |
| AHGC1 | HF-2 | 38-1400-20 | 14.00 x | 20.00 | 8 | TL | \$1,065 |
| AHGC11 | HF-2 | 1000/50R25 | 43.00 x | 25.00 | 20 | TL | \$9,859 |
| SUPER | R TERRA GRIP XT | | (Life = 50 | 00 hrs) | | | |
| AHGD5 | HF-3 | 48-3100-20 | 31.00 x | 20.00 | 12 | TL | \$3,388 |
| AHGD6 | HF-3 | 1000/50R25 | 43.00 x | 25.00 | 10 | TL | \$8,173 |
| AHGD7 | HF-3 | 1050/50R32 | 44.00 x | 32.00 | 16 | TL | \$11,917 |
| TUND | RA GRIP | | (Life = 50 | 00 hrs) | | | |
| AHGF2 | HF-1 | 1050/50R25 | 44.00 x | 25.00 | 16 | TL | \$12,242 |
| AHGF1 | HF-1 | 66-4400-25 | 44.00 x | 25.00 | 20 | TL | \$11,752 |
| FARM, S | PECIALTY | | | | | | |
| SOFTE | RAC | | (Life = 50 | 00 hrs) | | | |
| TJHB2 | | 18-6.50-8/2 | 6.50 x | 17.20 | 2.0 | TL | \$43 |
| TJHB3 | | 18-850-10 | 8.50 x | 10.00 | 4 | TL | \$151 |
| AJHB1 | HF-1 | 25-850-14 | 8.50 x | 14.00 | 6 | TL | \$284 |
| AJHB5 | HF-1 | 27-850-15 | 8.50 x | 15.00 | 4 | TL | \$289 |
| AJHB4 | HF-1 | 25-1050-15 | 10.50 x | 15.00 | 4 | TL | \$303 |
| AJHB6 | HF-1 | 27-1050-15 | 10.50 x | 15.00 | 4 | TL | \$359 |
| AJHB7 | HF-1 | 29-1250-15 | 12.50 x | 15.00 | 4 | TL | \$391 |
| AJHB10 | HF-1 | 31-1250-15 | 12.50 x | 15.00 | 4 | TL | \$433 |
| AJHB11 | HF-1 | 33-1250-15 | 12.50 x | 15.00 | 4 | TL | \$506 |
| AJHB8 | HF-1 | 31-1350-15 | 13.50 x | 15.00 | 4 | TL | \$476 |
| AJHB9 | HF-1 | 31-1550-15 | 15.50 x | 15.00 | 4 | TL | \$550 |
| SUPER | R TERRA GRIP | | (Life = 50 | 00 hrs) | | | |
| AJHC3 | HF-2 | 29-1250-15 | 12.50 x | 15.00 | 6 | TL | \$401 |
| AJHC6 | HF-2 | 31-1550-15 | 15.50 x | 15.00 | 8 | TL | \$704 |
| AJHC7 | HF-2 | 38-2000-16.1 | 20.00 x | 16.00 | 8 | TL | \$1,436 |
| SURE | URE GRIP LUG (Life = 5000 hr | | 00 hrs) | | | | |
| AJHD9 | HF-2 | 27-850-15 | 8.50 x | 15.00 | 6 | TL | \$331 |
| AJHD1 | | 10-16.5 | 10.00 x | 16.50 | 6 | TL | \$359 |
| AJHD10 | HF-2 | 27-1050-15 | 10.50 x | 15.00 | 6 | TL | \$317 |
| AJHD4 | | 12-165 | 12.00 x | 16.50 | 10 | TL | \$418 |

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APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | ! | PLY | TUBE (1) | COST PER EACH |
|---------|---------------------|---------------------|------------|----------|------|----------|------------------|
| AJHD3 | | 12-165 | 12.00 x | 16.50 | 8 | TL | \$381 |
| AJHD5 | I-3 | 14-17.5 | 14.00 x | 17.50 | 10 | TL | \$741 |
| AJHD6 | I-3 | 15-19.5 | 15.00 x | 19.50 | 12 | TL | \$858 |
| IT 323 | | | (Life = 50 | 00 hrs) | | | |
| AJHE1 | | 10-165 | 10.00 x | 16.50 | 8 | TL | \$368 |
| AJHE3 | | 12-165 | 12.00 x | 16.50 | 10 | TL | \$467 |
| AJHE4 | | 31-1550-15 | 15.50 x | 15.00 | 8 | TL | \$1,233 |
| POWE | R RIB | | (Life = 50 | 00 hrs) | | | |
| TJHJ1 | | 18-850-8 | 8.50 x | 8.00 | 4 | TL | \$122 |
| TJHJ2 | | 20X10.00-10 | 8.80 x | 20.80 | 4 | TL | \$81 |
| RALLY | , | | (Life = 50 | 00 hrs) | | | |
| TJHK1 | | 480-8 | 4.80 x | 8.00 | 6.0 | TL | \$59 |
| TJHK2 | | 18X9.50-8 | 9.50 x | 18.50 | 6.0 | TL | \$72 |
| TERRA | A RIB | | (Life = 50 | 00 hrs) | | | |
| AJHM2 | HF-1 | 25-750-15 | 7.50 x | 15.00 | 6 | TL | \$213 |
| AJHM4 | HF-1 | 27-950-15 | 9.50 x | 15.00 | 10 | TL | \$325 |
| AJHM6 | HF-1 | 31-1350-15 | 13.50 x | 15.00 | 8 | TL | \$546 |
| ATV | | | (Life = 50 | 00 hrs) | | | |
| TJHN1 | | AT21-7-10 | 7.00 x | 10.00 | Х3 | TL | \$127 |
| TJHN3 | | AT23-8-11 | 8.00 x | 11.00 | 6 | TL | \$140 |
| TJHN5 | | AT24-9-11 | 9.00 x | 11.00 | 6 | TL | \$162 |
| TRACK | (ER ATT | | (Life = 50 | 00 hrs) | | | |
| TJHT1 | | AT24-8-11 | 8.00 x | 11.00 | X2 | TL | \$185 |
| TJHT2 | | AT24-10-11 | 10.00 x | 11.00 | X2 | TL | \$172 |
| INDUSTE | RIAL, MINE SERVI | <u>CE</u> | | | | | |
| HVDD | ROCK LUG MINE & IN | INIISTRIAI | (Life = 50 | 00 hrs) | | | |
| TKJC1 | NOON LOG WIINE & II | 10.00-20 | 10.00 x | 20.00 | 16.0 | TT | \$1,010 |
| | TRACTION LUG | | (Life = 50 | 00 hrs) | | | |
| AKJD2 | INACION LOC | 825-15 | 8.25 x | 15.00 | 16 | TT | \$945 |
| AKJD7 | | 24x12x12 | 12.00 x | 12.00 | 24 | TL | \$606 |
| AKJD6 | | 35-15x15(14.50L-15) | 15.00 x | 15.00 | 28 | TL | \$1,636 |

⁽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 |
|---------|-----------------------------|-------------------------|------------|----------|-----|----------|------------------|
| XTRA 1 | TRACTION GRIP | | (Life = 50 | 00 hrs) | | | |
| AKJE1 | | 32x15-15 | 15.00 x | 15.00 | 24 | TL | \$1,503 |
| OFF-THE | -ROAD, MED & HI | EAVY COMMERCIAL, | RADIAL | | | | |
| G-2 GR | RADER SERVICE - RL | 2F, SG2B | (Life = 32 | 00 hrs) | | | |
| AMLA1 | G2 | 14.00R24 | 14.00 x | 24.00 | X1 | TL | \$1,688 |
| E-2 HA | ULAGE SERVICE - RI | _2F/GP2B RL2+ | (Life = 28 | 00 hrs) | | | |
| AMLB1 | E/L/G3 | 17.5R25 | 17.50 x | 25.00 | X1 | TL | \$1,959 |
| AMLB8 | L5 | 1800R25 | 18.00 x | 25.00 | X2 | TL | \$5,904 |
| AMLB2 | E/L/G3 | 20.5R25 | 20.50 x | 25.00 | X1 | TL | \$2,652 |
| AMLB9 | E/L/G3 | 20.5R25 | 20.50 x | 25.00 | X2 | TL | \$2,652 |
| AMLB15 | E4 | 21.00R35 | 21.00 x | 35.00 | X2 | TL | \$9,855 |
| AMLB3 | E/L/G3 | 23.5R25 | 23.50 x | 25.00 | X1 | TL | \$3,213 |
| AMLB10 | E/L/G3 | 23.5R25 | 23.50 x | 25.00 | X2 | TL | \$3,213 |
| AMLB22 | E/L 3 | 29.5R25 | 29.50 x | 25.00 | X2 | TL | \$6,606 |
| AMLB21 | E/L/G 3+T | 295R29 | 29.50 x | 29.00 | X2 | TL | \$8,791 |
| FMLB23 | E3 | 40.5/75R39 | 40.50 x | 39.00 | X2 | TL | \$13,164 |
| E-3 HA | ULAGE SERVICE - RO | OCK DESIGN RL3, RL3J, R | (Life = 28 | 00 hrs) | | | |
| AMLC3 | E3+ | 1800R33 | 18.00 x | 33.00 | Х3 | TL | \$6,127 |
| AMLC5 | E3+ | 24.00R35 | 24.00 x | 35.00 | X2 | TL | \$9,850 |
| AMLC6 | E3 | 29.5R29 | 29.50 x | 29.00 | X2 | TL | \$8,398 |
| FMLC8 | E3 | 37.25R35 | 37.35 x | 35.00 | X2 | TL | \$10,440 |
| E-4 RL | 4J/RL4 & RL4H/RL4 | E4 | (Life = 50 | 00 hrs) | | | |
| AMLD2 | E4 | 14.00R24 | 14.00 x | 24.00 | Х3 | TL | \$2,910 |
| AMLD3 | E4 | 14.00R25 | 14.00 x | 25.00 | Х3 | TL | \$2,910 |
| AMLD4 | E4 | 1800R25 | 18.00 x | 25.00 | X2 | TL | \$4,843 |
| AMLD14 | E4 | 21.00R35 | 21.00 x | 35.00 | X2 | TL | \$9,855 |
| AMLD7 | E4 | 27.00R49 | 27.00 x | 49.00 | X2 | TL | \$21,706 |
| FMLD9 | E4 | 33.00R51 | 33.00 x | 51.00 | X2 | TL | \$17,703 |
| FMLD11 | E4 | 37.00R57 | 37.00 x | 57.00 | X2 | TL | \$24,058 |
| MOBIL | MOBILE CRANE (Life = 5000 h | | | | | | |
| AMLF1 | E/L/G3 | 445/95R25 | 17.50 x | 25.00 | UK | TL | \$2,497 |
| AMLF3 | E/L/G3 | 525/80R25 (20.5R25) | 20.60 x | 25.00 | UK | TL | \$2,652 |

⁽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 |
|---------------------------------------|---|------------------|-------------|----------|------|----------|------------------|
| SPECI | AL SERVICE - AT2A | | (Life = 500 | 00 hrs) | | | |
| AMLH1 | E/L/G 3 | 14.00R20 | 14.00 x | 20.00 | 18 | TL | \$2,110 |
| AMLH3 | E/L/G 3 | 16.00R20 | 16.00 x | 20.00 | 22 | TL | \$2,519 |
| AMLH2 | E/L/G3 | 17.5R25 | 17.50 x | 25.00 | X1 | TL | \$1,959 |
| E-3 RC | OCK SERVICE SUPER | HARD ROCK LUG | (Life = 280 | 00 hrs) | | | |
| AMMF1 | L3 | 26.5-25 | 26.50 x | 25.00 | 24 | TL | \$5,445 |
| OFF-THE | E-ROAD, MED & H | EAVY COMMERCIAL, | BIAS | | | | |
| E-1 HR | PP 1Δ | | (Life = 250 | 00 hrs) | | | |
| ANMB1 | E3 | 1400-24 | 14.00 x | 24.00 | 20 | TT | \$2,327 |
| F-2 TR | ACTION EARTHMOV | FR SURF GRIP | (Life = 280 | 00 hrs) | | | |
| ANMC3 | E7 | 18.00-25 | 18.00 x | 25.00 | 16 | TL | \$2,335 |
| E-3 ROCK SERVICE HARD ROCK LUG/HRL WC | | (Life = 286 | 00 hrs) | | | | |
| ANME1 | E3 | 12.00-20 | 12.00 x | 20.00 | 20 | TT | \$1,309 |
| ANME2 | E3 | 12.00-24 | 12.00 x | 24.00 | 16 | TT | \$1,454 |
| ANME3 | E3 | 14.00-24 | 14.00 x | 24.00 | 28 | TT | \$2,187 |
| ANME6 | E3 | 1600-25 | 16.00 x | 25.00 | 28 | TL | \$3,897 |
| E-3 RC | OCK SERVICE SUPER | HARD ROCK LUG | (Life = 280 | 00 hrs) | | | |
| TNMF4 | L5 | 29.5-25 | 29.50 x | 25.00 | 28 | TL | \$10,398 |
| TNMF5 | L4 | 29.5-29 | 29.50 x | 29.00 | 28 | TL | \$9,053 |
| TNMF6 | E3 | 29.5-29 | 29.50 x | 29.00 | 34 | TL | \$8,175 |
| E-3 RC | OCK SERVICE SHRL8 | | (Life = 280 | 00 hrs) | | | |
| TNMG8 | E-3 | 29.5-25 | 29.50 x | 25.00 | 28.0 | TL | \$7,460 |
| TNMG9 | E-3 | 29.5-25 | 29.50 x | 25.00 | 34.0 | TL | \$8,276 |
| TNMG7 | E-3/L-3 | 33.25-29 | 33.25 x | 29.00 | 38.0 | TL | \$10,640 |
| TNMG6 | E3 | 33.25-35 | 33.25 x | 35.00 | 38 | TL | \$12,783 |
| ANMG7 | E3 | 37.25-35 | 37.25 x | 35.00 | 36 | TL | \$12,449 |
| ANMG9 | E3 | 375-39 | 37.50 x | 39.00 | 52 | TL | \$15,301 |
| E-3 RC | E-3 ROCK SERVICE ELV3A, ELV4B, ELV4/5A (Life = 2800 hrs) | | | | | | |
| ANMH9 | IND 3 | 1800-25 | 18.00 x | 25.00 | 40 | TL | \$4,403 |
| ANMH4 | IND 5S | 18.00-25 | 18.00 x | 25.00 | 40 | TL | \$5,596 |

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | TUBE (1) | COST PER EACH |
|------------------------------------|--------------------|------------------|--------------------|----------|-----|----------|------------------|
| E-3 RC | OCK SERVICE HRL 3F | | (Life = 286 | 00 hrs) | | | |
| ANMJ5 | E3 | 37.25-35 | 37.25 x | 35.00 | 36 | TL | \$13,105 |
| ANMJ6 | E3 | 3725-35 | 37.25 x | 35.00 | 36 | TL | \$13,105 |
| ANMJ2 | E3 | 3725-35 | 37.25 x | 35.00 | 36 | TL | \$13,105 |
| E-3 RC | OCK SERVICE WRL 3 | 4 | (Life = 286 | 00 hrs) | | | |
| ANML1 | E3 | 14.00-20 | 14.00 x | 20.00 | 24 | TT | \$1,927 |
| ANML2 | E3 | 14.00-24 | 14.00 x | 24.00 | 24 | TT | \$2,042 |
| E-4 R | OCK SERVICE HRL 4E | 3 | (Life = 500 | 00 hrs) | | | |
| ANMN1 | E4 | 16.00-25 | 16.00 x | 25.00 | 28 | TL | \$4,169 |
| ANMN4 | E4 | 21.00-35 | 21.00 x | 35.00 | 36 | TL | \$9,291 |
| ANMN5 | E4 | 24.00-35 | 24.00 x | 35.00 | 42 | TL | \$9,667 |
| ANMN9 | E4 | 36.00-51 | 36.00 x | 51.00 | 58 | TL | \$26,709 |
| E-7 FLOTATION TYPE SAND RIB SRB 7A | | (Life = 30 | 00 hrs) | | | | |
| TNMQ1 | E7 | 14.00-20 | 14.00 x | 20.00 | 10 | TL | \$1,448 |
| TNMQ2 | E7 | 16.00-24 | 16.00 x | 24.00 | 12 | TL | \$2,852 |
| TNMQ3 | E7 | 18.00-25 | 18.00 x | 25.00 | 16 | TL | \$3,701 |
| E-7 FL | OTATION TYPE PAVE | R TIRE | (Life = 3000 hrs) | | | | |
| ANMR1 | E7 | 1600-24 | 16.00 x | 24.00 | 12 | TL | \$1,779 |
| G-2 S | GG2A | | (Life = 326 | 00 hrs) | | | |
| TNMT10 | G2 | 13.00-24 | 13.00 x | 24.00 | 12 | TL | \$860 |
| TNMT6 | G-2 | 14.00-24 | 14.00 x | 24.00 | 14 | TL | \$1,055 |
| TNMT8 | G2 | 16.00-24 | 16.00 x | 24.00 | 16 | TL | \$2,133 |
| G-2 S | SLDL 2A L2 | | (Life = 326 | 00 hrs) | | | |
| ANMV3 | L2/G2 | 17.5-25 | 17.50 x | 25.00 | 12 | TL | \$921 |
| ANMV2 | L2/G2 | 17.5-25 | 17.50 x | 25.00 | 12 | TL | \$921 |
| ANMV4 | L2/G2 | 17.5-25 | 17.50 x | 25.00 | 16 | TL | \$1,021 |
| ANMV5 | L2/G2 | 17.5-25 | 17.50 x | 25.00 | 20 | TL | \$1,121 |
| G-2 S0 | SLEL 2A ES/L2/G2 | | (Life = 320 | 00 hrs) | | | |
| TNMW1 | L2 | 20.5-25 | 20.50 x | 25.00 | 12 | TL | \$1,842 |
| TNMW2 | L2 | 20.5-25 | 20.50 x | 25.00 | 16 | TL | \$1,986 |
| TNMW5 | L2 | 23.5-25 | 23.50 x | 25.00 | 16 | TL | \$2,676 |

⁽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 |
|---------|----------------------|--|------------------|----------------|-----|----------|------------------|
| G-3 RK | (G 3A | | (Life = 32 | 00 hrs) | | | |
| TNMX1 | G2 | 14.00-24 | 14.00 x | 24.00 | 14 | TL | \$1,055 |
| L-3 DO | ZER/LOADER SERVI | CE ROCK SERVICE E3/L3 | (Life = 32 | 00 hrs) | | | |
| ANNB1 | E/G/L3 | 205-25 | 20.50 x | 25.00 | 20 | TL | \$1,430 |
| ANNB5 | E/L 3 | 23.5-25 | 23.50 x | 25.00 | 16 | TL | \$4,233 |
| ANNB2 | E/G/L3 | 235-25 | 23.50 x | 25.00 | 16 | TL | \$4,233 |
| ANNB6 | E/L 3 | 23.5-25 | 23.50 x | 25.00 | 20 | TL | \$4,458 |
| L-3 DO | ZER/LOADER SERVI | CE ROCK SHRL DL | (Life = 32 | 00 hrs) | | | |
| TNNC3 | L4 | 29.5-25 | 29.50 x | 25.00 | 28 | TL | \$9,034 |
| L-3 DO | ZER/LOADER SERVI | CE ROCK HRL DL 3A & 3F | (Life = 32 | 00 hrs) | | | |
| ANND2 | L/G3 | 265-25 | 26.50 x | 25.00 | 20 | TL | \$6,352 |
| L-4 DO | ZER/LOADER SERVI | CE ROCK DEEP TREAD N | (Life = 50 | 00 hrs) | | | |
| TNNG1 | L5 | 35/65-33 | 35.00 x | 33.00 | 42 | TL | \$17,577 |
| L-5 DO | ZER/LOADER SERVI | CE ROCK SUPER XTRA T | (Life = 80 | 00 hrs) | | | |
| TNNL2 | L4 | 35/65-33 | 35.00 x | 33.00 | 42 | TL | \$15,843 |
| TNNL4 | L5 | 41.25/70-39 | 41.25 x | 39.00 | 42 | TL | \$27,656 |
| ANNL7 | L5 | 45/65-45 | 45.00 x | 45.00 | 58 | TL | \$29,758 |
| L-5 DO | ZER/LOADER SERVI | CE SMOOTH SMO SL5B | (Life = 80 | 00 hrs) | | | |
| ANNN3 | IND3 | 18.00-25 | 18.00 x | 25.00 | 40 | TL | \$4,403 |
| L-5 DO | ZER/LOADER SERVI | CE SMOOTH SUPER XTRA | (Life = 80 | 00 hrs) | | | |
| TNNO1 | L5S | 295-25 | 29.50 x | 25.00 | 28 | TL | \$12,967 |
| INDUSTE | RIAL, SOLID | | | | | | |
| 60110 | LICH DEDECOMANG | PE OU DECICEANT/CTATI | (Life = 50 | 00 hrs 1 | | | |
| IPPO5 | , IIIGH FERFURIVIANU | CE, OIL RESISTANT/STATI 10x3x6-1/4 Grip | • | , | | NO | ¢200 |
| IPPO5 | | | 3.00 x | 10.00 | | NO NO | \$399 \$432 |
| IPPO4 | | 10x3-1/2x6 12x3-1/2x8 | 3.50 x 3.50 x | 10.00 12.00 | | NO | \$432 \$441 |
| IPPO23 | | 13x3-1/2x8 | 3.50 x | 13.00 | | NO | \$501 |
| IPPO32 | | 15x3-1/2x11-1/4 | 3.50 x | 15.00 | | NO | \$473 |
| IPPO1 | | 8-1/2x4x4 | 4.00 x | 8.50 | | NO | \$546 |
| IPPO10 | | 10x4x6-1/2 | 4.00 x | 10.00 | | NO | \$377 |
| IPPO6 | | 10x4x6-1/4 | 4.00 x | 10.00 | | NO | \$440 |

⁽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 |
|---------|---------------|---------------------|--------------|-----|----------|------------------|
| IPPO19 | | 12x4x8 | 4.00 x 12.00 | | NO | \$482 |
| IPPO47 | | 16-1/4x4x11-1/4 Lug | 4.00 x 16.25 | | NO | \$595 |
| IPPO30 | | 14x4-1/2x8 | 4.50 x 14.00 | | NO | \$655 |
| IPPO40 | | 16x4-1/2x10-1/2 Lug | 4.50 x 16.00 | | NO | \$711 |
| IPPO2 | | 9-5-5 Grip | 5.00 x 9.00 | | NO | \$408 |
| IPPO12 | | 10x5x6-1/2 | 5.00 x 10.00 | | NO | \$392 |
| IPPO7 | | 10x5x6-1/4 | 5.00 x 10.00 | | NO | \$439 |
| IPPO13 | | 10-1/2x5x5 | 5.00 x 10.50 | | NO | \$640 |
| IPPO31 | | 14x5x10 | 5.00 x 14.00 | | NO | \$600 |
| IPPO33 | | 15x5x11-1/4 | 5.00 x 15.00 | | NO | \$578 |
| IPPO38 | | 15-1/2x5x10 | 5.00 x 15.50 | | NO | \$672 |
| IPPO41 | | 16x5x10-1/2 | 5.00 x 16.00 | | NO | \$742 |
| IPPO48 | | 16-1/4x5x11-1/4 | 5.00 x 16.25 | | NO | \$642 |
| IPPO53 | | 17x5x12-1/8 | 5.00 x 17.00 | | NO | \$732 |
| IPPO63 | | 18x5x14 | 5.00 x 18.00 | | NO | \$653 |
| IPPO58 | | 18x5x12-1/8 | 5.00 x 18.00 | | NO | \$777 |
| IPPO68 | | 20x5x16 | 5.00 x 20.00 | | NO | \$870 |
| IPPO73 | | 21x5x15 | 5.00 x 21.00 | | NO | \$904 |
| IPPO79 | | 22x5x16 | 5.00 x 22.00 | | NO | \$966 |
| IPPO8 | | 10x6x6-1/4 | 6.00 x 10.00 | | NO | \$530 |
| IPPO14 | | 10-1/2x6x5 | 6.00 x 10.50 | | NO | \$666 |
| IPPO34 | | 15x6x11-1/4 | 6.00 x 15.00 | | NO | \$614 |
| IPPO42 | | 16x6x10-1/2 | 6.00 x 16.00 | | NO | \$833 |
| IPPO49 | | 16-1/4x6x11-1/4 | 6.00 x 16.25 | | NO | \$757 |
| IPPO59 | | 18x6x12-1/8 | 6.00 x 18.00 | | NO | \$874 |
| IPPO69 | | 20x6x16 | 6.00 x 20.00 | | NO | \$925 |
| IPPO74 | | 21x6x15 | 6.00 x 21.00 | | NO | \$1,131 |
| IPPO80 | | 22x6x16 | 6.00 x 22.00 | | NO | \$1,141 |
| IPPO22 | | 12-6-1/2x8 | 6.50 x 12.00 | | NO | \$668 |
| IPPO9 | | 10x7x6-1/4 | 7.00 x 10.00 | | NO | \$617 |
| IPPO35 | | 15x7x11-1/4 | 7.00 x 15.00 | | NO | \$765 |
| IPPO43 | | 16x7x10-1/2 | 7.00 x 16.00 | | NO | \$955 |
| IPPO50 | | 16-1/4x7x11-1/4 | 7.00 x 16.25 | | NO | \$943 |
| IPPO60 | | 18x7x12-1/8 | 7.00 x 18.00 | | NO | \$911 |
| IPPO70 | | 20x7x16 | 7.00 x 20.00 | | NO | \$1,119 |
| IPPO75 | | 21x7x15 | 7.00 x 21.00 | | NO | \$1,161 |
| IPPO81 | | 22x7x16 | 7.00 x 22.00 | | NO | \$1,369 |

⁽¹⁾ TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| | | | | | | TUBE | COST |
|---------|------------------|------------------|--------------|-------|-----|------|----------|
| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | | PLY | (1) | PER EACH |
| IPPO94 | | 26x7x20 | 7.00 x | 26.00 | | NO | \$1,712 |
| CPPO1 | | 10x8x3 | 8.00 x | 10.00 | | NO | \$68 |
| IPPO36 | | 15x8x11-1/4 | 8.00 x | 15.00 | | NO | \$915 |
| IPPO61 | | 18x8x12-1/8 | 8.00 x | 18.00 | | NO | \$1,070 |
| IPPO66 | | 18x8x14 | 8.00 x | 18.00 | | NO | \$1,115 |
| IPPO71 | | 20x8x16 | 8.00 x | 20.00 | | NO | \$1,195 |
| IPPO76 | | 21x8x15 | 8.00 x | 21.00 | | NO | \$1,415 |
| IPPO82 | | 22x8x16 | 8.00 x | 22.00 | | NO | \$1,477 |
| IPPO37 | | 15x9x11-1/4 | 9.00 x | 15.00 | | NO | \$1,218 |
| IPPO67 | | 18x9x14 | 9.00 x | 18.00 | | NO | \$1,177 |
| IPPO62 | | 18x9x12-1/8 | 9.00 x | 18.00 | | NO | \$1,265 |
| IPPO72 | | 20x9x16 | 9.00 x | 20.00 | | NO | \$1,622 |
| IPPO77 | | 21x9x15 | 9.00 x | 21.00 | | NO | \$1,692 |
| IPPO83 | | 22x9x16 | 9.00 x | 22.00 | | NO | \$1,678 |
| IPPO16 | | 22x9x16 | 9.00 x | 22.00 | | NO | \$1,678 |
| IPPO92 | | 22x10x17-3/4 | 10.00 x | 22.00 | | NO | \$2,030 |
| IPPO84 | | 22x10x16 | 10.00 x | 22.00 | | NO | \$2,270 |
| IPPO95 | | 28x10x22 | 10.00 x | 28.00 | | NO | \$2,727 |
| IPPO78 | | 21x12x15 | 12.00 x | 21.00 | | NO | \$2,720 |
| IPPO86 | | 22x12x16 | 12.00 x | 22.00 | | NO | \$2,394 |
| IPPO96 | | 28x12x22 | 12.00 x | 28.00 | | NO | \$3,547 |
| IPPO87 | | 22x14x16 | 14.00 x | 22.00 | | NO | \$2,666 |
| IPPO93 | | 22x14x17-3/4 | 14.00 x | 22.00 | | NO | \$3,083 |
| IPPO88 | | 22x16x16 | 16.00 x | 22.00 | | NO | \$2,939 |
| IPPO98 | | 28x16x22 | 16.00 x | 28.00 | | NO | \$5,050 |
| CONVEYO | DR/LOADER BELT | <u> </u> | | | | | |
| CONVE | YOR BELTING (GOO | DYEAR EP) | (Life = 5000 | hrs) | | | |
| AZZA1 | | Conveyor Belting | 24.00 x | 50.00 | 2 | NO | \$1,185 |
| AZZA2 | | Conveyor Belting | 24.00 x | 60.00 | 2 | NO | \$1,385 |
| AZZA3 | | Conveyor Belting | 24.00 x | 70.00 | 2 | NO | \$1,585 |
| AZZA4 | | Conveyor Belting | 24.00 x | 80.00 | 2 | NO | \$1,786 |
| AZZA5 | | Conveyor Belting | 24.00 x | 90.00 | 2 | NO | \$1,986 |
| AZZA6 | | Conveyor Belting | 24.00 x 1 | 00.00 | 2 | NO | \$2,186 |
| AZZA7 | | Conveyor Belting | | 10.00 | 2 | NO | \$2,387 |
| AZZA8 | | Conveyor Belting | | 20.00 | 2 | NO | \$2,587 |
| AZZA9 | | Conveyor Belting | 24.00 x 1 | 30.00 | 2 | NO | \$2,788 |

⁽¹⁾ TT = includes tube, TL = no tube, NO = no tube

APPENDIX F
TIRE DESCRIPTION AND TIRE COST

| AZZA10 Conveyor Belting 24.00 x 140.00 2 AZZA11 Conveyor Belting 24.00 x 150.00 2 AZZA12 Conveyor Belting 30.00 x 50.00 2 AZZA13 Conveyor Belting 30.00 x 60.00 2 AZZA14 Conveyor Belting 30.00 x 70.00 2 AZZA15 Conveyor Belting 30.00 x 80.00 2 AZZA16 Conveyor Belting 30.00 x 90.00 2 AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 AZZA23 Conveyor Belting 30.00 x 50.00 2 | NO NO NO NO | \$2,988 \$3,188 \$1,429 \$1,679 |
|---|----------------------|--|
| AZZA12 Conveyor Belting 30.00 x 50.00 2 AZZA13 Conveyor Belting 30.00 x 60.00 2 AZZA14 Conveyor Belting 30.00 x 70.00 2 AZZA15 Conveyor Belting 30.00 x 80.00 2 AZZA16 Conveyor Belting 30.00 x 90.00 2 AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO NO | \$1,429 |
| AZZA13 Conveyor Belting 30.00 x 60.00 2 AZZA14 Conveyor Belting 30.00 x 70.00 2 AZZA15 Conveyor Belting 30.00 x 80.00 2 AZZA16 Conveyor Belting 30.00 x 90.00 2 AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | |
| AZZA14 Conveyor Belting 30.00 x 70.00 2 AZZA15 Conveyor Belting 30.00 x 80.00 2 AZZA16 Conveyor Belting 30.00 x 90.00 2 AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | | ¢1 670 |
| AZZA15 Conveyor Belting 30.00 x 80.00 2 AZZA16 Conveyor Belting 30.00 x 90.00 2 AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | φ1,079 |
| AZZA16 Conveyor Belting 30.00 x 90.00 2 AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$1,928 |
| AZZA17 Conveyor Belting 30.00 x 100.00 2 AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$2,177 |
| AZZA18 Conveyor Belting 30.00 x 110.00 2 AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$2,427 |
| AZZA19 Conveyor Belting 30.00 x 120.00 2 AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$2,676 |
| AZZA20 Conveyor Belting 30.00 x 130.00 2 AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$2,925 |
| AZZA21 Conveyor Belting 30.00 x 140.00 2 AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$3,175 |
| AZZA22 Conveyor Belting 30.00 x 150.00 2 | NO | \$3,424 |
| , , | NO | \$3,673 |
| AZZA23 Conveyor Belting 36.00 x 50.00 2 | NO | \$3,923 |
| | NO | \$1,674 |
| AZZA24 Conveyor Belting 36.00 x 60.00 2 | NO | \$1,972 |
| AZZA25 Conveyor Belting 36.00 x 70.00 2 | NO | \$2,271 |
| AZZA26 Conveyor Belting 36.00 x 80.00 2 | NO | \$2,569 |
| AZZA27 Conveyor Belting 36.00 x 90.00 2 | NO | \$2,867 |
| AZZA28 Conveyor Belting 36.00 x 100.00 2 | NO | \$3,165 |
| AZZA29 Conveyor Belting 36.00 x 110.00 2 | NO | \$3,464 |
| AZZA30 Conveyor Belting 36.00 x 120.00 2 | NO | \$3,762 |
| AZZA31 Conveyor Belting 36.00 x 130.00 2 | NO | \$4,060 |
| AZZA32 Conveyor Belting 36.00 x 140.00 2 | NO | \$4,359 |
| AZZA33 Conveyor Belting 36.00 x 150.00 2 | NO | \$4,657 |
| AZZA34 Conveyor Belting 42.00 x 50.00 2 | NO | \$1,919 |
| AZZA35 Conveyor Belting 42.00 x 60.00 2 | NO | \$2,266 |
| AZZA36 Conveyor Belting 42.00 x 70.00 2 | NO | \$2,613 |
| AZZA37 Conveyor Belting 42.00 x 80.00 2 | NO | \$2,961 |
| AZZA38 Conveyor Belting 42.00 x 90.00 2 | NO | \$3,308 |
| AZZA39 Conveyor Belting 42.00 x 100.00 2 | NO | \$3,655 |
| AZZA40 Conveyor Belting 42.00 x 110.00 2 | NO | \$4,002 |
| AZZA41 Conveyor Belting 42.00 x 120.00 2 | NO | \$4,349 |
| AZZA42 Conveyor Belting 42.00 x 130.00 2 | NO | \$4,697 |
| AZZA43 Conveyor Belting 42.00 x 140.00 2 | NO | \$5,044 |
| AZZA44 Conveyor Belting 42.00 x 150.00 2 | NO | \$5,391 |
| AZZA45 Conveyor Belting 48.00 x 50.00 3 | NO | \$2,624 |
| AZZA46 Conveyor Belting 48.00 x 60.00 3 | NO | \$3,112 |

⁽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 | \$3,600 |
| AZZA48 | | Conveyor Belting | 48.00 x | 80.00 | 3 | NO | \$4,089 |
| AZZA49 | | Conveyor Belting | 48.00 x | 90.00 | 3 | NO | \$4,577 |
| AZZA50 | | Conveyor Belting | 48.00 x 1 | 100.00 | 3 | NO | \$5,065 |
| AZZA51 | | Conveyor Belting | 48.00 x 1 | 110.00 | 3 | NO | \$5,553 |
| AZZA52 | | Conveyor Belting | 48.00 x 1 | 120.00 | 3 | NO | \$6,041 |
| AZZA53 | | Conveyor Belting | 48.00 x 1 | 130.00 | 3 | NO | \$6,530 |
| AZZA54 | | Conveyor Belting | 48.00 x 1 | 140.00 | 3 | NO | \$7,018 |
| AZZA55 | | Conveyor Belting | 48.00 x 1 | 150.00 | 3 | NO | \$7,506 |
| AZZA56 | | Conveyor Belting | 60.00 x | 50.00 | 4 | NO | \$3,936 |
| AZZA57 | | Conveyor Belting | 60.00 x | 60.00 | 4 | NO | \$4,687 |
| AZZA58 | | Conveyor Belting | 60.00 x | 70.00 | 4 | NO | \$5,439 |
| AZZA59 | | Conveyor Belting | 60.00 x | 80.00 | 4 | NO | \$6,190 |
| AZZA60 | | Conveyor Belting | 60.00 x | 90.00 | 4 | NO | \$6,940 |
| AZZA61 | | Conveyor Belting | 60.00 x 1 | 100.00 | 4 | NO | \$7,691 |
| AZZA62 | | Conveyor Belting | 60.00 x 1 | 110.00 | 4 | NO | \$8,442 |
| AZZA63 | | Conveyor Belting | 60.00 x 1 | 120.00 | 4 | NO | \$9,193 |
| AZZA64 | | Conveyor Belting | 60.00 x 1 | 130.00 | 4 | NO | \$9,943 |
| AZZA65 | | Conveyor Belting | 60.00 x 1 | 140.00 | 4 | NO | \$10,694 |
| AZZA66 | | Conveyor Belting | 60.00 x 1 | 150.00 | 4 | NO | \$11,445 |

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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.

| <u>Con</u> | dition Factor | <u>'s (CF)</u> : | <u>Average</u> | <u>Severe</u> |
|------------|---------------|-----------------------------|----------------|---------------|
| l. | Maintenance | ! | 0.981 | 0.763 |
| II. | Speed | | 0.872 | 0.763 |
| III. | Curves | | 0.981 | 0.872 |
| IV. | Surface Con | dition | 0.981 | 0.763 |
| ٧. | Loads | | 1.090 | 0.709 |
| CF | Product of t | | 0.897 | 0.275 |
| VI. | Wheel Posit | ion 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 Facto | or (GF) (Drive Tires Only) | 0.981 | 0.763 |
| VIII. | Miscellaneo | us 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.

| 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 - AEROIL PRODUCTS COMPANY, INC. |
| 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 - PECCO AND WOLFF TOWER CRANES (MORROW) |
| 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. |

| CODE MANUFACTURER |
|---|
| AY - KOMLINE-SANDERSON ENGINEERING CO. |
| AZ - ALLIS-CHALMERS CORP. |
| 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 - BLAW KNOX CONSTRUCTION EQUIPMENT CORP. |
| BL - US FILTER/BLASTRAC |
| BM - BROCE MANUFACTURING COMPANY |
| BN - BANDIT INDUSTRIES, INC. |
| BO - COMPACTION AMERICA (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 |
| C4 - CATERPILLAR LIFT TRUCKS, |

| CODE MANUFACTURER |
|---|
| C5 - Construction Equipment Company |
| CA - CATERPILLAR INC. (MACHINE DIVISION) |
| CB - CONSOLIDATED BALING MACHINE COMPANY, INC |
| CC - CEMENTECH |
| 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 |
| CZ - CLYDE IRON WORKS |
| DA - ELCO INTERNATIONAL INC. |

| CODE MANUFACTURER |
|--|
| 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 - PILECO, INC. |
| DN - Dynatech |
| DO - DOSCO CORPORATION |
| DP - DOOSAN PORTABLE POWER |
| DR - DRESSER MINING EQUIPMENT |
| DS - DREDGING SUPPLY COMPANY (DSC) |
| DT - DRILTECH, INC. (SANDVIK) |
| DW - DITCH WITCH (THE CHARLES MACHINE WORKS) |
| 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 - ELLICOTT MACHINE CORPORATION |
| EM - EXCEL MACHINERY LTD. |
| EP - ENVIRO-PAK |
| ES - ESCO CORPORATION |
| ET - E. D. ETNYRE & CO. |
| EU - EUCLID INDUSTRIES, INC. |
| EX - EXCEL INDUSTRIES, INC. |

| CODE MANUFACTURER |
|---|
| 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 |
| GJ - GENIE INDUSTRIES |
| GL - GARLOCK EQUIPMENT CO. |
| GM - GMC AND CHEVROLET |
| GN - GALION DUMP BODIES, INC. |
| GO - GOMACO CORPORATION |
| GR - GORMAN-RUPP COMPANY |

| CODE MANUFACTURER |
|--|
| 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 |
| 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 |
| 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. |

| CODE | MANUFACTURER |
|------|---|
| 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 ROCK DRILL DIV |
| IS - | INSLEY DIVISION |
| IT - | NAVISTAR INTERNATIONAL CORPORATION |
| JC - | JCB INC. |
| JD - | DEERE & COMPANY |
| JE - | JCL EQUIPMENT CO. |
| JL - | JLG INDUSTRIES, INC. |
| JM - | JEFFREY MINING MACHINERY DIVISION |
| JO - | C. S. JOHNSON COMPANY |
| JR - | JRB COMPANY INC. |
| JS - | JOHNSTON SWEEPER COMPANY |
| JU - | ATI-Bell |
| KA - | KAWASAKI LOADERS, INC. |
| KB - | KOLBERG - PIONEER, INC |
| KC - | KOBELCO AMERICA INC. |
| KD - | K-D MANITOU, INC. |
| KE - | KENWORTH TRUCK COMPANY |
| KF - | KNAPHEIDE MANUFACTURING CO. |
| KH - | KOHLER COMPANY |
| KI - | KLEIN PRODUCTS, INC. |
| KK - | KEENE ENGINEERING INC. |
| KL - | KOLMAN / ATHEY DIV. |

| CODE MANUFACTURER |
|---|
| 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 - MORROW EQUIPMENT COMPANY, LLC |
| LI - LINK-BELT CONSTRUCTION EQUIPMENT COMPANY |
| LK - LIFTKING INDUSTRIES, INC. |
| LL - OMNIQUIP, LULL |
| LN - LONDON MACHINERY INC. |
| LO - LORAIN CRANES DIVISION |
| LS - LAKE SHORE MINING EQUIPMENT INC. |
| 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 - MULTIQUIP INC. |

| CODE MANUFACTURER | |
|---|--|
| M4 - MITCHELL INDUSTRIAL TIRE COMPANY (MITCO) | |
| MA - MANITOWOC ENGINEERING CO. | |
| MB - M-B COMPANIES, INC. | |
| MC - VME NORTH AMERICA | |
| MD - MDI/YUTANI | |
| ME - MELROE COMPANY/BOBCAT | |
| MF - MF INDUSTRIAL | |
| MG - McMASTER-CARR | |
| MH - MITSUBISHI FUSO TRUCK OF AMERICA | |
| MI - MITSUBISHI CONSTRUCTION EQUIP. | |
| MJ - MILLER SPREADER CO. | |
| MK - MKT MANUFACTURING, INC. | |
| ML - ITT MARLOW PUMPS | |
| MM - MACO-MUEDON | |
| MN - GRANUTE-SATURN SYSTEMS(MAC CORPORATION) | |
| MO - MORGEN MANUFACTURING CO. | |
| MP - MIDLAND MACHINERY CO | |
| MQ - MORBARK, INC. | |
| MR - FOREMOST MOBILE DRILLING COMPANY, INC. | |
| MS - MUSTANG UNITS COMPANY | |
| MT - MACK TRUCKS, INC. | |
| MU - MULTIQUIP, INC. | |
| MV - MAYVILLE ENGINEERING CO., INC. | |
| MW - M-B-W, INC. | |
| MX - MAXON INDUSTRIES | |
| MY - MIDLAND MANUFACTURING INC. | |
| MZ - MARINE INLAND FABRICATORS | |
| NA - NAGANO - LELY CORP. | |

| CODE MANUFACTURER | |
|---|--|
| 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 ENGINEERING, INC. | |
| OK - O & K ORENSTEIN & KOPPEL INC. | |
| OL - OLYMPYK CHAIN SAWS | |
| ON - ONAN CORPORATION | |
| PA - PALFINGER INC. | |
| PB - PETTIBONE MICHIGAN LLC | |
| PC - GETMAN BROTHERS MFG. COMPANY | |
| PE - PETERBILT MOTORS COMPANY | |
| PH - P&H | |
| PI - PIQUA ENGINEERING | |
| 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. | |
| PW - POWERSCREEN INTERNATIONAL DISTRIBUTN LTD | |
| RA - METSO MINERALS | |
| RC - JOHNSON-ROSS (TEREX ROADBUILDING) | |

| CODE MANUFACTURER | | |
|---|--|--|
| RD - REEDRILL (TEREX) | | |
| RE - NORSTAR PRODUCTS INTERNATIONAL, INC. | | |
| RI - REYNOLDS INTERNATIONAL, L.P. | | |
| RK - RAPID MIX | | |
| RL - REICHDRILL | | |
| 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 (ASTEC INDUSTRIES COMPANY) | | |
| RX - RAMMAX MACHINERY CO. | | |
| S1 - STANLEY HYDRAULIC TOOLS | | |
| 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. | | |
| 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. | | |

| CODE MANUFACTURER | |
|---|--|
| 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. | |
| SW - SNORKEL | |
| SX - SELLICK 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 AMERICA CORPORATION | |
| 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 | |

| CODE MANUFACTURER | |
|---|--|
| 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 | |
| VB - VIBROMAX AMERICA INC. | |
| VE - VERMEER MANUFACTURING CO. | |
| VI - VINCE HAGAN COMPANY | |
| VO - VOLVO CONSTRUCTION EQUIPMENT GROUP | |
| VP - VOGELE AMERICA - PRO-PAV DIV. | |
| VS - VALLEY SLURRY SEAL / MACROPAVER DIVISION | |
| VT - VALMET - PARTEK FOREST LLC | |
| VU - VULCAN FOUNDATION EQUIPMENT, INC | |
| 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 | |

| CODE MANUFACTURER | |
|--|--|
| WH - WIGGINS LIFT CO., INC. | |
| WI - WILLMAR EQUIPMENT COMPANY | |
| WL - WALKER MANUFACTURING CO., INC. | |
| WN - WAIN-ROY, INC. | |
| WO - WACO SCAFFOLDING & EQUIPMENT | |
| WR - WARNER FRUEHAUF TRAILER CO., INC. | |
| WS - WHITEMAN CONSPRAY, INC. | |
| WT - WIRTGEN AMERICAN, INC. | |
| 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 |
|------------------|----------------|--------|
| JANUARY - JUNE | 1/1/1999 | 5.000% |
| JULY - DECEMBER | 7/1/1999 | 6.500% |
| JANUARY - JUNE | 1/1/2000 | 6.750% |
| JULY - DECEMBER | 7/1/2000 | 7.250% |
| JANUARY - JUNE | 1/1/2001 | 6.375% |
| 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% |

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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 C90.03 C90.04 | TRUCK CRANE - 25 TONS AND LARGER Power load lowering 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 H30 | EXCAVATORS, HYDRAULIC 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 L40 | LOADERS, 1 1/2 cy AND LARGER Blower fan Guard, power train Automatic bucket positioner Standard counterweight Machines less than 7 cy: General purpose or excavating bucket with bolt on cutting edge and no teeth Machines 7 cy or larger: Rock bucket with bolt on cutting edge and teeth Standard work lights Reverse signal (backup) alarm ROPS Fire extinguisher 5-B:C |
| S10 S15 S20 | SCRAPERS Control single lever 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)

| | | J J | | ٠٠٠١٦٠٠ | | | | | uno (non) | | | |
|-----------------|--|-----|---|---------|--------|------|--|--|---|----------------------------------|-------------------------------------|------|
| CATEGORY SUB | DESCRIPTION | | С | 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 |
| B15 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 95 | А | В | 8,000 | 0.10 | | | | | ✓ | 0.80 |
| B25 0.00 | BUCKETS, CLAMSHELL | 15 | Α | В | 8,000 | 0.10 | | | ✓ | | | 0.70 |
| B25 0.00 | BUCKETS, CLAMSHELL | 15 | S | В | 6,500 | 0.10 | | | ✓ | | | 0.80 |
| B35 0.00 | BUCKETS, DRAGLINE | 1 | | | | | | | ✓ | | | |
| B35 0.10 | LIGHT WEIGHT | 15 | Α | В | 8,000 | 0.10 | | | ✓ | | | 0.70 |
| B35 0.10 | LIGHT WEIGHT | 15 | S | В | 6,500 | 0.10 | | | ✓ | | | 0.80 |
| B35 0.20 | MEDIUM WEIGHT | 15 | Α | В | 9,000 | 0.10 | | | ✓ | | | 0.70 |
| B35 0.20 | MEDIUM WEIGHT | 15 | S | В | 7,000 | 0.10 | | | ✓ | | | 0.80 |
| B35 0.30 | HEAVY WEIGHT | 15 | Α | В | 10,000 | 0.10 | | | ✓ | | | 0.70 |
| B35 0.30 | HEAVY WEIGHT | 15 | S | В | 8,000 | 0.10 | | | ✓ | | | 0.80 |
| G15 0.00 | GRADERS, MOTOR | 35 | Α | В | 14,500 | 0.25 | ✓ | | | ✓ | | 0.75 |
| G15 0.00 | GRADERS, MOTOR | 35 | S | В | 13,500 | 0.25 | ✓ | | | ✓ | | 0.85 |
| H25 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | 1 | | | | | | | ✓ | | | |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | Α | В | 8,000 | 0.25 | | | ✓ | | | 0.70 |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | S | В | 7,000 | 0.25 | | | ✓ | | | 0.80 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | Α | В | 8,500 | 0.25 | | | ✓ | | | 0.70 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | S | В | 7,000 | 0.25 | | | ✓ | | | 0.85 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | Α | В | 12,000 | 0.25 | | | ✓ | | | 0.80 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | S | В | 10,000 | 0.25 | | | ✓ | | | 0.95 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | Α | В | 16,000 | 0.25 | | | ✓ | | | 1.00 |

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

APPENDIX K Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY SUB | DESCRIPTION | EK | С | 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 |
|-----------------|-------------------------------------|----|---|----|--------|------|--|---|----------------------------------|-------------------------------------|------|
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | S | В | 13,500 | 0.25 | | V | | | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | A | В | 19,000 | 0.25 | | <u> </u> | | | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | S | В | 15,000 | 0.25 | | ✓ | | | 1.25 |
| H30 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | 1 | | | | | | ✓ | | | |
| H30 0.01 | 0 THRU 1.0 CY | 65 | Α | В | 8,000 | 0.25 | | ✓ | | | 0.50 |
| H30 0.01 | 0 THRU 1.0 CY | 65 | S | В | 6,500 | 0.25 | | ✓ | | | 0.55 |
| H30 0.02 | OVER 1.0 CY | 65 | Α | В | 10,000 | 0.25 | | ✓ | | | 0.60 |
| H30 0.02 | OVER 1.0 CY | 65 | S | В | 8,000 | 0.25 | | ✓ | | | 0.65 |
| H35 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | 1 | | | | | | ✓ | | | |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | Α | В | 14,000 | 0.20 | | ✓ | | | 1.00 |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | S | В | 12,000 | 0.20 | | ✓ | | | 1.10 |
| H35 0.12 | DIESEL, OVER 5.0 CY | 65 | Α | В | 16,000 | 0.20 | | ✓ | | | 1.20 |
| H35 0.12 | DIESEL, OVER 5.0 CY | 65 | S | В | 14,000 | 0.20 | | ✓ | | | 1.30 |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 65 | Α | В | 18,000 | 0.20 | | ✓ | | | 0.80 |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 65 | S | В | 16,000 | 0.20 | | ✓ | | | 0.90 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | Α | В | 10,000 | 0.20 | | ✓ | | | 1.10 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | S | В | 8,000 | 0.20 | | ✓ | | | 1.25 |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | 1 | | | | | | ✓ | | | |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | Α | В | 9,250 | 0.25 | | ✓ | | | 0.70 |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | S | В | 8,750 | 0.25 | | ✓ | | | 0.80 |

EK=Economic Key (Appendix E)
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DC=Discount Code (B=basic 7.5%, S=special 15%) RCF=Repair Cost Factor

APPENDIX K

Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY SUB | DESCRIPTION | EK | С | 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 |
|-----------------|---|----|--------|----|--------|------|--|---|----------------------------------|-------------------------------------|------|
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | l A | В | 13,500 | 0.20 | | | | | 0.70 |
| L40 0.12 | ARTICULATED, OVER 225 HP | 45 | S | В | 12,000 | 0.20 | | ✓ | | | 0.75 |
| L40 0.20 | SKID STEER | 45 | Α | В | 8,000 | 0.20 | | ✓ | | | 0.80 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | Α | В | 10,000 | 0.25 | | | | ✓ | 0.85 |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | S | В | 9,250 | 0.25 | | | | ✓ | 0.90 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | Α | В | 12,000 | 0.15 | | | | \checkmark | 0.85 |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | S | В | 10,000 | 0.15 | | | | \checkmark | 0.90 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | Α | В | 8,000 | 0.20 | | ✓ | | | 1.35 |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | S | В | 6,000 | 0.20 | | ✓ | | | 1.40 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | Α | В | 10,000 | 0.25 | | ✓ | | | 0.80 |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | S | В | 6,000 | 0.25 | | ✓ | | | 0.85 |
| L60 0.00 | LOG SKIDDERS | 75 | Α | В | 10,000 | 0.15 | ✓ | | | ✓ | 0.70 |
| L60 0.00 | LOG SKIDDERS | 75 | S | В | 8,000 | 0.15 | ✓ | | | ✓ | 0.80 |
| P35 0.00 | PIPELAYERS | 70 | Α | В | 14,000 | 0.20 | | | | ✓ | 0.95 |
| P35 0.00 | PIPELAYERS | 70 | S | В | 11,500 | 0.20 | | | | ✓ | 1.10 |
| R30 0.00 | ROLLERS, STATIC, SELF-PROPELLED | 1 | | | | | | | | ✓ | |
| R30 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 55 | Α | В | 12,000 | 0.20 | | | | ✓ | 0.80 |
| S10 0.00 | SCRAPERS, ELEVATING | 1 | | | | | | | | ✓ | |
| S10 0.01 | 0 THRU 200 HP | 60 | Α | В | 10,000 | 0.20 | | | | ✓ | 0.90 |
| S10 0.01 | 0 THRU 200 HP | 60 | S | В | 8,000 | 0.20 | | | | ✓ | 1.00 |

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APPENDIX K Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY SUB | DESCRIPTION | EK | С | 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 |
|-----------------|--|----|---|----|--------|------|--|---|----------------------------------|-------------------------------------|------|
| S10 0.02 | OVER 200 HP | 60 | Α | В | 13,000 | 0.25 | | | | ✓ | 0.95 |
| S10 0.02 | OVER 200 HP | 60 | S | В | 11,500 | 0.25 | | | | ✓ | 1.00 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 60 | Α | В | 15,000 | 0.20 | | | | ✓ | 0.80 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 60 | S | В | 12,500 | 0.20 | | | | \checkmark | 0.85 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 60 | Α | В | 15,000 | 0.20 | | | | ✓ | 0.85 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 60 | S | В | 13,500 | 0.20 | | | | \checkmark | 0.90 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | Α | В | 12,000 | 0.20 | | | | \checkmark | 0.70 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | S | В | 10,000 | 0.20 | | | | \checkmark | 0.75 |
| T15 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | 1 | | | | | ✓ | | | | |
| T15 0.01 | 0 THRU 225 HP | 70 | Α | В | 10,000 | 0.30 | ✓ | | | | 1.10 |
| T15 0.01 | 0 THRU 225 HP | 70 | S | В | 8,000 | 0.30 | ✓ | | | | 1.25 |
| T15 0.02 | 226 HP THRU 425 HP | 70 | Α | В | 12,500 | 0.25 | ✓ | | | | 1.20 |
| T15 0.02 | 226 HP THRU 425 HP | 70 | S | В | 10,500 | 0.25 | ✓ | | | | 1.25 |
| T15 0.03 | OVER 425 HP | 70 | Α | В | 15,000 | 0.20 | ✓ | | | | 1.20 |
| T15 0.03 | OVER 425 HP | 70 | S | В | 12,500 | 0.20 | ✓ | | | | 1.35 |
| T20 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | Α | В | 14,000 | 0.15 | ✓ | | | | 0.60 |
| T20 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | S | В | 13,000 | 0.15 | ✓ | | | | 0.65 |

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DC=Discount Code (B=basic 7.5%, S=special 15%) RCF=Repair Cost Factor

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/lf.

DRILL MODEL - Atlas Copco ROC D5 - percussion

Bit Life (feet/bit)

| | | | | Hole Diame | eter (iı | nches) | | | |
|-----------|-------|------|-------|------------|----------|--------|-------|------|-------|
| , | | 1.75 | | | 2.00 | | | 2.50 | |
| Granite | 1,506 | - | 2,037 | 1,449 | - | 1,960 | 1,359 | - | 1,838 |
| 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 |
| Conglome | 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)

| | | | | Hole Diame | eter (ir | nches) | | | | |
|-----------|-------|------|-------|------------|----------|--------|-------|---|-------|--|
| | | 1.75 | | | 2.00 | | 2.50 | | | |
| Granite | 2,720 | - | 3,680 | 2,617 | - | 3,541 | 2,454 | - | 3,320 | |
| Basalt | 1,417 | - | 1,918 | 1,364 | - | 1,845 | 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 | |
| Conglome | 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)

| | Hole Diameter (inches) | | | | | | | | | | |
|-----------|------------------------|------|-----|-----|------|-----|-----|------|-----|--|--|
| | | 1.75 | | | 2.00 | | | 2.50 | | | |
| Granite | 98 | - | 132 | 83 | - | 113 | 64 | - | 86 | | |
| 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 | | |
| Conglome | 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)

| | Hole Diameter (inches) | | | | | | | | | |
|-----------|------------------------|------|--------|--------|------|--------|--------|------|--------|--|
| | | 1.75 | | | 2.00 | | | 2.50 | | |
| Granite | \$0.04 | - | \$0.03 | \$0.05 | - | \$0.04 | \$0.07 | - | \$0.05 | |
| 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 | |
| Conglome | \$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)

| | | | | Hole Diam | eter (iı | nches) | | | |
|--------------|----------------|----------|---------|-----------|----------|---------|---------|------|---------|
| | | 1.75 | | | 2.00 | | | 2.50 | |
| Granite | \$0.103 | - | \$0.076 | \$0.107 | - | \$0.079 | \$0.132 | - | \$0.098 |
| 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 |
| Conglome | \$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 | 2 foot drillin | g rod le | ngth.) | | | | | | |

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 | |
| | , , | |

DRILL MODEL - Atlas Copco ROC D7 - percussion

Bit Life (feet/bit)

| ļ | Hole Diameter (inches) | | | | | | | | | | | | |
|-----------|------------------------|------|-------|-------|------|-------|-------|---|-------|--|--|--|--|
| , | | 2.50 | | | 3.00 | | 4.00 | | | | | | |
| Granite | 1,203 | - | 1,628 | 1,115 | - | 1,509 | 1,050 | - | 1,421 | | | | |
| Basalt | 539 | - | 729 | 499 | - | 676 | 470 | - | 636 | | | | |
| Gabbro | 801 | - | 1,083 | 742 | - | 1,004 | 699 | - | 946 | | | | |
| Shale | 1,140 | - | 1,542 | 1,057 | - | 1,430 | 995 | - | 1,347 | | | | |
| Sandstone | 418 | - | 566 | 388 | - | 525 | 365 | - | 494 | | | | |
| Siltstone | 3,019 | - | 4,084 | 2,798 | - | 3,786 | 2,636 | - | 3,566 | | | | |
| Conglome | 233 | - | 315 | 216 | - | 292 | 204 | - | 275 | | | | |
| Breccia | 1,742 | - | 2,357 | 1,615 | - | 2,186 | 1,521 | - | 2,058 | | | | |
| Limestone | 1,466 | - | 1,983 | 1,359 | - | 1,839 | 1,280 | - | 1,732 | | | | |
| Schist | 2,727 | - | 3,690 | 2,528 | - | 3,421 | 2,381 | - | 3,222 | | | | |
| Slate | 1,366 | - | 1,848 | 1,266 | - | 1,713 | 1,193 | - | 1,613 | | | | |
| Gneiss | 587 | - | 795 | 544 | - | 737 | 513 | - | 694 | | | | |

Drill Steel Life (feet/rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|-------|---|-------|-----------|----------|--------|-------|------|-------|
| | 2.50 | | | 3.00 | | | | 4.00 | |
| Granite | 2,173 | - | 2,940 | 2,014 | - | 2,725 | 1,897 | - | 2,567 |
| Basalt | 1,132 | - | 1,532 | 1,050 | - | 1,420 | 989 | - | 1,338 |
| Gabbro | 1,278 | - | 1,729 | 1,185 | - | 1,603 | 1,116 | - | 1,510 |
| Shale | 2,281 | - | 3,086 | 2,115 | - | 2,861 | 1,992 | - | 2,695 |
| Sandstone | 2,379 | - | 3,218 | 2,205 | - | 2,984 | 2,077 | - | 2,810 |
| Siltstone | 2,368 | - | 3,204 | 2,195 | - | 2,970 | 2,068 | - | 2,798 |
| Conglome | 2,736 | - | 3,701 | 2,536 | - | 3,431 | 2,389 | - | 3,232 |
| Breccia | 3,786 | - | 5,122 | 3,510 | - | 4,749 | 3,306 | - | 4,473 |
| Limestone | 3,140 | - | 4,249 | 2,911 | - | 3,939 | 2,742 | - | 3,710 |
| Schist | 3,857 | - | 5,218 | 3,576 | - | 4,838 | 3,368 | - | 4,556 |
| Slate | 2,503 | - | 3,386 | 2,320 | - | 3,139 | 2,185 | - | 2,957 |
| Gneiss | 2,276 | - | 3,080 | 2,110 | - | 2,855 | 1,987 | - | 2,689 |

Penetration Rate (feet/hour)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|------|---|-----|-----------|---------|--------|----|------|-----|
| | 2.50 | | | | 3.00 | | | 4.00 | |
| Granite | 87 | - | 117 | 63 | - | 85 | 49 | - | 67 |
| Basalt | 50 | - | 68 | 37 | - | 50 | 29 | - | 39 |
| Gabbro | 56 | - | 75 | 41 | - | 55 | 32 | - | 43 |
| Shale | 90 | - | 122 | 66 | - | 89 | 51 | - | 69 |
| Sandstone | 93 | - | 126 | 68 | - | 92 | 53 | - | 72 |
| Siltstone | 93 | - | 126 | 68 | - | 92 | 53 | - | 71 |
| Conglome | 105 | - | 142 | 76 | - | 103 | 60 | - | 81 |
| Breccia | 137 | - | 186 | 100 | - | 136 | 78 | - | 106 |
| Limestone | 118 | - | 159 | 86 | - | 116 | 67 | - | 90 |
| Schist | 140 | - | 189 | 102 | - | 138 | 79 | - | 107 |
| Slate | 97 | - | 132 | 71 | - | 96 | 55 | - | 75 |
| Gneiss | 90 | - | 122 | 66 | - | 89 | 51 | - | 69 |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|--------|------|--------|-----------|---------|--------|--------|------|--------|
| | | 2.50 | | | 3.00 | | | 4.00 | |
| Granite | \$0.08 | - | \$0.06 | \$0.12 | - | \$0.09 | \$0.21 | - | \$0.16 |
| Basalt | \$0.18 | - | \$0.13 | \$0.26 | - | \$0.19 | \$0.47 | - | \$0.35 |
| Gabbro | \$0.12 | - | \$0.09 | \$0.18 | - | \$0.13 | \$0.32 | - | \$0.24 |
| Shale | \$0.09 | - | \$0.06 | \$0.12 | - | \$0.09 | \$0.22 | - | \$0.17 |
| Sandstone | \$0.23 | - | \$0.17 | \$0.34 | - | \$0.25 | \$0.61 | - | \$0.45 |
| Siltstone | \$0.03 | - | \$0.02 | \$0.05 | - | \$0.03 | \$0.08 | - | \$0.06 |
| Conglome | \$0.42 | - | \$0.31 | \$0.61 | - | \$0.45 | \$1.10 | - | \$0.81 |
| Breccia | \$0.06 | - | \$0.04 | \$0.08 | - | \$0.06 | \$0.15 | - | \$0.11 |
| Limestone | \$0.07 | - | \$0.05 | \$0.10 | - | \$0.07 | \$0.17 | - | \$0.13 |
| Schist | \$0.04 | - | \$0.03 | \$0.05 | - | \$0.04 | \$0.09 | - | \$0.07 |
| Slate | \$0.07 | - | \$0.05 | \$0.10 | - | \$0.08 | \$0.19 | - | \$0.14 |
| Gneiss | \$0.17 | - | \$0.12 | \$0.24 | - | \$0.18 | \$0.43 | - | \$0.32 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|---------------|-----------|---------|-----------|----------|---------|---------|------|---------|
| | | 2.50 | | | 3.00 | | | 4.00 | |
| Granite | \$0.129 | - | \$0.095 | \$0.161 | - | \$0.119 | \$0.215 | - | \$0.159 |
| Basalt | \$0.247 | - | \$0.183 | \$0.309 | - | \$0.228 | \$0.412 | - | \$0.304 |
| Gabbro | \$0.219 | - | \$0.162 | \$0.273 | - | \$0.202 | \$0.365 | - | \$0.270 |
| Shale | \$0.123 | - | \$0.091 | \$0.153 | - | \$0.113 | \$0.204 | - | \$0.151 |
| Sandstone | \$0.118 | - | \$0.087 | \$0.147 | - | \$0.109 | \$0.196 | - | \$0.145 |
| Siltstone | \$0.118 | - | \$0.087 | \$0.148 | - | \$0.109 | \$0.197 | - | \$0.145 |
| Conglome | \$0.102 | - | \$0.076 | \$0.128 | - | \$0.094 | \$0.170 | - | \$0.126 |
| Breccia | \$0.074 | - | \$0.055 | \$0.092 | - | \$0.068 | \$0.123 | - | \$0.091 |
| Limestone | \$0.089 | - | \$0.066 | \$0.111 | - | \$0.082 | \$0.148 | - | \$0.110 |
| Schist | \$0.073 | - | \$0.054 | \$0.091 | - | \$0.067 | \$0.121 | - | \$0.089 |
| Slate | \$0.112 | - | \$0.083 | \$0.140 | - | \$0.103 | \$0.186 | - | \$0.138 |
| Gneiss | \$0.123 | - | \$0.091 | \$0.154 | - | \$0.113 | \$0.205 | - | \$0.151 |
| (Based on12 | foot drilling | g rod lei | ngth.) | | | | | | |

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 | |
| | . , | |

DRILL MODEL - Atlas Copco ECM590 - percussion

Bit Life (feet/bit)

| , | | | | Hole Diam | eter (i | nches) | | | |
|-----------|-------|------|-------|-----------|---------|--------|-------|------|-------|
| , | | 2.50 | | | 3.50 | | | 4.50 | |
| Granite | 1,168 | - | 1,580 | 1,060 | - | 1,434 | 986 | - | 1,334 |
| Basalt | 523 | - | 708 | 475 | - | 642 | 441 | - | 597 |
| Gabbro | 778 | - | 1,052 | 706 | - | 955 | 656 | - | 888 |
| Shale | 1,107 | - | 1,498 | 1,005 | - | 1,359 | 934 | - | 1,264 |
| Sandstone | 406 | - | 550 | 369 | - | 499 | 343 | - | 464 |
| Siltstone | 2,931 | - | 3,966 | 2,660 | - | 3,599 | 2,474 | - | 3,347 |
| Conglome | 226 | - | 306 | 205 | - | 278 | 191 | - | 259 |
| Breccia | 1,692 | - | 2,289 | 1,535 | - | 2,077 | 1,428 | - | 1,932 |
| Limestone | 1,424 | - | 1,926 | 1,292 | - | 1,748 | 1,201 | - | 1,626 |
| Schist | 2,648 | - | 3,583 | 2,403 | - | 3,251 | 2,235 | - | 3,024 |
| Slate | 1,326 | - | 1,794 | 1,203 | - | 1,628 | 1,119 | - | 1,514 |
| Gneiss | 570 | - | 771 | 517 | - | 700 | 481 | - | 651 |

Drill Steel Life (feet/rod)

| · | | | · | Hole Diam | eter (iı | nches) | · | | |
|-----------|-------|---|-------|-----------|----------|--------|-------|------|-------|
| | 2.50 | | | 3.50 | | | | 4.50 | |
| Granite | 2,110 | - | 2,855 | 1,915 | - | 2,590 | 1,781 | - | 2,409 |
| Basalt | 1,100 | - | 1,488 | 998 | - | 1,350 | 928 | - | 1,255 |
| Gabbro | 1,241 | - | 1,679 | 1,126 | - | 1,524 | 1,047 | - | 1,417 |
| Shale | 2,215 | - | 2,997 | 2,010 | - | 2,719 | 1,869 | - | 2,529 |
| Sandstone | 2,310 | - | 3,125 | 2,096 | - | 2,836 | 1,950 | - | 2,638 |
| Siltstone | 2,300 | - | 3,111 | 2,087 | - | 2,823 | 1,941 | - | 2,626 |
| Conglome | 2,657 | - | 3,594 | 2,411 | - | 3,262 | 2,242 | - | 3,033 |
| Breccia | 3,676 | - | 4,974 | 3,336 | - | 4,514 | 3,103 | - | 4,198 |
| Limestone | 3,049 | - | 4,125 | 2,767 | - | 3,744 | 2,573 | - | 3,482 |
| Schist | 3,745 | - | 5,067 | 3,399 | - | 4,598 | 3,161 | - | 4,277 |
| Slate | 2,430 | - | 3,288 | 2,205 | - | 2,984 | 2,051 | - | 2,775 |
| Gneiss | 2,210 | - | 2,990 | 2,006 | - | 2,714 | 1,865 | - | 2,524 |

Penetration Rate (feet/hour)

| | | | | Hole Diame | eter (i | nches) | | | | |
|-----------|-----|------|-----|------------|---------|--------|----|------|-----|--|
| | | 2.50 | | | 3.50 | | | 4.50 | | |
| Granite | 99 | - | 134 | 66 | - | 89 | 49 | - | 66 | |
| Basalt | 57 | - | 78 | 38 | - | 52 | 28 | - | 38 | |
| Gabbro | 63 | - | 86 | 42 | - | 57 | 31 | - | 42 | |
| Shale | 103 | - | 139 | 69 | - | 93 | 51 | - | 69 | |
| Sandstone | 107 | - | 144 | 71 | - | 96 | 52 | - | 71 | |
| Siltstone | 106 | - | 144 | 71 | - | 96 | 52 | - | 71 | |
| Conglome | 120 | - | 162 | 80 | - | 108 | 59 | - | 80 | |
| Breccia | 157 | - | 212 | 105 | - | 142 | 77 | - | 105 | |
| Limestone | 134 | - | 182 | 90 | - | 121 | 66 | - | 90 | |
| Schist | 159 | - | 216 | 106 | - | 144 | 79 | - | 106 | |
| Slate | 111 | - | 150 | 74 | - | 100 | 55 | - | 74 | |
| Gneiss | 103 | - | 139 | 68 | - | 93 | 51 | - | 68 | |
| | | | | | | | | | | |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|--------|------|--------|-----------|---------|--------|--------|------|--------|
| | | 2.50 | | | 3.50 | | | 4.50 | |
| Granite | \$0.08 | - | \$0.06 | \$0.15 | - | \$0.11 | \$0.27 | - | \$0.20 |
| Basalt | \$0.19 | - | \$0.14 | \$0.34 | - | \$0.25 | \$0.61 | - | \$0.45 |
| Gabbro | \$0.13 | - | \$0.09 | \$0.23 | - | \$0.17 | \$0.41 | - | \$0.30 |
| Shale | \$0.09 | - | \$0.07 | \$0.16 | - | \$0.12 | \$0.29 | - | \$0.21 |
| Sandstone | \$0.24 | - | \$0.18 | \$0.43 | - | \$0.32 | \$0.78 | - | \$0.58 |
| Siltstone | \$0.03 | - | \$0.02 | \$0.06 | - | \$0.04 | \$0.11 | - | \$0.08 |
| Conglome | \$0.43 | - | \$0.32 | \$0.77 | - | \$0.57 | \$1.40 | - | \$1.04 |
| Breccia | \$0.06 | - | \$0.04 | \$0.10 | - | \$0.08 | \$0.19 | - | \$0.14 |
| Limestone | \$0.07 | - | \$0.05 | \$0.12 | - | \$0.09 | \$0.22 | - | \$0.16 |
| Schist | \$0.04 | - | \$0.03 | \$0.07 | - | \$0.05 | \$0.12 | - | \$0.09 |
| Slate | \$0.07 | - | \$0.05 | \$0.13 | - | \$0.10 | \$0.24 | - | \$0.18 |
| Gneiss | \$0.17 | - | \$0.13 | \$0.31 | - | \$0.23 | \$0.56 | - | \$0.41 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|----------------|----------|----------|-----------|----------|---------|---------|------|---------|
| | | 2.50 | | | 3.50 | | | 4.50 | |
| Granite | \$0.154 | - | \$0.114 | \$0.213 | - | \$0.157 | \$0.229 | - | \$0.169 |
| Basalt | \$0.295 | - | \$0.218 | \$0.408 | - | \$0.302 | \$0.439 | - | \$0.324 |
| Gabbro | \$0.261 | - | \$0.193 | \$0.361 | - | \$0.267 | \$0.389 | - | \$0.287 |
| Shale | \$0.146 | - | \$0.108 | \$0.202 | - | \$0.150 | \$0.218 | - | \$0.161 |
| Sandstone | \$0.140 | - | \$0.104 | \$0.194 | - | \$0.144 | \$0.209 | - | \$0.154 |
| Siltstone | \$0.141 | - | \$0.104 | \$0.195 | - | \$0.144 | \$0.210 | - | \$0.155 |
| Conglome | \$0.122 | - | \$0.090 | \$0.169 | - | \$0.125 | \$0.182 | - | \$0.134 |
| Breccia | \$0.088 | - | \$0.065 | \$0.122 | - | \$0.090 | \$0.131 | - | \$0.097 |
| Limestone | \$0.106 | - | \$0.079 | \$0.147 | - | \$0.109 | \$0.158 | - | \$0.117 |
| Schist | \$0.087 | - | \$0.064 | \$0.120 | - | \$0.089 | \$0.129 | - | \$0.095 |
| Slate | \$0.133 | - | \$0.099 | \$0.185 | - | \$0.136 | \$0.198 | - | \$0.147 |
| Gneiss | \$0.147 | - | \$0.108 | \$0.203 | - | \$0.150 | \$0.218 | - | \$0.161 |
| (Based pm 1 | 2 foot drillir | ng rod I | 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 | |
| | | |

DRILL MODEL - Atlas Copco ECM720 - percussion

Bit Life (feet/bit)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|-------|------|-------|-----------|---------|--------|-------|------|-------|
| | | 4.00 | | | 4.50 | | | 5.00 | |
| Granite | 2,305 | - | 3,118 | 2,228 | - | 3,014 | 2,161 | - | 2,924 |
| Basalt | 1,032 | - | 1,396 | 997 | - | 1,349 | 967 | - | 1,309 |
| Gabbro | 1,534 | - | 2,075 | 1,483 | - | 2,006 | 1,438 | - | 1,946 |
| Shale | 2,184 | - | 2,955 | 2,111 | - | 2,856 | 2,048 | - | 2,771 |
| Sandstone | 802 | - | 1,085 | 775 | - | 1,048 | 752 | - | 1,017 |
| Siltstone | 5,783 | - | 7,824 | 5,589 | - | 7,562 | 5,422 | - | 7,336 |
| Conglome | 447 | - | 604 | 432 | - | 584 | 419 | - | 567 |
| Breccia | 3,338 | - | 4,516 | 3,227 | - | 4,365 | 3,130 | - | 4,235 |
| Limestone | 2,809 | - | 3,800 | 2,715 | - | 3,673 | 2,633 | - | 3,563 |
| Schist | 5,225 | - | 7,069 | 5,050 | - | 6,833 | 4,899 | - | 6,628 |
| Slate | 2,617 | - | 3,540 | 2,529 | - | 3,422 | 2,453 | - | 3,319 |
| Gneiss | 1,125 | - | 1,522 | 1,087 | - | 1,471 | 1,055 | - | 1,427 |

Drill Steel Life (feet/rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|-------|---|-------|-----------|----------|--------|-------|---|-------|
| | 4.00 | | | 4.50 | | | | 5.00 - 5,281 - 2,752 - 3,106 - 5,544 - 5,755 - 6,649 - 9,201 | |
| Granite | 4,163 | - | 5,632 | 4,024 | - | 5,444 | 3,903 | - | 5,281 |
| Basalt | 2,169 | - | 2,935 | 2,097 | - | 2,837 | 2,034 | - | 2,752 |
| Gabbro | 2,448 | - | 3,313 | 2,367 | - | 3,202 | 2,296 | - | 3,106 |
| Shale | 4,370 | - | 5,912 | 4,224 | - | 5,715 | 4,097 | - | 5,544 |
| Sandstone | 4,557 | - | 6,166 | 4,405 | - | 5,960 | 4,273 | - | 5,781 |
| Siltstone | 4,537 | - | 6,138 | 4,385 | - | 5,933 | 4,254 | - | 5,755 |
| Conglome | 5,241 | - | 7,091 | 5,066 | - | 6,854 | 4,914 | - | 6,649 |
| Breccia | 7,253 | - | 9,813 | 7,011 | - | 9,485 | 6,801 | - | 9,201 |
| Limestone | 6,016 | - | 8,139 | 5,815 | - | 7,867 | 5,641 | - | 7,631 |
| Schist | 7,389 | - | 9,997 | 7,142 | - | 9,663 | 6,928 | - | 9,374 |
| Slate | 4,795 | - | 6,487 | 4,635 | - | 6,270 | 4,496 | - | 6,083 |
| Gneiss | 4,361 | - | 5.900 | 4.215 | - | 5.702 | 4.089 | - | 5,532 |

Penetration Rate (feet/hour)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|-----|------|-----|-----------|----------|--------|-----|------|-----|
| | | 4.00 | | | 4.50 | | | 5.00 | |
| Granite | 100 | - | 135 | 87 | - | 117 | 76 | - | 103 |
| Basalt | 58 | - | 78 | 50 | - | 68 | 44 | - | 60 |
| Gabbro | 64 | - | 87 | 56 | - | 75 | 49 | - | 66 |
| Shale | 104 | - | 141 | 90 | - | 122 | 79 | - | 107 |
| Sandstone | 108 | - | 146 | 93 | - | 126 | 82 | - | 111 |
| Siltstone | 107 | - | 145 | 93 | - | 126 | 82 | - | 111 |
| Conglome | 121 | - | 163 | 105 | - | 142 | 92 | - | 125 |
| Breccia | 158 | - | 214 | 137 | - | 186 | 121 | - | 164 |
| Limestone | 136 | - | 183 | 118 | - | 159 | 104 | - | 140 |
| Schist | 161 | - | 218 | 140 | - | 189 | 123 | - | 166 |
| Slate | 112 | - | 152 | 97 | - | 132 | 86 | - | 116 |
| Gneiss | 104 | - | 140 | 90 | - | 122 | 79 | - | 107 |
| | | | | | | | | | |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|--------|------|--------|-----------|----------|--------|--------|------|--------|
| | | 4.00 | | | 4.50 | | | 5.00 | |
| Granite | \$0.10 | - | \$0.07 | \$0.12 | - | \$0.09 | \$0.15 | - | \$0.11 |
| Basalt | \$0.22 | - | \$0.16 | \$0.27 | - | \$0.20 | \$0.33 | - | \$0.25 |
| Gabbro | \$0.15 | - | \$0.11 | \$0.18 | - | \$0.13 | \$0.22 | - | \$0.16 |
| Shale | \$0.10 | - | \$0.08 | \$0.13 | - | \$0.09 | \$0.16 | - | \$0.12 |
| Sandstone | \$0.28 | - | \$0.21 | \$0.35 | - | \$0.26 | \$0.43 | - | \$0.32 |
| Siltstone | \$0.04 | - | \$0.03 | \$0.05 | - | \$0.04 | \$0.06 | - | \$0.04 |
| Conglome | \$0.50 | - | \$0.37 | \$0.62 | - | \$0.46 | \$0.77 | - | \$0.57 |
| Breccia | \$0.07 | - | \$0.05 | \$0.08 | - | \$0.06 | \$0.10 | - | \$0.08 |
| Limestone | \$0.08 | - | \$0.06 | \$0.10 | - | \$0.07 | \$0.12 | - | \$0.09 |
| Schist | \$0.04 | - | \$0.03 | \$0.05 | - | \$0.04 | \$0.07 | - | \$0.05 |
| Slate | \$0.09 | - | \$0.06 | \$0.11 | - | \$0.08 | \$0.13 | - | \$0.10 |
| Gneiss | \$0.20 | - | \$0.15 | \$0.25 | - | \$0.18 | \$0.30 | - | \$0.22 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|----------------|---------|---------|-----------|----------|---------|---------|------|---------|
| | | 4.00 | | 4.50 | | | | 5.00 | |
| Granite | \$0.098 | - | \$0.072 | \$0.141 | - | \$0.104 | \$0.146 | - | \$0.108 |
| Basalt | \$0.188 | - | \$0.139 | \$0.271 | - | \$0.200 | \$0.279 | - | \$0.206 |
| Gabbro | \$0.166 | - | \$0.123 | \$0.240 | - | \$0.177 | \$0.247 | - | \$0.183 |
| Shale | \$0.093 | - | \$0.069 | \$0.134 | - | \$0.099 | \$0.139 | - | \$0.102 |
| Sandstone | \$0.089 | - | \$0.066 | \$0.129 | - | \$0.095 | \$0.133 | - | \$0.098 |
| Siltstone | \$0.090 | - | \$0.066 | \$0.130 | - | \$0.096 | \$0.134 | - | \$0.099 |
| Conglome | \$0.078 | - | \$0.057 | \$0.112 | - | \$0.083 | \$0.116 | - | \$0.085 |
| Breccia | \$0.056 | - | \$0.041 | \$0.081 | - | \$0.060 | \$0.084 | - | \$0.062 |
| Limestone | \$0.068 | - | \$0.050 | \$0.098 | - | \$0.072 | \$0.101 | - | \$0.074 |
| Schist | \$0.055 | - | \$0.041 | \$0.080 | - | \$0.059 | \$0.082 | - | \$0.061 |
| Slate | \$0.085 | - | \$0.063 | \$0.123 | - | \$0.091 | \$0.126 | - | \$0.093 |
| Gneiss | \$0.093 | - | \$0.069 | \$0.135 | - | \$0.100 | \$0.139 | - | \$0.103 |
| (Based on 1 | 2 foot drillin | g rod l | ength.) | | | | | | |

Drill Steel Cost Adjustment Factor

| Billi Oteel Goot Au | | |
|---------------------|---------|--|
| 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 DM25SP - DTH

Bit Life (feet/bit)

| | | | , | Hole Diam | eter (i | nches) | | | |
|-----------|-------|------|-------|-----------|---------|--------|-------|------|-------|
| | | 3.50 | | | 5.00 | | | 6.50 | |
| Granite | 2,498 | - | 3,380 | 2,254 | - | 3,049 | 2,089 | - | 2,827 |
| Basalt | 1,118 | - | 1,513 | 1,009 | - | 1,365 | 935 | - | 1,266 |
| Gabbro | 1,663 | - | 2,250 | 1,500 | - | 2,030 | 1,391 | - | 1,882 |
| Shale | 2,367 | - | 3,203 | 2,136 | - | 2,890 | 1,980 | - | 2,679 |
| Sandstone | 869 | - | 1,176 | 784 | - | 1,061 | 727 | - | 983 |
| Siltstone | 6,268 | - | 8,481 | 5,655 | - | 7,651 | 5,243 | - | 7,093 |
| Conglome | 484 | - | 655 | 437 | - | 591 | 405 | - | 548 |
| Breccia | 3,618 | - | 4,896 | 3,265 | - | 4,417 | 3,026 | - | 4,095 |
| Limestone | 3,044 | - | 4,119 | 2,747 | - | 3,716 | 2,546 | - | 3,445 |
| Schist | 5,664 | - | 7,663 | 5,110 | - | 6,913 | 4,737 | - | 6,409 |
| Slate | 2,836 | - | 3,837 | 2,559 | - | 3,462 | 2,372 | - | 3,209 |
| Gneiss | 1,219 | - | 1,650 | 1,100 | - | 1,489 | 1,020 | - | 1,380 |
| | | | | | | | | | |

Drill Steel Life (feet/rod)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|--------|------|--------|-----------|---------|--------|--------|------|--------|
| | | 3.50 | | | 5.00 | | | 6.50 | |
| Granite | 28,996 | - | 39,229 | 26,159 | - | 35,392 | 24,252 | - | 32,811 |
| Basalt | 16,978 | - | 22,970 | 15,317 | - | 20,723 | 14,200 | - | 19,212 |
| Gabbro | 18,752 | - | 25,371 | 16,918 | - | 22,889 | 15,684 | - | 21,220 |
| Shale | 30,177 | - | 40,827 | 27,225 | - | 36,834 | 25,240 | - | 34,148 |
| Sandstone | 31,235 | - | 42,259 | 28,180 | - | 38,125 | 26,125 | - | 35,345 |
| Siltstone | 31,120 | - | 42,103 | 28,076 | - | 37,985 | 26,028 | - | 35,215 |
| Conglome | 35,035 | - | 47,400 | 31,608 | - | 42,764 | 29,303 | - | 39,645 |
| Breccia | 45,750 | - | 61,896 | 41,275 | - | 55,842 | 38,265 | - | 51,770 |
| Limestone | 39,235 | - | 53,082 | 35,397 | - | 47,890 | 32,816 | - | 44,398 |
| Schist | 46,452 | - | 62,847 | 41,908 | - | 56,699 | 38,852 | - | 52,565 |
| Slate | 32,566 | - | 44,060 | 29,381 | - | 39,750 | 27,238 | - | 36,852 |
| Gneiss | 30,123 | - | 40,755 | 27,177 | - | 36,768 | 25,195 | - | 34,087 |

Penetration Rate (feet/hour)

| | | | | Hole Diam | eter (i | nches) | | | | |
|-----------|------|---|-----|-----------|---------|--------|----|------|-----|--|
| | 3.50 | | | 5.00 | | | | 6.50 | | |
| Granite | 129 | - | 175 | 84 | - | 114 | 61 | - | 83 | |
| Basalt | 75 | - | 102 | 49 | - | 66 | 36 | - | 48 | |
| Gabbro | 83 | - | 113 | 54 | - | 73 | 39 | - | 53 | |
| Shale | 135 | - | 182 | 88 | - | 119 | 64 | - | 87 | |
| Sandstone | 140 | - | 189 | 91 | - | 123 | 66 | - | 90 | |
| Siltstone | 139 | - | 188 | 90 | - | 122 | 66 | - | 89 | |
| Conglome | 157 | - | 212 | 102 | - | 138 | 74 | - | 101 | |
| Breccia | 205 | - | 278 | 134 | - | 181 | 98 | - | 132 | |
| Limestone | 176 | - | 238 | 114 | - | 155 | 83 | - | 113 | |
| Schist | 209 | - | 282 | 136 | - | 184 | 99 | - | 134 | |
| Slate | 146 | - | 197 | 95 | - | 128 | 69 | - | 93 | |
| Gneiss | 134 | - | 182 | 88 | - | 118 | 64 | - | 86 | |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (i | nches) | | | | |
|-----------|--------|------|--------|-----------|---------|--------|--------|------|--------|--|
| | | 3.50 | | 5.00 | | | | 6.50 | | |
| Granite | \$0.16 | - | \$0.12 | \$0.24 | - | \$0.18 | \$0.31 | - | \$0.23 | |
| Basalt | \$0.37 | - | \$0.27 | \$0.55 | - | \$0.40 | \$0.68 | - | \$0.51 | |
| Gabbro | \$0.25 | - | \$0.18 | \$0.37 | - | \$0.27 | \$0.46 | - | \$0.34 | |
| Shale | \$0.17 | - | \$0.13 | \$0.26 | - | \$0.19 | \$0.32 | - | \$0.24 | |
| Sandstone | \$0.47 | - | \$0.35 | \$0.70 | - | \$0.52 | \$0.88 | - | \$0.65 | |
| Siltstone | \$0.07 | - | \$0.05 | \$0.10 | - | \$0.07 | \$0.12 | - | \$0.09 | |
| Conglomei | \$0.85 | - | \$0.63 | \$1.26 | - | \$0.93 | \$1.58 | - | \$1.17 | |
| Breccia | \$0.11 | - | \$0.08 | \$0.17 | - | \$0.12 | \$0.21 | - | \$0.16 | |
| Limestone | \$0.13 | - | \$0.10 | \$0.20 | - | \$0.15 | \$0.25 | - | \$0.19 | |
| Schist | \$0.07 | - | \$0.05 | \$0.11 | - | \$0.08 | \$0.14 | - | \$0.10 | |
| Slate | \$0.14 | - | \$0.11 | \$0.21 | - | \$0.16 | \$0.27 | - | \$0.20 | |
| Gneiss | \$0.34 | - | \$0.25 | \$0.50 | - | \$0.37 | \$0.63 | - | \$0.46 | |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|--------------|----------------|----------|---------|-----------|----------|---------|---------|------|---------|
| | | 3.50 | | | 5.00 | | | 6.50 | |
| Granite | \$0.016 | - | \$0.012 | \$0.020 | - | \$0.015 | \$0.025 | - | \$0.018 |
| Basalt | \$0.028 | - | \$0.020 | \$0.034 | - | \$0.025 | \$0.042 | - | \$0.031 |
| Gabbro | \$0.025 | - | \$0.018 | \$0.031 | - | \$0.023 | \$0.038 | - | \$0.028 |
| Shale | \$0.016 | - | \$0.011 | \$0.019 | - | \$0.014 | \$0.024 | - | \$0.018 |
| Sandstone | \$0.015 | - | \$0.011 | \$0.019 | - | \$0.014 | \$0.023 | - | \$0.017 |
| Siltstone | \$0.015 | - | \$0.011 | \$0.019 | - | \$0.014 | \$0.023 | - | \$0.017 |
| Conglomei | \$0.013 | - | \$0.010 | \$0.017 | - | \$0.012 | \$0.020 | - | \$0.015 |
| Breccia | \$0.010 | - | \$0.008 | \$0.013 | - | \$0.009 | \$0.016 | - | \$0.012 |
| Limestone | \$0.012 | - | \$0.009 | \$0.015 | - | \$0.011 | \$0.018 | - | \$0.013 |
| Schist | \$0.010 | - | \$0.007 | \$0.013 | - | \$0.009 | \$0.015 | - | \$0.011 |
| Slate | \$0.014 | - | \$0.011 | \$0.018 | - | \$0.013 | \$0.022 | - | \$0.016 |
| Gneiss | \$0.016 | - | \$0.011 | \$0.019 | - | \$0.014 | \$0.024 | - | \$0.018 |
| (Based on 12 | 2 foot drillin | g rod le | ngth.) | | | | | | |

Drill Steel Cost Adjustment Factor

| Number of rods | Factor | |
|-----------------|---------|--|
| reamber or road | i dotoi | |
| 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 DM30 -DTH

Bit Life (feet/bit)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|-------|---|-------|-----------|---------|--------|-------|------|-------|
| | 5.50 | | | 6.00 | | | | 6.50 | |
| Granite | 1,946 | - | 2,633 | 1,898 | - | 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 |
| Conglome | 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)

| · | | | | Hole Diam | eter (i | nches) | <u> </u> | | |
|-----------|--------|------|--------|-----------|---------|--------|----------|------|--------|
| | | 5.50 | | | 6.00 | | | 6.50 | |
| Granite | 26,110 | - | 35,326 | 25,463 | - | 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 |
| Conglome | 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)

| | | Hole Diameter (inches) | | | | | | | | | | | |
|-----------|------|------------------------|-----|-----|------|-----|-----|------|-----|--|--|--|--|
| | 5.50 | | | | 6.00 | | | 6.50 | | | | | |
| Granite | 81 | - | 110 | 73 | - | 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 | | | | |
| Conglome | 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)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|--------|------|--------|-----------|---------|--------|--------|---|--------|
| | | 5.50 | | 6.00 | | | 6.50 | | |
| Granite | \$0.30 | - | \$0.22 | \$0.33 | - | \$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 |
| Conglome | \$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)

| | | | | Hole Diam | eter (i | nches) | | | |
|--------------|----------------|----------|---------|-----------|---------|---------|---------|------|---------|
| | | 5.50 | | | 6.00 | | | 6.50 | |
| Granite | \$0.020 | - | \$0.015 | \$0.024 | - | \$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 |
| Conglome | \$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 | 2 foot drillin | g rod le | ngth.) | | | | | | |

Drill Steel Cost Adjustment Factor

| Factor | |
|---------|---|
| | |
| 1.0 | |
| 1.5 | |
| 2.0 | |
| 2.5 | |
| 3.0 | |
| 3.5 | |
| 4.0 | |
| 4.5 | |
| 5.0 | |
| 5.5 | |
| (n+1)/2 | |
| | 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 |

DRILL MODEL - Atlas Copco DM45 -DTH

Bit Life (feet/bit)

| | | | | Hole Diam | eter (iı | nches) | | | | |
|-----------|-------|------|-------|-----------|----------|--------|-------|------|-------|--|
| | | 5.00 | | | 6.50 | | | 8.00 | | |
| Granite | 2,580 | - | 3,490 | 2,392 | - | 3,236 | 2,253 | - | 3,048 | |
| Basalt | 1,155 | - | 1,563 | 1,071 | - | 1,449 | 1,009 | - | 1,364 | |
| Gabbro | 1,717 | - | 2,323 | 1,592 | - | 2,154 | 1,499 | - | 2,029 | |
| Shale | 2,445 | - | 3,308 | 2,267 | - | 3,067 | 2,135 | - | 2,888 | |
| Sandstone | 897 | - | 1,214 | 832 | - | 1,126 | 784 | - | 1,060 | |
| Siltstone | 6,473 | - | 8,758 | 6,001 | - | 8,120 | 5,652 | - | 7,647 | |
| Conglome | 500 | - | 677 | 464 | - | 627 | 437 | - | 591 | |
| Breccia | 3,737 | - | 5,056 | 3,464 | - | 4,687 | 3,263 | - | 4,414 | |
| Limestone | 3,144 | - | 4,254 | 2,915 | - | 3,944 | 2,745 | - | 3,714 | |
| Schist | 5,849 | - | 7,913 | 5,422 | - | 7,336 | 5,107 | - | 6,910 | |
| Slate | 2,929 | - | 3,963 | 2,715 | - | 3,674 | 2,557 | - | 3,460 | |
| Gneiss | 1,259 | - | 1,704 | 1,168 | - | 1,580 | 1,100 | - | 1,488 | |

Drill Steel Life (feet/rod)

| • | | | | Hole Diam | eter (i | nches) | | | |
|-----------|--------|------|--------|-----------|---------|--------|--------|------|--------|
| | | 5.00 | | | 6.50 | | | 8.00 | |
| Granite | 28,482 | - | 38,534 | 26,405 | - | 35,724 | 24,869 | - | 33,646 |
| Basalt | 16,677 | - | 22,563 | 15,461 | - | 20,917 | 14,561 | - | 19,701 |
| Gabbro | 18,420 | - | 24,921 | 17,077 | - | 23,104 | 16,083 | - | 21,760 |
| Shale | 29,642 | - | 40,104 | 27,480 | - | 37,179 | 25,882 | - | 35,017 |
| Sandstone | 30,681 | - | 41,510 | 28,444 | - | 38,483 | 26,789 | - | 36,245 |
| Siltstone | 30,568 | - | 41,357 | 28,339 | - | 38,341 | 26,691 | - | 36,111 |
| Conglome | 34,414 | - | 46,560 | 31,904 | - | 43,165 | 30,049 | - | 40,654 |
| Breccia | 44,939 | - | 60,799 | 41,662 | - | 56,366 | 39,238 | - | 53,087 |
| Limestone | 38,539 | - | 52,141 | 35,729 | - | 48,339 | 33,651 | - | 45,527 |
| Schist | 45,628 | - | 61,733 | 42,301 | - | 57,231 | 39,841 | - | 53,902 |
| Slate | 31,989 | - | 43,279 | 29,656 | - | 40,123 | 27,931 | - | 37,789 |
| Gneiss | 29,589 | - | 40,032 | 27,432 | - | 37,113 | 25,836 | - | 34,955 |

Penetration Rate (feet/hour)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|------|---|-----|-----------|---------|--------|------|---|-----|
| | 5.00 | | | 6.50 | | | 8.00 | | |
| Granite | 109 | - | 148 | 80 | - | 108 | 62 | - | 84 |
| Basalt | 64 | - | 86 | 46 | - | 63 | 36 | - | 49 |
| Gabbro | 70 | - | 95 | 51 | - | 69 | 40 | - | 54 |
| Shale | 114 | - | 154 | 83 | - | 112 | 65 | - | 88 |
| Sandstone | 118 | - | 160 | 86 | - | 116 | 67 | - | 91 |
| Siltstone | 118 | - | 159 | 86 | - | 116 | 67 | - | 90 |
| Conglome | 133 | - | 179 | 97 | - | 131 | 75 | - | 102 |
| Breccia | 174 | - | 235 | 127 | - | 171 | 99 | - | 134 |
| Limestone | 149 | - | 201 | 108 | - | 147 | 84 | - | 114 |
| Schist | 177 | - | 239 | 129 | - | 174 | 100 | - | 136 |
| Slate | 123 | - | 167 | 90 | - | 121 | 70 | - | 95 |
| Gneiss | 114 | - | 154 | 83 | - | 112 | 65 | - | 87 |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|--------|---|--------|-----------|----------|--------|--------|---|--------|
| | 5.00 | | | 6.50 | | | 8.00 | | |
| Granite | \$0.21 | - | \$0.16 | \$0.27 | - | \$0.20 | \$0.55 | - | \$0.40 |
| Basalt | \$0.48 | - | \$0.35 | \$0.60 | - | \$0.44 | \$1.22 | - | \$0.90 |
| Gabbro | \$0.32 | - | \$0.24 | \$0.40 | - | \$0.30 | \$0.82 | - | \$0.61 |
| Shale | \$0.22 | - | \$0.17 | \$0.28 | - | \$0.21 | \$0.58 | - | \$0.43 |
| Sandstone | \$0.61 | - | \$0.45 | \$0.77 | - | \$0.57 | \$1.57 | - | \$1.16 |
| Siltstone | \$0.08 | - | \$0.06 | \$0.11 | - | \$0.08 | \$0.22 | - | \$0.16 |
| Conglome | \$1.10 | - | \$0.81 | \$1.38 | - | \$1.02 | \$2.82 | - | \$2.08 |
| Breccia | \$0.15 | - | \$0.11 | \$0.18 | - | \$0.14 | \$0.38 | - | \$0.28 |
| Limestone | \$0.17 | - | \$0.13 | \$0.22 | - | \$0.16 | \$0.45 | - | \$0.33 |
| Schist | \$0.09 | - | \$0.07 | \$0.12 | - | \$0.09 | \$0.24 | - | \$0.18 |
| Slate | \$0.19 | - | \$0.14 | \$0.24 | - | \$0.17 | \$0.48 | - | \$0.36 |
| Gneiss | \$0.44 | - | \$0.32 | \$0.55 | - | \$0.41 | \$1.12 | - | \$0.83 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|--------------|----------------|-----------|---------|-----------|----------|---------|---------|---|---------|
| | | 5.00 | | | 6.50 | | 8.00 | | |
| Granite | \$0.021 | - | \$0.016 | \$0.027 | - | \$0.020 | \$0.029 | - | \$0.021 |
| Basalt | \$0.036 | - | \$0.027 | \$0.047 | - | \$0.035 | \$0.050 | - | \$0.037 |
| Gabbro | \$0.033 | - | \$0.024 | \$0.042 | - | \$0.031 | \$0.045 | - | \$0.033 |
| Shale | \$0.020 | - | \$0.015 | \$0.026 | - | \$0.019 | \$0.028 | - | \$0.021 |
| Sandstone | \$0.020 | - | \$0.014 | \$0.025 | - | \$0.019 | \$0.027 | - | \$0.020 |
| Siltstone | \$0.020 | - | \$0.014 | \$0.025 | - | \$0.019 | \$0.027 | - | \$0.020 |
| Conglome | \$0.017 | - | \$0.013 | \$0.023 | - | \$0.017 | \$0.024 | - | \$0.018 |
| Breccia | \$0.013 | - | \$0.010 | \$0.017 | - | \$0.013 | \$0.018 | - | \$0.014 |
| Limestone | \$0.016 | - | \$0.011 | \$0.020 | - | \$0.015 | \$0.021 | - | \$0.016 |
| Schist | \$0.013 | - | \$0.010 | \$0.017 | - | \$0.013 | \$0.018 | - | \$0.013 |
| Slate | \$0.019 | - | \$0.014 | \$0.024 | - | \$0.018 | \$0.026 | - | \$0.019 |
| Gneiss | \$0.020 | - | \$0.015 | \$0.026 | - | \$0.019 | \$0.028 | - | \$0.021 |
| (Based on 1: | 2 foot drillin | ig rod le | ength.) | | | | | | |

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 | |
| ** | (····//2 | |

DRILL MODEL - Atlas Copco DM M2 -DTH

Bit Life (feet/bit)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|-------|------|-------|-----------|---------|--------|-------|-------|-------|
| i | | 8.88 | | | 10.00 | | | 11.87 | 5 |
| Granite | 1,779 | - | 2,407 | 1,719 | - | 2,325 | 1,636 | - | 2,213 |
| Basalt | 796 | - | 1,078 | 770 | - | 1,041 | 732 | - | 991 |
| Gabbro | 1,184 | - | 1,602 | 1,144 | - | 1,548 | 1,089 | - | 1,473 |
| Shale | 1,686 | - | 2,281 | 1,629 | - | 2,204 | 1,550 | - | 2,097 |
| Sandstone | 619 | - | 837 | 598 | - | 809 | 569 | - | 770 |
| Siltstone | 4,464 | - | 6,039 | 4,313 | - | 5,835 | 4,104 | - | 5,553 |
| Conglome | 345 | - | 467 | 333 | - | 451 | 317 | - | 429 |
| Breccia | 2,577 | - | 3,486 | 2,490 | - | 3,368 | 2,369 | - | 3,205 |
| Limestone | 2,168 | - | 2,933 | 2,095 | - | 2,834 | 1,993 | - | 2,697 |
| Schist | 4,033 | - | 5,457 | 3,897 | - | 5,272 | 3,708 | - | 5,017 |
| Slate | 2,020 | - | 2,733 | 1,951 | - | 2,640 | 1,857 | - | 2,512 |
| Gneiss | 868 | - | 1,175 | 839 | - | 1,135 | 798 | - | 1,080 |

Drill Steel Life (feet/rod)

| Hole Diameter (inches) | | | | | | | | | | |
|------------------------|--------|------|--------|--------|-------|--------|--------|--------|--------|--|
| | | 8.88 | | | 10.00 | | | 11.875 | 5 | |
| Granite | 25,947 | - | 35,105 | 25,069 | - | 33,917 | 23,856 | - | 32,276 | |
| Basalt | 15,193 | - | 20,555 | 14,679 | - | 19,859 | 13,968 | - | 18,898 | |
| Gabbro | 16,781 | - | 22,704 | 16,213 | - | 21,935 | 15,428 | - | 20,874 | |
| Shale | 27,004 | - | 36,535 | 26,090 | - | 35,298 | 24,828 | - | 33,590 | |
| Sandstone | 27,951 | - | 37,817 | 27,005 | - | 36,536 | 25,698 | - | 34,768 | |
| Siltstone | 27,848 | - | 37,677 | 26,905 | - | 36,401 | 25,604 | - | 34,640 | |
| Conglome | 31,352 | - | 42,417 | 30,290 | - | 40,981 | 28,825 | - | 38,998 | |
| Breccia | 40,940 | - | 55,390 | 39,554 | - | 53,514 | 37,640 | - | 50,925 | |
| Limestone | 35,110 | - | 47,502 | 33,921 | - | 45,894 | 32,280 | - | 43,673 | |
| Schist | 41,569 | - | 56,240 | 40,161 | - | 54,336 | 38,218 | - | 51,707 | |
| Slate | 29,143 | - | 39,428 | 28,156 | - | 38,093 | 26,794 | - | 36,250 | |
| Gneiss | 26,957 | - | 36,471 | 26,044 | - | 35,236 | 24,784 | - | 33,531 | |
| | | | | | | | | | | |

Penetration Rate (feet/hour)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|------|---|-----|-----------|----------|--------|--------|---|-----|
| | 8.88 | | | 10.00 | | | 11.875 | | |
| Granite | 69 | - | 93 | 60 | - | 81 | 48 | - | 66 |
| Basalt | 40 | - | 54 | 35 | - | 47 | 28 | - | 38 |
| Gabbro | 44 | - | 60 | 38 | - | 52 | 31 | - | 42 |
| Shale | 72 | - | 97 | 62 | - | 84 | 50 | - | 68 |
| Sandstone | 74 | - | 100 | 64 | - | 87 | 52 | - | 71 |
| Siltstone | 74 | - | 100 | 64 | - | 87 | 52 | - | 70 |
| Conglome | 83 | - | 113 | 72 | - | 98 | 59 | - | 79 |
| Breccia | 109 | - | 148 | 95 | - | 128 | 77 | - | 104 |
| Limestone | 94 | - | 127 | 81 | - | 110 | 66 | - | 89 |
| Schist | 111 | - | 150 | 96 | - | 130 | 78 | - | 106 |
| Slate | 77 | - | 105 | 67 | - | 91 | 55 | - | 74 |
| Gneiss | 72 | - | 97 | 62 | - | 84 | 50 | - | 68 |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|--------|---|--------|-----------|---------|--------|---------|---|---------|
| | 8.88 | | | 10.00 | | | 11.875 | | |
| Granite | \$0.78 | - | \$0.58 | \$1.11 | - | \$0.82 | \$2.75 | - | \$2.03 |
| Basalt | \$1.74 | - | \$1.29 | \$2.47 | - | \$1.82 | \$6.15 | - | \$4.54 |
| Gabbro | \$1.17 | - | \$0.86 | \$1.66 | - | \$1.23 | \$4.13 | - | \$3.06 |
| Shale | \$0.82 | - | \$0.61 | \$1.17 | - | \$0.86 | \$2.90 | - | \$2.15 |
| Sandstone | \$2.24 | - | \$1.65 | \$3.18 | - | \$2.35 | \$7.91 | - | \$5.85 |
| Siltstone | \$0.31 | - | \$0.23 | \$0.44 | - | \$0.33 | \$1.10 | - | \$0.81 |
| Conglome | \$4.02 | - | \$2.97 | \$5.70 | - | \$4.22 | \$14.19 | - | \$10.49 |
| Breccia | \$0.54 | - | \$0.40 | \$0.76 | - | \$0.56 | \$1.90 | - | \$1.40 |
| Limestone | \$0.64 | - | \$0.47 | \$0.91 | - | \$0.67 | \$2.26 | - | \$1.67 |
| Schist | \$0.34 | - | \$0.25 | \$0.49 | - | \$0.36 | \$1.21 | - | \$0.90 |
| Slate | \$0.69 | - | \$0.51 | \$0.97 | - | \$0.72 | \$2.42 | - | \$1.79 |
| Gneiss | \$1.59 | - | \$1.18 | \$2.26 | - | \$1.67 | \$5.64 | - | \$4.17 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|----------------|-----------|---------|-----------|----------|---------|---------|--------|---------|
| | | 8.88 | | | 10.00 | | | 11.875 | 5 |
| Granite | \$0.038 | - | \$0.028 | \$0.040 | - | \$0.029 | \$0.042 | - | \$0.031 |
| Basalt | \$0.065 | - | \$0.048 | \$0.068 | - | \$0.050 | \$0.071 | - | \$0.053 |
| Gabbro | \$0.059 | - | \$0.044 | \$0.061 | - | \$0.045 | \$0.064 | - | \$0.048 |
| Shale | \$0.037 | - | \$0.027 | \$0.038 | - | \$0.028 | \$0.040 | - | \$0.030 |
| Sandstone | \$0.036 | - | \$0.026 | \$0.037 | - | \$0.027 | \$0.039 | - | \$0.029 |
| Siltstone | \$0.036 | - | \$0.026 | \$0.037 | - | \$0.027 | \$0.039 | - | \$0.029 |
| Conglome | \$0.032 | - | \$0.023 | \$0.033 | - | \$0.024 | \$0.035 | - | \$0.026 |
| Breccia | \$0.024 | - | \$0.018 | \$0.025 | - | \$0.019 | \$0.026 | - | \$0.020 |
| Limestone | \$0.028 | - | \$0.021 | \$0.029 | - | \$0.022 | \$0.031 | - | \$0.023 |
| Schist | \$0.024 | - | \$0.018 | \$0.025 | - | \$0.018 | \$0.026 | - | \$0.019 |
| Slate | \$0.034 | - | \$0.025 | \$0.035 | - | \$0.026 | \$0.037 | - | \$0.027 |
| Gneiss | \$0.037 | - | \$0.027 | \$0.038 | - | \$0.028 | \$0.040 | - | \$0.030 |
| (Based on 1 | 2 foot drillin | ng rod le | ength.) | | | | | | |

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 | |
| | | |

DRILL MODEL - Atlas Copco DM25SP - Rotary

Bit Life (feet/bit)

| | | | | Hole Diam | eter (iı | nches) | | | | |
|-----------|-------|------|-------|-----------|----------|--------|-------|------|-------|--|
| , | | 3.88 | | | 5.00 | | | 6.25 | | |
| Granite | 3,585 | - | 4,851 | 3,364 | - | 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 | |
| Conglome | 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)

| | | | • | Hole Diam | eter (ii | nches) | | | |
|-----------|--------|---|--------|-----------|----------|--------|--------|------|--------|
| | 3.88 | | | 5.00 | | | | 6.25 | |
| Granite | 44,519 | - | 60,232 | 41,775 | - | 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 |
| Conglome | 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)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|------|---|-----|-----------|---------|--------|------|---|----|
| | 3.88 | | | 5.00 | | | 6.25 | | |
| Granite | 57 | - | 77 | 34 | - | 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 |
| Conglome | 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)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|--------|---|--------|-----------|----------|--------|--------|------|--------|
| | 3.88 | | | 5.00 | | | | 6.25 | |
| Granite | \$0.32 | - | \$0.24 | \$0.48 | - | \$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 |
| Conglome | \$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)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|----------------|-----------|---------|-----------|----------|---------|---------|------|---------|
| | | 3.88 | | | 5.00 | | | 6.25 | |
| Granite | \$0.012 | - | \$0.009 | \$0.038 | - | \$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 |
| Conglome | \$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 1 | 2 foot drillin | ig rod le | ength.) | | | | | | |

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 | |
| · | , ,,= | |

DRILL MODEL - Atlas Copco DM30 -Rotary

Bit Life (feet/bit)

| | | | | Hole Diam | eter (iı | nches) | | | | |
|-----------|-------|------|-------|-----------|----------|--------|-------|------|-------|--|
| i | | 5.50 | | | 6.00 | | | 6.75 | | |
| Granite | 3,347 | - | 4,528 | 3,275 | - | 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 | |
| Conglome | 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)

| | | | | Hole Diam | eter (ii | nches) | | | |
|-----------|--------|---|--------|-----------|----------|--------|--------|---|--------|
| | 5.50 | | | 6.00 | | | 6.75 | | |
| Granite | 41,556 | - | 56,222 | 40,663 | - | 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 |
| Conglome | 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)

| | | | | Hole Diam | eter (i | nches) | | | | | |
|-----------|----|------|----|-----------|---------|--------|----|------|----|--|--|
| | | 5.50 | | | 6.00 | | | 6.75 | 75 | | |
| Granite | 32 | - | 43 | 27 | - | 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 | | |
| Conglome | 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)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|--------|------|--------|-----------|----------|--------|--------|------|--------|
| | | 5.50 | | | 6.00 | | | 6.75 | |
| Granite | \$0.59 | - | \$0.44 | \$0.65 | - | \$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 |
| Conglome | \$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)

| | | | | Hole Diam | eter (iı | nches) | | | |
|--------------|----------------|----------|---------|-----------|----------|---------|---------|------|---------|
| | | 5.50 | | | 6.00 | | | 6.75 | |
| Granite | \$0.045 | - | \$0.033 | \$0.046 | - | \$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 |
| Conglome | \$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 1) | 2 foot drillin | g rod le | ength.) | | | | | | |

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 |

DRILL MODEL - Atlas Copco DM45 -Rotary

Bit Life (feet/bit)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|-------|------|-------|-----------|----------|--------|-------|---|-------|
| | | 5.00 | | | 6.75 | | 7.875 | | |
| Granite | 3,619 | - | 4,897 | 3,358 | - | 4,543 | 3,231 | - | 4,372 |
| Basalt | 1,896 | - | 2,565 | 1,759 | - | 2,380 | 1,693 | - | 2,290 |
| Gabbro | 2,138 | - | 2,893 | 1,984 | - | 2,684 | 1,909 | - | 2,582 |
| Shale | 3,798 | - | 5,139 | 3,524 | - | 4,768 | 3,391 | - | 4,588 |
| Sandstone | 3,960 | - | 5,357 | 3,674 | - | 4,971 | 3,535 | - | 4,783 |
| Siltstone | 3,942 | - | 5,333 | 3,658 | - | 4,948 | 3,519 | - | 4,762 |
| Conglome | 4,549 | - | 6,154 | 4,220 | - | 5,710 | 4,061 | - | 5,494 |
| Breccia | 6,279 | - | 8,495 | 5,825 | - | 7,881 | 5,606 | - | 7,584 |
| Limestone | 5,215 | - | 7,056 | 4,839 | - | 6,547 | 4,656 | - | 6,300 |
| Schist | 6,395 | - | 8,652 | 5,934 | - | 8,028 | 5,710 | - | 7,725 |
| Slate | 4,164 | - | 5,634 | 3,864 | - | 5,228 | 3,718 | - | 5,030 |
| Gneiss | 3,790 | - | 5,128 | 3,517 | - | 4,758 | 3,384 | - | 4,578 |
| | | | | | | | | | |

Drill Steel Life (feet/rod)

| Hole Diameter (inches) | | | | | | | | | | | |
|------------------------|--|--|---|--|--|---|--|---|--|--|--|
| | 5.00 | | | 6.75 | | | 7.875 | | | | |
| 44,942 | - | 60,803 | 41,698 | - | 56,415 | 40,124 | - | 54,286 | | | |
| 26,314 | - | 35,602 | 24,415 | - | 33,033 | 23,494 | - | 31,786 | | | |
| 29,065 | - | 39,323 | 26,967 | - | 36,485 | 25,950 | - | 35,108 | | | |
| 46,772 | - | 63,280 | 43,397 | - | 58,713 | 41,759 | - | 56,497 | | | |
| 48,412 | - | 65,499 | 44,919 | - | 60,772 | 43,223 | - | 58,478 | | | |
| 48,234 | - | 65,258 | 44,753 | - | 60,548 | 43,064 | - | 58,263 | | | |
| 54,302 | - | 73,468 | 50,383 | - | 68,166 | 48,482 | - | 65,593 | | | |
| 70,909 | - | 95,936 | 65,792 | - | 89,013 | 63,309 | - | 85,653 | | | |
| 60,812 | - | 82,275 | 56,423 | - | 76,337 | 54,293 | - | 73,456 | | | |
| 71,998 | - | 97,409 | 66,802 | - | 90,379 | 64,280 | - | 86,968 | | | |
| 50,476 | - | 68,291 | 46,833 | - | 63,362 | 45,065 | - | 60,971 | | | |
| 46,689 | - | 63,168 | 43,320 | - | 58,609 | 41,685 | - | 56,397 | | | |
| | 26,314 29,065 46,772 48,412 48,234 54,302 70,909 60,812 71,998 50,476 | 44,942 - 26,314 - 29,065 - 46,772 - 48,412 - 48,234 - 54,302 - 70,909 - 60,812 - 71,998 - 50,476 - | 44,942 - 60,803 26,314 - 35,602 29,065 - 39,323 46,772 - 63,280 48,412 - 65,499 48,234 - 65,258 54,302 - 73,468 70,909 - 95,936 60,812 - 82,275 71,998 - 97,409 50,476 - 68,291 | 44,942 - 60,803 41,698 26,314 - 36,602 24,415 29,065 - 39,323 26,967 46,772 - 63,280 43,397 48,412 - 65,499 44,919 48,234 - 65,258 44,753 54,302 - 73,468 50,383 70,909 - 95,936 65,792 60,812 - 82,275 56,423 71,998 - 97,409 66,802 50,476 - 68,291 46,833 | 44,942 - 60,803 41,698 - 26,314 - 35,602 24,415 - 29,065 - 39,323 26,967 - 46,772 - 63,280 43,397 - 48,412 - 65,499 44,919 - 48,234 - 65,258 44,753 - 54,302 - 73,468 50,383 - 70,909 - 95,936 65,792 - 60,812 - 82,275 56,423 - 71,998 - 97,409 66,802 - 50,476 - 68,291 46,833 - | 44,942 - 60,803 41,698 - 56,415 26,314 - 35,602 24,415 - 33,033 29,065 - 39,323 26,967 - 36,485 46,772 - 63,280 43,397 - 58,713 48,412 - 65,499 44,919 - 60,548 48,234 - 65,258 44,753 - 60,548 54,302 - 73,468 50,383 - 68,166 70,909 - 95,936 65,792 - 89,013 60,812 - 82,275 56,423 - 76,337 71,998 - 97,409 66,802 - 90,379 50,476 - 68,291 46,833 - 63,362 | 44,942 - 60,803 41,698 - 56,415 40,124 26,314 - 35,602 24,415 - 33,033 23,494 29,065 - 39,323 26,967 - 36,485 25,950 46,772 - 63,280 43,397 - 58,713 41,759 48,412 - 65,499 44,919 - 60,772 43,223 48,234 - 65,258 44,753 - 60,548 43,064 54,302 - 73,468 50,383 - 68,166 48,482 70,909 - 95,936 65,792 - 89,013 63,309 60,812 - 82,275 56,423 - 76,337 54,293 71,998 - 97,409 66,802 - 90,379 64,280 50,476 - 68,291 46,833 - 63,362 45,065 | 44,942 - 60,803 41,698 - 56,415 40,124 - 26,314 - 35,602 24,415 - 33,033 23,494 - 29,065 - 39,323 26,967 - 36,485 25,950 - 46,772 - 63,280 43,397 - 58,713 41,759 - 48,412 - 65,499 44,919 - 60,772 43,223 - 48,234 - 65,258 44,753 - 60,548 43,064 - 54,302 - 73,468 50,383 - 68,166 48,482 - 70,909 - 95,936 65,792 - 89,013 63,309 - 60,812 - 82,275 56,423 - 76,337 54,293 - 71,998 - 97,409 66,802 - 90,379 64,280 - 50,476 - 68,291 | | | |

Penetration Rate (feet/hour)

| | Hole Diameter (inches) | | | | | | | | | | |
|-----------|------------------------|------|-----|----|------|----|----|-------|----|--|--|
| | | 5.00 | | | 6.75 | | | 7.875 | | | |
| Granite | 50 | - | 68 | 27 | - | 37 | 20 | - | 27 | | |
| Basalt | 29 | - | 39 | 16 | - | 21 | 12 | - | 16 | | |
| Gabbro | 32 | - | 44 | 17 | - | 24 | 13 | - | 17 | | |
| Shale | 52 | - | 71 | 28 | - | 38 | 21 | - | 28 | | |
| Sandstone | 54 | - | 73 | 29 | - | 40 | 21 | - | 29 | | |
| Siltstone | 54 | - | 73 | 29 | - | 40 | 21 | - | 29 | | |
| Conglome | 61 | - | 82 | 33 | - | 45 | 24 | - | 33 | | |
| Breccia | 80 | - | 108 | 43 | - | 59 | 32 | - | 43 | | |
| Limestone | 68 | - | 92 | 37 | - | 50 | 27 | - | 37 | | |
| Schist | 81 | - | 109 | 44 | - | 59 | 32 | - | 44 | | |
| Slate | 56 | - | 76 | 31 | - | 41 | 22 | - | 30 | | |
| Gneiss | 52 | - | 70 | 28 | - | 38 | 21 | - | 28 | | |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|--------|---|--------|-----------|----------|--------|--------|---|--------|
| | 5.00 | | | 6.75 | | | 7.875 | | |
| Granite | \$0.45 | - | \$0.33 | \$0.73 | - | \$0.54 | \$0.94 | - | \$0.69 |
| Basalt | \$0.86 | - | \$0.64 | \$1.40 | - | \$1.03 | \$1.79 | - | \$1.32 |
| Gabbro | \$0.76 | - | \$0.56 | \$1.24 | - | \$0.92 | \$1.58 | - | \$1.17 |
| Shale | \$0.43 | - | \$0.32 | \$0.70 | - | \$0.52 | \$0.89 | - | \$0.66 |
| Sandstone | \$0.41 | - | \$0.30 | \$0.67 | - | \$0.50 | \$0.86 | - | \$0.63 |
| Siltstone | \$0.41 | - | \$0.31 | \$0.67 | - | \$0.50 | \$0.86 | - | \$0.63 |
| Conglome | \$0.36 | - | \$0.26 | \$0.58 | - | \$0.43 | \$0.74 | - | \$0.55 |
| Breccia | \$0.26 | - | \$0.19 | \$0.42 | - | \$0.31 | \$0.54 | - | \$0.40 |
| Limestone | \$0.31 | - | \$0.23 | \$0.51 | - | \$0.38 | \$0.65 | - | \$0.48 |
| Schist | \$0.25 | - | \$0.19 | \$0.42 | - | \$0.31 | \$0.53 | - | \$0.39 |
| Slate | \$0.39 | - | \$0.29 | \$0.64 | - | \$0.47 | \$0.81 | - | \$0.60 |
| Gneiss | \$0.43 | - | \$0.32 | \$0.70 | - | \$0.52 | \$0.89 | - | \$0.66 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|----------------|----------|---------|-----------|----------|---------|---------|-------|---------|
| | | 5.00 | | | 6.75 | | | 7.875 | |
| Granite | \$0.035 | - | \$0.026 | \$0.045 | - | \$0.033 | \$0.069 | - | \$0.051 |
| Basalt | \$0.060 | - | \$0.044 | \$0.077 | - | \$0.057 | \$0.117 | - | \$0.087 |
| Gabbro | \$0.054 | - | \$0.040 | \$0.069 | - | \$0.051 | \$0.106 | - | \$0.079 |
| Shale | \$0.034 | - | \$0.025 | \$0.043 | - | \$0.032 | \$0.066 | - | \$0.049 |
| Sandstone | \$0.033 | - | \$0.024 | \$0.042 | - | \$0.031 | \$0.064 | - | \$0.047 |
| Siltstone | \$0.033 | - | \$0.024 | \$0.042 | - | \$0.031 | \$0.064 | - | \$0.047 |
| Conglome | \$0.029 | - | \$0.022 | \$0.037 | - | \$0.027 | \$0.057 | - | \$0.042 |
| Breccia | \$0.022 | - | \$0.017 | \$0.028 | - | \$0.021 | \$0.044 | - | \$0.032 |
| Limestone | \$0.026 | - | \$0.019 | \$0.033 | - | \$0.025 | \$0.051 | - | \$0.038 |
| Schist | \$0.022 | - | \$0.016 | \$0.028 | - | \$0.021 | \$0.043 | - | \$0.032 |
| Slate | \$0.031 | - | \$0.023 | \$0.040 | - | \$0.030 | \$0.061 | - | \$0.045 |
| Gneiss | \$0.034 | - | \$0.025 | \$0.043 | - | \$0.032 | \$0.066 | - | \$0.049 |
| (Based on 1 | 2 foot drillin | g rod le | ength.) | | | | | | |

Drill Steel Cost Adjustment Factor

| Factor | |
|---------|---|
| | |
| 1.0 | |
| 1.5 | |
| 2.0 | |
| 2.5 | |
| 3.0 | |
| 3.5 | |
| 4.0 | |
| 4.5 | |
| 5.0 | |
| 5.5 | |
| (n+1)/2 | |
| | 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 |

DRILL MODEL - Atlas Copco DM M2 -Rotary

Bit Life (feet/bit)

| | | | | Hole Diam | eter (i | nches) | | | |
|-----------|-------|------|-------|-----------|---------|--------|-------|---|-------|
| | | 9.00 | | | 9.8 | 75 | 11.00 | | |
| Granite | 3,312 | - | 4,481 | 3,236 | - | 4,378 | 3,150 | - | 4,262 |
| Basalt | 1,735 | - | 2,347 | 1,695 | - | 2,294 | 1,650 | - | 2,233 |
| Gabbro | 1,956 | - | 2,647 | 1,912 | - | 2,586 | 1,861 | - | 2,518 |
| Shale | 3,476 | - | 4,702 | 3,396 | - | 4,595 | 3,306 | - | 4,473 |
| Sandstone | 3,623 | - | 4,902 | 3,540 | - | 4,790 | 3,446 | - | 4,663 |
| Siltstone | 3,607 | - | 4,880 | 3,525 | - | 4,769 | 3,431 | - | 4,642 |
| Conglome | 4,162 | - | 5,631 | 4,067 | - | 5,502 | 3,959 | - | 5,356 |
| Breccia | 5,745 | - | 7,773 | 5,614 | - | 7,595 | 5,465 | - | 7,393 |
| Limestone | 4,772 | - | 6,457 | 4,663 | - | 6,309 | 4,539 | - | 6,141 |
| Schist | 5,852 | - | 7,917 | 5,718 | - | 7,736 | 5,566 | - | 7,531 |
| Slate | 3,811 | - | 5,156 | 3,723 | - | 5,038 | 3,624 | - | 4,904 |
| Gneiss | 3,468 | - | 4,692 | 3,389 | - | 4,585 | 3,299 | - | 4,463 |

Drill Steel Life (feet/rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-----------|--------|---|--------|-----------|----------|--------|--------|-------|--------|
| | 9.00 | | | | 9.875 | | | 11.00 | |
| Granite | 41,124 | - | 55,639 | 40,183 | - | 54,365 | 39,115 | - | 52,921 |
| Basalt | 24,079 | - | 32,578 | 23,528 | - | 31,832 | 22,903 | - | 30,986 |
| Gabbro | 26,596 | - | 35,983 | 25,987 | - | 35,159 | 25,297 | - | 34,225 |
| Shale | 42,800 | - | 57,905 | 41,820 | - | 56,580 | 40,709 | - | 55,077 |
| Sandstone | 44,300 | - | 59,936 | 43,286 | - | 58,564 | 42,136 | - | 57,008 |
| Siltstone | 44,137 | - | 59,715 | 43,127 | - | 58,348 | 41,981 | - | 56,798 |
| Conglome | 49,690 | - | 67,228 | 48,552 | - | 65,689 | 47,262 | - | 63,943 |
| Breccia | 64,887 | - | 87,788 | 63,401 | - | 85,778 | 61,717 | - | 83,499 |
| Limestone | 55,647 | - | 75,287 | 54,373 | - | 73,563 | 52,928 | - | 71,609 |
| Schist | 65,883 | - | 89,135 | 64,374 | - | 87,095 | 62,664 | - | 84,781 |
| Slate | 46,189 | - | 62,490 | 45,131 | - | 61,060 | 43,932 | - | 59,438 |
| Gneiss | 42.724 | - | 57.803 | 41,746 | _ | 56,479 | 40.637 | _ | 54,979 |

Penetration Rate (feet/hour)

| Hole Diameter (inches) | | | | | | | | | | | |
|------------------------|------|---|----|----|-------|----|----|-------|----|--|--|
| | 9.00 | | | | 9.875 | | | 11.00 | | | |
| Granite | 21 | - | 29 | 18 | - | 24 | 14 | - | 19 | | |
| Basalt | 12 | - | 17 | 10 | - | 14 | 8 | - | 11 | | |
| Gabbro | 14 | - | 18 | 11 | - | 15 | 9 | - | 12 | | |
| Shale | 22 | - | 30 | 18 | - | 25 | 15 | - | 20 | | |
| Sandstone | 23 | - | 31 | 19 | - | 26 | 15 | - | 21 | | |
| Siltstone | 23 | - | 31 | 19 | - | 26 | 15 | - | 21 | | |
| Conglome | 26 | - | 35 | 21 | - | 29 | 17 | - | 23 | | |
| Breccia | 34 | - | 46 | 28 | - | 38 | 22 | - | 30 | | |
| Limestone | 29 | - | 39 | 24 | - | 32 | 19 | - | 26 | | |
| Schist | 34 | - | 46 | 28 | - | 38 | 23 | - | 31 | | |
| Slate | 24 | - | 32 | 20 | - | 27 | 16 | - | 22 | | |
| Gneiss | 22 | - | 30 | 18 | - | 25 | 15 | - | 20 | | |
| | | | | | | | | | | | |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (inche | es) | | | |
|-----------|--------|------|--------|-----------|-------------|--------|--------|-------|--------|
| | | 9.00 | | 9.875 | | | | 11.00 | |
| Granite | \$1.08 | - | \$0.80 | \$1.48 | - | \$1.09 | \$1.79 | - | \$1.32 |
| Basalt | \$2.07 | - | \$1.53 | \$2.82 | - | \$2.09 | \$3.42 | - | \$2.53 |
| Gabbro | \$1.83 | - | \$1.36 | \$2.50 | - | \$1.85 | \$3.03 | - | \$2.24 |
| Shale | \$1.03 | - | \$0.76 | \$1.41 | - | \$1.04 | \$1.71 | - | \$1.26 |
| Sandstone | \$0.99 | - | \$0.73 | \$1.35 | - | \$1.00 | \$1.64 | - | \$1.21 |
| Siltstone | \$0.99 | - | \$0.74 | \$1.36 | - | \$1.00 | \$1.64 | - | \$1.22 |
| Conglome | \$0.86 | - | \$0.64 | \$1.18 | - | \$0.87 | \$1.42 | - | \$1.05 |
| Breccia | \$0.62 | - | \$0.46 | \$0.85 | - | \$0.63 | \$1.03 | - | \$0.76 |
| Limestone | \$0.75 | - | \$0.56 | \$1.03 | - | \$0.76 | \$1.24 | - | \$0.92 |
| Schist | \$0.61 | - | \$0.45 | \$0.84 | - | \$0.62 | \$1.01 | - | \$0.75 |
| Slate | \$0.94 | - | \$0.70 | \$1.29 | - | \$0.95 | \$1.56 | - | \$1.15 |
| Gneiss | \$1.03 | - | \$0.76 | \$1.41 | - | \$1.04 | \$1.71 | - | \$1.26 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|--------------|----------------|----------|---------|-----------|----------|---------|---------|---|---------|
| | | 9.00 | | | 9.8 | 75 | 11.00 | | |
| Granite | \$0.067 | - | \$0.050 | \$0.069 | - | \$0.051 | \$0.070 | - | \$0.051 |
| Basalt | \$0.115 | - | \$0.085 | \$0.117 | - | \$0.087 | \$0.119 | - | \$0.088 |
| Gabbro | \$0.104 | - | \$0.077 | \$0.106 | - | \$0.078 | \$0.108 | - | \$0.079 |
| Shale | \$0.064 | - | \$0.048 | \$0.066 | - | \$0.049 | \$0.067 | - | \$0.049 |
| Sandstone | \$0.062 | - | \$0.046 | \$0.064 | - | \$0.047 | \$0.065 | - | \$0.048 |
| Siltstone | \$0.063 | - | \$0.046 | \$0.064 | - | \$0.047 | \$0.065 | - | \$0.048 |
| Conglome | \$0.056 | - | \$0.041 | \$0.057 | - | \$0.042 | \$0.058 | - | \$0.043 |
| Breccia | \$0.043 | - | \$0.031 | \$0.044 | - | \$0.032 | \$0.044 | - | \$0.033 |
| Limestone | \$0.050 | - | \$0.037 | \$0.051 | - | \$0.038 | \$0.051 | - | \$0.038 |
| Schist | \$0.042 | - | \$0.031 | \$0.043 | - | \$0.032 | \$0.043 | - | \$0.032 |
| Slate | \$0.060 | - | \$0.044 | \$0.061 | - | \$0.045 | \$0.062 | - | \$0.046 |
| Gneiss | \$0.065 | - | \$0.048 | \$0.066 | - | \$0.049 | \$0.067 | - | \$0.049 |
| (Based on 12 | 2 foot drillin | g rod le | ength.) | | | | | | |

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 | |
| | | |

DRILL MODEL - Bucyrus International 59R -Rotary

Bit Life (feet/bit)

| | | | | Hole Diar | neter (in | ches) | | | |
|-----------|----------|-------|----------|-----------|-----------|----------|----------|------|----------|
| | | 12.25 | | | 15.00 | | | 16.0 | 0 |
| Granite | 3379.984 | - | 4572.919 | 3213.372 | - | 4347.504 | 3162.023 | - | 4278.031 |
| Basalt | 1770.653 | - | 2395.589 | 1683.371 | - | 2277.502 | 1656.471 | - | 2241.108 |
| Gabbro | 1996.573 | - | 2701.246 | 1898.155 | - | 2568.092 | 1867.823 | - | 2527.054 |
| Shale | 3546.993 | - | 4798.873 | 3372.149 | - | 4562.319 | 3318.263 | - | 4489.414 |
| Sandstone | 3697.769 | - | 5002.863 | 3515.492 | - | 4756.254 | 3459.315 | - | 4680.25 |
| Siltstone | 3681.304 | - | 4980.588 | 3499.839 | - | 4735.076 | 3443.912 | - | 4659.411 |
| Conglome | 4247.818 | - | 5747.048 | 4038.427 | - | 5463.755 | 3973.894 | - | 5376.445 |
| Breccia | 5863.339 | - | 7932.753 | 5574.314 | - | 7541.719 | 5485.238 | - | 7421.204 |
| Limestone | 4870.335 | - | 6589.277 | 4630.259 | - | 6264.468 | 4556.268 | - | 6164.363 |
| Schist | 5972.24 | - | 8080.09 | 5677.846 | - | 7681.792 | 5587.116 | - | 7559.039 |
| Slate | 3888.976 | - | 5261.555 | 3697.274 | - | 5002.194 | 3638.192 | - | 4922.26 |
| Gneiss | 3539.394 | - | 4788.591 | 3364.924 | - | 4552.544 | 3311.153 | - | 4479.796 |

Drill Steel Life (feet/rod)

| | | | | Hole Diar | neter (in | iches) | | | | |
|-----------|----------|-------|----------|-----------|-----------|----------|----------|-------|----------|--|
| | | 12.25 | | | 15.00 | | | 16.00 | | |
| Granite | 41969.55 | - | 56782.33 | 39900.72 | - | 53983.32 | 39263.11 | - | 53120.68 | |
| Basalt | 24574.25 | - | 33247.51 | 23362.89 | - | 31608.62 | 22989.56 | - | 31103.52 | |
| Gabbro | 27142.87 | - | 36722.71 | 25804.9 | - | 34912.52 | 25392.55 | - | 34354.62 | |
| Shale | 43679.22 | - | 59095.42 | 41526.11 | - | 56182.39 | 40862.54 | - | 55284.61 | |
| Sandstone | 45210.83 | - | 61167.6 | 42982.23 | - | 58152.42 | 42295.38 | - | 57223.16 | |
| Siltstone | 45044.11 | - | 60942.03 | 42823.72 | - | 57937.98 | 42139.41 | - | 57012.14 | |
| Conglome | 50711.07 | - | 68609.09 | 48211.33 | - | 65227.1 | 47440.93 | - | 64184.78 | |
| Breccia | 66219.99 | - | 89591.75 | 62955.76 | - | 85175.45 | 61949.75 | - | 83814.36 | |
| Limestone | 56790.17 | - | 76833.76 | 53990.78 | - | 73046.35 | 53128.02 | - | 71879.08 | |
| Schist | 67236.6 | - | 90967.16 | 63922.26 | - | 86483.06 | 62900.8 | - | 85101.08 | |
| Slate | 47137.81 | - | 63774.69 | 44814.22 | - | 60631 | 44098.1 | - | 59662.13 | |
| Gneiss | 43601.73 | - | 58990.58 | 41452.44 | - | 56082.72 | 40790.04 | - | 55186.53 | |
| | | | | | | | | | | |

Penetration Rate (feet/hour)

| Hole Diameter (inches) | | | | | | | | | | |
|------------------------|----------|-------|----------|----------|---|----------|----------|---|---------|--|
| | | 12.25 | | 15.00 | | | 16.00 | | | |
| Granite | 19.00236 | - | 25.70907 | 12.60139 | - | 17.04894 | 11.05531 | - | 14.9571 | |
| Basalt | 11.03265 | - | 14.92652 | 7.316286 | - | 9.898504 | 6.418644 | - | 8.68404 | |
| Gabbro | 12.205 | - | 16.51264 | 8.093728 | - | 10.95034 | 7.100701 | - | 9.60683 | |
| Shale | 19.78892 | - | 26.77325 | 13.123 | - | 17.75464 | 11.51293 | - | 15.5763 | |
| Sandstone | 20.49398 | - | 27.72715 | 13.59055 | - | 18.38722 | 11.92312 | - | 16.1312 | |
| Siltstone | 20.41721 | - | 27.62329 | 13.53965 | - | 18.31835 | 11.87846 | - | 16.0708 | |
| Conglome | 23.02897 | - | 31.15684 | 15.27163 | - | 20.66162 | 13.39794 | - | 18.1266 | |
| Breccia | 30.19898 | - | 40.85745 | 20.02642 | - | 27.09456 | 17.56936 | - | 23.7703 | |
| Limestone | 25.83581 | - | 34.95433 | 17.13298 | - | 23.17992 | 15.03092 | - | 20.3359 | |
| Schist | 30.66998 | - | 41.49468 | 20.33876 | - | 27.51714 | 17.84338 | - | 24.1410 | |
| Slate | 21.38157 | - | 28.92801 | 14.17916 | - | 19.18357 | 12.43951 | - | 16.8299 | |
| Gneiss | 19.75326 | - | 26.725 | 13.09935 | - | 17.72265 | 11.49218 | - | 15.5482 | |

Bit Cost (\$/foot)

| | | | | Hole Dia | meter (iı | nches) | | | |
|-----------|--------|---|--------|----------|-----------|--------|--------|------|--------|
| | 12.25 | | | | 15.00 | | | 16.0 | 00 |
| Granite | \$1.95 | - | \$1.44 | \$3.23 | - | \$2.38 | \$3.48 | - | \$2.58 |
| Basalt | \$3.73 | - | \$2.76 | \$6.16 | - | \$4.55 | \$6.65 | - | \$4.92 |
| Gabbro | \$3.31 | - | \$2.44 | \$5.46 | - | \$4.04 | \$5.90 | - | \$4.36 |
| Shale | \$1.86 | - | \$1.38 | \$3.07 | - | \$2.27 | \$3.32 | - | \$2.45 |
| Sandstone | \$1.79 | - | \$1.32 | \$2.95 | - | \$2.18 | \$3.18 | - | \$2.35 |
| Siltstone | \$1.79 | - | \$1.33 | \$2.96 | - | \$2.19 | \$3.20 | - | \$2.36 |
| Conglome | \$1.55 | - | \$1.15 | \$2.57 | - | \$1.90 | \$2.77 | - | \$2.05 |
| Breccia | \$1.13 | - | \$0.83 | \$1.86 | - | \$1.37 | \$2.01 | - | \$1.48 |
| Limestone | \$1.36 | - | \$1.00 | \$2.24 | - | \$1.65 | \$2.42 | - | \$1.79 |
| Schist | \$1.11 | - | \$0.82 | \$1.83 | - | \$1.35 | \$1.97 | - | \$1.46 |
| Slate | \$1.70 | - | \$1.25 | \$2.80 | - | \$2.07 | \$3.03 | - | \$2.24 |
| Gneiss | \$1.87 | - | \$1.38 | \$3.08 | - | \$2.28 | \$3.33 | - | \$2.46 |
| | | | | | | | | | |

Drill Steel Cost (\$/foot per rod)

| | | | · | Hole Diam | eter (ii | nches) | | | |
|--------------|----------------|---------|---------|-----------|----------|---------|---------|---|---------|
| | | 12.25 | | 15.00 | | | 16.00 | | |
| Granite | \$0.078 | - | \$0.058 | \$0.082 | - | \$0.061 | \$0.083 | - | \$0.062 |
| Basalt | \$0.133 | - | \$0.098 | \$0.140 | - | \$0.104 | \$0.142 | - | \$0.105 |
| Gabbro | \$0.121 | - | \$0.089 | \$0.127 | - | \$0.094 | \$0.129 | - | \$0.095 |
| Shale | \$0.075 | - | \$0.055 | \$0.079 | - | \$0.058 | \$0.080 | - | \$0.059 |
| Sandstone | \$0.072 | - | \$0.054 | \$0.076 | - | \$0.056 | \$0.077 | - | \$0.057 |
| Siltstone | \$0.073 | - | \$0.054 | \$0.076 | - | \$0.056 | \$0.078 | - | \$0.057 |
| Conglome | \$0.065 | - | \$0.048 | \$0.068 | - | \$0.050 | \$0.069 | - | \$0.051 |
| Breccia | \$0.049 | - | \$0.037 | \$0.052 | - | \$0.038 | \$0.053 | - | \$0.039 |
| Limestone | \$0.058 | - | \$0.043 | \$0.061 | - | \$0.045 | \$0.062 | - | \$0.046 |
| Schist | \$0.049 | - | \$0.036 | \$0.051 | - | \$0.038 | \$0.052 | - | \$0.038 |
| Slate | \$0.069 | - | \$0.051 | \$0.073 | - | \$0.054 | \$0.074 | - | \$0.055 |
| Gneiss | \$0.075 | - | \$0.055 | \$0.079 | - | \$0.058 | \$0.080 | - | \$0.059 |
| (Based on 1: | 2 foot drillin | g rod l | ength.) | | | | | | |

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 | |
| | • | |

DRILL MODEL - Atlas Copco TBH4 - Rotary

Bit Life (feet/bit)

| | | | F | Hole Diamete | r (inch | ies) | | | | |
|-----------|-------|------|-------|--------------|---------|-------|-------|-------|-------|--|
| , | | 5.00 | | | 6.750 | | | 7.875 | | |
| Granite | 3,526 | - | 4,770 | 3,271 | - | 4,426 | 3,148 | - | 4,259 | |
| Basalt | 1,847 | - | 2,499 | 1,714 | - | 2,319 | 1,649 | - | 2,231 | |
| Gabbro | 2,083 | - | 2,818 | 1,932 | - | 2,614 | 1,859 | - | 2,516 | |
| Shale | 3,700 | - | 5,006 | 3,433 | - | 4,645 | 3,303 | - | 4,469 | |
| Sandstone | 3,857 | - | 5,219 | 3,579 | - | 4,842 | 3,444 | - | 4,659 | |
| Siltstone | 3,840 | - | 5,195 | 3,563 | - | 4,820 | 3,428 | - | 4,638 | |
| Conglomer | 4,431 | - | 5,995 | 4,111 | - | 5,562 | 3,956 | - | 5,352 | |
| Breccia | 6,116 | - | 8,275 | 5,675 | - | 7,678 | 5,461 | - | 7,388 | |
| Limestone | 5,080 | - | 6,873 | 4,714 | - | 6,377 | 4,536 | - | 6,137 | |
| Schist | 6,230 | - | 8,429 | 5,780 | - | 7,820 | 5,562 | - | 7,525 | |
| Slate | 4,057 | - | 5,488 | 3,764 | - | 5,092 | 3,622 | - | 4,900 | |
| Gneiss | 3,692 | - | 4,995 | 3,426 | - | 4,635 | 3,296 | - | 4,460 | |
| | | | | | | | | | | |

Drill Steel Life (feet/rod)

| | | | | Hole Diame | eter (ir | iches) | | | |
|-----------|--------|------|--------|------------|----------|--------|--------|-----|--------|
| | | 5.00 | | | 6.750 | | 7. | 875 | |
| Granite | 43,780 | - | 59,231 | 40,620 | - | 54,957 | 39,087 | - | 52,882 |
| Basalt | 25,634 | - | 34,681 | 23,784 | - | 32,178 | 22,886 | - | 30,964 |
| Gabbro | 28,313 | - | 38,306 | 26,270 | - | 35,542 | 25,279 | - | 34,200 |
| Shale | 45,563 | - | 61,644 | 42,275 | - | 57,195 | 40,679 | - | 55,036 |
| Sandstone | 47,161 | - | 63,806 | 43,757 | - | 59,201 | 42,106 | - | 56,966 |
| Siltstone | 46,987 | - | 63,570 | 43,596 | - | 58,983 | 41,950 | - | 56,756 |
| Conglomer | 52,898 | - | 71,568 | 49,081 | - | 66,403 | 47,228 | - | 63,897 |
| Breccia | 69,076 | - | 93,456 | 64,091 | - | 86,711 | 61,672 | - | 83,438 |
| Limestone | 59,239 | - | 80,147 | 54,964 | - | 74,363 | 52,890 | - | 71,556 |
| Schist | 70,136 | - | 94,890 | 65,075 | - | 88,042 | 62,618 | - | 84,719 |
| Slate | 49,171 | - | 66,525 | 45,622 | - | 61,724 | 43,900 | - | 59,394 |
| Gneiss | 45,482 | - | 61.535 | 42,200 | - | 57.094 | 40.607 | - | 54.939 |

Penetration Rate (feet/hour)

| | | | | Hole Diame | eter (ir | nches) | | | | |
|-----------|------|---|----|------------|----------|--------|----|-------|----|--|
| | 5.00 | | | | 6.750 | | | 7.875 | | |
| Granite | 45 | - | 60 | 24 | - | 33 | 18 | - | 24 | |
| Basalt | 26 | - | 35 | 14 | - | 19 | 10 | - | 14 | |
| Gabbro | 29 | - | 39 | 16 | - | 21 | 11 | - | 15 | |
| Shale | 46 | - | 63 | 25 | - | 34 | 18 | - | 25 | |
| Sandstone | 48 | - | 65 | 26 | - | 35 | 19 | - | 26 | |
| Siltstone | 48 | - | 65 | 26 | - | 35 | 19 | - | 26 | |
| Conglomer | 54 | - | 73 | 29 | - | 40 | 22 | - | 29 | |
| Breccia | 71 | - | 96 | 39 | - | 52 | 28 | - | 38 | |
| Limestone | 61 | - | 82 | 33 | - | 45 | 24 | - | 33 | |
| Schist | 72 | - | 97 | 39 | - | 53 | 29 | - | 39 | |
| Slate | 50 | - | 68 | 27 | - | 37 | 20 | - | 27 | |
| Gneiss | 46 | - | 63 | 25 | - | 34 | 18 | - | 25 | |

Bit Cost (\$/foot)

| | | | | Hole Diam | eter (inch | nes) | | | |
|-----------|--------|------|--------|-----------|------------|--------|--------|-----|--------|
| | | 5.00 | | | 6.750 | | 7. | 875 | |
| Granite | \$0.46 | - | \$0.34 | \$0.75 | - | \$0.56 | \$0.96 | - | \$0.71 |
| Basalt | \$0.88 | - | \$0.65 | \$1.44 | - | \$1.06 | \$1.83 | - | \$1.35 |
| Gabbro | \$0.78 | - | \$0.58 | \$1.27 | - | \$0.94 | \$1.63 | - | \$1.20 |
| Shale | \$0.44 | - | \$0.33 | \$0.72 | - | \$0.53 | \$0.92 | - | \$0.68 |
| Sandstone | \$0.42 | - | \$0.31 | \$0.69 | - | \$0.51 | \$0.88 | - | \$0.65 |
| Siltstone | \$0.42 | - | \$0.31 | \$0.69 | - | \$0.51 | \$0.88 | - | \$0.65 |
| Conglome | \$0.37 | - | \$0.27 | \$0.60 | - | \$0.44 | \$0.76 | - | \$0.56 |
| Breccia | \$0.27 | - | \$0.20 | \$0.43 | - | \$0.32 | \$0.55 | - | \$0.41 |
| Limestone | \$0.32 | - | \$0.24 | \$0.52 | - | \$0.39 | \$0.67 | - | \$0.49 |
| Schist | \$0.26 | - | \$0.19 | \$0.43 | - | \$0.31 | \$0.54 | - | \$0.40 |
| Slate | \$0.40 | - | \$0.30 | \$0.65 | - | \$0.48 | \$0.83 | - | \$0.62 |
| Gneiss | \$0.44 | - | \$0.33 | \$0.72 | - | \$0.53 | \$0.92 | - | \$0.68 |

Drill Steel Cost (\$/foot per rod)

| | | | | Hole Diam | eter (iı | nches) | | | |
|-------------|----------------|----------|---------|-----------|----------|---------|---------|---|---------|
| | 5.00 | | | 6.750 | | | 7. | | |
| Granite | \$0.036 | - | \$0.027 | \$0.046 | - | \$0.034 | \$0.071 | - | \$0.052 |
| Basalt | \$0.062 | - | \$0.046 | \$0.079 | - | \$0.058 | \$0.121 | - | \$0.089 |
| Gabbro | \$0.056 | - | \$0.041 | \$0.071 | - | \$0.053 | \$0.109 | - | \$0.081 |
| Shale | \$0.035 | - | \$0.026 | \$0.044 | - | \$0.033 | \$0.068 | - | \$0.050 |
| Sandstone | \$0.034 | - | \$0.025 | \$0.043 | - | \$0.032 | \$0.066 | - | \$0.048 |
| Siltstone | \$0.034 | - | \$0.025 | \$0.043 | - | \$0.032 | \$0.066 | - | \$0.049 |
| Conglome | \$0.030 | - | \$0.022 | \$0.038 | - | \$0.028 | \$0.058 | - | \$0.043 |
| Breccia | \$0.023 | - | \$0.017 | \$0.029 | - | \$0.022 | \$0.045 | - | \$0.033 |
| Limestone | \$0.027 | - | \$0.020 | \$0.034 | - | \$0.025 | \$0.052 | - | \$0.039 |
| Schist | \$0.023 | - | \$0.017 | \$0.029 | - | \$0.021 | \$0.044 | - | \$0.033 |
| Slate | \$0.032 | - | \$0.024 | \$0.041 | - | \$0.030 | \$0.063 | - | \$0.046 |
| Gneiss | \$0.035 | - | \$0.026 | \$0.044 | - | \$0.033 | \$0.068 | - | \$0.050 |
| (Based on 1 | 2 foot drillin | g rod le | ength.) | | | | | | |

Drill Steel Cost Adjustment Factor

| Dilli Steel Cost Au | ustillelit 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 | |
| | , , | |
| | | |

| BIT AND DRILL STEEL PRICE DATABASE | | | | | | | | |
|------------------------------------|-----------|------------------|---------------------------|----------|--|--|--|--|
| Effective date - 8/2006 | | | | | | | | |
| Drill Bits | | <u>Drill Rod</u> | | | | | | |
| Bit Type Bit Size | Bit Price | | Rod Type Rod Size Rod Pr | | | | | |
| Button - drop center | <u>r</u> | | Percussion rod - 12 ft | | | | | |
| 1-3/4" | \$62 | | R32 | \$280 | | | | |
| 2" | \$69 | | T38 | \$324 | | | | |
| 2-1.2" | \$98 | | T45 | \$407 | | | | |
| 3" | \$131 | | T51 | \$568 | | | | |
| 3-1.2" | \$159 | | | | | | | |
| 4" | \$223 | | DTH rod - 9'10" | | | | | |
| 4-1.2" | \$268 | | 3.0 76mm | \$384 | | | | |
| 5" | \$321 | | 3.5 89mm | \$431 | | | | |
| | | | 4.0 102mm | \$491 | | | | |
| DTH - concave face | <u> </u> | | 4.5 114mm | \$592 | | | | |
| 3-1/2" | \$410 | | 5.5 140mm | \$815 | | | | |
| 5" | \$550 | | | | | | | |
| 5-1/2" | \$575 | | Rotary rod - 25' to 30' | | | | | |
| 6" | \$630 | | 4" x 25' | \$3,300 | | | | |
| 6-1/2" | \$640 | | 5" x 25' | \$3,900 | | | | |
| 8" | \$1,230 | | 7" x 30' | \$6,900 | | | | |
| 8-7/8" | \$1,385 | | 8-5/8" x 30' | \$6,800 | | | | |
| 10" | \$1,900 | | 10-3/4" x 27.5 | \$7,500 | | | | |
| 11-/7/8 | \$4,500 | | | | | | | |
| TRICONE - carbide | insert | | | | | | | |
| 3-7/8" | \$1,150 | | | | | | | |
| 5" | \$1,629 | | | | | | | |
| 5-1/2" | \$1,972 | | All unit prices are manu | facturer | | | | |
| 6" | \$2,131 | | list prices. Discounts or | | | | | |
| 6-1/4" | \$2,207 | | premiums may apply de | | | | | |
| 6-3/4" | \$2,463 | | upon market conditions. | | | | | |
| 7-7/8" | \$3,023 | | apo mamor conditions. | | | | | |
| 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.

Drilling Solutions

Blasthole Drills

Rotary Large

Mid-range

Hydraulic Crawle Pneumatic Crawl DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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Infrastructure - **Drilling Solutions**

Rotary - DM45/LP

Select Model:

| T4BH |
|---------|
| DM25/SP |
| DM30 |
| DM45/LP |
| DM50/LP |
| DM-L/LP |
| DM45/SP |
| DM-LSP |
| 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 ftlb. (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.

[FEATURES] [LITERATURE]

| Nominal Hole Diameter | | |
|-----------------------|---|--|
| Diameter | 6-8 in. | |
| Po | wer 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 | | |
| Туре | 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 | |

Type Bit Load

Pipe Length Fabrication

Model

pullback 45,000 lb / 20,411 kg Tower

Hydraulic cyls. w/cable pulldown & chain

30 ft. / 9.1 m. 4-member open front w/rectangular hollow steel tubing/double cut lacing

Undercarriage

Feed System

Caterpillar 325L or equivalent

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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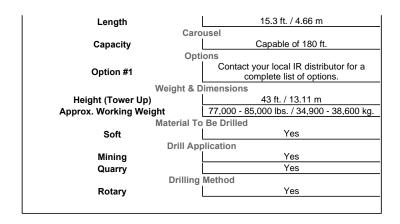
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Infrastructure - **Drilling Solutions**

Rotary - DM30

Select Model:





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.

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle **Pneumatic Crawl**

DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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[FEATURES] [LITERATURE] [SPECS]

Nominal Hole Diameter

Diameter Power Pack

Engine #1

Compressor #1

Engine #2

Compressor #2

Engine #3

Compressor #3

Engine #4

Compressor #4

Floating Sub Base

Type **Head Torque** Speed

> Type Bit Load

Pipe Length Construction 5-6 in.

Cummins QSX15 (525 HP @ 1800 RPM) IR HR2 900/350 CFM @ PSI /

25.5/2,413 m3/min@kPA CAT C15 (525 HP @ 1800 RPM) IR HR2 900/350 CFM @ PSI / 25.5/2,413

m3/min@kPA Cummins QSX15 (425 HP @ 1800 RPM) IR WW226 900/110 CFM @ PSI /

25.5/758 m3/min@kPA CAT C15 (425 HP @ 1800 RPM) IR WW226 900/110 CFM @ PSI / 25.5/758

m3/min@kPA Isolates components from drilling and propel shock loads/maintains alignment

Rotation

Rotary Tophead 5,400 ft-lb. / 7,322 N-m 0-100 rpm

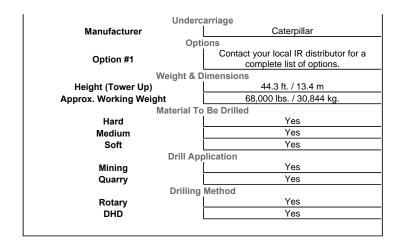
Feed System

Single cylinder, cable feed 30,000 lb / (13,608) kg

Tower

30 ft. / 9.1 m.

4 member open front with hollow steel tubing.







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Infrastructure - **Drilling Solutions**

Rotary - DM25/SP

Select Model:

| T4BH |
|---------|
| DM25/SP |
| DM30 |
| DM45/LP |
| DM50/LP |
| DM-L/LP |
| DM45/SP |
| DM-LSP |
| DM-M2 |
| DM-M3 |
| DM-H2 |
| 351 |



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 Por Engine #1

Compressor #1 Engine #2

Compressor #2

Engine #3

Compressor #3

Engine #4

Compressor #4

Type Speed Torque

Type Pulldown

Construction

#1 Single pass depth #2 Single pass depth

Nominal Hole Diameter

________ 5-6 in.

Power Pack

Cummins QSX15 (525 HP @ 1800 RPM)

900/350 CFM @ PSI / 25.5/2,413

m3/min@kPA

CAT C15 (525 HP @ 1800 RPM)

900/350 CFM @ PSI / 25.5/2,413

m3/min@kPA

Cummins QSX15 (425 HP @ 1800 RPM)

900/110 CFM @ PSI / 25.5/758 m3/min@kPA CAT C15 (425 HP @ 1800 RPM) 900/110 CFM @ PSI / 25.5/758 m3/min@kPA

Rotation

Rotary Table Drive
0-170 rpm
3,500 / (4,746 N-m)
Feed System

Heavy-duty chains through cluster sprocket

Tower

4 main member, open front, rectangular steel tubing

40 ft. / 12.2 m.

50 ft. / 15.2 m.

Undercarriage

► Welcome to IR

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

Drill Selector

Waterwell Drills
Exploration Drills
Gas & Oil / Coal Bec

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Down Hole Drills
Threaded Access

Hollow Anchor Syst

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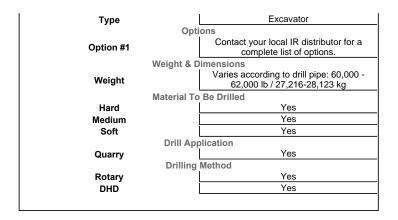
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Infrastructure - **Drilling Solutions**

Rotary - DM-M2

Select Model:

| T4BH |
|---------|
| DM25/SP |
| DM30 |
| DM45/LP |
| DM50/LP |
| DM-L/LP |
| DM45/SP |
| DM-LSP |
| DM-M2 |
| DM-M3 |
| DM-H2 |
| 351 |



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). coppris 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.

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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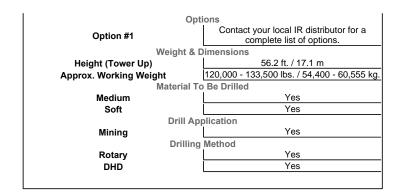
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| [SPECS] [FEATURES] | [LITERATURE] |
|-----------------------|--|
| | |
| Nominal Hole Diameter | |
| Diameter | 9-11 in. |
| Pov | ver Pack |
| Engine #1 | Caterpillar 3412E / EPA certified |
| Compressor #1 | 1900 @ 100 CFM @ PSI / 53.8 @ |
| • | 690 m3/min@kPA |
| Engine #2 | Cummins QSK19 / EPA certified |
| Compressor #2 | 1900 @ 100 CFM @ PSI / 53.8 @ 690 m3/min@kPA |
| Engine #3 | Caterpillar 3412E / EPA certified |
| Engine #3 | 1250 @ 350 CFM @ PSI / 35.4 @ |
| Compressor #3 | 2413 m3/min@kPA |
| Ro | otation |
| Type | Two-motor, variable displacement |
| Speed Range | 0-150 rpm, variable |
| Head Torque | 0-8,640 ft-lbs (0-11,714 Nm) (forward) |
| Feed | d System |
| Туре | 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 | 4 member open front with hollow steel tubing. |
| Unde | ercarriage |
| Model | Caterpillar 330EL or equivalent |
| Ca | nrousel |
| Size | Holds 2 to 4 drill pipe depending on pipe diameter |
| | |







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Infrastructure - **Drilling Solutions**

Rotary - T4BH

Select Model:

| T4BH |
|---------|
| DM25/SP |
| DM30 |
| DM45/LP |
| DM50/LP |
| DM-L/LP |
| DM45/SP |
| DM-LSP |
| DM-M2 |
| DM-M3 |
| DM-H2 |
| 351 |



The T4BH is a truck-mounted, hydraulic tophead drive multipass rotary drill specificaly designed for production blasthole 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.

[FEATURES] [LITERATURE]

Nominal Hole Diameter Diameter

Chassis (Standard) **Engine**

Engine #1

Compressor #1

Engine #2

Compressor #2

Engine #3

Compressor #3

Floating Sub Base

Type Speed Range **Head Torque**

Option

Type Pulldown Crane Carrier, Custom, 3 axle, 6X4 CAT C10 (305 HP)

6-9 in.

Power Pack

Carrier

Cummins QSX19 (525 HP @ 1800 RPM) IR HR2-900/350 CFM @ PSI / 25.5/2413 m3/min@kPA

Cummins QSX19 (600 HP @ 1800 RPM) 1050 @ 350 CFM @ PSI / 129.7 @ 2413 m3/min@kPA

Cummins QSK-19C (700 HP @ 2100 RPM) IR HR2.5 - 1250/350 CFM @ PSI / (35.39 @ 2413) m3/min@kPA

Isolates components from drilling and propel shock loads/maintains alignment

Rotation

Rotary Tophead 0-160 RPM (std.) 6,500 ft-lb. / (8,814 N-m) 7,165 ft-lb @ 0-130 RPM / 9,716 N-m @ 0-130 RPM

Feed System

Hydraulic cylinders w/cable and chain 0-37,700 lbs. / 17,108 kg.

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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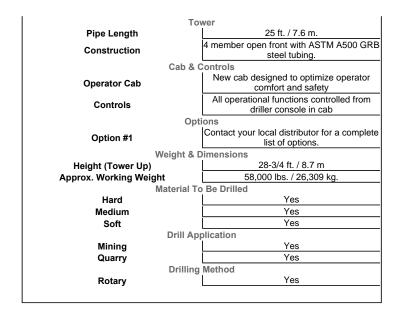
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Infrastructure - **Drilling Solutions**

DHD - DM-M2

Select Model:

| CM695D |
|---------|
| DM25/SP |
| DM30 |
| DM45/HP |
| DM45/SP |
| DM-L/HP |
| DM-M2 |



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).

coppris 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.

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

Drill Selector

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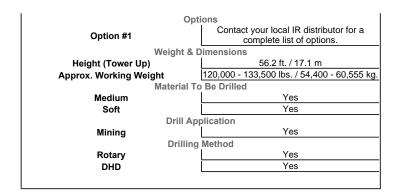
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| [SPECS] [FEATURES] | [LITERATURE] |
|-----------------------|--|
| | |
| Nominal Hole Diameter | |
| Diameter | 9-11 in. |
| Pov | ver Pack |
| Engine #1 | Caterpillar 3412E / EPA certified |
| Compressor #1 | 1900 @ 100 CFM @ PSI / 53.8 @ |
| • | 690 m3/min@kPA |
| Engine #2 | Cummins QSK19 / EPA certified |
| Compressor #2 | 1900 @ 100 CFM @ PSI / 53.8 @ 690 m3/min@kPA |
| Engine #3 | Caterpillar 3412E / EPA certified |
| Engine #3 | 1250 @ 350 CFM @ PSI / 35.4 @ |
| Compressor #3 | 2413 m3/min@kPA |
| Ro | otation |
| Type | Two-motor, variable displacement |
| Speed Range | 0-150 rpm, variable |
| Head Torque | 0-8,640 ft-lbs (0-11,714 Nm) (forward) |
| Feed | d System |
| Туре | 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 | 4 member open front with hollow steel tubing. |
| Unde | ercarriage |
| Model | Caterpillar 330EL or equivalent |
| Ca | nrousel |
| Size | Holds 2 to 4 drill pipe depending on pipe diameter |
| | |







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Infrastructure - **Drilling Solutions**

DHD - DM30

Select Model:

| CM695D | |
|---------|--|
| DM25/SP | |
| DM30 | |
| DM45/HP | |
| DM45/SP | |
| DM-L/HP | |
| DM-M2 | |



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 compressor option.

when equipped with a high-pressure air

5-6 in.

Drilling Solutions

Blasthole Drills

Rotary

Large

Mid-range Hydraulic Crawle **Pneumatic Crawl**

DHD

Drill Selector

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Nominal Hole Diameter

Diameter Power Pack

Cummins QSX15 (525 HP @ 1800 RPM) Engine #1

IR HR2 900/350 CFM @ PSI / Compressor #1 25.5/2,413 m3/min@kPA

Engine #2 CAT C15 (525 HP @ 1800 RPM) IR HR2 900/350 CFM @ PSI / 25.5/2,413

Compressor #2 m3/min@kPA

Cummins QSX15 (425 HP @ 1800 RPM) Engine #3 IR WW226 900/110 CFM @ PSI / Compressor #3 25.5/758 m3/min@kPA

CAT C15 (425 HP @ 1800 RPM) Engine #4 IR WW226 900/110 CFM @ PSI / 25.5/758

Compressor #4 m3/min@kPA

Isolates components from drilling and Floating Sub Base propel shock loads/maintains alignment

Rotation

Type Rotary Tophead **Head Torque** 5,400 ft-lb. / 7,322 N-m 0-100 rpm Speed

Feed System

Type

Bit Load

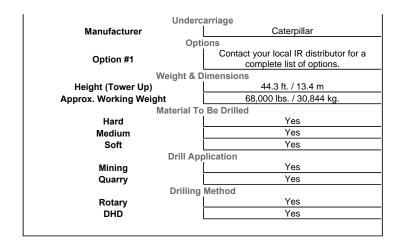
Single cylinder, cable feed 30,000 lb / (13,608) kg

30 ft. / 9.1 m.

Tower Pipe Length

4 member open front with hollow steel Construction tubing.

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L-35



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Infrastructure - Drilling Solutions

DHD - DM25/SP

Select Model:

| CM695D |
|---------|
| DM25/SP |
| DM30 |
| DM45/HP |
| DM45/SP |
| 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.

[FEATURES] [LITERATURE] [SPECS]

> **Nominal Hole Diameter** Diameter Power Pack

Engine #1 Compressor #1

Engine #2

Compressor #2 Engine #3

Compressor #3

Engine #4 Compressor #4

Type Speed Torque

Type Pulldown

Construction #1 Single pass depth #2 Single pass depth

5-6 in. Cummins QSX15 (525 HP @ 1800 RPM) 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA CAT C15 (525 HP @ 1800 RPM) 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA Cummins QSX15 (425 HP @ 1800 RPM) 900/110 CFM @ PSI / 25.5/758 m3/min@kPA CAT C15 (425 HP @ 1800 RPM) 900/110 CFM @ PSI / 25.5/758 m3/min@kPA Rotation Rotary Table Drive

0-170 rpm 3,500 / (4,746 N-m) Feed System

Tower

4 main member, open front, rectangular steel tubing 40 ft. / 12.2 m. 50 ft. / 15.2 m.

Heavy-duty chains through cluster sprocket

25,000 lbs. / 11,340 kg.

Undercarriage

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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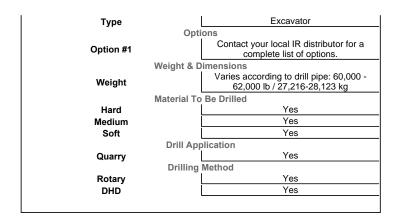
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Infrastructure - **Drilling Solutions**

DHD - DM45/SP

Select Model:

| CM695D |
|---------|
| DM25/SP |
| DM30 |
| DM45/HP |
| DM45/SP |
| DM-L/HP |
| DM-M2 |



The DM45/SP is a crawler-mounted hydraulic rotary table drive, drill rig designed to produce 50 ft. (15.2 m) of clean hole in a single pass. Hole diameter capability is 5-1/2 to 6-3/4 in. (139.7 to 171.5 mm) to a depth of up to 50 ft. (15.2 m) with a downhole hammer (highpressure air package). Feed pressure generates a bit load force of up to 25,000 lb. (11,340 kg). An optional angle drilling system is available.

> Engine #2 Compressor #2

Engine #1

Compressor #1

Engine #3 Compressor #3

Engine #4

Compressor #4

Type Speed Torque

Type Pulldown

Type Pipe Length 5-7 in.

Power Pack

Cummins QSX15 (525 HP @ 1800 RPM)

900/350 CFM @ PSI / 25.5/2413
m3/min@kPA

CAT C15 (525 HP @ 1800 RPM)

900/350 CFM @ PSI / 25.5/2413
m3/min@kPA

Cummins QSX15 (600 HP @ 1800 RPM)

1070/350 CFM @ PSI / 30.30/2,413
m3/min@kPA

CAT C16 (600 HP @ 1800 RPM)

1070/350 CFM @ PSI / 30.30/2413
m3/min@kPA

CAT C16 (600 HP @ 1800 RPM)

1070/350 CFM @ PSI / 30.30/2413
m3/min@kPA

Rotation

25,000 lbs. / 11,340 kg.

Tower

Single Pass
50 ft. / 15.2 m.
4 member open front with rectangular steel

➤ Welcome to IR Drilling Solution

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl DHD

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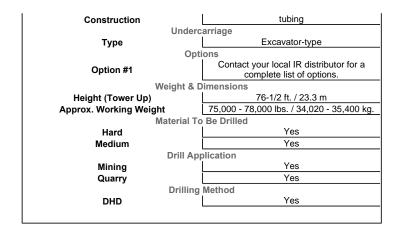
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Infrastructure - **Drilling Solutions**

[FEATURES]

Pneumatic Crawler - ECM350

Select Model:

LM100A CM348 ECM350



Rotation

Air Consumption

Gear Ratio

Horse Power

Feed/Pullback Force

[SPECS]

This agile, powerfull 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 perfomance 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

0 - 72

120 CFM @ 50 RPM & 90 PSI / 3.4 m3/min

@ 50 RPM & 6.3 kg/cm2

33:1 2.23 kw @ 6.3 kg/cm? (3.0 hp @ 90 psig) /

3.13 kw @ 8.4 kg/cm? (4.2 hp @ 120 psig)

3,000 lb / 1,361 kg

[LITERATURE]

2-1/2 - 5-1/2 in. Diameter Drifter Drifter #1 VL140 Hole Diameter #1 2.5-4 " / 64-102 mm 0 - 72 rpm Rotation Speed #1 Frequency #1 2100 BPM 750 SCFM @ 100 PSI / 21.2 m3/min @ 7 Air Consumption #1 kg/cm2 Stroke #1 5-1/2 in. / 140 mm. Bore #1 5-1/2 in. / 140 mm. Weight #1 421 lb. / 191 kg. Guide 180° Guide Dump #1 Guide Swing (L/R) 50 deg / 35 deg Boom Boom Swing (L/R) #1 40 ° / 35 ° Boom Lift (Up/Down) #1 45°/15° Air Rotary Head Weight 554 lb. / 252 kg. 1492 Nm @ 8.4 kg/cm? / (1100 lb-ft @ 120 Torque Max. PSI)

Nominal Hole Diameter

Welcome to IR Drilling Solution

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

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General

| 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) |
| Crawlair 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 & D | imensions |
| 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 | |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| Drill App | |
| Mining | Yes |
| Construction | Yes |
| Quarry | Yes |
| Drilling | |
| Drifter | Yes |
| | |





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Infrastructure - **Drilling Solutions**

Hydraulic Crawler - ECM-720

Select Model:

| ECM470 |
|----------|
| ECM580 |
| ECM590 |
| ECM660II |
| ECM-720 |



Rod Changer Capacity

Weight

They said it couldn't be done...they 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

[FEATURES] [LITERATURE] **Nominal Hole Diameter** Diameter 4-1/2 - 5-1/2 in. Drifter Montabert HC-200A Type Boom & Guide **Boom Swing** 45 deg right / 20 deg left maximum 50 deg up / 20 deg down maximum **Vertical Boom Movement** 20 deg right / 90 deg left maximum **Guide Swing** 135 deg maximum **Guide Dump** 36 in. / 914 mm **Boom Extension** 5 ft / 1,524 mm **Guide Extension Overall Guide Length** 27 ft 6 in / 8.4 m **Drifter Travel** 16 ft. 11 in. / 5.15 m Engine CAT 3176 C-10 Type Rated Power 365 HP / 272 kW 1,800 rpm **Operating Speed** Compressor Type Ingersoll-Rand Rotary Screw 480 CFM / 13.6 m3/min Volume Pressure 150 PSI / 10.3 BAR Cab & Controls **Operator Cab** ROPS/FOPS 80 dBA Noise level General 35 deg (70 percent) ° Gradeability **Tramming Speed** 2.0 mph / 3.3 km/hr 17 in. / 432 mm. Ground clearance 13-3/4 in. / 349 mm mm. **Grouser Width**

Drilling Solutions

Blasthole Drills

Rotary

Large Mid-range

Hydraulic Crawle Pneumatic Crawl

DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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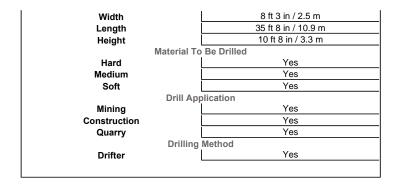
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Shipping Information

(6) 12 ft (3.66 m) / (6) 14 ft (4.27 m) opt.

45,900 lb / 20,820 kg







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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, cabless 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

[SPECS] [FEATURES] [LITERATURE]

Nominal Hole Diameter

Diameter

Drifter #1 Hole Diameter #1 Rotation Speed #1 Frequency #1

Weight #1
Steel Size #1
Drifter #2
Hole Diameter #2
Rotation Speed #2
Frequency #2

Weight #2 Steel Size #2

Hydraulic Pressure

Horizontal Boom Swing

Vertical Boom Movement
Guide Swing
Guide Dump
Boom Extension - YH70 (YH80A)
Drifter Travel - YH70 (YH80A)
Guide Extension
Overall Guide Length

Type Rated Power Operating Speed

2-1/2 - 4-1/2 in. Drifter YH70 2.5-4 " / 64-102 mm 0-200 rpm 2800 BPM 419 lb. / 190 kg. T45/T38 YH80A 2.5-4.5 in. / 64-114 mm. 0-200 rpm 2600 BPM 462 lb. / 210 kg T51/T45 2130 psi / 150 kg/cm? Boom & Guide

30 deg R / 34.6 deg L
51 deg up / 15 deg down
48 deg R / 40 deg L
180 deg
48 in (30 in) / 1,219 mm (762 mm)
15 ft 4 in (14 ft) / 3,099 mm (4,267 mm)
4 ft / 1,219 mm
23 ft 8 in / 7,214 mm

Engine Cummins 6CT8.3
215 HP / 159 kW
2350 rpm

► Welcome to IR Drilling Solution

Drilling Solutions

Blasthole Drills

Rotary

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| IR Rotary Screw Compressor | | | | |
|----------------------------|------------------------------|--|--|--|
| Compressor pressure(max) | 140 psig / 9.8 kg/cm2 | | | |
| Compressor volume | 250 cfm / 7 m?/min | | | |
| Ger | General | | | |
| Gradeability | 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 | | | |
| Drill Ap | plication | | | |
| Construction | Yes | | | |
| Drilling | Method | | | |
| Drifter | Yes | | | |
| | | | | |





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Infrastructure - **Drilling Solutions**

Pneumatic Crawler - LM100A

Select Model:

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!

[FEATURES] [LITERATURE] [SPECS]

Nominal Hole Diameter Diameter

Overall Track Length Ground Clearance Oscillation Air Motors Gradeability **Tramming Speed**

Hole Diameter #1 Frequency #1

Air Consumption #1

Stroke #1 Bore #1 Steel Size #1 Drifter #2 Hole Diameter #2 Frequency #2

Air Consumption #2

Stroke #2 Bore #2 Steel Size #2

Guide Dump #1 Guide Swing (L/R)

1-3/4 - 2-1/2 in. Carrier 72 " / <u>1845 mm</u> 9 " / 230 mm 20° 4.5 HP 30°

0-2 mph / 0-3.2 km/hr Dr

| | 0 2 111:511 7 0 012 1111:7111 | | |
|------|---|--|--|
| Drif | ter | | |
| | Ingersoll-Rand YD90 | | |
| | 1.75-2.5 " / 44-64 mm | | |
| ĺ | 1600 BPM | | |
| ĺ | 375 scfm @ 100 psi & 50 rpm / 10.6 m3/min | | |
| | @ 7 kg/cm2 & 50 rpm | | |
| | 3.4 in. / 85 mm. | | |
| | 3.5 in. / 90 mm. | | |
| | 10 ft / 3048 mm | | |
| ĺ | VL120 | | |
| ĺ | 2 - 3.5 in. / 51 - 89 mm. | | |
| ĺ | 1900 BPM | | |
| ĺ | 600 SCFM @ 50 RPM & 100 psi / 17.0 | | |
| | m3/min @ 50 RPM & 7 kg/cm2 | | |
| | 3.62 in. / 92 mm. | | |
| | 4.75 in. / 120 mm. | | |
| | 10 ft / 3048 mm | | |
| Gui | Guide | | |
| | 75 ° | | |
| ĺ | 45 deg/45 deg | | |
| | | | |

Drilling Solutions

Blasthole Drills

Rotary Large Mid-range

Hydraulic Crawle Pneumatic Crawl DHD

Drill Selector

Waterwell Drills **Exploration Drills** Gas & Oil / Coal Bed

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| Guide Extension #1 | 29 " / 750 mm |
|---------------------------------|------------------------------------|
| Drill Rod Length | 10 ft. / 3 m |
| Feed Motor Pull | 3000 lbs. / 1360 kg. |
| Boo | om |
| 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 Rot | ary Head |
| Weight | 304 lbs. / 138 kg. |
| Torque Maximum | 700 lbft. / 96.7 kgm |
| Rotation Range | 0 - 50 RPM |
| Air Consumption | 120 SCFM @ 50 RPM & 100 psi / 3.39 |
| ' | m3/min @ 50 RPM & 7 kg/cm2 |
| Gear Ratio | 20:1 |
| Horse Power @ 100 psi (7 kg/cm) | 4.5 HP / 3.35 kW |
| Weight & D | |
| 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 | |
| Hard | Yes |
| Medium | Yes |
| Soft | Yes |
| Drill App | |
| Mining | Yes |
| Construction | Yes |
| Quarry | Yes |
| Drilling | Method Yes |
| Drifter | res |
| | |



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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

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 Chapter 1 economic life (probably should take this out)

N number of years

PDF portable document format

PTO power take off RCF repair cost factor RF repair factor

ROPS rollover protective structures

RPR repairs

EP 1110-1-8, Vol. 1

30 Apr 14 SLV salvage value subcategory SUB TCI tire cost index

total equipment value TEV

TT trailing tire

United States Army Corps of Engineers USACE

working hours per year WHPY

wk week

WLS water, lube, and supplies

year yr

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