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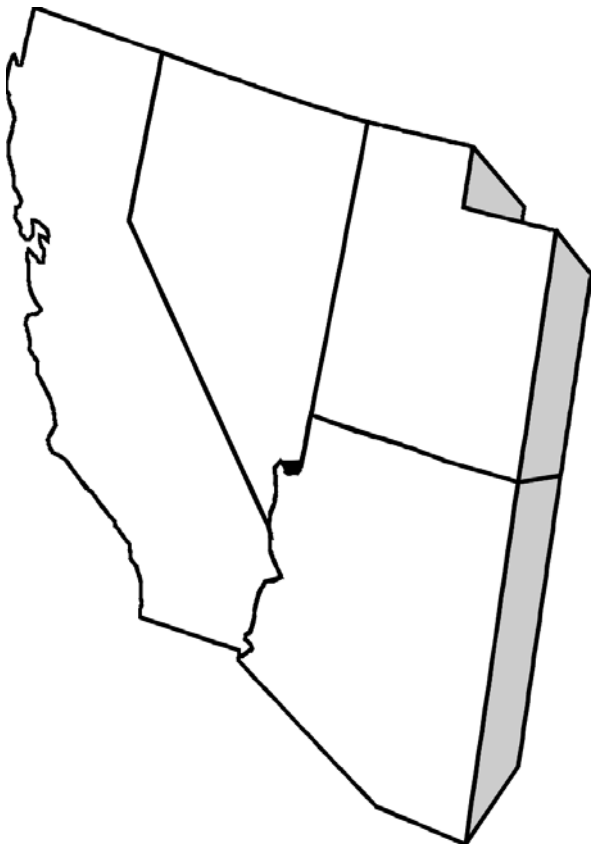
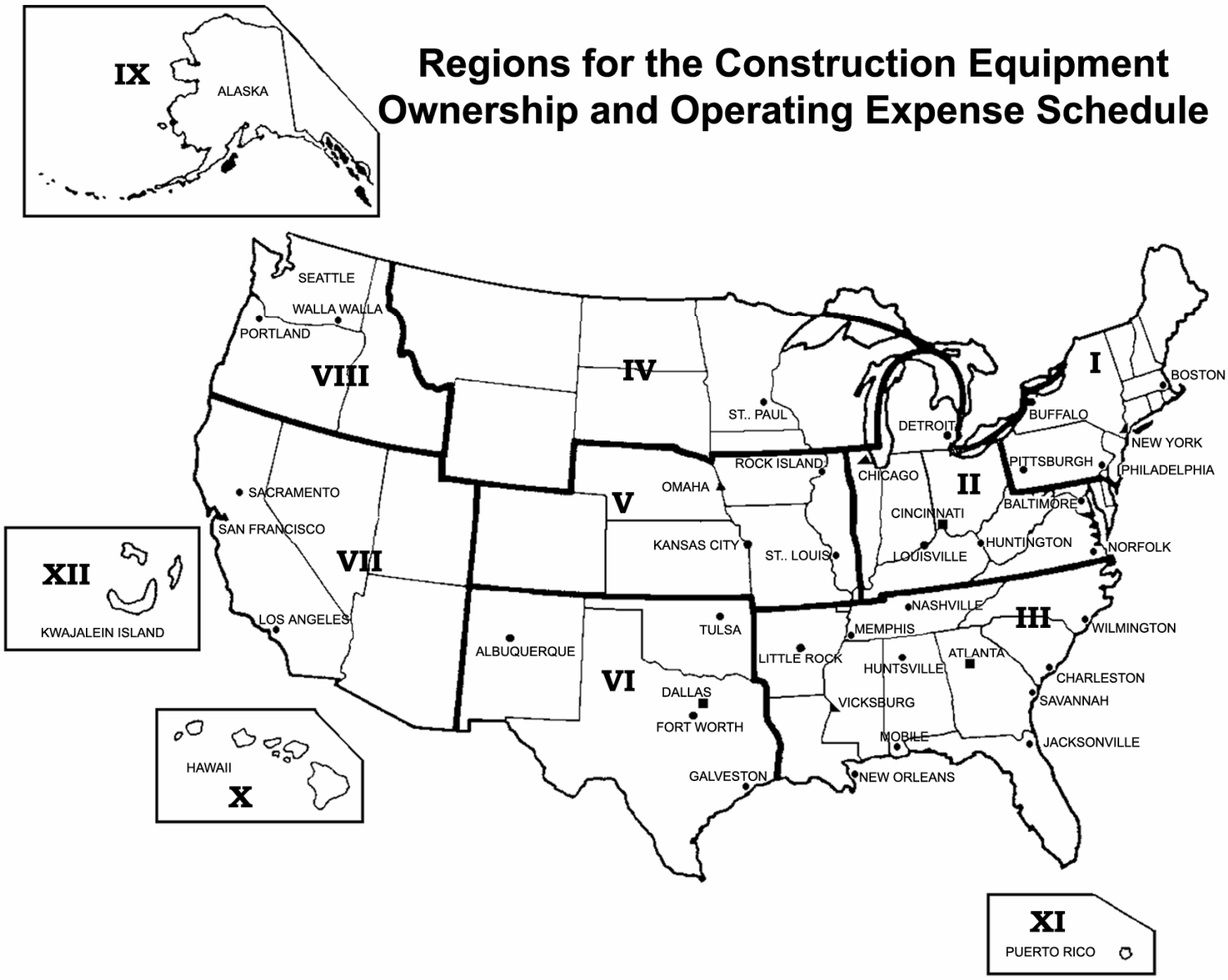
# Construction Equipment Ownership and Operating Expense Schedule

# Region VII



# Regions for the Construction Equipment Ownership and Operating Expense Schedule



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# CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

1. Purpose. This pamphlet is authorized by and established in accordance with Federal Acquisition Regulation (FAR) 31.105 and Engineer Federal Acquisition Regulation (EFAR) SUBPART 31.105. This pamphlet establishes predetermined equipment ownership and operating expense rates for construction equipment. This pamphlet also establishes a method to calculate equipment ownership and operating expense rates for construction equipment when the predetermined rates are not considered appropriate. The overall intent of this pamphlet is to determine equipment costs that are fair and reasonable. Expense factors for calculating dredge plant and marine equipment costs are provided in chapter 4.

2. Applicability. This pamphlet applies to all USACE commands. It is applicable to all solicitations and contracts for construction expected to exceed the Simplified Acquisition Threshold of $100,000 when actual cost data for both ownership and operating costs cannot be determined. This volume is for use in Region VII, which includes the following states:

Arizona
California
Nevada
Utah

3. References. See **APPENDIX A.**

4. Distribution Statement. Approved for public release, distribution is unlimited.

FOR THE COMMANDER:

12 Appendixes
(See Table of Contents)

STEPHEN L. HILL
Colonel, Corps of Engineers
Chief of Staff

This pamphlet supersedes EP 1110-1-8, dated 31 July 2007.

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# CHAPTER 1.0 - INTRODUCTION

## 1.1 Use

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

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

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

(1) Cost or pricing data is not required, as defined in Federal Acquisition Regulation (FAR) Part 15.400, *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 Decision Flow Process

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

## 1.3 How to Obtain Assistance

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

## 1.4 How to Obtain CHECKRATE Spreadsheet

A Microsoft Excel® spreadsheet, 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 spreadsheet may be obtained by choosing the CHECKRATE link on the following Web site: http://www.nww.usace.army.mil/html/offices/ed/c/default.asp.

## 1.5 How to Obtain this Publication

Volumes 1-12 of this pamphlet are available in portable document format (PDF) and can be viewed or downloaded at http://140.194.76.129/publications/eng-pamphlets. Copies of the pamphlet are also available on CD-ROM (Volumes 1-12) through the Superintendent of Documents or government bookstores (see appendix A). For additional information, telephone 202-512-1800, fax 202-512-2104, toll-free 866-512-1800, or access on the Internet at http://bookstore.gpo.gov/.

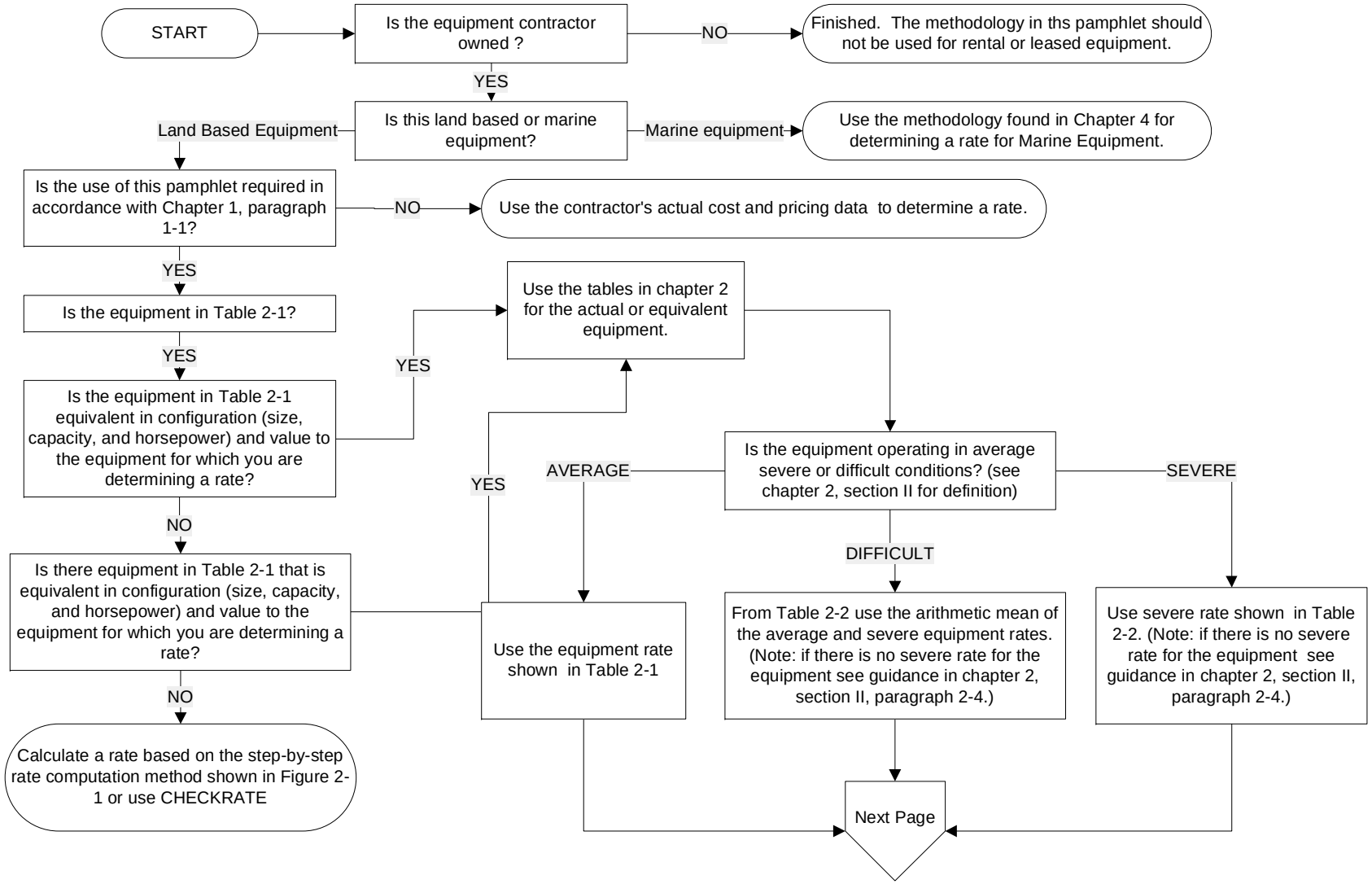


**Figure 1-1. Methodology for Developing an Hourly Ownership and Operating Rate for Construction Equipment**

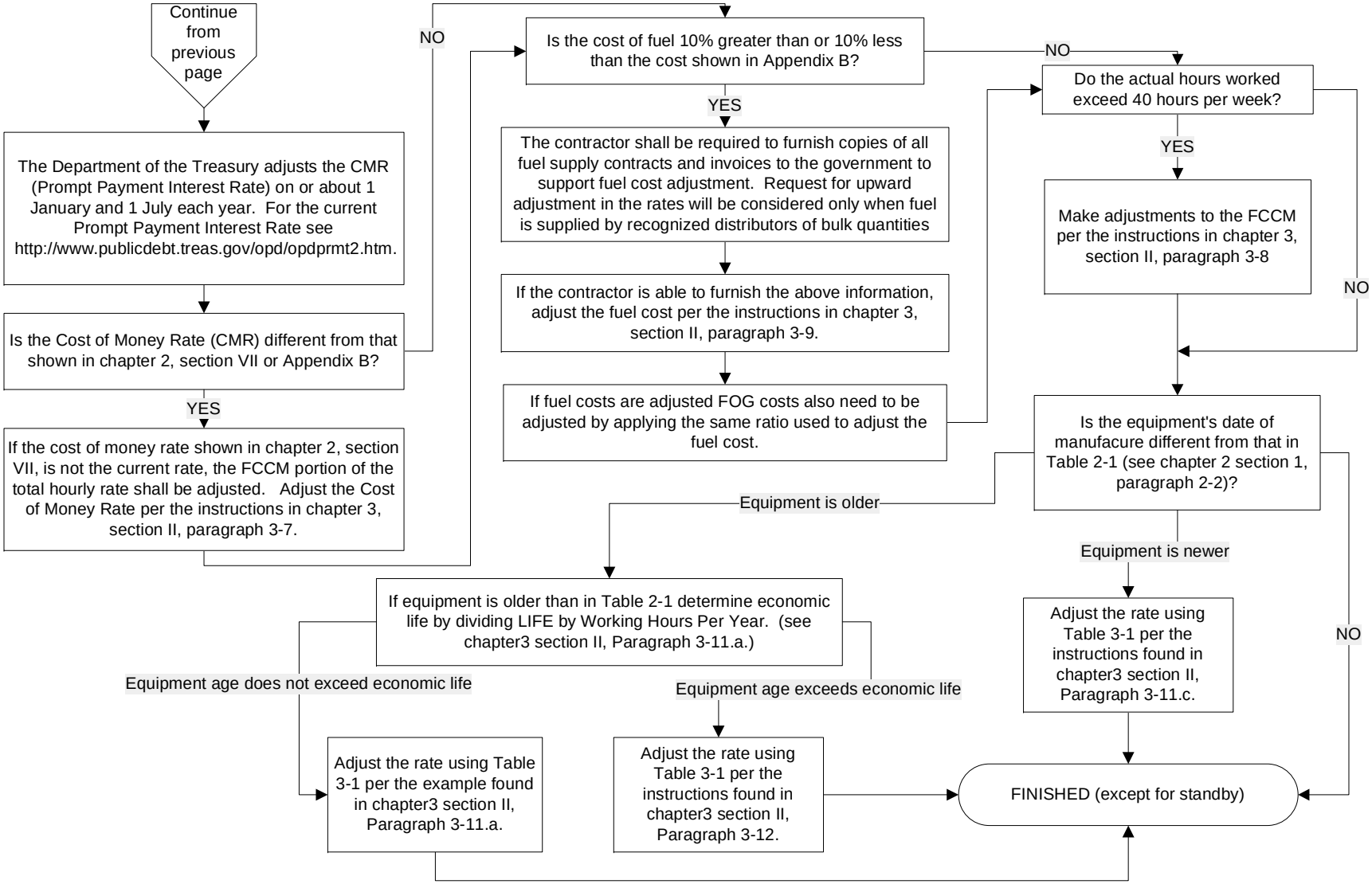


**Figure 1-1. Methodology for Developing an Hourly Ownership and Operating Rate for Construction Equipment**

# CHAPTER 2.0 - METHODOLOGY FOR CONSTRUCTION EQUIPMENT

## SECTION I. GENERAL

### 2.1 Contents

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

### 2.2 Basis for Equipment Rates

The hourly rates shown in table 2-1 reflect catalog list prices of equipment manufactured in 2006 (3 years old). List prices for equipment manufactured in years other than 2006 have been adjusted to a 2006 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 Total Hourly Rate

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

a. Ownership Cost Elements. The ownership portion of the rate consists of an allowance for depreciation (DEPR) and facilities capital cost of money (FCCM).

b. Operating Cost Elements. Operating costs include allowances for the following:

- Fuel
- Filters, oil, and grease (FOG) (includes servicing)
- Repairs (includes maintenance and major overhauls)

- Tire wear (replacement)
- Tire repair

c. Exclusions to Hourly Rates. Total hourly rates for owning and operating equipment do not include allowances for the following:

- Operating labor
- Mobilization and demobilization
- Field office overhead expenses
- Home office or general and administrative (G&A) overhead expenses
- Investment tax credit
- Contingency allowance
- Profit
- Parts and labor escalation

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).

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

(1) License fees, property taxes, storage, and insurance costs are considered indirect costs and are not included in the total hourly rates.

(2) Jobsite security, inspection fees, recordkeeping, mechanic training, and highway permits are also not included in the total hourly rates.

## SECTION II. OPERATING CONDITIONS

### 2.4 Average, Difficult, or Severe Conditions

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

### 2.5 Determination of Condition

For contract modifications, the 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 General

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

### 2.7 Truck Selection

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

a. The combined weight of the truck chassis, truck body, and payload must not exceed the GVW rating shown for the truck chassis.

b. The gross combined weight (GCW) of the truck, trailer, and payload must not exceed the GCW rating shown.

### 2.8 Crawler Tractor Selection

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

### 2.9 Equipment Accessories

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

## SECTION IV. EQUIPMENT VALUE

### 2.10 List Price and Accessories

The total list price includes those accessories normally purchased by the contractor plus required safety features.

### 2.11 Discount Code (DC)

A 7.5-percent discount is used for all equipment except highway trucks that are discounted at 15 percent. The total discounted price is derived by subtracting the appropriate discount from the total list price. The identification of the discount is shown in appendix D under column heading DC. Two codes are used to identify the discount, B equals the basic discount of 7.5 percent and S equals the special discount of 15 percent.

### 2.12 Sales or Import Tax

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

### 2.13 Freight

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

### 2.14 Total Equipment Value (TEV)

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

## SECTION V. LIFE

### 2.15 Economic Life (LIFE)

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

### 2.16 Working Hours Per Year (WHPY)

Annual average operating hours have been established for equipment working within the region covered by this pamphlet. The number of WHPY as shown in appendix B is equivalent to 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:

- Weather
- Employee holidays
- Equipment maintenance and repairs
- Mobilization and demobilization
- Miscellaneous downtime

## SECTION VI. SALVAGE VALUE

### 2.17 Salvage Value (SLV)

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

### 2.18 Salvage Value Percentage

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

## SECTION VII. OWNERSHIP COST

### 2.19 Ownership Elements

The ownership portion of the rate consists of allowances for depreciation (DEPR) and facilities capital cost of money (FCCM). These two cost elements are computed based on the TEV. Other ownership elements may be allowed (see paragraph 2-3.d.). Total ownership rate per hour is expressed by formula, as follows:

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

### 2.20 Depreciation

The straight-line method is used to compute depreciation.

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

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

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

Where:

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

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

(3) TCI is the tire cost index, which is determined by dividing the year of manufacture tire index by the present-year tire index. For table 2-1, the present year is 2009 and the year of manufacture is 2006 (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 2009 CMR [5.625 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 4.50 percent. The Department of the Treasury adjusts the CMR on or about 1 January and 1 July each year; these revisions are printed in the Federal Register or can be found on the Internet 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:

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

Where:

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

(2) $\text{Average Value Factor (AVF)} = [[(\text{N} - 1)(1 + \text{SLV})] + 2] / 2\text{N}$.

(a) Number of Years (N) in Depreciation Period = LIFE/WHPY.

(b) 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.

(3) Discounted CMR = 5.625% (Jan – Jun 2009 rate) / 1.25 = 4.50%.

(4) WHPY = Working hours Per Year found in appendix B.

## SECTION VIII. OPERATING COST

## 2.22 Operating Cost Elements

The total operating cost is the sum of the following five elements: fuel, FOG, repairs, tire wear, and tire repair.

## 2.23 Fuel Cost

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

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

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

Where:

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

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

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

## 2.24 Filters, Oil, and Grease (FOG) Cost

The FOG cost is computed as a percentage of the hourly fuel costs.

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

- Base wages for servicing labor
- Fringe benefits and labor burden costs for servicing
- Service truck, tools, and fuel truck allowance
- Shop allowance when shop servicing is required
- Other equipment costs for servicing
- FOG material allowance
- Taxes and shipping for FOG supplies
- Handling and disposal of hazardous materials and oil

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

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

Where:

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

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

Where:

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

(2) TCI is the tire cost index, which is determined by dividing the year of manufacture tire index by the present-year tire index. For table 2-1, the present year is 2009 and the year of manufacture is 2006 (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:

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

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

Economic Index for the Present Year. This is the economic index for the present year (2009 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.

Economic Index for the Year of Manufacture. This is the economic index for the year the equipment was manufactured (2006 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).

(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.

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:

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

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 Tire Repair Cost

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

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

## SECTION IX. STANDBY HOURLY RATE

### 2.28 Standby Hourly Rate

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

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

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 Computation Example

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

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

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 07**

**1. EQUIPMENT INFORMATION AND EXPENSE FACTORS**

**ID No: C90LB001**

a. Equipment Specification Data:

| | | |
|---|---|---|
| (1) | Equipment Description: | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 150 TON / 260' BOOM, 8X4 |
| (2) | Model and Series: | HC-238H II |
| (3) | Present Year or Year of Use: | 2009 |
| (4) | Year Manufactured: | 2006 |
| (5) | Horsepower - Equipment: | 284 |
| (6) | Horsepower - Carrier: | 430 |
| (7) | Fuel type: - **Equipment**: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel — **Enter number from 0 to 6 ==>** 3 | **D-off** |
| | - **Carrier**: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel — **Enter number from 0 to 6 ==>** 4 | **D-on** |
| (8) | Shipping Weight (cwt): | 1,913 cwt |

(9) Tire size and number of tires: (Cost of tires based on present year, see 1.a.(3) and App. F):

| | Size/Ply | App F Code | No. | Unit Price | Cost |
|---|---|---|---|---|---|
| (a) Front (FT): | 14-25/20 | ANMB1 | 4 | $1,206 | $4,824 |
| (b) Drive (DT): | 14-25/20 | ANMB1 | 8 | $1,206 | $9,648 |
| (c) Trailing (TT): | | | 0 | $0 | $0 |
| (d) Total Tire Cost: | | | | | $14,472 |

(10) List Price + Accessories:
[at Year (yr) of Manufacture] $1,575,295 OR actual purchase price: $0

**USE APPENDIX D TO COMPLETE THE FOLLOWING DATA:**

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

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

**Region 07**

**2. EQUIPMENT VALUE**

a. List Price + Accessories: *[at Year (yr) of Manufacture]* = $1,575,295

(1) Discount:

| (List Price {1.a.(10)} | + | Accessories) | x | Discount Code {1.c.(3)} | |
|---|---|---|---|---|---|
| ($1,575,295 | + | $0.00) | x | 0.075 | = -($118,147) |

(2) Subtotal {2.a.} - {2.a.(1)} Subtotal = $1,457,148

(3) Sales or Import Tax:

| Subtotal {2.a.(2)} | x | Tax Rate {'Appendix B} | |
|---|---|---|---|
| $1,457,148 | x | 9.00% | = $131,143 |

(4) Total Discounted Price: Subtotal: 2.a.(2) + 2.a.(3) Subtotal = $1,588,291

b. Freight:

| Shipping Weight {1.a.(8)} | x | Freight Rate per cwt {Appendix B} | |
|---|---|---|---|
| 1,913 cwt | x | $6.26 /cwt | = $11,975 |

c. **TOTAL EQUIPMENT VALUE (TEV):** **TOTAL [2.]:** **= $1,600,266**
{2.a.(4)} + {2.b} OR actual purchase price {1a.(10)}
(*See chapter 3 for used and overage equipment rate adjustments.)*

**3. DEPRECIATION PERIOD (N)**

a.

| LIFE {1.c.(4)} | / | Working Hours Per Year (WHPY) = N {Appendix B} | |
|---|---|---|---|
| 20,000 hr | / | 1,630 hr/yr | = 12.27 yrs (N) |

**4. OWNERSHIP COST**

a. Depreciation

(1) Tire Cost Index (TCI):

| Tire Index, Year of Manufacture, {1.a.(4)} Appendix E, EK=100 | / | Tire Index, Present Year or Year of Use, {1.a.(3)} Appendix E, EK=100 | | Tire Cost Index (TCI) |
|---|---|---|---|---|
| 2926 | / | 3382 | = | 0.865 |

(2)

| [TEV {2.c.} | x | (1.0-SLV) {1.c.(5)} | - | (TCI {4.a.(1)} | x | Tire Cost)] {1.a.(9)(d)} | / | LIFE {1.c.(4)} | | |
|---|---|---|---|---|---|---|---|---|---|---|
| [$1,600,266 | x | (1.0-0.20) | - | ( 0.865 | x | $14,472 )] | / | 20,000 hrs | = | $63.38 /hr |

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

**Region 07**

**4. OWNERSHIP COST (Continued)**

b. Facilities Capital Cost of Money (FCCM):

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| (1) | [( N - 1.0 ) {3.a.} | x | (1.0 + SLV) {1.c.5.} | + | 2.0] | / | (2.0 x N) {3.a.} | = | Avg Value Factor (AVF) |
| | [(12.27 yr - 1.0) | x | (1.0 + 0.20) | + | 2.0] | / | (2.0 x 12.27 yr) | = | 0.633 |
| (2) | TEV {2.c.} | x | AVF {4.b.(1)} | x | Adjusted Cost-of-Money {Appendix B} | / | WHPY {Appendix B} | | |
| | $1,600,266 | x | 0.633 | x | 3.90% | / | 1,630 hr/yr | = | $24.24 /hr |

c. **TOTAL HOURLY OWNERSHIP COST:** **TOTAL [4.]: = $87.62 /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)} | x | Fuel Cost per Gallon (gal) {Appendix B} | | |
| 0.024 | x | 284 hp | x | $2.92 /gal | = | $19.90 /hr |

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

| | | | | | | |
|---|---|---|---|---|---|---|
| Fuel Factor {1.c.(7)} | x | Horse power (hp) {1.a.(6)} | x | Fuel Cost per gal {Appendix B} | | |
| 0.005 | x | 430 hp | x | $3.44 /gal | = | $7.40 /hr |

(3) Total Hourly Fuel Cost: **Total [5.a.] = $27.30 /hr**
{5.a (1)} + {5.a (2)}

b. FOG Cost:

(1) Equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| FOG Factor {1.c.(8)} | x | Equipment Hourly Fuel Cost {5.a.(1)} | x | Labor Adjustment Factor (LAF) {Appendix B} | | |
| 0.110 | x | $19.90 /hr | x | $ 1.14 /hr | = | $2.50 /hr |

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

**Region 07**

**5. OPERATING COST (Continued)**

(2) Carrier:

| FOG Factor {1.c.(8)} | x | Carrier Hourly Fuel Cost {5.a.(2)} | x | LAF {Appendix B} | | |
|---|---|---|---|---|---|---|
| 0.110 | x | $7.40 /hr | x | 1.14 | = | $0.93 /hr |

(3) Total Hourly FOG Cost: **Total [5.b.]** = **$3.43 /hr**
{5.b.(1)} + {5.b.(2)}

c. Alternative Fuel/FOG Cost: **Total [5.c.]** = **$0.00 hr**
(See chapter 2, paragraph 2.24.d. for guidance on when to use.)

d. Repair Cost:

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

| Economic Index, Present Year or Year of Use,{1.a.(3)} Appendix E, EK={1.c.(1)} | / | Economic Index, Year of Manufacture, {1.a.(4)} Appendix E, EK={1.c.(1)} | | |
|---|---|---|---|---|
| 6905 | / | 6543 | = | 1.055 |

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

(2) Repair Factor (RF):

| RCF {1.c.(10)} | x | EAF {5.d.(1)} | x | LAF {Appendix B} | | |
|---|---|---|---|---|---|---|
| 0.90 | x | 1.055 | x | 1.14 | = | 1.082 |

(3) Repair Cost:

| [TEV {2.c.} | - | (TCI {4.a.(1)} | x | Tire Cost)] {1.a.(9)(d)} | x | RF {5.d.(2)} | / | LIFE {1.c.(4)} |
|---|---|---|---|---|---|---|---|---|
| [$1,600,266 | - | (0.865 | x | $14,472)] | x | 1.082 | / | 20,000 |

(4) Total Hourly Repair Cost: **Total [5.d.]** = **$85.90 /hr**

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

**Region 07**

**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.a.(9)(a)} | / | (1.8 x FT Wear Factor {1.c.(9)(a)} | x | Maximum Tire Life Hours) {Appendix F} | |
|---|---|---|---|---|---|
| (1.5 x $4,824) | / | (1.8 x 0.66 | x | 2,500 hr) | = $2.44 /hr |

(2) Drive Tires (DT):

| (1.5 x DT Cost) {1.a.(9)(b)} | / | (1.8 x DT Wear Factor {1.c.(9)(b)} | x | Maximum Tire Life Hours) {Appendix F} | |
|---|---|---|---|---|---|
| (1.5 x $9,648) | / | (1.8 x 0.58 | x | 2,500 hr) | = $5.54 /hr |

(3) Trailing Tires (TT):

| (1.5 x TT Cost) {1.a.(9)(c)} | / | (1.8 x TT Wear Factor {1.c.(9)(c)} | x | Maximum Tire Life Hours) {Appendix F} | |
|---|---|---|---|---|---|
| (1.5 x $0.00) | / | (1.8 x 0.73 | x | 0 hr) | = $0.00 /hr |

(4) Total Tire Wear Cost: **Total [5.e.] = $7.98 /hr**
Sum {5.e.(1)} through {5.e.(3)}

f. Tire Repair Cost:

| Total Tire Wear Cost per Hour {5.e.(4)} | x | (0.15 x LAF) {Appendix B} | |
|---|---|---|---|
| $7.98 /hr | x | (0.15 x 1.14) | **Total [5.f.] = $1.36 /hr** |

**g. TOTAL HOURLY OPERATING COST:** **Total [5.] = $125.97 /hr**
Sum {5.a.} through{ 5.f.}

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

**Region 07**

**6. HOURLY RATES**

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

| Ownership Cost {4.c.} | + | Operating Cost {5.g.} | = |
|---|---|---|---|
| $87.62 /hr | + | $125.97 /hr | = **$213.59 /hr** |

b. Other Work Shifts Hourly Rate:

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

| Depreciation {4.a.(2)} | + | (FCCM {4.b.(2)} | x | 40 hr/wk / Work hr/wk) example:60 hr/wk | + | Operating Cost {5.g.} | = |
|---|---|---|---|---|---|---|---|
| $63.38 /hr | + | ($24.24 /hr | x | 40 hr/wk / 60 hr/wk) (example:60 hr/wk) | + | $125.97 /hr | = **$205.51 /hr** |

c. Standby Hourly Rate:

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

| (Depreciation {4.a.(2)} | x 0.50) | + | FCCM {4.b.(2)} | = |
|---|---|---|---|---|
| ($63.38 /hr | x 0.50) | + | $24.24 /hr | = **$55.93 /hr** |

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

**See Chapter 3 if rate adjustments are necessary.**

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

**Table 2-1. Hourly Equipment Ownership and Operating Expense**

EXPLANATION OF TABLE HEADINGS

Example unit of equipment: Link Belt, Model HC-238H II, 150 Ton, 260'-boom.

**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. AM 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 "150 ton with a 260-foot boom" 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 430-horsepower engine, and the crane has a 207-horsepower engine. Both engines are diesel (D).

**VALUE (TEV)**: This column reflects the predetermined "equipment cost" used to compute the rates and is based on equipment purchased new in 2006.

**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 2-27 for more information).

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

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

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A10** | **AGGREGATE / CHIP SPREADERS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **SELF-PROPELLED** | | | | | | | | | |
| | | | **ROSCO, A LeeBoy COMPANY** | | | | | | | | | |
| | A10RS003 | SPRH | CHIP SPREADER, SELF PROPELLED, 10' WIDE, 1.70 CY, 2WD | 152 HP D-off | | $112,254 | 43.30 | 7.34 | 11.01 | 1.83 | 15.09 | 149 |
| | A10RS004 | SPRH | CHIP SPREADER, SELF PROPELLED, 11' WIDE, 1.80 CY, 2WD | 152 HP D-off | | $112,995 | 43.46 | 7.38 | 11.08 | 1.84 | 15.09 | 153 |
| | A10RS005 | SPRH | CHIP SPREADER, SELF PROPELLED, 12' WIDE, 2.03 CY, 2WD | 152 HP D-off | | $113,579 | 43.60 | 7.42 | 11.14 | 1.85 | 15.09 | 159 |
| | A10RS006 | SPRH | CHIP SPREADER, SELF PROPELLED, 13' WIDE, 2.28 CY, 2WD | 152 HP D-off | | $113,787 | 43.66 | 7.44 | 11.16 | 1.86 | 15.09 | 153 |
| | A10RS007 | SPRH | CHIP SPREADER, SELF PROPELLED, 15' WIDE, 2.53 CY, 2WD | 152 HP D-off | | $115,163 | 43.98 | 7.53 | 11.30 | 1.88 | 15.09 | 159 |
| | A10RS008 | SPREADPRO | CHIP SPREADER, SELF PROPELLED, 16' WIDE, 4.50 CY, 4WD | 205 HP D-off | | $220,736 | 74.67 | 14.47 | 21.74 | 3.60 | 20.35 | 158 |
| | **SUBCATEGORY 0.20** | | **TOWED & TAILGATE** | | | | | | | | | |
| | | | **AMERICAN ROAD MACHINERY, INC.** | | | | | | | | | |
| | A10AR001 | TG-505C | CHIP SPREADER, TAILGATE, 8' WIDE (ADD DUMP TRUCK) | | | $3,142 | 0.87 | 0.26 | 0.42 | 0.05 | 0.00 | 5 |
| | A10AR002 | ODELL 900 | CHIP SPREADER, TOWED, 8' WIDE, 3 CY (ADD DUMP TRUCK) | | | $15,209 | 4.41 | 1.28 | 2.03 | 0.26 | 0.00 | 22 |
| | | | **SEALMASTER, INC.** | | | | | | | | | |
| | A10SE001 | R-1 E2310 | CHIP SPREADER, TAILGATE, 8' WIDE, 1.13 CY (ADD DUMP TRUCK) | | | $13,123 | 3.63 | 1.10 | 1.75 | 0.22 | 0.00 | 21 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *A10* | | | *SEALMASTER, INC. (continued)* | | | | | | | | | |
| | A10SE002 | R-1 E2500 | CHIP SPREADER, TOWED, 8' WIDE, 1.13 CY (ADD DUMP TRUCK) | | | $15,469 | 4.27 | 1.29 | 2.06 | 0.26 | 0.00 | 30 |
| **A15** | **AIR COMPRESSORS, PORTABLE** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **ROTARY SCREW** | | | | | | | | | |
| | | | **INGERSOLL RAND ROTARY-REC COMPRESSOR DIV** | | | | | | | | | |
| | A15IA001 | P175WJD | AIR COMPRESSOR, 175 CFM, 100 PSI (ADD HOSE) | 56 HP D-off | | $22,827 | 11.19 | 1.26 | 1.80 | 0.36 | 5.89 | 21 |
| | A15IA002 | HP300WCU | AIR COMPRESSOR, 300 CFM, 150 PSI (ADD HOSE) | 110 HP D-off | | $49,166 | 22.77 | 2.73 | 3.90 | 0.78 | 11.56 | 38 |
| | A15IA003 | VHP400WCU | AIR COMPRESSOR, 400 CFM, 200 PSI (ADD HOSE) | 174 HP D-off | | $59,001 | 32.36 | 3.28 | 4.67 | 0.94 | 18.29 | 53 |
| | A15IA004 | HP450WCU | AIR COMPRESSOR, 450 CFM, 150 PSI (ADD HOSE) | 174 HP D-off | | $59,001 | 32.36 | 3.28 | 4.67 | 0.94 | 18.29 | 53 |
| | A15IA005 | XP525WCU | AIR COMPRESSOR, 525 CFM, 125 PSI (ADD HOSE) | 174 HP D-off | | $59,001 | 32.36 | 3.28 | 4.67 | 0.94 | 18.29 | 53 |
| | A15IA006 | XHP650WCAT | AIR COMPRESSOR, 650 CFM, 350 PSI (ADD HOSE) | 300 HP D-off | | $130,545 | 61.45 | 7.25 | 10.33 | 2.08 | 31.54 | 136 |
| | A15IA007 | XHP750WCAT | AIR COMPRESSOR, 750 CFM, 300 PSI (ADD HOSE) | 300 HP D-off | | $136,796 | 62.68 | 7.60 | 10.83 | 2.18 | 31.54 | 136 |
| | A15IA008 | VHP825WCU | AIR COMPRESSOR, 825 CFM, 200 PSI (ADD HOSE) | 335 HP D-off | | $103,258 | 60.30 | 5.72 | 8.15 | 1.64 | 35.22 | 96 |
| | A15IA009 | XP1000WCAT | AIR COMPRESSOR, 1,000 CFM, 125 PSI (ADD HOSE) | 310 HP D-off | | $103,473 | 57.36 | 5.74 | 8.17 | 1.65 | 32.59 | 104 |
| | A15IA010 | XHP1070WCAT | AIR COMPRESSOR, 1,070 CFM, 350 PSI (ADD HOSE) | 400 HP D-off | | $183,944 | 83.83 | 10.24 | 14.61 | 2.93 | 42.05 | 152 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SULLAIR CORPORATION** | | | | | | | | | |
| | A15SR006 | 125DPQJD | AIR COMPRESSOR, 125 CFM, 100 PSI (ADD HOSE) | 76 HP D-off | | $16,696 | 12.37 | 0.93 | 1.31 | 0.27 | 7.99 | 24 |
| | A15SR007 | 130DPQJD | AIR COMPRESSOR, 130 CFM, 100 PSI (ADD HOSE) | 77 HP D-off | | $16,750 | 12.50 | 0.93 | 1.31 | 0.27 | 8.09 | 26 |
| | A15SR004 | 185 | AIR COMPRESSOR, 185 CFM, 100 PSI (ADD HOSE) | 78 HP D-off | | $16,696 | 12.61 | 0.93 | 1.31 | 0.27 | 8.20 | 24 |
| | A15SR005 | 260 | AIR COMPRESSOR, 260 CFM, 100 PSI (ADD HOSE) | 80 HP D-off | | $23,977 | 14.27 | 1.33 | 1.89 | 0.38 | 8.41 | 26 |
| | A15SR008 | 375HDPQJD | AIR COMPRESSOR, 375 CFM, 150 PSI (ADD HOSE) | 123 HP D-off | | $40,499 | 22.65 | 2.24 | 3.19 | 0.64 | 12.93 | 42 |
| | A15SR009 | 425DPQJD | AIR COMPRESSOR, 425 CFM, 100 PSI (ADD HOSE) | 124 HP D-off | | $40,499 | 22.76 | 2.24 | 3.19 | 0.64 | 13.03 | 42 |
| | A15SR010 | 600HDTQCA | AIR COMPRESSOR, 600 CFM, 150 PSI (ADD HOSE) | 230 HP D-off | | $84,297 | 44.05 | 4.66 | 6.63 | 1.34 | 24.18 | 100 |
| | A15SR011 | 750HHDTQCA | AIR COMPRESSOR, 750 CFM, 175 PSI (ADD HOSE) | 300 HP D-off | | $99,059 | 55.31 | 5.49 | 7.82 | 1.58 | 31.54 | 103 |
| | A15SR002 | 900XH | AIR COMPRESSOR, 900 CFM, 350 PSI (ADD HOSE) | 440 HP D-off | | $195,043 | 90.81 | 10.82 | 15.44 | 3.10 | 46.25 | 157 |
| | A15SR012 | 1050DTQCA | AIR COMPRESSOR, 1,050 CFM, 100 PSI (ADD HOSE) | 300 HP D-off | | $97,565 | 55.01 | 5.40 | 7.70 | 1.55 | 31.54 | 105 |
| | A15SR013 | 1300HDTQCA | AIR COMPRESSOR, 1,300 CFM, 150 PSI (ADD HOSE) | 450 HP D-off | | $170,207 | 87.11 | 9.47 | 13.51 | 2.71 | 47.30 | 156 |
| | A15SR014 | 1600HDTQCA | AIR COMPRESSOR, 1,600 CFM, 100 PSI (ADD HOSE) | 450 HP D-off | | $185,192 | 90.15 | 10.25 | 14.60 | 2.95 | 47.30 | 162 |
| | A15SR015 | 1900DTQCA | AIR COMPRESSOR, 1,900 CFM, 100 PSI (ADD HOSE) | 525 HP D-off | | $139,152 | 90.10 | 7.67 | 10.92 | 2.21 | 55.19 | 164 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | A15XX019 | 85G | AIR COMPRESSOR, 85 CFM, 100 PSI (ADD HOSE) | 30 HP | G | | $9,783 | 9.42 | 0.54 | 0.75 | 0.16 | 6.47 | 14 |
| | A15XX020 | 85D | AIR COMPRESSOR, 85 CFM, 100 PSI (ADD HOSE) | 30 HP | D-off | | $18,664 | 7.26 | 1.03 | 1.46 | 0.30 | 3.15 | 24 |
| | A15XX021 | 100G | AIR COMPRESSOR, 100 CFM, 100 PSI (ADD HOSE) | 50 HP | G | | $12,999 | 15.03 | 0.72 | 1.01 | 0.21 | 10.78 | 17 |
| | A15XX022 | 100D | AIR COMPRESSOR, 100 CFM, 125 PSI (ADD HOSE) | 35 HP | D-off | | $19,019 | 7.93 | 1.05 | 1.49 | 0.30 | 3.68 | 17 |
| | A15XX023 | 125G | AIR COMPRESSOR, 125 CFM, 100 PSI (ADD HOSE) | 65 HP | G | | $13,706 | 18.90 | 0.76 | 1.07 | 0.22 | 14.01 | 20 |
| | A15XX024 | 130 | AIR COMPRESSOR, 130 CFM, 100 PSI (ADD HOSE) | 50 HP | D-off | | $21,398 | 10.18 | 1.18 | 1.68 | 0.34 | 5.26 | 18 |
| | A15XX025 | 160G | AIR COMPRESSOR, 160 CFM, 125 PSI (ADD HOSE) | 60 HP | G | | $14,990 | 17.89 | 0.83 | 1.17 | 0.24 | 12.93 | 23 |
| | A15XX026 | 175D | AIR COMPRESSOR, 175 CFM, 100 PSI (ADD HOSE) | 70 HP | D-off | | $24,046 | 13.10 | 1.33 | 1.90 | 0.38 | 7.36 | 27 |
| | A15XX027 | 175G | AIR COMPRESSOR, 175 CFM, 125 PSI (ADD HOSE) | 90 HP | G | | $15,588 | 25.48 | 0.86 | 1.22 | 0.25 | 19.40 | 24 |
| | A15XX028 | 185D | AIR COMPRESSOR, 185 CFM, 100 PSI (ADD HOSE) | 80 HP | D-off | | $24,564 | 14.39 | 1.36 | 1.94 | 0.39 | 8.41 | 24 |
| | A15XX029 | 185G | AIR COMPRESSOR, 185 CFM, 125 PSI (ADD HOSE) | 70 HP | G | | $16,819 | 20.75 | 0.93 | 1.32 | 0.27 | 15.09 | 23 |
| | A15XX030 | 250 | AIR COMPRESSOR, 250 CFM, 100 PSI (ADD HOSE) | 85 HP | D-off | | $32,493 | 16.54 | 1.81 | 2.57 | 0.52 | 8.94 | 31 |
| | A15XX031 | 300 | AIR COMPRESSOR, 300 CFM, 125 PSI (ADD HOSE) | 110 HP | D-off | | $47,320 | 22.41 | 2.63 | 3.76 | 0.75 | 11.56 | 37 |
| | A15XX032 | 375 | AIR COMPRESSOR, 375 CFM, 125 PSI (ADD HOSE) | 115 HP | D-off | | $43,221 | 22.23 | 2.39 | 3.40 | 0.69 | 12.09 | 37 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *A15* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | | |
| | A15XX033 | 450 | AIR COMPRESSOR, 450 CFM, 125 PSI (ADD HOSE) | 170 HP | D-off | | $58,192 | 31.80 | 3.21 | 4.55 | 0.93 | 17.87 | 89 |
| | A15XX034 | 600 | AIR COMPRESSOR, 600 CFM, 150 PSI (ADD HOSE) | 250 HP | D-off | | $80,398 | 45.68 | 4.44 | 6.32 | 1.28 | 26.28 | 99 |
| | A15XX035 | 750 | AIR COMPRESSOR, 750 CFM, 125 PSI (ADD HOSE) | 275 HP | D-off | | $85,462 | 49.66 | 4.73 | 6.73 | 1.36 | 28.91 | 93 |
| | A15XX036 | 825 | AIR COMPRESSOR, 825 CFM, 125 PSI (ADD HOSE) | 275 HP | D-off | | $92,111 | 50.97 | 5.10 | 7.26 | 1.47 | 28.91 | 104 |
| | A15XX037 | 900 | AIR COMPRESSOR, 900 CFM, 125 PSI (ADD HOSE) | 310 HP | D-off | | $98,227 | 56.32 | 5.44 | 7.75 | 1.56 | 32.59 | 93 |
| | A15XX038 | 1200 | AIR COMPRESSOR, 1,200 CFM, 125 PSI (ADD HOSE) | 360 HP | D-off | | $149,205 | 72.25 | 8.29 | 11.83 | 2.37 | 37.84 | 150 |
| | A15XX039 | 1300 | AIR COMPRESSOR, 1,400 CFM, 150 PSI (ADD HOSE) | 460 HP | D-off | | $156,436 | 85.65 | 8.68 | 12.37 | 2.49 | 48.36 | 180 |
| | A15XX040 | 1600 | AIR COMPRESSOR, 1,600 CFM, 150 PSI (ADD HOSE) | 500 HP | D-off | | $167,913 | 92.66 | 9.32 | 13.29 | 2.67 | 52.56 | 151 |
| | **SUBCATEGORY 0.20** | | **SHOP TYPE** | | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | A15XX041 | 80/15 | AIR COMPRESSOR, 22 CFM, 80 GAL (ADD HOSE) | 5 HP | E | | $2,434 | 0.95 | 0.13 | 0.17 | 0.04 | 0.36 | 3 |
| | A15XX042 | 80/25 | AIR COMPRESSOR, 28 CFM, 80 GAL (ADD HOSE) | 7 HP | E | | $3,266 | 1.30 | 0.17 | 0.23 | 0.05 | 0.51 | 3 |
| | A15XX043 | 120/35 | AIR COMPRESSOR, 41 CFM, 120 GAL (ADD HOSE) | 10 HP | E | | $4,911 | 1.90 | 0.25 | 0.35 | 0.07 | 0.73 | 4 |
| | A15XX044 | 120/55 | AIR COMPRESSOR, 58 CFM, 120 GAL (ADD HOSE) | 15 HP | E | | $5,744 | 2.59 | 0.30 | 0.41 | 0.09 | 1.09 | 4 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *A15* | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | |
| | A15XX045 120/90 | AIR COMPRESSOR, 89 CFM, 120 GAL (ADD HOSE) | 25 HP E | | $8,166 | 4.10 | 0.41 | 0.58 | 0.12 | 1.82 | 4 |
| | A15XX046 120/112 | AIR COMPRESSOR, 103 CFM, 120 GAL (ADD HOSE) | 30 HP E | | $10,020 | 4.95 | 0.51 | 0.71 | 0.15 | 2.18 | 5 |
| **A20** | **AIR HOSE, TOOLS & EQUIPMENT** | | | | | | | | | | |
| | **SUBCATEGORY 0.10 AIR DRILL HOSE** | | | | | | | | | | |
| | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | A20XX001 | AIR HOSE, 0.75", 100', HARDROCK | | | $1,347 | 1.16 | 0.21 | 0.37 | 0.02 | 0.00 | 1 |
| | A20XX002 | AIR HOSE, 1.00", 100', HARDROCK | | | $1,559 | 1.34 | 0.24 | 0.42 | 0.03 | 0.00 | 1 |
| | A20XX003 | AIR HOSE, 1.25", 100', HARDROCK | | | $1,938 | 1.66 | 0.30 | 0.53 | 0.03 | 0.00 | 1 |
| | A20XX004 | AIR HOSE, 1.50", 100', HARDROCK | | | $2,523 | 2.17 | 0.39 | 0.68 | 0.05 | 0.00 | 1 |
| | A20XX005 | AIR HOSE, 2.00", 100', HARDROCK | | | $3,580 | 3.07 | 0.55 | 0.97 | 0.06 | 0.00 | 2 |
| | A20XX006 | AIR HOSE, 2.50", 100', HARDROCK | | | $4,395 | 3.77 | 0.68 | 1.19 | 0.08 | 0.00 | 3 |
| | A20XX007 | AIR HOSE, 3.00", 100', HARDROCK | | | $5,431 | 4.66 | 0.84 | 1.47 | 0.10 | 0.00 | 4 |
| | A20XX008 | AIR HOSE, 4.00", 100', HARDROCK | | | $7,264 | 6.23 | 1.12 | 1.97 | 0.13 | 0.00 | 6 |
| | **SUBCATEGORY 0.20 SANDBLAST HOSE** | | | | | | | | | | |
| | | **CLEMCO INDUSTRIES CORPORATION** | | | | | | | | | |
| | A20CM017 | SANDBLAST HOSE, 0.75"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | $374 | 0.34 | 0.06 | 0.10 | 0.01 | 0.00 | 1 |
| | A20CM018 | SANDBLAST HOSE, 1.00"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | $409 | 0.38 | 0.07 | 0.11 | 0.01 | 0.00 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *A20* | | | *CLEMCO INDUSTRIES CORPORATION (continued)* | | | | | | | | | |
| | A20CM020 | | SANDBLAST HOSE, 1.25"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | $435 | 0.40 | 0.07 | 0.12 | 0.01 | 0.00 | 1 |
| | A20CM019 | | SANDBLAST HOSE, 1.50"ID, 100' LONG USE AS SAND BLASTING ACCESSORY | | | $531 | 0.48 | 0.08 | 0.14 | 0.01 | 0.00 | 1 |
| | **SUBCATEGORY 0.30** | | **SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS** | | | | | | | | | |
| | | | **CHICAGO PNEUMATIC TOOL CO.** | | | | | | | | | |
| | A20CK002 | CP-0009A | ROTARY / CHIP HAMMER, 8 LB, AIR (ADD 30 CFM COMPRESSOR & BIT COSTS) | 20 CFM A | | $961 | 0.48 | 0.09 | 0.14 | 0.02 | 0.00 | 1 |
| | A20CK001 | CP-0014RR | ROTARY / CHIP HAMMER, 15 LB, AIR (ADD 30 CFM COMPRESSOR & BIT COSTS) | 32 CFM A | | $1,586 | 0.80 | 0.15 | 0.24 | 0.03 | 0.00 | 1 |
| | A20CK003 | CP-0022 | ROCK DRILL, 30 LB, AIR (ADD 50 CFM COMPRESSOR & BIT COSTS) | 56 CFM A | | $1,690 | 0.84 | 0.16 | 0.25 | 0.03 | 0.00 | 1 |
| | A20CK005 | CP-0069 | ROCK DRILL, 55 LB, AIR (ADD 140 CFM COMPRESSOR & BIT COSTS) | 130 CFM A | | $2,080 | 1.03 | 0.19 | 0.31 | 0.03 | 0.00 | 1 |
| | A20CK006 | CP-0111-CHLA | BREAKER-FOUR BOLT, 25 LB (ADD 50 CFM COMPRESSOR & BIT COSTS) | 45 CFM A | | $1,149 | 0.57 | 0.11 | 0.17 | 0.02 | 0.00 | 1 |
| | A20CK008 | CP-1230-S1.25 | BREAKER-FOUR BOLT, 60 LB (ADD 65 CFM COMPRESSOR & BIT COSTS) | 63 CFM A | | $1,200 | 0.60 | 0.11 | 0.18 | 0.02 | 0.00 | 1 |
| | A20CK010 | CP-1240-S1.25 | BREAKER-FOUR BOLT, 90 LB (ADD 90 CFM COMPRESSOR & BIT COSTS) | 81 CFM A | | $1,250 | 0.63 | 0.12 | 0.19 | 0.02 | 0.00 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **CLEMCO INDUSTRIES CORPORATION** | | | | | | | | | |
| | A20CM010 | PACKAGE TWO | SANDBLASTER, 2 CF CAP, W/0.50" D X 25'L HOSE (ADD 100 CFM COMPRESSOR & NOZZLE COST) | 100 CFM A | | $3,993 | 2.05 | 0.36 | 0.60 | 0.06 | 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 A | | $5,142 | 2.62 | 0.47 | 0.77 | 0.08 | 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 A | | $5,777 | 3.01 | 0.53 | 0.87 | 0.09 | 0.00 | 6 |
| | A20CM013 | | SANDBLASTER, 60 CF CAP, W/1.25"D X 50'L HOSE (ADD 450 CFM COMPRESSOR & NOZZLE COST) | 450 CFM A | | $17,721 | 8.93 | 1.56 | 2.56 | 0.28 | 0.00 | 30 |
| | A20CM014 | | SANDBLASTER, 120 CF CAP, W/1.25"D X 50'L HOSE (ADD 700 CFM COMPRESSOR & NOZZLE COST) | 700 CFM A | | $22,446 | 10.98 | 1.87 | 3.01 | 0.36 | 0.00 | 35 |
| | A20CM015 | | SANDBLASTER, 160 CF CAP, W/1.25"D X 50'L HOSE (ADD 900 CFM COMPRESSOR & NOZZLE COST) | 900 CFM A | | $25,432 | 12.76 | 2.20 | 3.58 | 0.41 | 0.00 | 45 |
| | A20CM016 | | SANDBLAST ABRASIVE STORAGE HOPPER, 700 CF, 8' DEEP,10' WIDE & 23' HIGH (ADD SAND BLASTER & ACCESSORIES) | | | $15,710 | 8.13 | 1.43 | 2.36 | 0.25 | 0.00 | 69 |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | A20WC002 | EHB11/BL/110 | BREAKER/DRILL, 40 LB, ELECTRIC (ADD 2 KW GENERATOR & BIT COSTS) | 2 HP E | | $1,132 | 0.91 | 0.11 | 0.17 | 0.02 | 0.13 | 1 |
| | A20WC004 | BH 23 | BREAKER/DRIVER, 65 LB, W/POWER UNIT (ADD BIT COSTS) | 4 HP G | | $3,266 | 2.49 | 0.30 | 0.49 | 0.05 | 0.75 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | | |
| | A20XX021 | STANDARD 25-30 LBS | PAVEMENT BREAKER, 25-30 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | $1,250 | 0.63 | 0.12 | 0.19 | 0.02 | 0.00 | 1 |
| | A20XX022 | SILENCED 35-45 LBS | PAVEMENT BREAKER, 35-45 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | $1,456 | 0.72 | 0.13 | 0.22 | 0.02 | 0.00 | 1 |
| | A20XX023 | SILENCED 60-65 LBS | PAVEMENT BREAKER, 60-65 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | $1,750 | 0.87 | 0.16 | 0.26 | 0.03 | 0.00 | 1 |
| | A20XX024 | SILENCED 80-90 LBS | PAVEMENT BREAKER, 80-90 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | $1,805 | 0.90 | 0.17 | 0.27 | 0.03 | 0.00 | 1 |
| | A20XX025 | 55DRY | ROCK DRILL, DRY, 55 LB, HAND HELD (ADD 100 CFM COMPRESSOR & BIT COSTS) | 100 CFM A | | $2,545 | 1.26 | 0.23 | 0.38 | 0.04 | 0.00 | 1 |
| A25 | ASPHALT PAVING DISTRIBUTORS | | | | | | | | | | | |
| | **SUBCATEGORY 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) | | | $61,549 | 22.39 | 5.61 | 9.23 | 0.99 | 0.00 | 70 |
| | A25RS008 | MAXIMIZER 11 | ASPHALT DISTRIBUTOR, 3,000 GAL, 400 GPM, TRUCK MTD (ADD 42,000 GVW TRUCK) | | | $70,725 | 26.20 | 6.45 | 10.61 | 1.14 | 0.00 | 97 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | A25XX001 | 1100G | ASPHALT DISTRIBUTOR, 1,100 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | $52,017 | 18.58 | 4.74 | 7.80 | 0.84 | 0.00 | 64 |
| | A25XX002 | 2600G | ASPHALT DISTRIBUTOR, 2,600 GAL, 400 GPM, TRUCK MTD (ADD 32,000 GVW TRUCK) | | | $60,721 | 22.46 | 5.54 | 9.11 | 0.98 | 0.00 | 89 |
| | A25XX003 | 3600G | ASPHALT DISTRIBUTOR, 3,600 GAL, 400 GPM, TRUCK MTD (ADD 42,000 GVW TRUCK) | | | $66,488 | 25.02 | 6.06 | 9.97 | 1.07 | 0.00 | 104 |
| A30 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **SELF PROPELLED** | | | | | | | | | |
| | | | **BARBER-GREENE COMPANY** | | | | | | | | | |
| | A30BG007 | BG230 | ASPHALT FINISHER, 8' WIDE SCREED, WHEEL, W/15' 6" SCREED EXTENSION, 190 CF HOPPER | 98 HP D-off | | $309,855 | 99.47 | 20.86 | 31.89 | 4.91 | 9.73 | 314 |
| | A30BG004 | BG225C | ASPHALT FINISHER, 8' WIDE SCREED, CRAWLER, W/15' 6" SCREED EXTENSION, 177 CF HOPPER | 112 HP D-off | | $348,895 | 111.77 | 24.07 | 37.07 | 5.53 | 11.12 | 336 |
| | A30BG009 | BG240C | ASPHALT PAVER, 10' WIDE SCREED, WHEEL, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 139 HP D-off | | $336,446 | 110.09 | 22.60 | 34.54 | 5.33 | 13.80 | 377 |
| | A30BG005 | BG245C | ASPHALT FINISHER, 10' WIDE SCREED, CRAWLER, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 158 HP D-off | | $404,489 | 132.51 | 27.90 | 42.98 | 6.41 | 15.69 | 374 |
| | A30BG003 | BG260C | ASPHALT FINISHER, 10' WIDE SCREED, WHEEL, W/19' 6" SCREED EXTENSION, 215 CF HOPPER | 158 HP D-off | | $403,890 | 132.09 | 26.82 | 40.84 | 6.40 | 15.69 | 382 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **BLAW KNOX CONSTRUCTION EQUIPMENT CORP.** | | | | | | | | | | | |
| | A30BK010 | PF-150 | ASPHALT PAVER/FINISHER, 8' WIDE SCREED, WHEEL, 107 CF HOOPER | 47 HP D-off | | $160,685 | 50.70 | 10.75 | 16.40 | 2.55 | 4.67 | 154 |
| | A30BK011 | PF-161 | ASPHALT PAVER/FINISHER, 8' WIDE SCREED, WHEEL, 181 CF HOPPER | 107 HP D-off | | $282,315 | 91.28 | 18.96 | 28.97 | 4.47 | 10.62 | 210 |
| | A30BK013 | PF-3172 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, WHEEL, 182 CF HOPPER | 145 HP D-off | | $298,515 | 99.98 | 20.11 | 30.75 | 4.73 | 14.40 | 299 |
| | A30BK015 | PF-3200 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, WHEEL, 225 CF HOPPER | 184 HP D-off | | $342,955 | 116.97 | 23.05 | 35.23 | 5.43 | 18.27 | 340 |
| | A30BK017 | PF-5500 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, CRAWLER, 218 CF HOPPER | 184 HP D-off | | $361,813 | 121.99 | 24.95 | 38.44 | 5.73 | 18.27 | 340 |
| | A30BK018 | PF-5510 | ASPHALT PAVER/FINISHER, 10' WIDE SCREED, CRAWLER, 218 CF HOPPER | 184 HP D-off | | $372,252 | 124.91 | 25.68 | 39.55 | 5.90 | 18.27 | 320 |
| | A30BK019 | RW 100 A | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-10' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 72.5 CF HOPPER | 105 HP D-off | | $220,233 | 73.40 | 15.03 | 23.07 | 3.49 | 10.42 | 245 |
| | A30BK020 | RW 195 D | ASPHALT PAVER, SHOULDER PAVING MACHINE, 2'-10' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 73 CF HOPPER | 173 HP D-off | | $283,584 | 98.95 | 19.40 | 29.81 | 4.49 | 17.18 | 330 |
| | A30BK021 | TITAN 325 EPM | ASPHALT PAVER, 32.8' WIDE, CRAWLER W/DUAL TAMPER SCREED, 270 CF HOPPER | 176 HP D-off | | $367,023 | 122.55 | 25.31 | 39.00 | 5.81 | 17.47 | 399 |
| | A30BK022 | PF-2181 | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 2 WHEEL DRIVE, 182 CF HOPPER | 145 HP D-off | | $279,364 | 94.61 | 18.78 | 28.71 | 4.42 | 14.40 | 283 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *A30* | | | *BLAW KNOX CONSTRUCTION EQUIPMENT CORP. (continued)* | | | | | | | | | | |
| | A30BK023 | PF-4410 | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER, 155 CF HOPPER | 145 HP | D-off | | $314,592 | 104.39 | 21.70 | 33.43 | 4.98 | 14.40 | 269 |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | A30CA013 | AP-650B | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER, 177 CF HOPPER | 121 HP | D-off | | $295,082 | 96.21 | 20.35 | 31.35 | 4.67 | 12.01 | 402 |
| | A30CA002 | AP-800C | ASPHALT PAVER, 8' WIDE+2' EXT. PAVEMASTER SCREED, WHEEL, 195 CF HOPPER | 107 HP | D-off | | $292,071 | 93.85 | 19.66 | 30.05 | 4.63 | 10.62 | 319 |
| | A30CA014 | AP-900B | ASPHALT PAVER, 10' WIDE SCREED, WHEEL, 215 CF HOPPER | 153 HP | D-off | | $307,914 | 103.68 | 20.63 | 31.50 | 4.88 | 15.19 | 378 |
| | A30CA008 | AP-1000B | ASPHALT PAVER, 10' - 12' WIDE PAVEMASTER SCREED, WHEEL, 215 CF HOPPER | 174 HP | D-off | | $340,422 | 115.18 | 22.91 | 35.04 | 5.39 | 17.27 | 468 |
| | A30CA015 | AP-1050B | ASPHALT PAVER, 10' WIDE EXTEND-A-MAT SCREED, CRAWLER, 215 CF HOPPER | 174 HP | D-off | | $492,327 | 157.38 | 33.96 | 52.31 | 7.80 | 17.27 | 415 |
| | A30CA016 | AP-1055B | ASPHALT PAVER, 10' WIDE SCREED, CRAWLER, 215 CF HOPPER | 173 HP | D-off | | $382,374 | 126.52 | 26.38 | 40.63 | 6.06 | 17.18 | 413 |
| | A30CA009 | AP-1050B | ASPHALT PAVER, 10' - 24' WIDE PAVEMASTER SCREED, CRAWLER, 215 CF HOPPER | 173 HP | D-off | | $416,910 | 136.18 | 28.75 | 44.30 | 6.60 | 17.18 | 418 |
| | | | **CHAMPION ROAD MACHINERY-PRO PAV (WIRTGEN** | | | | | | | | | | |
| | A30CH001 | 780WB | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 190 CF HOPPER | 110 HP | D-off | | $271,770 | 88.66 | 18.23 | 27.85 | 4.30 | 10.92 | 265 |
| | A30CH002 | 880WB | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 190 CF HOPPER | 152 HP | D-off | | $296,298 | 100.13 | 19.95 | 30.51 | 4.69 | 15.09 | 315 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *A30* | | | *CHAMPION ROAD MACHINERY-PRO PAV (WIRTGEN (continued)* | | | | | | | | | |
| | A30CH003 | 880RTB | ASPHALT PAVER, 8' WIDE SCREED, CRAWLER-RUBBER TRACK, 190 CF HOPPER | 152 HP D-off | | $298,356 | 100.63 | 20.58 | 31.70 | 4.73 | 15.09 | 282 |
| | A30CH004 | 1010WB | ASPHALT PAVER, 10' WIDE SCREED, WHEEL, 205 CF HOPPER | 152 HP D-off | | $311,955 | 104.46 | 20.99 | 32.09 | 4.94 | 15.09 | 305 |
| | A30CH005 | 1110WB | ASPHALT PAVER, 10' WIDE SCREED, WHEEL, 225 CF HOPPER | 173 HP D-off | | $340,550 | 115.11 | 22.92 | 35.05 | 5.39 | 17.18 | 343 |
| | A30CH006 | 1110RTB SWIFTRACK | ASPHALT PAVER, 10' WIDE SCREED, CRAWLER-RUBBER TRACK, 225 CF HOPPER | 200 HP D-off | | $396,755 | 133.58 | 27.36 | 42.16 | 6.28 | 19.86 | 402 |
| | | | **GEHL COMPANY** | | | | | | | | | |
| | A30GC002 | 1448 | ASPHALT PAVER, 8' WIDE SCREED, WHEEL, 80 CF HOPPER | 25 HP D-off | | $39,478 | 13.89 | 2.69 | 4.11 | 0.63 | 2.48 | 67 |
| | A30GC004 | 1648 | ASPHALT PAVER, 9' WIDE SCREED, CRAWLER, 120 CF HOPPER | 41 HP D-off | | $56,677 | 20.48 | 3.91 | 6.02 | 0.90 | 4.07 | 85 |
| | **SUBCATEGORY 0.20** | | **TOWED** | | | | | | | | | |
| | | | **MIDLAND MACHINERY CO** | | | | | | | | | |
| | A30MP001 | SP-8 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-8' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 80 CF HOPPER | 80 HP D-off | | $136,599 | 35.12 | 7.64 | 10.93 | 2.17 | 7.24 | 185 |
| | A30MP002 | SP-10 | ASPHALT PAVER, SHOULDER PAVING MACHINE, 1'-10' WIDE, BITUMINOUS & AGGREGATE, WHEEL, 80 CF HOPPER | 100 HP D-off | | $177,681 | 45.27 | 9.94 | 14.21 | 2.83 | 9.05 | 275 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.30** | | **SLURRY SEAL PAVERS (Cold mix)** | | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | A30XX001 | MINIMAC | ASPHALT PAVER, SLURRY SEAL PAVER 8' WIDE, SELF PROPELLED, WHEEL, 80 CF HOPPER | 110 HP | D-off | | $148,807 | 31.71 | 7.22 | 9.77 | 2.33 | 9.31 | 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 | | $182,178 | 35.91 | 8.93 | 12.15 | 2.85 | 9.31 | 175 |
| | **SUBCATEGORY 0.40** | | **MISCELLANEOUS ROAD EQUIPMENT** | | | | | | | | | | |
| | | | **BLAW KNOX CONSTRUCTION EQUIPMENT CORP.** | | | | | | | | | | |
| | A30BK024 | MC-330 | ASPHALT PAVER, MOBILE CONVEYOR, 60" WIDE BELT, WHEEL (ADD ASPHALT PAVER UNIT) | 184 HP | D-off | | $356,689 | 89.55 | 19.64 | 27.91 | 5.68 | 16.66 | 430 |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | A30CA007 | BG-650 | ASPHALT PAVER, ASPHALT WINDROW ELEVATOR, WHEEL (ADD ASPHALT PAVER UNIT) | 107 HP | D-off | | $124,466 | 35.69 | 6.82 | 9.67 | 1.98 | 9.69 | 171 |
| | | | **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 | | $145,450 | 40.37 | 7.88 | 11.13 | 2.31 | 9.96 | 198 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **ROADTEC ( ASTEC INDUSTRIES COMPANY)** | | | | | | | | | | | | |
| | A30RT001 | SB-1500 | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 15 TON HOPPER, 600 TPH, 65" WIDE CONVEYOR, WHEEL | 275 HP | D-off | | $510,865 | 128.87 | 28.55 | 40.83 | 8.13 | 24.89 | 600 |
| | A30RT002 | SB-2500B | ASPHALT PAVER, ASPHALT MATERIAL TRANSFER VEHICLE, 25 TON HOPPER, 1000 TPH, 69" WIDE CONVEYOR, WHEEL | 275 HP | D-off | | $535,829 | 133.82 | 29.93 | 42.79 | 8.53 | 24.89 | 790 |
| A35 | ASPHALT PAVING KETTLES | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ASPHALT PAVING KETTLES** | | | | | | | | | | |
| | **AEROIL PRODUCTS COMPANY, INC.** | | | | | | | | | | | | |
| | A35AE001 | KEB-80KE | ASPHALT/PAVEMENT KETTLE, 80 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | $10,409 | 6.30 | 0.84 | 1.32 | 0.18 | 0.94 | 9 |
| | A35AE002 | KEB-115KE | ASPHALT/PAVEMENT KETTLE, 115 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | $10,798 | 7.12 | 0.87 | 1.37 | 0.18 | 0.94 | 11 |
| | A35AE003 | KEB-170KE | ASPHALT/PAVEMENT KETTLE, 170 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | $11,606 | 7.76 | 0.95 | 1.50 | 0.20 | 0.94 | 15 |
| | A35AE004 | KEB-260KE | ASPHALT/PAVEMENT KETTLE, 260 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | $12,731 | 9.02 | 1.05 | 1.65 | 0.22 | 0.94 | 19 |
| | A35AE005 | KEB-360KE | ASPHALT/PAVEMENT KETTLE, 360 GAL, TRAILER W/PUMP & HOSE | 5 HP | G | | $13,985 | 11.57 | 1.13 | 1.77 | 0.24 | 0.94 | 20 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A40 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 | | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | | | | | | | | | | |
| | | | CATERPILLAR INC. ( MACHINE DIVISION) | | | | | | | | | | |
| | A40CA008 | PM-465 | ASPHALT COLD PLANER, 75" W X 10" D, CRAWLER (ADD CUTTING TEETH COSTS) | 500 HP | D-off | | $490,244 | 251.40 | 41.01 | 65.37 | 8.32 | 65.70 | 505 |
| | A40CA009 | PM-565B | ASPHALT COLD PLANER, 83" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 625 HP | D-off | | $688,983 | 341.72 | 57.62 | 91.86 | 11.69 | 82.13 | 735 |
| | | | TEREX - CMI (TEREX ROADBUILDING) | | | | | | | | | | |
| | A40CW001 | PR-950 | ASPHALT PROFILER, MAX 12.5' W X 15" D, CRAWLER (ADD CUTTING TEETH COSTS) | 950 HP | D-off | | $806,853 | 432.72 | 67.48 | 107.58 | 13.69 | 124.83 | 1,205 |
| | | | ROADTEC ( ASTEC INDUSTRIES COMPANY) | | | | | | | | | | |
| | A40RT001 | RX-20B | ASPHALT COLD PLANER, 40" W X 10" D, WHEEL (ADD CUTTING TEETH COSTS) | 230 HP | D-off | | $335,770 | 154.18 | 27.35 | 43.29 | 5.70 | 30.22 | 324 |
| | A40RT002 | RX-25 | ASPHALT COLD PLANER, 52" W X 8" D, CRAWLER (ADD CUTTING TEETH COSTS) | 250 HP | D-off | | $438,581 | 195.47 | 36.68 | 58.48 | 7.44 | 32.85 | 420 |
| | A40RT003 | RX-45B | ASPHALT COLD PLANER, 78" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 460 HP | D-off | | $537,818 | 262.58 | 44.98 | 71.71 | 9.12 | 60.44 | 617 |
| | A40RT005 | RX-68B | ASPHALT COLD PLANER, 98" W X 12" D, CRAWLER (ADD CUTTING TEETH COSTS) | 800 HP | D-off | | $732,546 | 383.54 | 61.27 | 97.67 | 12.43 | 105.12 | 830 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *A40* | | | *ROADTEC ( ASTEC INDUSTRIES COMPANY) (continued)* | | | | | | | | | |
| | A40RT006 | RX-70B | ASPHALT COLD PLANER, 150" W X 8" D, CRAWLER (ADD CUTTING TEETH COSTS) | 800 HP D-off | | $811,319 | 411.95 | 67.85 | 108.18 | 13.76 | 105.12 | 920 |
| **A45** | **ASPHALT RECYCLERS & SEALERS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ASPHALT RECYCLERS & SEALERS** | | | | | | | | | |
| | | | **AEROIL PRODUCTS COMPANY, INC.** | | | | | | | | | |
| | A45AE001 | HEPR-52V | ASPHALT RESURFACER-PATCHER, 4' WIDE, 17.3 SF, 600,000 BTU INFRA-RED HEATER, TRAILER MTD | | | $9,302 | 10.80 | 0.88 | 1.44 | 0.16 | 0.00 | 11 |
| | A45AE002 | HEPR-96V | ASPHALT RESURFACER-PATCHER, 8' WIDE, 32.0 SF, 1,200,000 BTU INFRA-RED HEATER, TRAILER MTD | | | $18,064 | 21.51 | 1.74 | 2.84 | 0.32 | 0.00 | 16 |
| | A45AE003 | HEPR-120V | ASPHALT RESURFACER-PATCHER, 10' WIDE, 40.0 SF, 1,420,000 BTU INFRA-RED HEATER, TRAILER MTD | | | $21,255 | 25.39 | 2.05 | 3.35 | 0.37 | 0.00 | 17 |
| | | | **ROSCO, A LeeBoy COMPANY** | | | | | | | | | |
| | A45RS001 | RA-2000 | ASPHALT SPRAY PATCHER, 300 GAL, ARTICULATED BOOM - 17' R, TRAILER MTD | 80 HP D-off | | $48,608 | 28.28 | 4.70 | 7.69 | 0.85 | 7.24 | 60 |
| | A45RS002 | RA-300 | ASPHALT SPRAY PATCHER, 400 GAL, TELESCOPIC BOOM - 22' EXT, TRUCK MTD | 210 HP D-on | | $155,830 | 88.97 | 15.19 | 24.93 | 2.72 | 22.39 | 179 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SEALMASTER, INC.** | | | | | | | | | | |
| | A45SE003 | SP300 DUAL | ASPHALT SEALCOATER, 320 GAL, 75 GPM, 108" WIDE DUAL SPRAY, SQUEEGEE, SELF PROPELLED | 30 HP | D-off | | $38,222 | 20.51 | 3.69 | 6.03 | 0.67 | 2.72 | 43 |
| | A45SE004 | TR-1000 | ASPHALT SEALCOATER, 1000 GAL, 50 GPM, 88" WIDE SPRAY BAR, TRAILER MTD | 13 HP | G | | $24,642 | 13.07 | 2.32 | 3.77 | 0.43 | 2.43 | 52 |
| B10 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | |
| | **SUBCATEGORY 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 HP | G | | $48,400 | 20.07 | 3.16 | 4.74 | 0.79 | 3.37 | 80 |
| | B10CC008 | MCD5-100H | BATCH PLANT, CONCRETE DISPENSER, 30 CY/HR MAX, W/TWO AGGREGATE BINS, 5.5 CY/ 1.9 CY CEMENT BIN/ 9' LONG SLOPING 9" DIA SCREW WET MIXER/DELIVERER/ 250 GAL WATER TANK/ & METERING PUMP, 5 CY LOAD, TRUCK MTD | 163 HP | G | | $131,447 | 74.72 | 8.55 | 12.81 | 2.14 | 30.49 | 132 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B10* | | | *CEMEN TECH (continued)* | | | | | | | | | | |
| | B10CC009 | MCD8-100H | BATCH PLANT, CONCRETE DISPENSER, 30 CY/HR MAX, W/TWO AGGREGATE BINS, 9.3 CY/ 3.1 CY CEMENT BIN/ 9' LONG SLOPING 12" DIA SCREW WET MIXER/DELIVERER/ 250 GAL WATER TANK/ & METERING PUMP, 8 CY LOAD, TRUCK MTD | 200 HP | G | | $148,472 | 87.70 | 9.57 | 14.30 | 2.42 | 37.41 | 194 |
| | B10CC010 | MCD8-150H | 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 | | $159,966 | 91.10 | 10.34 | 15.45 | 2.61 | 37.41 | 204 |
| | B10CC012 | 210 BBL | BATCH PLANT, SILO, CEMENT, 830 CF, 210 BARREL (BATCH PLANT ATTACHMENT) | 18 HP | G | | $22,056 | 10.69 | 1.47 | 2.21 | 0.36 | 3.37 | 35 |
| | B10CC011 | HS-240 | BATCH PLANT, SILO, CEMENT, 38 TON HORIZONTAL 240 BARREL (BATCH PLANT ATTACHMENT) | 20 HP | E | | $22,505 | 9.12 | 1.50 | 2.25 | 0.37 | 1.26 | 45 |
| | B10CC013 | 300 BBL | BATCH PLANT, SILO, CEMENT, 1,200 CF, 300 BARRL (BATCH PLANT ATTACHMENT) | 18 HP | G | | $26,709 | 12.01 | 1.78 | 2.67 | 0.44 | 3.37 | 48 |
| | B10CC014 | | BATCH PLANT, CEMENT LOADING AUGER, 6" DIA, 19' LONG (BATCH PLANT ATTACHMENT) | 5 HP | E | | $6,899 | 2.88 | 0.46 | 0.69 | 0.11 | 0.32 | 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 | E | | $281,178 | 96.41 | 18.57 | 27.95 | 4.59 | 12.61 | 130 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B10* | | | *CON-E-CO (continued)* | | | | | | | | | | |
| | B10CL021 | VERSA-PLANT 10 | BATCH PLANT, CONCRETE AGGREGATE DRY, 40CY/HR, 10 CY AGGREGATE BATCHER, W/30" X 40' LOADING CONVEYOR, SCALES & WATER METER INCLUDED, TRAILER MTD (ADD 5 KW GENERATOR, WATER TANK & WET BATCHER) | 35 HP | E | | $88,413 | 27.43 | 5.71 | 8.54 | 1.44 | 2.21 | 190 |
| | B10CL015 | PLP MODEL 12 | BATCH PLANT, CONCRETE AGGREGATE DRY, 200 CY/HR, W/TWO AGGREGATE BINS, 81 TON, 60 CY/ 36"X20' CONVEYOR/ 3 BIN 12 CY AGGREGATE BATCHER/ 30"X33.5' LOADING CONVEYOR/ & 475 BARREL, 88 TON CEMENT SILO, TRAILER MTD (ADD 110 KW GENERATOR) | 30 HP | E | | $165,071 | 50.29 | 10.68 | 15.98 | 2.69 | 1.89 | 380 |
| | B10CL005 | LO-PRO 10 | BATCH PLANT, CONCRETE AGGREGATE DRY, 275 CY/HR, W/TWO AGGREGATE BINS, 65 TON, 50 CY/ 36"X20' CONVEYOR/ 10 CY AGGREGATE BATCHER/ 36"X36' LOADING CONVEYOR/ & 215 BARREL, 35 TON CEMENT SILO, TRAILER MTD (ADD 140 KW GENERATOR) | 120 HP | E | | $306,577 | 97.33 | 20.05 | 30.10 | 5.00 | 7.57 | 410 |
| | 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 | | $311,743 | 98.74 | 20.40 | 30.61 | 5.09 | 7.57 | 426 |
| | B10CL027 | | BATCH PLANT, CEMENT SILO, 1,910 CF, 475 BARREL (BATCH PLANT ATTACHMENT) | | | | $23,040 | 6.31 | 1.53 | 2.30 | 0.38 | 0.00 | 144 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B10* | | | *CON-E-CO (continued)* | | | | | | | | | |
| | B10CL042 | | BATCH PLANT, SCREW CONVEYOR, 6" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 5 HP E | | $3,310 | 1.39 | 0.22 | 0.33 | 0.05 | 0.32 | 5 |
| | B10CL045 | | BATCH PLANT, SCREW CONVEYOR, 6" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 10 HP E | | $4,292 | 2.15 | 0.29 | 0.43 | 0.07 | 0.63 | 11 |
| | B10CL036 | | BATCH PLANT, SCREW CONVEYOR, 9" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 8 HP E | | $3,664 | 1.78 | 0.25 | 0.37 | 0.06 | 0.50 | 9 |
| | B10CL040 | | BATCH PLANT, SCREW CONVEYOR, 9" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 20 HP E | | $5,111 | 3.35 | 0.34 | 0.51 | 0.08 | 1.26 | 16 |
| | B10CL032 | | BATCH PLANT, SCREW CONVEYOR, 12" DIA, 10' LONG (CEMENT SILO ATTACHMENT) | 10 HP E | | $4,375 | 2.17 | 0.29 | 0.44 | 0.07 | 0.63 | 10 |
| | B10CL034 | | BATCH PLANT, SCREW CONVEYOR, 12" DIA, 20' LONG (CEMENT SILO ATTACHMENT) | 20 HP E | | $8,750 | 4.35 | 0.58 | 0.88 | 0.14 | 1.26 | 20 |
| | | | **EXCEL MACHINERY LTD.** | | | | | | | | | |
| | B10EM001 | EXCEL PORT-A-PUG | BATCH PLANT, CONCRETE CONTINUOUS PUGG MILL MIXER, 400 CY/HR MAX, W/12 CY AGGREGATE STORAGE BIN/ 48"X18' METERING CONVEYOR/ CEMENT SILO, 44 TON, 34.8 CY/ 30" X 37' CONVEYOR, TRAILER MTD (ADD 200 KW GENERATOR) | 25 HP G | | $438,827 | 127.53 | 28.64 | 42.96 | 7.16 | 4.68 | 590 |
| | B10EM002 | | BATCH PLANT, CEMENT SILO, 45 TON HORIZONTAL 350 BARREL (BATCH PLANT ATTACHMENT) | 10 HP E | | $30,768 | 10.20 | 1.91 | 2.81 | 0.50 | 0.63 | 45 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B10* | | | *EXCEL MACHINERY LTD. (continued)* | | | | | | | | | | |
| | B10EM003 | | BATCH PLANT, CEMENT SILO, 2,200 CF (BARREL CAP 550 MAX / 450 MIN) W/DRIVE-THRU TYPE UNDERSTRUCTURE (BATCH PLANT ATTACHMENT) | | | | $30,348 | 8.32 | 2.02 | 3.03 | 0.50 | 0.00 | 222 |
| | | | **JOHNSON-ROSS (TEREX ROADBUILDING)** | | | | | | | | | | |
| | B10RC007 | BANDIT 5 | BATCH PLANT, CONCRETE AGGREGATE DRY, 100 CY/HR, W/TWO AGGREGATE BINS, 65 TON, 48 CY/ 36" X 20' CONVEYOR/ 2 BIN 5 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 257 BARREL, 48 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 15 HP | E | | $142,796 | 42.86 | 9.30 | 13.93 | 2.33 | 0.95 | 3,000 |
| | B10RC032 | RUSTLER III | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/TWO AGGREGATE BINS, 28 TON, 21 CY/ 2 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 400 BARREL, 75 TON CEMENT SILO, TRAILER MTD (ADD 130 KW GENERATOR) | 50 HP | E | | $214,142 | 67.60 | 13.90 | 20.82 | 3.49 | 3.15 | 536 |
| | B10RC006 | RUSTLER II | BATCH PLANT, CONCRETE AGGREGATE DRY, 160 CY/HR, W/3 AGGREGATE BINS, 71 TON, 52 CY/ 36" X 20' CONVEYOR/ 3 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ 375 BARREL, 70 TON CEMENT SILO, TRAILER MTD (ADD 130KW GENERATOR) | 46 HP | E | | $200,197 | 63.37 | 12.99 | 19.43 | 3.27 | 2.87 | 489 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B10* | | | *JOHNSON-ROSS (TEREX ROADBUILDING) (continued)* | | | | | | | | | | |
| | B10RC008 | BANDIT 12 BTR | BATCH PLANT, CONCRETE AGGREGATE DRY, 200 CY/HR, W/THREE AGGREGATE BINS, 65 TON, 48 CY/ 36" X 20' CONVEYOR/ 3 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 720 BARREL, 134 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 30 HP | E | | $166,855 | 50.90 | 10.89 | 16.33 | 2.72 | 1.89 | 250 |
| | B10RC027 | | BATCH PLANT, CONCRETE MIXER, 4.5 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 40 HP | E | | $149,495 | 46.86 | 9.92 | 14.95 | 2.44 | 2.52 | 34 |
| | B10RC028 | | BATCH PLANT, CONCRETE MIXER, 6.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 60 HP | E | | $168,002 | 54.13 | 11.14 | 16.80 | 2.74 | 3.78 | 45 |
| | B10RC029 | | BATCH PLANT, CONCRETE MIXER, 8.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 80 HP | E | | $189,974 | 62.35 | 12.60 | 19.00 | 3.10 | 5.04 | 60 |
| | B10RC030 | | BATCH PLANT, CONCRETE MIXER, 10.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 100 HP | E | | $207,090 | 70.25 | 13.74 | 20.71 | 3.38 | 6.31 | 75 |
| | B10RC031 | | BATCH PLANT, CONCRETE MIXER, 12.0 CY, TILT DRUM, SKID MTD (ADD DRY BATCH PLANT) | 120 HP | E | | $218,754 | 75.65 | 14.51 | 21.88 | 3.57 | 7.57 | 90 |
| | B10RC016 | MOBILE MIXER | BATCH PLANT, CONCRETE MIXER, 4.5CY, TILT DRUM TYPE, REVOLVING LIFT STAND, TRAILER MTD (ADD DRY BATCH PLANT & POWER) | 75 HP | E | | $244,585 | 79.40 | 15.93 | 23.87 | 3.99 | 4.73 | 420 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **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 | | $80,118 | 25.28 | 4.99 | 7.36 | 1.31 | 1.58 | 340 |
| | B10SN033 | DC COLT | BATCH PLANT, CONCRETE AGGREGATE DRY, 100 CY/HR, W/2 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 311 BARREL, 58 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 30 HP | E | | $147,243 | 44.30 | 9.44 | 14.08 | 2.40 | 1.89 | 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 | | $121,203 | 37.41 | 7.71 | 11.46 | 1.98 | 1.89 | 420 |
| | 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 HP | E | | $159,671 | 46.74 | 10.27 | 15.31 | 2.61 | 1.26 | 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 HP | E | | $157,846 | 48.92 | 10.15 | 15.13 | 2.58 | 2.84 | 500 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B10* | | | *STEPHENS MANUFACTURING CO., INC. (continued)* | | | | | | | | | | |
| | B10SN035 | THOROUGH-BRED | BATCH PLANT, CONCRETE AGGREGATE DRY, 180 CY/HR, W/4 AGGREGATE BIN STORAGE, 65 TON, 48 CY/ 2 BIN 12 CY BATCHER/ 30" X 33.5' LOADING CONVEYOR/ & 374 BARREL, 70 TON CEMENT SILO, TRAILER MTD (ADD 100 KW GENERATOR) | 30 HP | E | | $167,080 | 49.89 | 10.76 | 16.05 | 2.73 | 1.89 | 300 |
| | **SUBCATEGORY 0.30** | | **PUGMILL** | | | | | | | | | | |
| | | | **KOLBERG - 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 HP | E | | $176,052 | 48.29 | 9.71 | 13.82 | 2.80 | 5.99 | 190 |
| | 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 | E | | $312,348 | 90.71 | 17.32 | 24.69 | 4.97 | 13.87 | 230 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B15** | **BROOMS, STREET SWEEPERS & FLUSHERS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **BROOMS, STREET SWEEPERS & FLUSHERS** | | | | | | | | | |
| | | | **BROCE MANUFACTURING COMPANY** | | | | | | | | | |
| | B15BM001 | RJ-350 | BROOM, 8' BROOM PATH, PAVEMENT, SELF PROPELLED | 80 HP D-off | | $45,908 | 19.86 | 3.29 | 5.16 | 0.71 | 7.24 | 45 |
| | | | **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 | | $126,936 | 42.50 | 9.01 | 14.12 | 1.95 | 9.05 | 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 | $191,422 | 57.71 | 13.57 | 21.25 | 2.94 | 7.95 | 150 |
| | B15EC003 | BROOM BEAR FL42H | STREET SWEEPER, 12' BROOM PATH, 4.5 CY HOPPER, 350 GAL WATER TANK, SELF PROPELLED | 230 HP D-off | | $180,429 | 69.40 | 12.90 | 20.25 | 2.77 | 20.82 | 213 |
| | | | **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) | | | $8,158 | 2.17 | 0.59 | 0.92 | 0.13 | 0.00 | 10 |
| | B15MB002 | HT | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, PTO DRIVE (ADD 45-100 HP TRACTOR) | | | $9,854 | 2.64 | 0.71 | 1.11 | 0.15 | 0.00 | 12 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B15* | | | *M-B COMPANIES, INC. (continued)* | | | | | | | | | |
| | B15MB003 | 53T | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, TOWED, HYDRAULIC (ADD TOWING UNIT) | | | $14,343 | 3.86 | 1.00 | 1.56 | 0.22 | 0.00 | 18 |
| | B15MB004 | 53MH | STREET SWEEPER, 7' BROOM PATH, W/SPRINKLER AND 152 GAL WATER TANK, TOWED (ADD TOWING UNIT) | 18 HP G | | $16,503 | 7.92 | 1.15 | 1.80 | 0.25 | 3.37 | 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 | | $52,945 | 21.67 | 3.75 | 5.87 | 0.81 | 7.24 | 75 |
| | B15RS001 | RB-48 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 150 GAL WATER TANK, SELF PROPELLED | 80 HP D-off | | $40,655 | 18.54 | 2.88 | 4.52 | 0.62 | 7.24 | 52 |
| | | | **TERRAMITE CONSTRUCTION EQUIPMENT** | | | | | | | | | |
| | B15TB001 | TSS46 | STREET SWEEPER, 6' BROOM PATH, W/SPRINKLER AND 2 - 50 GAL WATER TANKS, SELF PROPELLED | 37 HP D-off | | $23,229 | 9.72 | 1.64 | 2.56 | 0.36 | 3.35 | 34 |
| | B15TB002 | TSS48 | STREET SWEEPER, 8' BROOM PATH, W/SPRINKLER AND 2 - 50 GAL WATER TANKS, SELF PROPELLED | 37 HP D-off | | $23,373 | 9.76 | 1.65 | 2.58 | 0.36 | 3.35 | 34 |
| | | | **WALDON, INC.** | | | | | | | | | |
| | B15WD001 | SWEEPMASTER 250 | BROOM, 7.5' BROOM PATH, PAVEMENT, SELF PROPELLED | 80 HP D-off | | $36,466 | 17.49 | 2.59 | 4.05 | 0.56 | 7.24 | 48 |
| | B15WD002 | SWEEPMASTER 250 | BROOM, 90" BROOM PATH, PAVEMENT, W/SPRINKLER AND 180 GAL WATER TANK, SELF PROPELLED | 80 HP D-off | | $37,781 | 17.82 | 2.68 | 4.20 | 0.58 | 7.24 | 48 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B20** | **BRUSH CHIPPERS** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **BRUSH CHIPPERS** | | | | | | | | | | |
| | | | **BANDIT INDUSTRIES, INC.** | | | | | | | | | | |
| | B20BN001 | 65 | BRUSH CHIPPER, 6" CAPACITY, DISC TYPE, TRAILER MTD | 25 HP | G | | $11,527 | 8.51 | 0.82 | 1.28 | 0.18 | 4.68 | 20 |
| | B20BN002 | 90W-XP | BRUSH CHIPPER, 9" CAPACITY, DISC TYPE, TRAILER MTD | 71 HP | G | | $18,349 | 20.26 | 1.30 | 2.03 | 0.28 | 13.28 | 32 |
| | B20BN003 | 200XP | BRUSH CHIPPER, 12" CAPACITY, DISC TYPE, TRAILER MTD | 140 HP | G | | $23,413 | 36.52 | 1.66 | 2.59 | 0.36 | 26.18 | 58 |
| | B20BN005 | 1290 | BRUSH CHIPPER, 12" CAPACITY, DRUM TYPE, TRAILER MTD | 70 HP | G | | $20,096 | 20.52 | 1.42 | 2.22 | 0.31 | 13.09 | 44 |
| | B20BN006 | 1690 | BRUSH CHIPPER, 16" CAPACITY, DRUM TYPE, TRAILER MTD | 119 HP | G | | $22,226 | 31.68 | 1.57 | 2.46 | 0.34 | 22.26 | 44 |
| | B20BN007 | 1890 | BRUSH CHIPPER, 18" CAPACITY, DRUM TYPE, TRAILER MTD | 125 HP | D-off | | $40,520 | 23.73 | 2.84 | 4.44 | 0.62 | 11.32 | 78 |
| | | | **MORBARK, INC.** | | | | | | | | | | |
| | B20MQ001 | 2070XL | BRUSH CHIPPER, 10" CAPACITY, DRUM TYPE, TRAILER MTD | 86 HP | D-off | | $22,625 | 14.93 | 1.62 | 2.54 | 0.35 | 7.78 | 40 |
| | B20MQ003 | 13 | BRUSH CHIPPER, 13" CAPACITY, DRUM TYPE, TRAILER MTD | 140 HP | D-off | | $31,646 | 22.91 | 2.25 | 3.52 | 0.49 | 12.67 | 68 |
| | B20MQ004 | 2400XL | BRUSH CHIPPER, 18" CAPACITY, DRUM TYPE, TRAILER MTD | 250 HP | D-off | | $37,176 | 35.68 | 2.60 | 4.05 | 0.57 | 22.63 | 94 |
| | B20MQ005 | 22 RXL | BRUSH CHIPPER, LOG CHIPPER, 22" CAPACITY, DISC TYPE, TRAILER MTD | 650 HP | D-off | | $391,664 | 173.70 | 27.88 | 43.72 | 6.02 | 58.84 | 700 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B25 | BUCKETS, CLAMSHELL | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **BUCKETS, CLAMSHELL** | | | | | | | | | |
| | | | **HAWCO MANUFACTURING COMPANY, LLC** | | | | | | | | | |
| | B25HB001 | HD-050 | BUCKET, CLAMSHELL, 0.5 CY, HEAVY DUTY/DIGGING | | | $19,431 | 4.54 | 1.40 | 2.19 | 0.30 | 0.00 | 30 |
| | B25HB003 | HD-100 | BUCKET, CLAMSHELL, 1.0 CY, HEAVY DUTY/DIGGING | | | $31,214 | 7.28 | 2.24 | 3.51 | 0.48 | 0.00 | 48 |
| | B25HB005 | HD-150 | BUCKET, CLAMSHELL, 1.5 CY, HEAVY DUTY/DIGGING | | | $40,582 | 9.46 | 2.91 | 4.57 | 0.62 | 0.00 | 66 |
| | B25HB007 | HD-200 | BUCKET, CLAMSHELL, 2.0 CY, HEAVY DUTY/DIGGING | | | $47,908 | 11.17 | 3.44 | 5.39 | 0.74 | 0.00 | 78 |
| | B25HB008 | HD-250 | BUCKET, CLAMSHELL, 2.5 CY, HEAVY DUTY/DIGGING | | | $55,844 | 13.02 | 4.00 | 6.28 | 0.86 | 0.00 | 91 |
| | B25HB009 | HD-300 | BUCKET, CLAMSHELL, 3.0 CY, HEAVY DUTY/DIGGING | | | $61,550 | 14.35 | 4.41 | 6.92 | 0.95 | 0.00 | 103 |
| | B25HB010 | HD-350 | BUCKET, CLAMSHELL, 3.5 CY, HEAVY DUTY/DIGGING | | | $65,048 | 15.17 | 4.66 | 7.32 | 1.00 | 0.00 | 131 |
| | B25HB011 | HD-400 | BUCKET, CLAMSHELL, 4.0 CY, HEAVY DUTY/DIGGING | | | $66,915 | 15.60 | 4.80 | 7.53 | 1.03 | 0.00 | 145 |
| | B25HB012 | HD-450 | BUCKET, CLAMSHELL, 4.5 CY, HEAVY DUTY/DIGGING | | | $70,901 | 16.53 | 5.08 | 7.98 | 1.09 | 0.00 | 165 |
| | B25HB013 | HD-500 | BUCKET, CLAMSHELL, 5.0 CY, HEAVY DUTY/DIGGING | | | $73,251 | 17.08 | 5.25 | 8.24 | 1.13 | 0.00 | 173 |
| | B25HB014 | HD-550 | BUCKET, CLAMSHELL, 5.5 CY, HEAVY DUTY/DIGGING | | | $76,497 | 17.84 | 5.49 | 8.61 | 1.18 | 0.00 | 178 |
| | B25HB015 | HD-600 | BUCKET, CLAMSHELL, 6.0 CY, HEAVY DUTY/DIGGING | | | $79,407 | 18.51 | 5.69 | 8.93 | 1.22 | 0.00 | 199 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | | |
| | B25XX001 | 1/4SSN | BUCKET, CLAMSHELL, 0.2 CY, SQUARE NOSE, STANDARD | | | $8,785 | 2.04 | 0.63 | 0.99 | 0.13 | 0.00 | 14 |
| | B25XX002 | 1/2SSN | BUCKET, CLAMSHELL, 0.5 CY, SQUARE NOSE, STANDARD | | | $13,082 | 3.05 | 0.94 | 1.47 | 0.20 | 0.00 | 27 |
| | B25XX003 | 3/4SSN | BUCKET, CLAMSHELL, 0.7 CY, SQUARE NOSE, STANDARD | | | $16,148 | 3.77 | 1.16 | 1.82 | 0.25 | 0.00 | 35 |
| | B25XX004 | 1SSN | BUCKET, CLAMSHELL, 1.0 CY, SQUARE NOSE, STANDARD | | | $17,733 | 4.13 | 1.27 | 1.99 | 0.27 | 0.00 | 43 |
| | B25XX005 | 1-1/4SSN | BUCKET, CLAMSHELL, 1.2 CY, SQUARE NOSE, STANDARD | | | $20,648 | 4.81 | 1.48 | 2.32 | 0.32 | 0.00 | 49 |
| | B25XX006 | 1-1/2SSN | BUCKET, CLAMSHELL, 1.5 CY, SQUARE NOSE, STANDARD | | | $23,330 | 5.44 | 1.67 | 2.62 | 0.36 | 0.00 | 64 |
| | B25XX007 | 1-3/4SSN | BUCKET, CLAMSHELL, 1.7 CY, SQUARE NOSE, STANDARD | | | $24,901 | 5.80 | 1.78 | 2.80 | 0.38 | 0.00 | 67 |
| | B25XX008 | 2SSN | BUCKET, CLAMSHELL, 2.0 CY, SQUARE NOSE, STANDARD | | | $29,075 | 6.78 | 2.09 | 3.27 | 0.45 | 0.00 | 76 |
| | B25XX009 | 2-1/2SSN | BUCKET, CLAMSHELL, 2.5 CY, SQUARE NOSE, STANDARD | | | $30,662 | 7.15 | 2.20 | 3.45 | 0.47 | 0.00 | 92 |
| | B25XX010 | 3SSN | BUCKET, CLAMSHELL, 3.0 CY, SQUARE NOSE, STANDARD | | | $32,655 | 7.61 | 2.34 | 3.67 | 0.50 | 0.00 | 98 |
| | B25XX011 | 3-1/2SSN | BUCKET, CLAMSHELL, 3.5 CY, SQUARE NOSE, STANDARD | | | $34,279 | 8.00 | 2.46 | 3.86 | 0.53 | 0.00 | 108 |
| | B25XX012 | 4SSN | BUCKET, CLAMSHELL, 4.0 CY, SQUARE NOSE, STANDARD | | | $38,273 | 8.93 | 2.75 | 4.31 | 0.59 | 0.00 | 119 |
| | B25XX013 | 4-1/2SSN | BUCKET, CLAMSHELL, 4.5 CY, SQUARE NOSE, STANDARD | | | $51,354 | 11.98 | 3.68 | 5.78 | 0.79 | 0.00 | 145 |
| | B25XX014 | 5SSN | BUCKET, CLAMSHELL, 5.0 CY, SQUARE NOSE, STANDARD | | | $54,798 | 12.77 | 3.92 | 6.16 | 0.84 | 0.00 | 154 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B25* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | |
| | B25XX015 | 5-1/2SSN | BUCKET, CLAMSHELL, 5.5 CY, SQUARE NOSE, STANDARD | | | $65,925 | 15.37 | 4.72 | 7.42 | 1.01 | 0.00 | 158 |
| | B25XX016 | 6SSN | BUCKET, CLAMSHELL, 6.0 CY, SQUARE NOSE, STANDARD | | | $66,543 | 15.51 | 4.77 | 7.49 | 1.02 | 0.00 | 166 |
| | B25XX017 | 6-1/2SSN | BUCKET, CLAMSHELL, 6.5 CY, SQUARE NOSE, STANDARD | | | $71,832 | 16.74 | 5.14 | 8.08 | 1.10 | 0.00 | 177 |
| | B25XX018 | 7SSN | BUCKET, CLAMSHELL, 7.0 CY, SQUARE NOSE, STANDARD | | | $68,336 | 15.93 | 4.90 | 7.69 | 1.05 | 0.00 | 185 |
| | B25XX019 | 7-1/2SSN | BUCKET, CLAMSHELL, 7.5 CY, SQUARE NOSE, STANDARD | | | $76,314 | 17.79 | 5.47 | 8.59 | 1.17 | 0.00 | 192 |
| **B30** | **BUCKETS, CONCRETE** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **GENERAL PURPOSE, MANUAL TRIP** | | | | | | | | | |
| | | | **GAR-BRO MANUFACTURING COMPANY** | | | | | | | | | |
| | B30GB018 | 413-G | BUCKET, CONCRETE, GENERAL PURPOSE, 0.5 CY | | | $3,304 | 0.79 | 0.25 | 0.39 | 0.05 | 0.00 | 4 |
| | B30GB001 | 433-G | BUCKET, CONCRETE, GENERAL PURPOSE, 1.0 CY | | | $4,168 | 0.99 | 0.31 | 0.49 | 0.06 | 0.00 | 6 |
| | B30GB002 | 442-G | BUCKET, CONCRETE, GENERAL PURPOSE, 1.5 CY | | | $5,455 | 1.30 | 0.41 | 0.65 | 0.08 | 0.00 | 8 |
| | B30GB003 | 462-G | BUCKET, CONCRETE, GENERAL PURPOSE, 2.0 CY | | | $6,727 | 1.61 | 0.50 | 0.80 | 0.10 | 0.00 | 10 |
| | B30GB004 | 493-G | BUCKET, CONCRETE, GENERAL PURPOSE, 3.0 CY | | | $9,722 | 2.31 | 0.72 | 1.15 | 0.14 | 0.00 | 14 |
| | B30GB005 | 4123-G | BUCKET, CONCRETE, GENERAL PURPOSE, 4.0 CY | | | $11,617 | 2.77 | 0.86 | 1.38 | 0.17 | 0.00 | 18 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.20** | | **LAYDOWN** | | | | | | | | | |
| | | | **GAR-BRO MANUFACTURING COMPANY** | | | | | | | | | |
| | B30GB006 | 425-A | BUCKET, CONCRETE, LAYDOWN, 1.0 CY, HEAVY DUTY AIR GATE | | | $21,385 | 5.27 | 1.59 | 2.54 | 0.32 | 0.00 | 26 |
| | B30GB007 | 465-A | BUCKET, CONCRETE, LAYDOWN, 2.0 CY, HEAVY DUTY AIR GATE | | | $23,196 | 5.72 | 1.73 | 2.75 | 0.35 | 0.00 | 32 |
| | B30GB008 | 495-A | BUCKET, CONCRETE, LAYDOWN, 3.0 CY, HEAVY DUTY AIR GATE | | | $25,764 | 6.34 | 1.91 | 3.06 | 0.38 | 0.00 | 40 |
| | B30GB009 | 4125-A | BUCKET, CONCRETE, LAYDOWN, 4.0 CY, HEAVY DUTY AIR GATE | | | $29,449 | 7.26 | 2.19 | 3.50 | 0.44 | 0.00 | 51 |
| | B30GB010 | 4155-A | BUCKET, CONCRETE, LAYDOWN, 5.0 CY, HEAVY DUTY AIR GATE | | | $36,499 | 8.99 | 2.71 | 4.33 | 0.54 | 0.00 | 73 |
| | **SUBCATEGORY 0.30** | | **LOWBOY** | | | | | | | | | |
| | | | **CAMLEVER** | | | | | | | | | |
| | B30CR001 | LB-375 | BUCKET, CONCRETE, LOWBOY, 0.38 CY, AIR GATE | | | $4,910 | 1.24 | 0.36 | 0.58 | 0.07 | 0.00 | 2 |
| | B30CR002 | LB-050 | BUCKET, CONCRETE, LOWBOY, 0.5 CY, AIR GATE | | | $5,263 | 1.33 | 0.39 | 0.62 | 0.08 | 0.00 | 2 |
| | B30CR003 | LB-075 | BUCKET, CONCRETE, LOWBOY, 0.75 CY, AIR GATE | | | $5,689 | 1.44 | 0.42 | 0.68 | 0.08 | 0.00 | 3 |
| | B30CR004 | LB-100 | BUCKET, CONCRETE, LOWBOY, 1.0 CY, AIR GATE | | | $5,897 | 1.50 | 0.44 | 0.70 | 0.09 | 0.00 | 5 |
| | B30CR005 | LB-150 | BUCKET, CONCRETE, LOWBOY, 1.5 CY, AIR GATE | | | $6,944 | 1.76 | 0.51 | 0.82 | 0.10 | 0.00 | 6 |
| | B30CR009 | LXB-150 | BUCKET, CONCRETE, LOWBOY, 1.5 CY, AIR GATE | | | $7,304 | 1.86 | 0.55 | 0.87 | 0.11 | 0.00 | 6 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B30* | | | *CAMLEVER (continued)* | | | | | | | | | |
| | B30CR006 | LB-200 | BUCKET, CONCRETE, LOWBOY, 2.0 CY, AIR GATE | | | $8,174 | 2.07 | 0.61 | 0.97 | 0.12 | 0.00 | 8 |
| | B30CR010 | LXB-200 | BUCKET, CONCRETE, LOWBOY, 2.0 CY, AIR GATE | | | $8,512 | 2.16 | 0.64 | 1.01 | 0.13 | 0.00 | 6 |
| | B30CR011 | LXB-300 | BUCKET, CONCRETE, LOWBOY, 3.0 CY, AIR GATE | | | $10,079 | 2.56 | 0.75 | 1.20 | 0.15 | 0.00 | 6 |
| | B30CR012 | LXB-400 | BUCKET, CONCRETE, LOWBOY, 4.0 CY, AIR GATE | | | $11,634 | 2.95 | 0.86 | 1.38 | 0.17 | 0.00 | 6 |
| | **SUBCATEGORY 0.40** | | **LOW SLUMP** | | | | | | | | | |
| | | | **GAR-BRO MANUFACTURING COMPANY** | | | | | | | | | |
| | B30GB011 | 440-A | BUCKET, CONCRETE, LOW SLUMP, 1.0 CY, AIR GATE | | | $16,916 | 4.29 | 1.26 | 2.01 | 0.25 | 0.00 | 20 |
| | B30GB012 | 450-A | BUCKET, CONCRETE, LOW SLUMP, 1.5 CY, AIR GATE | | | $17,542 | 4.45 | 1.30 | 2.08 | 0.26 | 0.00 | 21 |
| | B30GB013 | 460-A | BUCKET, CONCRETE, LOW SLUMP, 2.0 CY, AIR GATE | | | $18,217 | 4.62 | 1.35 | 2.16 | 0.27 | 0.00 | 24 |
| | B30GB014 | 493-A | BUCKET, CONCRETE, LOW SLUMP, 3.0 CY, AIR GATE | | | $24,106 | 6.12 | 1.79 | 2.86 | 0.36 | 0.00 | 49 |
| | B30GB015 | 4139-A | BUCKET, CONCRETE, LOW SLUMP, 4.0 CY, AIR GATE | | | $24,987 | 6.34 | 1.86 | 2.97 | 0.37 | 0.00 | 52 |
| | B30GB016 | 4200-A | BUCKET, CONCRETE, LOW SLUMP, 6.0 CY, AIR GATE | | | $35,942 | 9.12 | 2.67 | 4.27 | 0.53 | 0.00 | 78 |
| | B30GB017 | 4250-A | BUCKET, CONCRETE, LOW SLUMP, 8.0 CY, AIR GATE | | | $43,199 | 10.96 | 3.21 | 5.13 | 0.64 | 0.00 | 90 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B35 | BUCKETS, DRAGLINE | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **LIGHT WEIGHT** | | | | | | | | | |
| | | | **HENDRIX MANUFACTURING COMPANY, INC.** | | | | | | | | | |
| | B35HE001 | LS | BUCKET, DRAGLINE, 0.75 CY, LIGHT WEIGHT/PERFORATED | | | $8,025 | 1.86 | 0.57 | 0.90 | 0.12 | 0.00 | 15 |
| | B35HE002 | LS | BUCKET, DRAGLINE, 1.0 CY, LIGHT WEIGHT/PERFORATED | | | $9,409 | 2.19 | 0.67 | 1.06 | 0.14 | 0.00 | 18 |
| | B35HE003 | LS | BUCKET, DRAGLINE, 1.5 CY, LIGHT WEIGHT/PERFORATED | | | $13,335 | 3.10 | 0.95 | 1.50 | 0.20 | 0.00 | 26 |
| | B35HE004 | LS | BUCKET, DRAGLINE, 2.0 CY, LIGHT WEIGHT/PERFORATED | | | $16,104 | 3.75 | 1.16 | 1.81 | 0.25 | 0.00 | 32 |
| | B35HE005 | LS | BUCKET, DRAGLINE, 2.5 CY, LIGHT WEIGHT/PERFORATED | | | $18,445 | 4.30 | 1.32 | 2.08 | 0.28 | 0.00 | 37 |
| | B35HE006 | LS | BUCKET, DRAGLINE, 3.0 CY, LIGHT WEIGHT/PERFORATED | | | $23,000 | 5.36 | 1.65 | 2.59 | 0.35 | 0.00 | 46 |
| | B35HE007 | LS | BUCKET, DRAGLINE, 3.5 CY, LIGHT WEIGHT/PERFORATED | | | $25,013 | 5.82 | 1.79 | 2.81 | 0.38 | 0.00 | 50 |
| | B35HE008 | LS | BUCKET, DRAGLINE, 4.0 CY, LIGHT WEIGHT/PERFORATED | | | $32,837 | 7.65 | 2.35 | 3.69 | 0.50 | 0.00 | 65 |
| | B35HE009 | LS | BUCKET, DRAGLINE, 4.5 CY, LIGHT WEIGHT/PERFORATED | | | $34,449 | 8.04 | 2.47 | 3.88 | 0.53 | 0.00 | 69 |
| | B35HE010 | LS | BUCKET, DRAGLINE, 5.0 CY, LIGHT WEIGHT/PERFORATED | | | $39,894 | 9.30 | 2.86 | 4.49 | 0.61 | 0.00 | 85 |
| | B35HE011 | LS | BUCKET, DRAGLINE, 6.0 CY, LIGHT WEIGHT/PERFORATED | | | $43,192 | 10.07 | 3.09 | 4.86 | 0.66 | 0.00 | 92 |
| | B35HE012 | LS | BUCKET, DRAGLINE, 7.0 CY, LIGHT WEIGHT/PERFORATED | | | $47,245 | 11.02 | 3.39 | 5.32 | 0.73 | 0.00 | 101 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B35* | | | *HENDRIX MANUFACTURING COMPANY, INC. (continued)* | | | | | | | | | |
| | B35HE013 | LS | BUCKET, DRAGLINE, 8.0 CY, LIGHT WEIGHT/PERFORATED | | | $52,355 | 12.20 | 3.75 | 5.89 | 0.80 | 0.00 | 112 |
| | B35HE014 | LS | BUCKET, DRAGLINE, 9.0 CY, LIGHT WEIGHT/PERFORATED | | | $59,906 | 13.97 | 4.29 | 6.74 | 0.92 | 0.00 | 128 |
| | B35HE015 | LS | BUCKET, DRAGLINE, 10.0 CY, LIGHT WEIGHT/PERFORATED | | | $65,116 | 15.18 | 4.67 | 7.33 | 1.00 | 0.00 | 139 |
| | B35HE016 | LS | BUCKET, DRAGLINE, 12.0 CY, LIGHT WEIGHT/PERFORATED | | | $77,776 | 18.13 | 5.57 | 8.75 | 1.19 | 0.00 | 166 |
| | B35HE017 | LS | BUCKET, DRAGLINE, 14.0 CY, LIGHT WEIGHT/PERFORATED | | | $89,481 | 20.86 | 6.41 | 10.07 | 1.37 | 0.00 | 191 |
| | | | **SAUERMAN (NATIONAL OILWELL VARCO)** | | | | | | | | | |
| | B35SA001 | SC-1050-K | BUCKET, DRAGLINE, 1.0 CY, CRESCENT | | | $19,896 | 4.64 | 1.43 | 2.24 | 0.31 | 0.00 | 15 |
| | B35SA003 | SC-1070-K | BUCKET, DRAGLINE, 2.0 CY, CRESCENT | | | $29,850 | 6.96 | 2.14 | 3.36 | 0.46 | 0.00 | 25 |
| | B35SA004 | SC-1090-K | BUCKET, DRAGLINE, 3.0 CY, CRESCENT | | | $40,947 | 9.55 | 2.94 | 4.61 | 0.63 | 0.00 | 36 |
| | B35SA005 | SC-1100-K | BUCKET, DRAGLINE, 4.0 CY, CRESCENT | | | $51,354 | 11.98 | 3.68 | 5.78 | 0.79 | 0.00 | 49 |
| | B35SA006 | SC-1110-K | BUCKET, DRAGLINE, 5.0 CY, CRESCENT | | | $60,536 | 14.11 | 4.34 | 6.81 | 0.93 | 0.00 | 58 |
| | B35SA007 | SC-1120-K | BUCKET, DRAGLINE, 6.0 CY, CRESCENT | | | $68,131 | 15.88 | 4.88 | 7.66 | 1.05 | 0.00 | 68 |
| | B35SA008 | SC-1130-K | BUCKET, DRAGLINE, 8.0 CY, CRESCENT | | | $80,464 | 18.76 | 5.77 | 9.05 | 1.24 | 0.00 | 88 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B35* | | | *SAUERMAN (NATIONAL OILWELL VARCO) (continued)* | | | | | | | | | |
| | B35SA009 | SC-1140-K | BUCKET, DRAGLINE, 10.0 CY,CRESCENT | | | $102,055 | 23.79 | 7.31 | 11.48 | 1.57 | 0.00 | 106 |
| | B35SA010 | SC-1150-K | BUCKET, DRAGLINE, 12.0 CY,CRESCENT | | | $124,607 | 29.04 | 8.92 | 14.02 | 1.91 | 0.00 | 132 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | B35XX001 | 6-1/2L | BUCKET, DRAGLINE, 6.5 CY, LIGHT WEIGHT | | | $32,204 | 7.50 | 2.30 | 3.62 | 0.49 | 0.00 | 94 |
| | B35XX002 | 7-1/2L | BUCKET, DRAGLINE, 7.5 CY, LIGHT WEIGHT | | | $36,217 | 8.44 | 2.60 | 4.07 | 0.56 | 0.00 | 106 |
| | B35XX003 | 8-1/2L | BUCKET, DRAGLINE, 8.5 CY, LIGHT WEIGHT | | | $40,034 | 9.32 | 2.86 | 4.50 | 0.61 | 0.00 | 116 |
| | B35XX004 | 9-1/2L | BUCKET, DRAGLINE, 9.5 CY, LIGHT WEIGHT | | | $45,654 | 10.65 | 3.27 | 5.14 | 0.70 | 0.00 | 132 |
| | B35XX005 | 11L | BUCKET, DRAGLINE, 11.0 CY, LIGHT WEIGHT | | | $51,257 | 11.95 | 3.68 | 5.77 | 0.79 | 0.00 | 148 |
| | B35XX006 | 13L | BUCKET, DRAGLINE, 13.0 CY, LIGHT WEIGHT | | | $63,016 | 14.69 | 4.52 | 7.09 | 0.97 | 0.00 | 178 |
| | **SUBCATEGORY 0.20** | | **MEDIUM WEIGHT** | | | | | | | | | |
| | | | **HENDRIX MANUFACTURING COMPANY, INC.** | | | | | | | | | |
| | B35HE018 | TS | BUCKET, DRAGLINE, 0.75 CY, MEDIUM WEIGHT | | | $8,680 | 1.81 | 0.57 | 0.87 | 0.13 | 0.00 | 17 |
| | B35HE019 | TS | BUCKET, DRAGLINE, 1.0 CY, MEDIUM WEIGHT | | | $9,938 | 2.07 | 0.65 | 0.99 | 0.15 | 0.00 | 19 |
| | B35HE020 | TS | BUCKET, DRAGLINE, 1.5 CY, MEDIUM WEIGHT | | | $14,191 | 2.96 | 0.92 | 1.42 | 0.21 | 0.00 | 28 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B35* | | | *HENDRIX MANUFACTURING COMPANY, INC. (continued)* | | | | | | | | | |
| | B35HE021 | TS | BUCKET, DRAGLINE, 2.0 CY, MEDIUM WEIGHT | | | $17,917 | 3.74 | 1.17 | 1.79 | 0.27 | 0.00 | 36 |
| | B35HE022 | TS | BUCKET, DRAGLINE, 2.5 CY, MEDIUM WEIGHT | | | $20,659 | 4.31 | 1.35 | 2.07 | 0.31 | 0.00 | 41 |
| | B35HE023 | TS | BUCKET, DRAGLINE, 3.0 CY, MEDIUM WEIGHT | | | $24,685 | 5.15 | 1.61 | 2.47 | 0.37 | 0.00 | 49 |
| | B35HE024 | TS | BUCKET, DRAGLINE, 3.5 CY, MEDIUM WEIGHT | | | $27,226 | 5.68 | 1.77 | 2.72 | 0.41 | 0.00 | 54 |
| | B35HE025 | TS | BUCKET, DRAGLINE, 4.0 CY, MEDIUM WEIGHT | | | $35,279 | 7.36 | 2.30 | 3.53 | 0.53 | 0.00 | 70 |
| | B35HE026 | TS | BUCKET, DRAGLINE, 4.5 CY, MEDIUM WEIGHT | | | $36,034 | 7.51 | 2.34 | 3.60 | 0.54 | 0.00 | 72 |
| | B35HE027 | TS | BUCKET, DRAGLINE, 5.0 CY, MEDIUM WEIGHT | | | $43,720 | 9.12 | 2.85 | 4.37 | 0.66 | 0.00 | 93 |
| | B35HE028 | TS | BUCKET, DRAGLINE, 6.0 CY, MEDIUM WEIGHT | | | $45,205 | 9.43 | 2.94 | 4.52 | 0.68 | 0.00 | 96 |
| | B35HE029 | TS | BUCKET, DRAGLINE, 7.0 CY, MEDIUM WEIGHT | | | $52,127 | 10.88 | 3.40 | 5.21 | 0.79 | 0.00 | 111 |
| | B35HE030 | TS | BUCKET, DRAGLINE, 8.0 CY, MEDIUM WEIGHT | | | $57,437 | 11.98 | 3.74 | 5.74 | 0.87 | 0.00 | 122 |
| | B35HE031 | TS | BUCKET, DRAGLINE, 9.0 CY, MEDIUM WEIGHT | | | $69,898 | 14.59 | 4.56 | 6.99 | 1.06 | 0.00 | 149 |
| | B35HE032 | TS | BUCKET, DRAGLINE, 10.0 CY, MEDIUM WEIGHT | | | $74,479 | 15.55 | 4.86 | 7.45 | 1.13 | 0.00 | 159 |
| | B35HE033 | TS | BUCKET, DRAGLINE, 12.0 CY, MEDIUM WEIGHT | | | $94,891 | 19.80 | 6.18 | 9.49 | 1.43 | 0.00 | 202 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B35* | | | *HENDRIX MANUFACTURING COMPANY, INC. (continued)* | | | | | | | | | |
| | B35HE034 | TS | BUCKET, DRAGLINE, 14.0 CY, MEDIUM WEIGHT | | | $105,739 | 22.06 | 6.89 | 10.57 | 1.60 | 0.00 | 225 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | B35XX007 | 6-1/2M | BUCKET, DRAGLINE, 6.5 CY, MEDIUM WEIGHT | | | $36,348 | 7.58 | 2.37 | 3.63 | 0.55 | 0.00 | 101 |
| | B35XX008 | 7-1/2M | BUCKET, DRAGLINE, 7.5 CY, MEDIUM WEIGHT | | | $41,573 | 8.68 | 2.71 | 4.16 | 0.63 | 0.00 | 117 |
| | B35XX009 | 8-1/2M | BUCKET, DRAGLINE, 8.5 CY, MEDIUM WEIGHT | | | $44,765 | 9.35 | 2.92 | 4.48 | 0.68 | 0.00 | 126 |
| | B35XX010 | 9-1/2M | BUCKET, DRAGLINE, 9.5 CY, MEDIUM WEIGHT | | | $53,277 | 11.12 | 3.48 | 5.33 | 0.81 | 0.00 | 152 |
| | B35XX011 | 11M | BUCKET, DRAGLINE, 11.0 CY, MEDIUM WEIGHT | | | $58,924 | 12.29 | 3.84 | 5.89 | 0.89 | 0.00 | 169 |
| | B35XX012 | 13M | BUCKET, DRAGLINE, 13.0 CY, MEDIUM WEIGHT | | | $74,641 | 15.57 | 4.86 | 7.46 | 1.13 | 0.00 | 211 |
| | **SUBCATEGORY 0.30** | | **HEAVY WEIGHT** | | | | | | | | | |
| | | | **HENDRIX MANUFACTURING COMPANY, INC.** | | | | | | | | | |
| | B35HE035 | MH-S | BUCKET, DRAGLINE, 2.75 CY, HEAVY WEIGHT | | | $32,469 | 6.13 | 1.94 | 2.92 | 0.48 | 0.00 | 69 |
| | B35HE036 | MH-S | BUCKET, DRAGLINE, 3.0 CY, HEAVY WEIGHT | | | $33,880 | 6.41 | 2.04 | 3.05 | 0.51 | 0.00 | 72 |
| | B35HE037 | MH-S | BUCKET, DRAGLINE, 3.5 CY, HEAVY WEIGHT | | | $38,111 | 7.21 | 2.29 | 3.43 | 0.57 | 0.00 | 81 |
| | B35HE038 | MH-S | BUCKET, DRAGLINE, 4.0 CY, HEAVY WEIGHT | | | $51,759 | 9.79 | 3.10 | 4.66 | 0.77 | 0.00 | 110 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B35* | | | *HENDRIX MANUFACTURING COMPANY, INC. (continued)* | | | | | | | | | |
| | B35HE039 | MH-S | BUCKET, DRAGLINE, 4.5 CY, HEAVY WEIGHT | | | $57,880 | 10.94 | 3.47 | 5.21 | 0.86 | 0.00 | 123 |
| | B35HE040 | MH-S | BUCKET, DRAGLINE, 5.0 CY, HEAVY WEIGHT | | | $59,754 | 11.30 | 3.58 | 5.38 | 0.89 | 0.00 | 127 |
| | B35HE041 | MH-S | BUCKET, DRAGLINE, 6.0 CY, HEAVY WEIGHT | | | $63,991 | 12.10 | 3.83 | 5.76 | 0.95 | 0.00 | 136 |
| | B35HE042 | MH-S | BUCKET, DRAGLINE, 7.0 CY, HEAVY WEIGHT | | | $82,344 | 15.57 | 4.94 | 7.41 | 1.23 | 0.00 | 175 |
| | B35HE043 | MH-S | BUCKET, DRAGLINE, 8.0 CY, HEAVY WEIGHT | | | $84,697 | 16.01 | 5.07 | 7.62 | 1.26 | 0.00 | 180 |
| | B35HE044 | MH-S | BUCKET, DRAGLINE, 9.0 CY, HEAVY WEIGHT | | | $110,108 | 20.82 | 6.60 | 9.91 | 1.64 | 0.00 | 234 |
| | B35HE045 | MH-S | BUCKET, DRAGLINE, 10.0 CY, HEAVY WEIGHT | | | $113,905 | 21.54 | 6.83 | 10.25 | 1.70 | 0.00 | 243 |
| | B35HE046 | MH-S | BUCKET, DRAGLINE, 12.0 CY, HEAVY WEIGHT | | | $135,465 | 25.62 | 8.12 | 12.19 | 2.02 | 0.00 | 289 |
| | B35HE047 | MH-S | BUCKET, DRAGLINE, 14.0 CY, HEAVY WEIGHT | | | $144,027 | 27.24 | 8.63 | 12.96 | 2.15 | 0.00 | 309 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | B35XX013 | 3/4H | BUCKET, DRAGLINE, 0.75 CY, HEAVY WEIGHT | | | $9,110 | 1.73 | 0.55 | 0.82 | 0.14 | 0.00 | 20 |
| | B35XX014 | 1H | BUCKET, DRAGLINE, 1.0 CY, HEAVY WEIGHT | | | $10,238 | 1.93 | 0.61 | 0.92 | 0.15 | 0.00 | 23 |
| | B35XX015 | 1-1/2H | BUCKET, DRAGLINE, 1.5 CY, HEAVY WEIGHT | | | $15,233 | 2.88 | 0.92 | 1.37 | 0.23 | 0.00 | 35 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *B35* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | |
| | B35XX016 | 2H | BUCKET, DRAGLINE, 2.0 CY, HEAVY WEIGHT | | | $17,410 | 3.30 | 1.05 | 1.57 | 0.26 | 0.00 | 42 |
| | B35XX017 | 2-1/2H | BUCKET, DRAGLINE, 2.5 CY, HEAVY WEIGHT | | | $19,039 | 3.59 | 1.14 | 1.71 | 0.28 | 0.00 | 48 |
| | B35XX018 | 5-1/2H | BUCKET, DRAGLINE, 5.5 CY, HEAVY WEIGHT | | | $40,811 | 7.72 | 2.45 | 3.67 | 0.61 | 0.00 | 113 |
| | B35XX019 | 6-1/2H | BUCKET, DRAGLINE, 6.5 CY, HEAVY WEIGHT | | | $43,615 | 8.25 | 2.62 | 3.93 | 0.65 | 0.00 | 125 |
| | B35XX020 | 7-1/2H | BUCKET, DRAGLINE, 7.5 CY, HEAVY WEIGHT | | | $49,153 | 9.29 | 2.94 | 4.42 | 0.73 | 0.00 | 135 |
| | B35XX021 | 8-1/2H | BUCKET, DRAGLINE, 8.5 CY, HEAVY WEIGHT | | | $53,638 | 10.15 | 3.22 | 4.83 | 0.80 | 0.00 | 159 |
| | B35XX022 | 9-1/2H | BUCKET, DRAGLINE, 9.5 CY, HEAVY WEIGHT | | | $67,484 | 12.76 | 4.05 | 6.07 | 1.01 | 0.00 | 181 |
| | B35XX023 | 11H | BUCKET, DRAGLINE, 11.0 CY, HEAVY WEIGHT | | | $72,347 | 13.68 | 4.34 | 6.51 | 1.08 | 0.00 | 198 |
| **C05** | **CHAIN SAWS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CHAIN SAWS** | | | | | | | | | |
| | | | **OLYMPYK CHAIN SAWS** | | | | | | | | | |
| | C05OL001 | 941 | CHAIN SAW, 16"-18" BAR | 2 HP G | | $357 | 1.41 | 0.09 | 0.16 | 0.01 | 0.59 | 1 |
| | C05OL002 | 962 | CHAIN SAW, 16"-24" BAR | 5 HP G | | $558 | 2.54 | 0.14 | 0.25 | 0.01 | 1.21 | 1 |
| | C05OL003 | 970 | CHAIN SAW, 16"-36" BAR | 5 HP G | | $676 | 2.92 | 0.16 | 0.30 | 0.01 | 1.34 | 1 |
| | C05OL004 | 980 | CHAIN SAW, 16"-42" BAR | 6 HP G | | $735 | 3.19 | 0.19 | 0.33 | 0.02 | 1.46 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | |
| | SUBCATEGORY 0.10 | | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | | | | | | | | | | |
| | | | COMPACTION AMERICA (BOMAG) | | | | | | | | | | |
| | C10BO001 | BT 60/4 | COMPACTOR, RAMMER, TAMPER, 11" X 13.2" SHOE, 2,630 LBS IMPACT | 3 HP | G | | $4,688 | 3.82 | 0.64 | 1.11 | 0.08 | 0.77 | 2 |
| | C10BO003 | BP 10/36-2 | COMPACTOR, VIBROPLATE, 14.2" X 22" PLATE, 2,250 LBS IMPACT | 4 HP | G | | $2,568 | 2.77 | 0.35 | 0.61 | 0.04 | 1.03 | 2 |
| | C10BO004 | BP 18/45-2 | COMPACTOR, VIBROPLATE, 17.7" X 22" PLATE, 4,050 LBS IMPACT | 6 HP | G | | $2,851 | 3.52 | 0.39 | 0.68 | 0.05 | 1.54 | 2 |
| | C10BO007 | BPR 30/38D-3 | COMPACTOR, VIBROPLATE, 22.8" X 31.1" PLATE, REVERSIBLE, 7,200 LBS IMPACT | 4 HP | D-off | | $11,606 | 7.90 | 1.58 | 2.76 | 0.20 | 0.50 | 5 |
| | C10BO008 | BPR 55/65D | COMPACTOR, VIBROPLATE, 25.6" X 35.4" PLATE, REVERSIBLE, 11,250 LBS IMPACT | 9 HP | D-off | | $15,830 | 11.26 | 2.15 | 3.76 | 0.27 | 1.13 | 10 |
| | | | WACKER CORPORATION | | | | | | | | | | |
| | C10WC003 | DS 70 | COMPACTOR, RAMMER, 13" X 13" SHOE, 3,550 LBS IMPACT | 4 HP | D-off | | $3,877 | 3.01 | 0.53 | 0.92 | 0.07 | 0.50 | 2 |
| | C10WC006 | BPU 2540 A | COMPACTOR, VIBROPLATE, 19.5" X 25.5" PLATE, REVERSIBLE, 5,600 LBS IMPACT | 6 HP | G | | $4,751 | 4.57 | 0.65 | 1.13 | 0.08 | 1.41 | 3 |
| | C10WC007 | BPU 3545A | COMPACTOR, VIBROPLATE, 23.5" X 35.5" PLATE, REVERSIBLE, 7,550 LBS IMPACT | 9 HP | G | | $7,289 | 7.19 | 1.00 | 1.73 | 0.13 | 2.31 | 7 |
| | C10WC008 | DPU 4045H | COMPACTOR, VIBROPLATE, 24" X 35.5" PLATE, REVERSIBLE, 9,000 LBS IMPACT | 9 HP | D-off | | $13,098 | 9.54 | 1.79 | 3.11 | 0.23 | 1.13 | 7 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C10* | | | *WACKER CORPORATION (continued)* | | | | | | | | | |
| | C10WC015 | DPU 7060 | COMPACTOR, VIBROPLATE, 25.5" X 42" PLATE, REVERSIBLE, 15,600 LBS IMPACT | 14 HP D-off | | $26,205 | 18.51 | 3.56 | 6.22 | 0.45 | 1.76 | 15 |
| | **SUBCATEGORY 0.20** | | **ROLLERS, VIBRATORY** | | | | | | | | | |
| | | | **COMPACTION 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 | | $6,624 | 5.18 | 0.83 | 1.41 | 0.12 | 1.03 | 3 |
| | C10BO015 | BW65S-2 | COMPACTOR, ROLLER, VIBRATORY, 25.6"W X 15.7"DIA, DOUBLE SMOOTH DRUMS, WALK BEHIND, 2,655 LBS IMPACT | 5 HP D-off | | $15,295 | 9.99 | 1.90 | 3.25 | 0.27 | 0.63 | 13 |
| | C10BO011 | BW 65H | COMPACTOR, ROLLER, VIBRATORY, 25.6"W X 15.7"DIA, DOUBLE SMOOTH DRUMS, WALK BEHIND, 1,980 LBS IMPACT | 8 HP D-off | | $17,809 | 11.93 | 2.21 | 3.78 | 0.32 | 1.00 | 16 |
| | C10BO016 | BW75S-2 | COMPACTOR, ROLLER, VIBRATORY, 29.5"W X 18.9"DIA, DOUBLE SMOOTH DRUMS, WALK BEHIND, 4,455 LBS IMPACT | 9 HP D-off | | $22,340 | 14.83 | 2.78 | 4.75 | 0.40 | 1.13 | 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 | | $47,068 | 31.25 | 5.84 | 10.00 | 0.84 | 2.39 | 45 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **RAMMAX 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 | | $30,816 | 19.84 | 3.83 | 6.55 | 0.55 | 1.00 | 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 | | $42,646 | 27.86 | 5.29 | 9.06 | 0.76 | 1.76 | 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 | | $71,534 | 48.07 | 8.88 | 15.20 | 1.28 | 4.14 | 66 |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | C10WC010 | RSS800A | COMPACTOR, ROLLER, VIBRATORY, 28"W X 22"DIA, SINGLE SMOOTH DRUM, WALK BEHIND, 3,400 LBS IMPACT | 11 HP G | | $9,946 | 9.19 | 1.24 | 2.11 | 0.18 | 2.82 | 11 |
| | 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 | | $13,176 | 9.27 | 1.64 | 2.80 | 0.24 | 1.13 | 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 | | $30,878 | 21.55 | 3.83 | 6.56 | 0.55 | 2.51 | 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 | | $32,570 | 22.58 | 4.04 | 6.92 | 0.58 | 2.51 | 33 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **C15** | **CONCRETE CLEANERS / ABRASIVE BLASTERS** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **WALK BEHIND** | | | | | | | | | | |
| | | | **US FILTER/BLASTRAC** | | | | | | | | | | |
| | C15BL001 | 1-8 & TURBO VAC | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 8" PATH (ADD 4 KVA GENERATOR & BLAST MEDIA COST) | 2 HP | E | | $10,176 | 5.83 | 1.21 | 2.04 | 0.19 | 0.14 | 2 |
| | C15BL003 | 1-10D & 6-54 DC | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 10" PATH (ADD 30 KVA GENERATOR & BLAST MEDIA COST) | 10 HP | E | | $48,733 | 27.01 | 5.77 | 9.75 | 0.89 | 0.68 | 7 |
| | C15BL004 | 1-15D & 6-54-DC | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 15" PATH (ADD 30 KVA GENERATOR & BLAST MEDIA COST) | 15 HP | E | | $57,028 | 31.96 | 6.75 | 11.41 | 1.04 | 1.02 | 8 |
| | C15BL005 | 2-20D & 8-54-DC | CONCRETE BLASTER CLEANING SYSTEM, WALK BEHIND, 20" PATH (ADD 75 KVA GENERATOR & BLAST MEDIA COST) | 30 HP | E | | $83,593 | 47.16 | 9.89 | 16.72 | 1.53 | 2.04 | 12 |
| | | | **EQUIPMENT DEVELOPMENT CO., INC. (EDCO)** | | | | | | | | | | |
| | C15ED002 | CPM-8 | CONCRETE GRINDER, WALK BEHIND, TRAFFIC LINE REMOVER, 8" CUTTING PATH | 9 HP | G | | $4,606 | 4.38 | 0.54 | 0.92 | 0.08 | 1.80 | 2 |
| | C15ED001 | TLR-7 | CONCRETE GRINDER, WALK BEHIND, TRAFFIC LINE REMOVER, 7" CUTTING WIDTH | 11 HP | G | | $7,440 | 6.27 | 0.89 | 1.49 | 0.14 | 2.20 | 5 |
| | **SUBCATEGORY 0.20** | | **TRUCK/TRAILER MOUNTED** | | | | | | | | | | |
| | | | **US FILTER/BLASTRAC** | | | | | | | | | | |
| | C15BL006 | 4800 | CONCRETE BLASTER, SELF PROPELLED, 48" PATH | 350 HP | D-off | | $6,409 | 53.87 | 0.42 | 0.64 | 0.10 | 45.99 | 255 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | C15XX001 | | CONCRETE CLEANER/ABRASIVE BLASTER, TRUCK MOUNTED, GINDER/BLASTER, 4" - 16" CLEANING PATH WIDTH | 86 HP D-on | 180 HP D-off | $136,824 | 64.76 | 8.99 | 13.51 | 2.23 | 25.92 | 138 |
| **C20** | **CONCRETE BUGGIES** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE BUGGIES** | | | | | | | | | |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | C20WC002 | WB 16A | CONCRETE BUGGY, 16 CF BUCKET, 2,500 LBS, WALK & RIDE, 4X2 | 13 HP G | | $11,833 | 8.04 | 1.31 | 2.18 | 0.22 | 2.60 | 13 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | C20XX001 | 10G | CONCRETE BUGGY, 10 CF BUCKET, 1,500 LBS | 8 HP G | | $8,309 | 5.39 | 0.92 | 1.53 | 0.15 | 1.60 | 10 |
| **C25** | **CONCRETE FINISHERS/SCREEDS/SPREADERS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **FINISHERS/TROWELS** | | | | | | | | | |
| | | | **ALLEN ENGINEERING CORP.** | | | | | | | | | |
| | C25AJ015 | PRO 900 | CONCRETE TROWEL, RIDING, 2 - 36" DIA ROTORS, 8 BLADES | 20 HP G | | $12,583 | 9.37 | 1.23 | 2.01 | 0.22 | 3.99 | 7 |
| | C25AJ016 | PRO 1050 | CONCRETE TROWEL, RIDING, 2 - 42" DIA ROTORS, 8 BLADES | 20 HP G | | $13,200 | 9.60 | 1.29 | 2.11 | 0.23 | 3.99 | 8 |
| | C25AJ018 | PRO 1200 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 8 BLADES | 25 HP G | | $15,320 | 11.56 | 1.50 | 2.45 | 0.27 | 4.99 | 10 |
| | C25AJ019 | SUPER PRO 400 | CONCRETE TROWEL, RIDING, 2 - 46" DIA ROTORS, 8 BLADES | 28 HP G | | $22,188 | 14.85 | 2.17 | 3.55 | 0.39 | 5.59 | 13 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **STOW MANUFACTURING, INC.** | | | | | | | | | |
| | C25ST001 | SCT36H80 | CONCRETE FINISHER, WALK BEHIND, ROTO TROWEL, 36" DIA ROTOR, 4 BLADES | 8 HP G | | $2,628 | 2.85 | 0.26 | 0.42 | 0.05 | 1.60 | 3 |
| | C25ST002 | SCT46H80 | CONCRETE FINISHER, WALK BEHIND, ROTO TROWEL, 46" DIA ROTOR, 4 BLADES | 9 HP G | | $2,694 | 3.10 | 0.27 | 0.43 | 0.05 | 1.80 | 3 |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | C25WC002 | CT48ADP | CONCRETE FINISHER, WALK BEHIND, POWER TROWEL, 48" DIA ROTOR, 4 BLADES | 8 HP G | | $3,253 | 3.08 | 0.32 | 0.52 | 0.06 | 1.60 | 3 |
| | **SUBCATEGORY 0.20** | | **VIBRATORY SCREED** | | | | | | | | | |
| | | | **ALLEN ENGINEERING CORP.** | | | | | | | | | |
| | C25AJ003 | 12HED | CONCRETE, VIBRATORY SCREED, 12.5' WIDE | 6 HP G | | $6,692 | 3.93 | 0.66 | 1.07 | 0.12 | 1.20 | 5 |
| | C25AJ001 | 12 HD | CONCRETE, VIBRATORY SCREED, 20' WIDE | 6 HP G | | $4,741 | 3.18 | 0.46 | 0.76 | 0.08 | 1.20 | 4 |
| | C25AJ004 | 12HED | CONCRETE, VIBRATORY SCREED, 30' WIDE | 8 HP G | | $9,576 | 5.47 | 0.94 | 1.53 | 0.17 | 1.60 | 8 |
| | C25AJ005 | 12HED | CONCRETE, VIBRATORY SCREED, 40' WIDE | 11 HP G | | $11,253 | 6.80 | 1.10 | 1.80 | 0.20 | 2.20 | 10 |
| | C25AJ006 | 12HED | CONCRETE, VIBRATORY SCREED, 50' WIDE | 11 HP G | | $13,367 | 7.60 | 1.30 | 2.14 | 0.23 | 2.20 | 12 |
| | C25AJ007 | 12HED | CONCRETE, VIBRATORY SCREED, 55' WIDE | 11 HP G | | $14,220 | 7.93 | 1.39 | 2.28 | 0.25 | 2.20 | 13 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.25** | | **VIBRATORY LASER SCREED** | | | | | | | | | |
| | | | **SOMERO ENTERPRISES, INC.** | | | | | | | | | |
| | C25SV003 | S-100 | CONCRETE, VIBRATORY LASER SCREED, 8' WIDE X 12' BOOM | 30 HP D-off | | $147,003 | 32.54 | 8.90 | 12.71 | 2.54 | 2.72 | 72 |
| | C25SV002 | SXP (VERSATILE) | CONCRETE, VIBRATORY LASER SCREED, 8' WIDE X 20' BOOM | 65 HP D-off | | $292,448 | 65.20 | 17.75 | 25.42 | 5.04 | 5.88 | 126 |
| | C25SV001 | SXP (PRODUCTIVE) | CONCRETE, VIBRATORY LASER SCREED, 12' WIDE X 20' BOOM | 65 HP D-off | | $311,372 | 69.00 | 18.88 | 27.02 | 5.37 | 5.88 | 151 |
| | **SUBCATEGORY 0.30** | | **MATERIAL/TOPPING SPREADERS** | | | | | | | | | |
| | | | **ALLEN ENGINEERING CORP.** | | | | | | | | | |
| | C25AJ008 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 12.5' WIDE | 6 HP G | | $16,120 | 4.45 | 0.99 | 1.41 | 0.28 | 1.03 | 11 |
| | C25AJ009 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 20' WIDE | 6 HP G | | $17,121 | 4.65 | 1.05 | 1.50 | 0.30 | 1.03 | 12 |
| | C25AJ010 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 30' WIDE | 6 HP G | | $18,298 | 4.88 | 1.12 | 1.60 | 0.32 | 1.03 | 13 |
| | C25AJ011 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 40' WIDE | 6 HP G | | $19,600 | 5.15 | 1.20 | 1.72 | 0.34 | 1.03 | 14 |
| | C25AJ012 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 50' WIDE | 6 HP G | | $20,808 | 5.38 | 1.27 | 1.82 | 0.36 | 1.03 | 15 |
| | C25AJ013 | SP23H | CONCRETE, MATERIAL/TOPPING SPREADER, 60' WIDE | 6 HP G | | $22,042 | 5.63 | 1.35 | 1.93 | 0.38 | 1.03 | 17 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **C35** | **CONCRETE GUNITERS / SHOTCRETERS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE GUNITERS / SHOTCRETERS** | | | | | | | | | |
| | | | **AIRPLACO 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 A | | $14,845 | 6.22 | 1.03 | 1.56 | 0.25 | 0.00 | 6 |
| | C35AF001 | 1900 HD NUCRETOR | CONCRETE GUNITER/SHOTCRETER, DRY MIX, 2 - 15 CY/HR, W/2 PRESSURIZED TANKS/ 100' - 2" DIA HOSE (ADD 600 CFM COMPRESSOR) | 600 CFM A | | $27,293 | 8.08 | 1.91 | 2.90 | 0.46 | 0.00 | 11 |
| | C35AF004 | 634 Mix Elevator | CONCRETE GUNITER/SHOTCRETER, DRY BATCH MIXER, 13 CY/HR, W/FEEDER, TRAILER MTD (ADD SHOTCRETE MACHINE) | 30 HP D-off | | $43,772 | 18.07 | 3.08 | 4.65 | 0.75 | 3.15 | 45 |
| | C35AF005 | 734 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 | | $65,477 | 27.10 | 4.58 | 6.92 | 1.12 | 5.68 | 81 |
| | | | **ALLENTOWN 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 | | $15,686 | 5.13 | 1.03 | 1.52 | 0.27 | 0.36 | 11 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C35* | | | *ALLENTOWN EQUIPMENT (continued)* | | | | | | | | | |
| | 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 A | | $13,357 | 4.17 | 0.91 | 1.35 | 0.23 | 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 A | | $25,594 | 7.62 | 1.81 | 2.74 | 0.44 | 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 | | $44,214 | 17.11 | 3.04 | 4.58 | 0.75 | 3.15 | 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 | | $67,120 | 26.93 | 4.72 | 7.15 | 1.14 | 6.41 | 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 | | $28,561 | 10.95 | 2.02 | 3.06 | 0.49 | 0.51 | 9 |
| | 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 | | $34,853 | 13.74 | 2.46 | 3.73 | 0.59 | 1.16 | 18 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C35* | | | *ALIVA LTD. (continued)* | | | | | | | | | | |
| | 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 | | $62,793 | 22.87 | 4.44 | 6.73 | 1.07 | 1.89 | 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 | | $95,885 | 31.62 | 6.73 | 10.20 | 1.63 | 1.46 | 33 |
| | C35AV011 | AL 302 | CONCRETE GUNITER/SHOTCRETER, SHOTCRETE HYDRAULIC SPRAYER ARM, 25.6 ' HIGH (ADD TRUCK OR SMALL TRAILER & SHOTCRETE UNIT) | 12 HP | E | | $48,614 | 17.23 | 3.44 | 5.21 | 0.83 | 0.87 | 50 |
| | C35AV012 | AL 307 | CONCRETE GUNITERS / SHOTCRETERS, SHOTCRETE HYDRAULIC SPRAYER ARM, 52.5' HIGH (ADD TRUCK OR SMALL TRAILER & SHOTCRETE UNIT) | 20 HP | E | | $144,002 | 45.90 | 10.17 | 15.43 | 2.45 | 1.46 | 68 |
| C40 | CONCRETE MIXING UNITS | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE MIXING UNITS** | | | | | | | | | | |
| | | | **CEMEN TECH** | | | | | | | | | | |
| | C40CC001 | SCD2-50H | CONCRETE MIXERS, STATIONARY CONCRETE DISPENSER, 15 CY/HR, 2 - 4.5 CY MATERIAL CAPACITY | 10 HP | E | | $26,733 | 11.21 | 2.61 | 4.28 | 0.47 | 0.68 | 23 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **MULTIQUIP, INC.** | | | | | | | | | | |
| | C40MU001 | WM 70SH8 | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 7 CF, TRAILER MTD | 8 HP | G | | $3,325 | 3.09 | 0.31 | 0.50 | 0.06 | 1.60 | 8 |
| | C40MU002 | WM 120SHH | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 12 CF, TRAILER MTD | 13 HP | G | | $6,692 | 5.51 | 0.64 | 1.04 | 0.12 | 2.60 | 11 |
| | C40MU003 | MC 64SH8 | CONCRETE MIXERS, MIXER, CONCRETE, 6 CF, TRAILER MTD | 8 HP | G | | $3,355 | 3.09 | 0.31 | 0.50 | 0.06 | 1.60 | 7 |
| | C40MU004 | MC 94SH8 | CONCRETE MIXERS, MIXER, CONCRETE, 9 CF, TRAILER MTD | 8 HP | G | | $3,827 | 3.28 | 0.36 | 0.58 | 0.07 | 1.60 | 8 |
| | | | **STOW MANUFACTURING, INC.** | | | | | | | | | | |
| | C40ST001 | CMS44E | CONCRETE MIXERS, MIXER, CONCRETE, 4 CF, TRAILER MTD | 1 HP | E | | $2,253 | 1.08 | 0.21 | 0.33 | 0.04 | 0.03 | 5 |
| | C40ST002 | CMS44H | CONCRETE MIXERS, MIXER, CONCRETE, 4 CF, TRAILER MTD | 6 HP | G | | $2,461 | 2.17 | 0.22 | 0.36 | 0.04 | 1.10 | 5 |
| | C40ST003 | CMS64E | CONCRETE MIXERS, MIXER, CONCRETE, 6 CF, TRAILER MTD | 2 HP | E | | $2,882 | 1.54 | 0.27 | 0.43 | 0.05 | 0.14 | 7 |
| | C40ST005 | CMS94E | CONCRETE MIXERS, MIXER, CONCRETE, 9 CF, TRAILER MTD | 2 HP | E | | $3,766 | 1.86 | 0.36 | 0.57 | 0.07 | 0.10 | 8 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | C40XX001 | 8E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 8 CF, ELECTRIC, PORTABLE | 2 HP | E | | $3,595 | 1.78 | 0.35 | 0.58 | 0.06 | 0.14 | 7 |
| | C40XX002 | 8G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 8 CF, GAS, PORTABLE | 7 HP | G | | $3,839 | 3.07 | 0.38 | 0.61 | 0.07 | 1.40 | 7 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C40* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | | |
| | C40XX003 | 10E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 10 CF, ELECTRIC, PORTABLE | 3 HP | E | | $5,468 | 2.59 | 0.54 | 0.87 | 0.10 | 0.20 | 9 |
| | C40XX004 | 10G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 10 CF, GAS, PORTABLE | 8 HP | G | | $5,519 | 3.94 | 0.54 | 0.88 | 0.10 | 1.60 | 10 |
| | C40XX005 | 12E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 12 CF, ELECTRIC, PORTABLE | 5 HP | E | | $7,188 | 3.52 | 0.71 | 1.15 | 0.13 | 0.34 | 11 |
| | C40XX006 | 16E | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 16 CF, ELECTRIC, PORTABLE | 5 HP | E | | $9,955 | 4.56 | 0.97 | 1.59 | 0.17 | 0.34 | 12 |
| | C40XX007 | 16G | CONCRETE MIXERS, MIXER, PLASTER/MORTAR, 16 CF, GAS, PORTABLE | 9 HP | G | | $9,300 | 5.60 | 0.91 | 1.49 | 0.16 | 1.80 | 13 |
| **C45** | **CONCRETE PAVING MACHINES** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE PAVING MACHINES** | | | | | | | | | | |
| | | | **GOMACO CORPORATION** | | | | | | | | | | |
| | C45GO026 | C-450 | CONCRETE PAVING MACHINES, CYLINDER FINISHER, SINGLE DRUM, FINISHING WIDTH 9'-137' | 36 HP | G | | $56,307 | 29.27 | 4.72 | 7.51 | 0.96 | 7.76 | 64 |
| | C45GO027 | C-650-F | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 19'-51' | 50 HP | D-off | | $71,667 | 31.82 | 6.00 | 9.56 | 1.22 | 5.26 | 91 |
| | C45GO028 | C-650-S | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 19'-51' | 50 HP | D-off | | $113,841 | 47.02 | 9.52 | 15.18 | 1.93 | 5.26 | 126 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C45* | | | *GOMACO CORPORATION (continued)* | | | | | | | | | | |
| | C45GO029 | C-750 | CONCRETE PAVING MACHINES, CYLINDER FINISHER, DOUBLE DRUM, FINISHING WIDTH 8'-156' | 36 HP | G | | $75,754 | 36.28 | 6.34 | 10.10 | 1.29 | 7.76 | 91 |
| | C45GO013 | GT-3200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 36" WIDE MOLD/FORM | 92 HP | D-off | | $130,251 | 57.96 | 10.90 | 17.37 | 2.21 | 9.67 | 130 |
| | C45GO010 | COMMANDER II /GT6200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 2-TRACK, 36" WIDE MOLD/FORM | 92 HP | D-off | | $157,431 | 67.75 | 13.17 | 20.99 | 2.67 | 9.67 | 200 |
| | C45GO014 | GT-3600 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 24" WIDE MOLD/FORM | 98 HP | D-off | | $179,894 | 76.57 | 15.05 | 23.99 | 3.05 | 10.30 | 210 |
| | C45GO011 | COMMANDER III/GT6300 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER, 3-TRACK, 36" WIDE MOLD/FORM | 185 HP | D-off | | $242,262 | 109.45 | 20.26 | 32.30 | 4.11 | 19.45 | 300 |
| | C45GO012 | COMMANDER III | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, CRAWLER , 4-TRACK, 36" WIDE MOLD/FORM | 169 HP | D-off | | $323,891 | 136.99 | 27.09 | 43.19 | 5.49 | 17.77 | 369 |
| | C45GO016 | GP-2600 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 24'-32' PAVING WIDTH | 230 HP | D-off | | $352,191 | 154.46 | 29.45 | 46.96 | 5.97 | 24.18 | 750 |
| | C45GO018 | GHP-2800 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 24'-32' PAVING WIDTH | 335 HP | D-off | | $439,255 | 198.40 | 36.74 | 58.57 | 7.45 | 35.22 | 700 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C45* | | | *GOMACO CORPORATION (continued)* | | | | | | | | | | |
| | C45GO020 | GP-4000 | CONCRETE PAVING MACHINES, SLIPFORM PAVER, CRAWLER, 2-TRACK, 12'-50' PAVING WIDTH | 450 HP | D-off | | $519,780 | 241.16 | 43.47 | 69.30 | 8.82 | 47.30 | 880 |
| | C45GO031 | 9500 | CONCRETE PAVING MACHINES, TRIMMER/PLACER, W/16'-8" TRIMMER HEAD | 385 HP | D-off | | $426,074 | 199.61 | 35.64 | 56.81 | 7.23 | 40.47 | 729 |
| | | | **MILLER SPREADER CO.** | | | | | | | | | | |
| | C45MJ001 | MC 650 | CONCRETE PAVING MACHINES, CURB BUILDER, SLIPFORM PAVER, 6.1 CF HOPPER 6" AUGER | 15 HP | G | | $7,638 | 6.49 | 0.64 | 1.02 | 0.13 | 3.23 | 8 |
| | | | **M-B-W, INC.** | | | | | | | | | | |
| | C45MW00 | C101 | CONCRETE PAVING MACHINES, CURB ONLY SLIPFORM PAVER, RUBBER TIRED, 12" | 26 HP | D-off | | $46,890 | 19.99 | 3.90 | 6.19 | 0.80 | 2.73 | 27 |
| | C45MW00 | CG200 | CONCRETE PAVING MACHINES, CURB/GUTTER SLIPFORM PAVER, RUBBER TIRED, 48" | 26 HP | D-off | | $59,544 | 24.53 | 4.94 | 7.86 | 1.01 | 2.73 | 34 |
| C55 | CONCRETE PUMPS | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE PUMPS** | | | | | | | | | | |
| | | | **MAYCO PUMP - MULTIQUIP INC.** | | | | | | | | | | |
| | C55M3001 | C-30HDG | CONCRETE PUMP, 25 CY/HR, SINGLE, TRAILER MTD | 46 HP | G | | $23,984 | 17.42 | 1.70 | 2.66 | 0.37 | 9.19 | 27 |
| | C55M3002 | LS-400 | CONCRETE PUMP, 45 CY/HR, SINGLE, TRAILER MTD | 60 HP | D-off | | $53,621 | 22.04 | 3.84 | 6.03 | 0.82 | 5.96 | 42 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C55* | | | *MAYCO PUMP - MULTIQUIP INC. (continued)* | | | | | | | | | |
| | C55M3003 | LS-600 | CONCRETE PUMP, 70 CY/HR, SINGLE, TRAILER MTD | 106 HP D-off | | $63,033 | 29.90 | 4.52 | 7.09 | 0.97 | 10.52 | 47 |
| | | | **OLIN ENGINEERING, INC.** | | | | | | | | | |
| | C55OE006 | 10 22 | CONCRETE PUMP, 22 CY/HR,TRAILER MTD (OPEN LOOP HYDRAULIC SYSTEM) | 74 HP D-off | | $50,751 | 22.77 | 3.60 | 5.64 | 0.78 | 7.35 | 44 |
| | C55OE009 | 20 80 | CONCRETE PUMP, 76 CY/HR, TRAILER MTD TANDEM (CLOSED LOOP HYDRAULIC SYSTEM) | 127 HP D-off | | $95,735 | 41.51 | 6.79 | 10.64 | 1.47 | 12.61 | 72 |
| | C55OE011 | 15 95 | CONCRETE PUMP, 100 CY/HR, TRAILER MTD TANDEM (OPEN LOOP HYDRAULIC SYSTEM) | 181 HP D-off | | $88,625 | 45.56 | 6.28 | 9.84 | 1.36 | 17.97 | 70 |
| | C55OE012 | 20 100 | CONCRETE PUMP, 100 CY/HR, TRAILER MTD TANDEM (CLOSED LOOP HYDRAULIC SYSTEM) | 181 HP D-off | | $112,442 | 52.34 | 7.99 | 12.51 | 1.73 | 17.97 | 81 |
| | C55OE001 | 4Z 26X | CONCRETE PUMP, PUMP & BOOM, 130 CY/HR, REACH: 72' HORIZONTAL / 85' VERTICAL (ADD 50,000 GVW TRUCK) | | | $267,732 | 76.26 | 19.17 | 30.12 | 4.11 | 0.00 | 100 |
| | C55OE002 | 4Z 36X | CONCRETE PUMP, PUMP & BOOM, 182 CY/HR, REACH: 104' HORIZONTAL / 118' VERTICAL (ADD 50,000 GVW TRUCK) | | | $343,457 | 97.84 | 24.60 | 38.64 | 5.28 | 0.00 | 100 |
| | C55OE003 | 5RZ 47I | CONCRETE PUMP, PUMP & BOOM, 182 CY/HR, REACH: 134' HORIZONTAL / 152' VERTICAL (ADD 50,000 GVW TRUCK) | | | $522,444 | 148.82 | 37.42 | 58.77 | 8.03 | 0.00 | 100 |
| | | | **SCHWING AMERICA INC.** | | | | | | | | | |
| | C55SC001 | WP750 D-18X | CONCRETE PUMP, 70 CY/HR, 1,100 PSI, TRAILER MTD | 80 HP D-off | | $72,803 | 29.74 | 5.20 | 8.15 | 1.12 | 7.94 | 69 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C55* | | | *SCHWING AMERICA INC. (continued)* | | | | | | | | | | |
| | C55SC002 | BPA 2000HDD-20R | CONCRETE PUMP, 67 CY/HR, 1,565 PSI, TRAILER MTD | 177 HP | D-off | | $177,948 | 70.56 | 12.67 | 19.88 | 2.73 | 17.57 | 115 |
| | C55SC005 | S 28X | CONCRETE PUMP, 117 CY/HR, 75' BOOM, TRUCK MTD | 210 HP | D-on | | $374,738 | 134.54 | 26.62 | 41.72 | 5.76 | 24.56 | 359 |
| | C55SC006 | KVM 32XG | CONCRETE PUMP, 117 CY/HR, 92' BOOM, TRUCK MTD | 210 HP | D-on | | $447,450 | 155.25 | 31.82 | 49.90 | 6.87 | 24.56 | 470 |
| **C60** | **CONCRETE SAWS (Add cost for sawblade wear)** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE SAWS (Add cost for sawblade wear)** | | | | | | | | | | |
| | | | **CUSHION CUT, INC.** | | | | | | | | | | |
| | C60CQ011 | FS 6600 D 18 | CONCRETE SAW, 6.5" DEPTH, SELF PROPELLED, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 HP | D-off | | $22,465 | 18.24 | 2.05 | 3.37 | 0.36 | 8.29 | 19 |
| | C60CQ002 | FS 9B | CONCRETE SAW, 5.625" DEPTH, MANUAL, 16" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 9 HP | G | | $2,936 | 3.77 | 0.27 | 0.44 | 0.05 | 2.31 | 2 |
| | C60CQ003 | FS 13BUC | CONCRETE SAW, 5.625" DEPTH, MANUAL, 16" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 13 HP | G | | $3,159 | 5.04 | 0.29 | 0.47 | 0.05 | 3.34 | 2 |
| | C60CQ001 | FS 3500 G 18 | CONCRETE SAW, 6.5" DEPTH, SELF-PROPELLED, 18" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 35 HP | G | | $13,000 | 15.26 | 1.19 | 1.95 | 0.21 | 8.99 | 10 |
| | C60CQ014 | FS 3500 E 26 | CONCRETE SAW, 10.625" DEPTH, SELF PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 30 HP | E | | $13,958 | 9.27 | 1.27 | 2.09 | 0.22 | 2.62 | 9 |
| | C60CQ012 | FS 6600 D 26 | CONCRETE SAW, 10.625" DEPTH, SELF PROPELLED, 26" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 HP | D-off | | $22,520 | 18.26 | 2.05 | 3.38 | 0.36 | 8.29 | 19 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C60* | | | *CUSHION CUT, INC. (continued)* | | | | | | | | | |
| | C60CQ010 | FS 3500 G 30 | CONCRETE SAW, 12.125" DEPTH, SELF PROPELLED, 30" BLADE,W/TRANSAXLE (ADD COST FOR SAWBLADE WEAR & WATER) | 35 HP G | | $13,475 | 15.44 | 1.23 | 2.02 | 0.22 | 8.99 | 12 |
| | C60CQ013 | FS 6600 D 36 | CONCRETE SAW, 14.875" DEPTH, SELF PROPELLED, 36" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 66 HP D-off | | $22,709 | 18.34 | 2.08 | 3.41 | 0.37 | 8.29 | 20 |
| | C60CQ016 | FS 8400/36 | CONCRETE SAW, 14.875" DEPTH, SELF PROPELLED, 36" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 84 HP D-off | | $28,632 | 23.23 | 2.61 | 4.29 | 0.46 | 10.55 | 20 |
| | | | **FELKER (TARGET)** | | | | | | | | | |
| | C60FE002 | S80/14Z | CONCRETE SAW, 5.00" DEPTH, MANUAL, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 2 HP G | | $1,515 | 1.16 | 0.14 | 0.23 | 0.02 | 0.51 | 1 |
| | C60FE006 | ES 1409 | CONCRETE SAW, 4.625" DEPTH, WALK BEHIND, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 9 HP G | | $3,163 | 3.85 | 0.29 | 0.47 | 0.05 | 2.31 | 2 |
| | C60FE007 | ES 1413 | CONCRETE SAW, 4.625" DEPTH, WALK BEHIND, 14" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 13 HP G | | $3,310 | 5.10 | 0.30 | 0.50 | 0.05 | 3.34 | 2 |
| | C60FE009 | ECII20H | CONCRETE SAW, 7.50" DEPTH, SELF PROPELLED, 20" BLADE (ADD COST FOR SAWBLADE WEAR & WATER) | 20 HP G | | $10,567 | 9.90 | 0.97 | 1.59 | 0.17 | 5.14 | 6 |
| | | | **BOART LONGYEAR COMPANY** | | | | | | | | | |
| | C60LY005 | FS 13B | CONCRETE SAW, 7.00" DEPTH, WALK BEHIND(ADD COST FOR SAWBLADE WEAR & WATER) | 13 HP G | | $3,106 | 5.03 | 0.29 | 0.47 | 0.05 | 3.34 | 2 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *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 | | $26,896 | 13.06 | 2.45 | 4.03 | 0.43 | 2.57 | 2 |
| | C60LY002 | 360-35HM | CONCRETE SAW, RAIL SAW, 24.50" DEPTH, WALL(ADD COST FOR SAWBLADE WEAR & WATER) | 35 HP G | | $39,765 | 25.30 | 3.62 | 5.96 | 0.64 | 8.99 | 2 |
| | C60LY011 | WR-400 | CONCRETE SAW, WIRE SAW SYSTEM, HEAVY DUTY (ADD COST FOR SAW WIRE WEAR & WATER) | 32 HP D-off | | $76,972 | 33.66 | 7.02 | 11.55 | 1.24 | 4.02 | 15 |
| C65 | CONCRETE VIBRATORS | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CONCRETE VIBRATORS** | | | | | | | | | |
| | | | **STOW MANUFACTURING, INC.** | | | | | | | | | |
| | C65ST007 | SV-1 115V | CONCRETE VIBRATOR, 1.375" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 1 HP E | | $922 | 1.09 | 0.13 | 0.21 | 0.02 | 0.06 | 1 |
| | C65ST008 | SV-2 115V | CONCRETE VIBRATOR, 2.175" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 2 HP E | | $962 | 1.24 | 0.13 | 0.22 | 0.02 | 0.13 | 1 |
| | C65ST009 | SV-3 115V | CONCRETE VIBRATOR, 2.625" HEAD, 21' SHAFT (ADD 2KV GENERATOR) | 3 HP E | | $1,136 | 1.51 | 0.15 | 0.26 | 0.02 | 0.19 | 1 |
| | C65ST013 | G55H | CONCRETE VIBRATOR, 2.325" HEAD, 21' SHAFT, W/GAS MOTOR ON CART | 6 HP G | | $2,099 | 3.44 | 0.28 | 0.47 | 0.04 | 1.03 | 2 |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | C65WC005 | A 5000 | CONCRETE VIBRATOR, 1.75" HEAD, 13' SHAFT, W/GAS MOTOR ON CART | 5 HP G | | $1,906 | 3.13 | 0.25 | 0.43 | 0.03 | 0.94 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS 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 | | $1,003 | 1.51 | 0.14 | 0.23 | 0.02 | 0.19 | 1 |
| | C65WC003 | IREN 57 | CONCRETE VIBRATOR, 2.50" HEAD, 16.5' SHAFT, HI-FREQ INTERNAL (ADD 2KV GENERATOR) | 2 HP | E | | $1,563 | 2.02 | 0.21 | 0.35 | 0.03 | 0.13 | 1 |
| **C75** | **CRANES, HYDRAULIC, SELF-PROPELLED** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CRANES, HYDRAULIC, SELF-PROPELLED** | | | | | | | | | | |
| | | | **BRODERSON MANUFACTURING CORPORATION** | | | | | | | | | | |
| | C75BD007 | IC-20-1F | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 2.5 TON, 15' BOOM, 4X2 | 38 HP | G | | $62,696 | 18.64 | 2.83 | 3.77 | 0.94 | 8.19 | 63 |
| | C75BD008 | IC-35-2C | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 4.0 TON, 19.2' BOOM, 4X2 | 42 HP | G | | $83,301 | 22.59 | 3.75 | 5.02 | 1.24 | 9.05 | 78 |
| | C75BD004 | IC-35-2C | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 4.0 TON, 19' BOOM, 4X2, NON-ROTATING OPERATOR'S CAB | 42 HP | G | | $86,733 | 23.22 | 3.89 | 5.19 | 1.29 | 9.05 | 79 |
| | C75BD009 | IC-80-3G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 8.5 TON, 30' BOOM, 4X2 | 69 HP | G | | $113,241 | 33.83 | 5.08 | 6.77 | 1.69 | 14.87 | 172 |
| | C75BD005 | IC-80-1G | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 9.0 TON, 20' BOOM, 4X2, NON-ROTATING OPERATOR'S CAB | 69 HP | G | | $109,594 | 33.31 | 4.92 | 6.55 | 1.64 | 14.87 | 163 |
| | C75BD006 | IC-200-3F | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15.0 TON, 50' BOOM, 4X2, NON-ROTATING OPERATOR'S CAB | 110 HP | G | | $160,308 | 51.05 | 7.17 | 9.56 | 2.39 | 23.71 | 308 |
| | C75BD010 | IC-250-3A | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 18.0 TON, 50' BOOM, 4X4 | 85 HP | D-off | | $189,596 | 38.15 | 8.50 | 11.34 | 2.83 | 8.94 | 384 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *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 | | $251,149 | 53.33 | 11.27 | 15.03 | 3.75 | 13.67 | 473 |
| | | | **GROVE CRANES (MANITOWOC)** | | | | | | | | | | |
| | C75GV021 | YB4410 | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 10 TON, 30' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB | 62 HP | G | | $126,253 | 34.00 | 5.66 | 7.56 | 1.88 | 13.36 | 173 |
| | C75GV022 | YB4415XT | CRANES, HYDRAULIC, SELF-PROPELLED, YARD, 15 TON, 52' BOOM, 4X4, NON-ROTATING OPERATOR'S CAB | 110 HP | D-off | | $157,021 | 36.47 | 7.02 | 9.36 | 2.34 | 11.56 | 313 |
| | C75GV028 | RT525E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 25 TON, 75' BOOM, 4X4X4 | 152 HP | D-off | | $294,173 | 63.05 | 13.14 | 17.50 | 4.39 | 15.98 | 500 |
| | C75GV023 | RT530E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 95' BOOM, 4X4 | 152 HP | D-off | | $303,182 | 70.60 | 13.17 | 17.28 | 4.53 | 15.98 | 580 |
| | C75GV024 | RT640E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 40 TON, 105' BOOM 4X4 | 173 HP | D-off | | $462,381 | 96.11 | 20.38 | 26.95 | 6.90 | 18.19 | 650 |
| | C75GV019 | RT750E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 50 TON, 110' BOOM, 4X4 | 240 HP | D-off | | $527,954 | 118.37 | 23.04 | 30.31 | 7.88 | 25.23 | 876 |
| | C75GV014 | RT760 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 60 TON, 110' BOOM, 4X4, W/HOOK BLOCK & BALL | 240 HP | D-off | | $528,160 | 118.40 | 23.05 | 30.32 | 7.89 | 25.23 | 909 |
| | C75GV025 | RT875C | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 70 TON, 110' BOOM 4X4 | 250 HP | D-off | | $839,758 | 163.70 | 37.16 | 49.24 | 12.54 | 26.28 | 1,091 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C75* | | | *GROVE CRANES (MANITOWOC) (continued)* | | | | | | | | | | |
| | C75GV020 | RT875 BXL | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 90 TON, 138' BOOM, 4X4 | 250 HP | D-off | | $844,696 | 163.80 | 37.48 | 49.74 | 12.61 | 26.28 | 1,119 |
| | C75GV016 | RT9130E | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 100 TON, 160' BOOM, 4X4, W/HOOK BLOCK & BALL | 300 HP | D-off | | $1,203,942 | 221.68 | 53.75 | 71.55 | 17.97 | 31.54 | 1,364 |
| | | | **PETTIBONE MICHIGAN LLC** | | | | | | | | | | |
| | C75PB002 | 40RS | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 20 TON, 64.1' BOOM, 4X4X4 | 185 HP | D-off | | $489,758 | 94.80 | 21.91 | 29.20 | 7.31 | 19.45 | 496 |
| | | | **TADANO AMERICA CORPORATION** | | | | | | | | | | |
| | C75TD003 | TR-300XL-4 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 112' BOOM, 4X4 | 180 HP | D-off | | $392,579 | 81.63 | 17.56 | 23.40 | 5.86 | 18.92 | 537 |
| | C75TD007 | TR-500XL-4 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 50 TON, 175' BOOM, 4X4 | 247 HP | D-off | | $739,280 | 141.61 | 32.72 | 43.36 | 11.04 | 25.96 | 882 |
| | C75TD008 | TR-650XL-3 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 65 TON, 180' BOOM, 4X4 | 247 HP | D-off | | $685,294 | 140.21 | 30.28 | 40.09 | 10.23 | 25.96 | 945 |
| | | | **TEREX CORPORATION** | | | | | | | | | | |
| | C75TE001 | RT230 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 30 TON, 94' BOOM, 4X4 | 130 HP | D-off | | $369,555 | 70.70 | 16.61 | 22.17 | 5.52 | 13.67 | 563 |
| | C75TE002 | RT335/40 | CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 40 TON, 94' BOOM, 4X4 | 152 HP | D-off | | $507,776 | 94.38 | 22.78 | 30.39 | 7.58 | 15.98 | 634 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C80 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **UNDER 26 TON** | | | | | | | | | | |
| | | | **TEREX CORPORATION** | | | | | | | | | | |
| | C80TE008 | CD225 | CRANES, HYDRAULIC, TRUCK MTD, ROUGH TERRAIN, 25 TON, 72' BOOM, 4X4 | 130 HP | D-off | | $290,619 | 54.04 | 12.95 | 17.21 | 4.34 | 11.77 | 525 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | C80XX001 | 1700 | CRANES, HYDRAULIC, TRUCK MTD, BOOM TRUCK, 17 TON, 80' BOOM, 4X2 | 245 HP | D-off | | $149,764 | 45.87 | 6.68 | 8.87 | 2.24 | 22.18 | 330 |
| | C80XX002 | 2300 | CRANES, HYDRAULIC, TRUCK MTD, BOOM TRUCK, 23.5 TON, 102' BOOM, 6X2 | 300 HP | D-off | | $195,638 | 58.01 | 8.69 | 11.53 | 2.92 | 27.16 | 600 |
| | **SUBCATEGORY 0.02** | | **26 TON THRU 65 TON** | | | | | | | | | | |
| | | | **GROVE CRANES (MANITOWOC)** | | | | | | | | | | |
| | C80GV025 | TMS-500E | CRANES, HYDRAULIC, TRUCK MTD, 40 TON, 95' BOOM, 6X4 | 300 HP | D-off | | $466,827 | 87.68 | 19.20 | 24.60 | 6.90 | 27.16 | 540 |
| | C80GV006 | TMS-700E | CRANES, HYDRAULIC, TRUCK MTD, 50 TON, 110' BOOM, 8X4 | 400 HP | D-off | | $714,291 | 127.89 | 29.41 | 37.69 | 10.56 | 36.21 | 771 |
| | C80GV029 | TMS750E | CRANES, HYDRAULIC, TRUCK MTD, 50 TON, 110' BOOM, 8X4X4 | 400 HP | D-off | | $713,642 | 128.60 | 29.29 | 37.47 | 10.55 | 36.21 | 947 |
| | C80GV026 | GMK 3050 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 55 TON, 125' BOOM, 8X4 | 348 HP | D-off | | $704,226 | 121.85 | 28.93 | 37.04 | 10.41 | 31.50 | 745 |
| | C80GV030 | TMS760E | CRANES, HYDRAULIC, TRUCK MTD, 60 TON, 110' BOOM, 8X4X4 | 400 HP | D-off | | $714,860 | 128.74 | 29.34 | 37.53 | 10.57 | 36.21 | 949 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **LINK-BELT CONSTRUCTION EQUIPMENT COMPANY** | | | | | | | | | | | |
| | C80LI009 | HTC-8640 SL | CRANES, HYDRAULIC, TRUCK MTD, 40 TON, 105' BOOM, 6X4X2 | 350 HP D-off | | $574,594 | 106.27 | 23.61 | 30.21 | 8.50 | 31.68 | 575 |
| | C80LI010 | HTC-8650 II | CRANES, HYDRAULIC, TRUCK MTD, 50 TON, 110' BOOM, 8X4X4 | 315 HP D-off | | $512,216 | 95.41 | 20.99 | 26.83 | 7.57 | 28.51 | 780 |
| | C80LI011 | HTC-8660 II | CRANES, HYDRAULIC, TRUCK MTD, 60 TON, 110' BOOM, 8X4X4 | 365 HP D-off | | $585,969 | 109.63 | 24.00 | 30.68 | 8.66 | 33.04 | 831 |
| | **TEREX CORPORATION** | | | | | | | | | | | |
| | C80TE002 | T335/40 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 40 TON, 94' BOOM, 6X4 | 250 HP D-off | | $377,670 | 72.15 | 15.48 | 19.79 | 5.58 | 22.63 | 493 |
| | C80TE003 | T 500 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 50 TON, 110' BOOM, 8X4 | 370 HP D-off | | $494,280 | 99.01 | 20.23 | 25.83 | 7.31 | 33.49 | 806 |
| | **SUBCATEGORY 0.03 66 TON THRU 125 TON** | | | | | | | | | | | |
| | **GROVE CRANES (MANITOWOC)** | | | | | | | | | | | |
| | C80GV020 | TMS-870 | CRANES, HYDRAULIC, TRUCK MTD, 70 TON, 110' BOOM, 8X4 | 400 HP D-off | | $872,937 | 142.89 | 33.26 | 40.91 | 12.80 | 36.21 | 9,161 |
| | C80GV031 | TMS875C | CRANES, HYDRAULIC, TRUCK MTD, 75 TON, 110' BOOM, 8X4X4 | 400 HP D-off | | $809,544 | 135.98 | 30.79 | 37.83 | 11.87 | 36.21 | 817 |
| | C80GV032 | GMK4090 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 80 TON, 142' BOOM, 8X6X8 | 422 HP D-off | | $1,078,679 | 174.08 | 40.95 | 50.26 | 15.82 | 38.20 | 1,184 |
| | **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 | $751,756 | 109.07 | 28.44 | 34.82 | 11.03 | 16.95 | 1,090 |
| | C80TD002 | ATF-1000XL | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 100 TON, 138' BOOM, 8X8 | 158 HP D-off | 375 HP D-on | $937,864 | 134.68 | 35.57 | 43.61 | 13.76 | 20.75 | 1,070 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.04** | | **OVER 125 TON** | | | | | | | | | |
| | | | **GROVE CRANES (MANITOWOC)** | | | | | | | | | |
| | C80GV013 | GMK 5240 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 125 TON, 197' BOOM, 10X8 | 174 HP D-off | 600 HP D-on | $2,115,780 | 273.40 | 75.46 | 89.15 | 30.88 | 26.07 | 1,180 |
| | C80GV014 | GMK 5240 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 165 TON, 197' BOOM, 10X8 | 174 HP D-off | 600 HP D-on | $2,121,363 | 274.03 | 75.66 | 89.39 | 30.96 | 26.07 | 1,336 |
| | C80GV015 | GMK 5240 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 200 TON, 197' BOOM, 10X8 | 174 HP D-off | 600 HP D-on | $2,130,202 | 275.02 | 75.98 | 89.77 | 31.09 | 26.07 | 2,348 |
| | C80GV016 | GMK 6350 | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 200 TON, 197' BOOM, 12X8 | 165 HP D-off | 525 HP D-on | $2,999,867 | 370.90 | 107.07 | 126.58 | 43.78 | 23.97 | 1,425 |
| | | | **TADANO AMERICA CORPORATION** | | | | | | | | | |
| | C80TD005 | ATF-1500XL | CRANES, HYDRAULIC, TRUCK MTD, ALL TERRAIN, 150 TON, 162' BOOM, 10X8 | 533 HP D-off | 503 HP D-on | $1,125,725 | 193.31 | 39.97 | 47.08 | 16.43 | 56.90 | 1,330 |
| C85 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | |
| | **SUBCATEGORY 0.12** | | **DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY** | | | | | | | | | |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | C85LB019 | LS-208H II | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 80 TON, 100' BOOM (ADD BUCKET) | 263 HP D-off | | $823,722 | 129.69 | 33.23 | 41.19 | 12.63 | 19.97 | 1,390 |
| | | | **TEREX CORPORATION** | | | | | | | | | |
| | C85TE001 | 5220 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 50 TON, 100' BOOM (ADD BUCKET) | 150 HP D-off | | $668,758 | 99.68 | 26.98 | 33.44 | 10.26 | 11.39 | 831 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C85 | | | *TEREX CORPORATION (continued)* | | | | | | | | | |
| | C85TE002 | 7225 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 85 TON, 100' BOOM (ADD BUCKET) | 250 HP D-off | | $930,300 | 142.31 | 37.53 | 46.52 | 14.27 | 18.98 | 1,259 |
| | **SUBCATEGORY 0.13** | | **DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY** | | | | | | | | | |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | C85LB021 | 238 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 150 TON, 100' BOOM (ADD BUCKET) | 284 HP D-off | | $1,335,921 | 188.38 | 50.02 | 59.37 | 20.33 | 21.56 | 3,357 |
| | C85LB022 | LS-248H II | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 200 TON, 120' BOOM (ADD BUCKET) | 237 HP D-off | | $1,544,749 | 210.16 | 57.84 | 68.66 | 23.51 | 17.99 | 3,242 |
| | | | **MANITOWOC ENGINEERING CO.** | | | | | | | | | |
| | C85MA001 | 222HD | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 3.5 CY, 80' BOOM (ADD BUCKET) | 350 HP D-off | | $1,059,085 | 159.83 | 39.66 | 47.07 | 16.12 | 26.57 | 1,988 |
| | C85MA002 | 777 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 5.0 CY, 130' BOOM (ADD BUCKET) | 340 HP D-off | | $1,297,021 | 188.30 | 48.57 | 57.65 | 19.74 | 25.81 | 3,815 |
| | | | **TEREX CORPORATION** | | | | | | | | | |
| | C85TE003 | 9225 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 150 TON, 100' BOOM (ADD BUCKET) | 335 HP D-off | | $1,171,734 | 172.45 | 43.87 | 52.08 | 17.83 | 25.43 | 2,482 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.14** | | **DRAGLINE, CLAMSHELL, OVER 5.0 CY** | | | | | | | | | | |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | | |
| | C85LB023 | LS-278H | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 250 TON, 120' BOOM (ADD BUCKET) | 440 HP | D-off | | $1,819,880 | 252.56 | 63.96 | 72.80 | 27.56 | 33.40 | 4,064 |
| | | | **MANITOWOC ENGINEERING CO.** | | | | | | | | | | |
| | C85MA003 | 999 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 7.0 CY, 140' BOOM (ADD BUCKET) | 375 HP | D-off | | $1,932,161 | 260.34 | 67.91 | 77.29 | 29.26 | 28.47 | 5,100 |
| | C85MA009 | 888 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, DRAGLINE/CLAMSHELL, 10 CY, 70' BOOM (ADD BUCKET) | 340 HP | D-off | | $1,698,518 | 229.72 | 59.69 | 67.94 | 25.72 | 25.81 | 3,397 |
| | **SUBCATEGORY 0.22** | | **LIFTING, 26 TON THRU 50 TON** | | | | | | | | | | |
| | | | **KOBELCO AMERICA INC.** | | | | | | | | | | |
| | C85KC007 | CK550 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 50 TON, 30' BOOM, LIFTING | 178 HP | D-off | | $614,295 | 78.27 | 23.00 | 27.30 | 9.35 | 9.88 | 1,001 |
| | **SUBCATEGORY 0.23** | | **LIFTING, 51 TON THRU 150 TON** | | | | | | | | | | |
| | | | **KOBELCO AMERICA INC.** | | | | | | | | | | |
| | C85KC004 | CK550 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 55 TON, 160' BOOM, LIFTING | 178 HP | D-off | | $663,872 | 82.75 | 23.80 | 28.21 | 9.69 | 9.88 | 1,071 |
| | C85KC005 | CK850 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 85 TON, 180' BOOM, LIFTING | 213 HP | D-off | | $765,659 | 95.92 | 27.44 | 32.54 | 11.17 | 11.82 | 1,729 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C85* | | | *KOBELCO AMERICA INC. (continued)* | | | | | | | | | |
| | C85KC003 | CK1000 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 200' BOOM, LIFTING | 265 HP D-off | | $1,051,565 | 130.03 | 37.70 | 44.69 | 15.35 | 14.70 | 1,899 |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | C85LB013 | LS-208H II | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 190' BOOM, LIFTING | 263 HP D-off | | $847,342 | 107.82 | 30.38 | 36.01 | 12.37 | 14.59 | 1,390 |
| | C85LB014 | 218 HSL | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 110 TON, 230' BOOM, LIFTING | 284 HP D-off | | $965,264 | 121.86 | 34.60 | 41.02 | 14.09 | 15.76 | 1,790 |
| | C85LB015 | 238 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 150 TON, 240' BOOM, LIFTING | 284 HP D-off | | $1,335,921 | 161.98 | 47.89 | 56.78 | 19.50 | 15.76 | 3,357 |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT COMPANY** | | | | | | | | | |
| | C85LI001 | LS-138H SERIES II | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 40' TUBULAR BOOM, LIFTING | 207 HP D-off | | $693,039 | 87.67 | 24.84 | 29.45 | 10.11 | 11.48 | 1,464 |
| | | | **MANITOWOC ENGINEERING CO.** | | | | | | | | | |
| | C85MA004 | 222HD | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 210' BOOM, LIFTING | 350 HP D-off | | $1,046,953 | 134.76 | 37.53 | 44.50 | 15.28 | 19.42 | 2,354 |
| | C85MA008 | 555 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 260' BOOM, LIFTING | 335 HP D-off | | $1,038,163 | 132.89 | 37.21 | 44.12 | 15.15 | 18.59 | 3,121 |
| | C85MA005 | 555 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 150 TON, 250' BOOM, LIFTING | 335 HP D-off | | $980,695 | 126.67 | 35.15 | 41.68 | 14.31 | 18.59 | 2,744 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **TEREX CORPORATION** | | | | | | | | | | |
| | C85TE008 | HC 80 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 80 TON, 200' BOOM, LIFTING | 184 HP | D-off | | $702,210 | 87.26 | 25.17 | 29.84 | 10.25 | 10.21 | 1,430 |
| | C85TE009 | HC 110 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 100 TON, 230' BOOM, LIFTING | 230 HP | D-off | | $865,484 | 107.76 | 31.02 | 36.78 | 12.63 | 12.76 | 1,911 |
| | C85TE010 | HC 125 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 125 TON, 240' BOOM, LIFTING | 240 HP | D-off | | $1,148,820 | 139.03 | 41.18 | 48.82 | 16.77 | 13.32 | 2,128 |
| | **SUBCATEGORY 0.24** | | **LIFTING, OVER 150 TON** | | | | | | | | | | |
| | | | **KOBELCO AMERICA INC.** | | | | | | | | | | |
| | C85KC008 | CK2000 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 50' BOOM, LIFTING | 316 HP | D-off | | $1,394,541 | 166.11 | 47.16 | 53.88 | 20.22 | 17.53 | 3,622 |
| | C85KC006 | CK2500 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 250 TON, 280' BOOM, LIFTING | 279 HP | D-off | | $1,964,878 | 223.76 | 66.45 | 75.92 | 28.49 | 15.48 | 4,985 |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | | |
| | C85LB016 | 248 HYLAB 5 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 280' BOOM, LIFTING | 284 HP | D-off | | $1,687,716 | 194.95 | 57.08 | 65.21 | 24.47 | 15.76 | 3,242 |
| | C85LB017 | LS-278H | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 250 TON, 330' BOOM, LIFTING | 440 HP | D-off | | $1,905,037 | 227.44 | 64.42 | 73.60 | 27.62 | 24.41 | 4,064 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **MANITOWOC ENGINEERING CO.** | | | | | | | | | |
| | C85MA006 | 777 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 200 TON, 260' BOOM, LIFTING | 340 HP D-off | | $1,363,030 | 164.28 | 46.09 | 52.66 | 19.76 | 18.86 | 3,929 |
| | C85MA010 | 888 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 230 TON, 300' BOOM, LIFTING | 340 HP D-off | | $1,740,662 | 203.97 | 58.87 | 67.25 | 25.24 | 18.86 | 3,697 |
| | C85MA007 | 999 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 250 TON, 260' BOOM, LIFTING | 375 HP D-off | | $1,923,293 | 225.34 | 65.05 | 74.31 | 27.89 | 20.81 | 4,942 |
| | | | **TEREX CORPORATION** | | | | | | | | | |
| | C85TE011 | HC 210 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER, 210 TON, 280' BOOM, LIFTING | 315 HP D-off | | $1,695,595 | 197.69 | 57.35 | 65.51 | 24.59 | 17.48 | 3,708 |
| C90 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | |
| | **SUBCATEGORY 0.04** | | **OVER 125 TON** | | | | | | | | | |
| | | | **LINK-BELT CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | C90LB001 | HC-238H II | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 150 TON, 260' BOOM, 8X4 | 197 HP D-off | 430 HP D-on | $1,529,314 | 198.99 | 53.44 | 60.55 | 23.16 | 21.21 | 1,913 |
| | C90LB002 | HC-248H | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 200 TON, 280' BOOM, 8X4 | 248 HP D-off | 430 HP D-on | $1,726,137 | 224.51 | 60.35 | 68.42 | 26.14 | 24.78 | 2,476 |
| | C90LB003 | HC-278 H II | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MTD, 300 TON, 330' BOOM, 12X6 | 430 HP D-off | 430 HP D-on | $2,773,571 | 357.31 | 97.01 | 110.00 | 42.01 | 37.53 | 3,385 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C95 | CRANES, TOWER | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **CRANES, TOWER** | | | | | | | | | | |
| | | | **PECCO AND WOLFF TOWER CRANES (MORROW)** | | | | | | | | | | |
| | C95AP004 | SK200 | TOWER CRANE, 3.4 TON @ 181' RADIUS 42.6' HEIGHT (ADD 95KW GENERATOR & T-SECTION) | 128 HP | E | | $537,519 | 79.54 | 20.13 | 23.89 | 8.18 | 8.07 | 970 |
| | C95AP005 | S16-35 TOWER SECTION | TOWER CRANE OPTION, 1.1' T-TRANSITION S35 -S16 (ADD SK 140 - SK 225 TOWER CRANE) | | | | $17,254 | 2.01 | 0.65 | 0.77 | 0.26 | 0.00 | 16 |
| | C95AP006 | S35 TOWER SECTION | TOWER CRANE OPTION, 19.33' TOWER SECTION (ADD TO SK 140 - SK 400 TOWER CRANE) | | | | $33,262 | 3.88 | 1.25 | 1.48 | 0.51 | 0.00 | 89 |
| | C95AP007 | SK400 | TOWER CRANE, 3.3 TON @ 245' RADIUS, 56.7' HEIGHT (ADD 160 KW GENERATOR & T-SECTION) | 213 HP | E | | $849,037 | 125.40 | 31.79 | 37.73 | 12.92 | 13.43 | 1,783 |
| | C95AP008 | S35 CLIMBING UNIT | TOWER CRANE OPTION, 29.2' CLIMBING UNIT (ADD TO SK 200 - SK 400 TOWER CRANE) | | | | $133,379 | 16.03 | 5.00 | 5.93 | 2.03 | 0.00 | 248 |
| | C95AP009 | S35-60 TOWER SECTION | TOWER CRANE OPTION, 19.4' T-TRANSITION S60 S35 (ADD SK 225 - SK 560 TOWER CRANE) | | | | $44,594 | 5.19 | 1.67 | 1.98 | 0.68 | 0.00 | 99 |
| | C95AP010 | SK560 | TOWER CRANE, 2.8 TON @ 265' RADIUS, 76.5' HEIGHT (ADD 161 KW GENERATOR &T-SECTION) | 217 HP | E | | $1,134,136 | 159.01 | 42.47 | 50.41 | 17.26 | 13.68 | 1,557 |
| | C95AP011 | S60 TOWER SECTION | TOWER CRANE OPTION, 19.33' TOWER SECTION (ADD TO SK 225 - SK 560 TOWER CRANE) | | | | $41,751 | 4.87 | 1.57 | 1.86 | 0.64 | 0.00 | 99 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C95* | | | *PECCO AND WOLFF TOWER CRANES (MORROW) (continued)* | | | | | | | | | | |
| | C95AP012 | S60 CLIMB UNIT | TOWER CRANE OPTION, 32.8' CLIMBING UNIT (ADD TO SK 225 - SK 560 TOWER CRANE) | | | | $165,799 | 19.80 | 6.21 | 7.37 | 2.52 | 0.00 | 258 |
| | C95AP013 | SN355 | TOWER CRANE, 3.8 TON @ 197' RADIUS, 110' TALL, LUFFING (ADD 300 KW GENERATOR & T-SECTION) | 354 HP | E | | $1,083,127 | 166.93 | 40.55 | 48.14 | 16.48 | 22.32 | 2,748 |
| | C95AP014 | SN35 TOWER SECTION | TOWER CRANE OPTION, 14.75' TOWER SECTION (ADD TO SN 141 - SN 355 TOWER CRANE) | | | | $37,980 | 4.43 | 1.43 | 1.69 | 0.58 | 0.00 | 89 |
| | C95AP015 | SN35 CLIMBING UNIT | TOWER CRANE OPTION, 29.2' CLIMBING UNIT (ADD TO SN 141 - SN 355 TOWER CRANE) | | | | $144,839 | 17.36 | 5.42 | 6.44 | 2.20 | 0.00 | 248 |
| | C95AP016 | S35N-60TOWER SECTION | TOWER CRANE OPTION, 19.4' T-TRANSITION S60 S35N (ADD SN 141 - SK 355 TOWER CRANE) | | | | $50,802 | 5.91 | 1.90 | 2.26 | 0.77 | 0.00 | 99 |
| | C95AP017 | SK140 | TOWER CRANE, 3.1 TON @ 151' RADIUS, 85.0' HEIGHT (ADD 95KW GENERATOR & T-SECTION) | 125 HP | E | | $457,984 | 68.96 | 17.15 | 20.35 | 6.97 | 7.88 | 1,309 |
| | C95AP018 | S16 TOWER SECTION | TOWER CRANE OPTION, 14.75' TOWER SECTION (ADD TO SK 140 - SK 200 TOWER CRANE) | | | | $16,069 | 1.86 | 0.60 | 0.71 | 0.24 | 0.00 | 55 |
| | C95AP019 | S16 CLIMBING UNIT | TOWER CRANE OPTION, 29.2' CLIMBING UNIT (ADD TO SK140 - SK 200 TOWER CRANE) | | | | $90,236 | 11.00 | 3.38 | 4.01 | 1.37 | 0.00 | 165 |
| | C95AP020 | SN141 | TOWER CRANE, 1.6 TON @ 147' RADIUS, 89' TALL, LUFFING (ADD 200 KW GENERATOR & T-SECTION) | 223 HP | E | | $505,270 | 84.40 | 18.92 | 22.46 | 7.69 | 14.06 | 1,082 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C95* | | | *PECCO AND WOLFF TOWER CRANES (MORROW) (continued)* | | | | | | | | | | |
| | C95AP021 | SN160-16 | TOWER CRANE, 2.8 TON @ 164' RADIUS, 88' TALL, LUFFING (ADD 250 KW GENERATOR & T-SECTION) | 258 HP | E | | $791,062 | 122.21 | 29.62 | 35.16 | 12.04 | 16.27 | 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 | | $121,389 | 17.56 | 4.55 | 5.40 | 1.85 | 1.51 | 130 |
| | C95AP023 | MAST SECTION | TOWER CRANE OPTION, 4.9' MAST-> PERSON/MATERIAL ELEVATOR/HOIST (ADD WALL TIE & CABLE GUIDE @30') | | | | $2,865 | 0.33 | 0.11 | 0.13 | 0.04 | 0.00 | 3 |
| | | | **MORROW EQUIPMENT 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 | | $415,910 | 54.34 | 15.50 | 18.33 | 6.33 | 2.21 | 1,593 |
| | 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 | | $580,944 | 77.64 | 21.66 | 25.64 | 8.84 | 4.10 | 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 | | $468,747 | 68.59 | 17.55 | 20.83 | 7.13 | 6.87 | 1,156 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *C95* | | | *MORROW EQUIPMENT COMPANY, LLC (continued)* | | | | | | | | | | |
| | 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 | | $609,935 | 89.99 | 22.84 | 27.11 | 9.28 | 9.33 | 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 | | $1,139,269 | 160.22 | 42.66 | 50.63 | 17.34 | 14.06 | 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 | | $1,454,758 | 196.96 | 54.47 | 64.66 | 22.14 | 14.06 | 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 | | $1,938,810 | 264.82 | 72.59 | 86.17 | 29.50 | 19.99 | 5,075 |
| D10 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **DRILLS, AIR TRACK (Add cost for drill steel and bit wear)** | | | | | | | | | | |
| | | | **INGERSOLL 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 | | $166,606 | 28.38 | 7.14 | 8.93 | 2.67 | 0.00 | 129 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SULLIVAN-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 | | $205,141 | 34.76 | 8.78 | 10.99 | 3.28 | 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 | | $210,677 | 35.68 | 9.02 | 11.29 | 3.37 | 0.00 | 205 |
| | **SUBCATEGORY 0.20** | | **DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear)** | | | | | | | | | | |
| | | | **INGERSOLL 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 | | $447,037 | 128.04 | 24.11 | 33.53 | 7.34 | 23.86 | 245 |
| | | | **SULLIVAN-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 | | $229,207 | 84.52 | 12.36 | 17.19 | 3.76 | 28.85 | 265 |
| | D10SU006 | SCORPION VCR361 | DRILL, HYDRAULIC TRACK, CRAWLER, 6.5" DIA, 12' FEED (ADD COST FOR DRILL STEEL AND BIT WEAR) | 260 HP | D-off | | $231,946 | 85.14 | 12.51 | 17.40 | 3.81 | 28.85 | 265 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D15 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | | | | | | | | | | | | |
| | SUBCATEGORY 0.00 | | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | | | | | | | | | | |
| | | | BOR-IT MANUFACTURING COMPANY INC. | | | | | | | | | | |
| | D15BI001 | 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 | | $15,521 | 6.45 | 0.83 | 1.16 | 0.25 | 2.74 | 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 | | $27,638 | 8.38 | 1.49 | 2.07 | 0.45 | 2.22 | 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 | | $41,975 | 12.70 | 2.27 | 3.15 | 0.69 | 3.33 | 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 | | $65,496 | 19.59 | 3.54 | 4.91 | 1.08 | 4.99 | 70 |
| | D15BI005 | 36 WORKHORSE | DRILL, HORIZONTAL BORING, 36" DIA, COMBINED HEAD 225,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 62 HP | D-off | | $84,242 | 25.70 | 4.54 | 6.32 | 1.38 | 6.88 | 90 |
| | D15BI006 | 48 TERMINATOR | DRILL, HORIZONTAL BORING, 48" DIA, COMBINED HEAD 525,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 119 HP | D-off | | $141,529 | 45.05 | 7.63 | 10.61 | 2.32 | 13.20 | 170 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *D15* | | | *BOR-IT MANUFACTURING COMPANY INC. (continued)* | | | | | | | | | |
| | 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 | | $175,137 | 61.01 | 9.44 | 13.14 | 2.87 | 20.97 | 250 |
| | D15BI007 | 60 | DRILL, HORIZONTAL BORING, 60" DIA, COMBINED HEAD 1,100,000 LBS THRUST, W/100' AUGER TRACK (ADD COST FOR DRILL STEEL AND BIT WEAR) | 189 HP D-off | | $187,687 | 63.68 | 10.12 | 14.08 | 3.08 | 20.97 | 250 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | D15XX001 | MC-500H | DRILL, HORIZONTAL BORING, 3" - 6" DIA, 15,000 LBS THRUST, HYDRAULIC MOTOR (ADD COST FOR DRILL STEEL AND BIT WEAR) | | | $8,538 | 1.81 | 0.46 | 0.64 | 0.14 | 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) | | | $12,819 | 2.72 | 0.69 | 0.96 | 0.21 | 0.00 | 12 |
| **D20** | **DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear)** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear)** | | | | | | | | | |
| | | | **ACKER DRILL COMPANY INC.** | | | | | | | | | |
| | D20AD005 | 630-E | DRILL, CORE, COLUMN MOUNTED, 4" DIA MAX CORE HOLE (ADD COST FOR DRILL STEEL AND BIT WEAR) | 2 HP E | | $5,815 | 1.98 | 0.38 | 0.55 | 0.10 | 0.16 | 1 |
| | D20AD002 | 930-E | DRILL, CORE, COLUMN MOUNTED, 10" DIA MAX CORE HOLE (ADD COST FOR DRILL STEEL AND BIT WEAR) | 2 HP E | | $5,922 | 2.01 | 0.38 | 0.56 | 0.10 | 0.16 | 2 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *D20* | | | *ACKER DRILL COMPANY INC. (continued)* | | | | | | | | | |
| | D20AD006 | 1040-E | DRILL, CORE, COLUMN MOUNTED, 10" DIA MAX CORE HOLE (ADD COST FOR DRILL STEEL AND BIT WEAR) | 4 HP E | | $9,618 | 3.31 | 0.61 | 0.90 | 0.16 | 0.31 | 1 |
| | D20AD007 | 1200-G | DRILL, CORE, COLUMN MOUNTED, 12" DIA MAX CORE HOLE (ADD COST FOR DRILL STEEL AND BIT WEAR) | 8 HP E | | $15,886 | 5.79 | 1.02 | 1.49 | 0.27 | 0.62 | 3 |
| | | | **CUSHION CUT, INC.** | | | | | | | | | |
| | D20CQ001 | HCD24/12 | DRILL, CORE, COLUMN MOUNTED, 1"-24" BIT DIA (ADD COST FOR DRILL STEEL AND BIT WEAR) | 16 HP G | | $14,280 | 9.05 | 0.91 | 1.34 | 0.24 | 3.65 | 5 |
| | | | **BOART LONGYEAR COMPANY** | | | | | | | | | |
| | D20LY001 | 752 | DRILL, CORE, COLUMN MOUNTED, 1.5"-6" BIT DIA, W/E4-230/110 MOTOR (110V) (ADD COST FOR DRILL STEEL AND BIT WEAR) | 3 HP E | | $8,572 | 3.02 | 0.54 | 0.80 | 0.14 | 0.23 | 2 |
| | D20LY002 | 42N | DRILL, CORE, COLUMN MOUNTED, 0.5"-36" BIT DIA, W/A4-350 MOTOR (ADD COST FOR DRILL STEEL AND BIT WEAR AND ADD 185 CFM AIR COMPRESSOR) | 185 CFM A | | $8,876 | 2.85 | 0.57 | 0.83 | 0.15 | 0.00 | 3 |
| **D25** | **DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear)** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear)** | | | | | | | | | |
| | | | **ACKER DRILL COMPANY INC.** | | | | | | | | | |
| | D25AD004 | ACEW | DRILL, CORE, SKID MTD, 725' MAX DRILL DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR) | 28 HP D-off | | $83,007 | 22.22 | 4.48 | 6.23 | 1.36 | 3.11 | 35 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *D25* | | | *ACKER DRILL COMPANY INC. (continued)* | | | | | | | | | |
| | D25AD003 | BUSH MASTER | DRILL, CORE, SKID MTD, 1500' MAX DRILL DEPTH (ADD COST FOR DRILL STEEL AND BIT WEAR) | 69 HP D-off | | $104,063 | 32.05 | 5.61 | 7.80 | 1.71 | 7.66 | 45 |
| | | | **E-Z DRILL, INC.** | | | | | | | | | |
| | D25EZ002 | 210 B | DRILL, CORE, SKID MTD, 0.6"-2.5" DIA., 18" DEPTH, HORIZONTAL DOWELLING ASSEMBLY (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 100 CFM COMPRESSOR) | 100 CFM A | | $6,893 | 2.06 | 0.35 | 0.47 | 0.11 | 0.00 | 3 |
| | D25EZ003 | 210 B SRA | DRILL, CORE, SKID MTD, 0.6"-2.5" DIA., 18" DEPTH, HORIZONTAL DOWELLING ASSEMBLY (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 100 CFM COMPRESSOR) | 100 CFM A | | $7,330 | 2.16 | 0.38 | 0.52 | 0.12 | 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 | | $7,854 | 2.28 | 0.43 | 0.59 | 0.13 | 0.00 | 3 |
| | D25EZ005 | 210-3 SRA | DRILL, CORE, SELF PROPELLED, 0.6"-2.5" DIA., 18" DEPTH, DOWELLING MACHINE (ADD COST FOR DRILL STEEL AND BIT WEAR, ADD 100 CFM COMPRESSOR) | 100 CFM A | | $27,049 | 7.36 | 1.43 | 1.97 | 0.44 | 0.00 | 12 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D30 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear)** | | | | | | | | | | |
| | | | **HYDRAULIC POWER SYSTEMS, INC.** | | | | | | | | | | |
| | D30HD001 | H-15 | DRILL, AUGER, HYDRAULIC, W/60' 8" X 21" LEADS, 15,000 FT-LBS TORQUE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR AND CRANE) | 210 HP | D-off | | $79,975 | 46.52 | 4.31 | 6.00 | 1.31 | 23.30 | 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 | | $119,714 | 64.05 | 6.45 | 8.98 | 1.96 | 29.96 | 200 |
| | D30HD003 | H-50VT | DRILL, AUGER, HYDRAULIC, W/60' 8" X 33" LEADS, 50,000 FT-LBS TORQUE (ADD COST FOR DRILL STEEL AND CUTTING EDGE WEAR AND CRANE) | 335 HP | D-off | | $155,770 | 81.38 | 8.40 | 11.68 | 2.56 | 37.17 | 269 |
| | | | **FOREMOST MOBILE 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 | | $12,805 | 5.00 | 0.69 | 0.96 | 0.21 | 1.83 | 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 | | $86,952 | 26.92 | 4.66 | 6.45 | 1.43 | 6.44 | 42 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *D30* | | | *FOREMOST MOBILE DRILLING COMPANY, INC. (continued)* | | | | | | | | | | | |
| | 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 | $209,598 | 64.47 | 11.20 | 15.51 | 3.44 | 15.06 | 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 | $215,972 | 68.38 | 11.54 | 15.99 | 3.54 | 17.23 | 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 | $273,288 | 81.33 | 14.64 | 20.29 | 4.49 | 17.23 | 205 |
| **D35** | **DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear)** | | | | | | | | | | | | | |
| | **SUBCATEGORY 0.11** | | **DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear)** | | | | | | | | | | | |
| | | | **DRILTECH, 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 | | | $608,056 | 161.64 | 26.79 | 34.75 | 9.41 | 49.93 | 620 |
| | D35DT002 | D245S | 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 | | | $624,449 | 164.41 | 27.51 | 35.68 | 9.67 | 49.93 | 720 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *D35* | | | *DRILTECH, INC. (SANDVIK) (continued)* | | | | | | | | | |
| | 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 | | $701,955 | 177.48 | 30.93 | 40.11 | 10.87 | 49.93 | 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 | | $745,630 | 194.68 | 32.85 | 42.61 | 11.54 | 58.25 | 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 | | $1,163,522 | 296.03 | 51.26 | 66.49 | 18.01 | 84.33 | 1,320 |
| | | | **REEDRILL (TEREX)** | | | | | | | | | |
| | D35RD001 | SK5AD | DRILL, ROTARY BLASTHOLE, 4"-7" DIA, 12,000 LBS PULL BACK, TRUCK MTD, 148' DEEP (ADD COST FOR DRILL STEEL AND BIT WEAR) | 400 HP D-off | 350 HP D-on | $459,071 | 137.08 | 20.23 | 26.23 | 7.11 | 50.40 | 525 |
| | **SUBCATEGORY 0.12** | | **DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear)** | | | | | | | | | |
| | | | **DRILTECH, 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 | | $1,029,571 | 235.67 | 38.55 | 45.76 | 15.67 | 84.33 | 1,400 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **INGERSOLL RAND ROTARY DRILL DIV** | | | | | | | | | |
| | 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 | $645,714 | 154.41 | 24.06 | 28.46 | 9.83 | 58.14 | 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 | $677,096 | 159.79 | 25.25 | 29.90 | 10.30 | 59.25 | 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 | $748,275 | 182.27 | 27.90 | 33.02 | 11.39 | 70.34 | 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 | $786,633 | 189.14 | 29.34 | 34.73 | 11.97 | 71.83 | 688 |
| F10 | FORK LIFTS | | | | | | | | | | | |
| | **SUBCATEGORY 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 | | $73,892 | 22.03 | 4.06 | 5.76 | 1.18 | 6.79 | 150 |
| | F10JC002 | 940-4 | FORK LIFT, ROUGH TERRAIN, 8,000 LBS @ 30' HIGH STRAIGHT MAST, 4X4 | 75 HP D-off | | $80,398 | 23.26 | 4.42 | 6.28 | 1.28 | 6.79 | 165 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **G10** | **GENERATOR SETS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **PORTABLE** | | | | | | | | | |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | G10WC00 | GP 3800A | GENERATOR SET, PORTABLE, 3.7 KW, 120/240V, 60 HZ | 8 HP G | | $2,238 | 2.17 | 0.16 | 0.25 | 0.03 | 1.50 | 2 |
| | G10WC00 | GP 5600A | GENERATOR SET, PORTABLE, 5.6 KW, 120/240V, 60 HZ | 11 HP G | | $2,585 | 2.88 | 0.19 | 0.29 | 0.04 | 2.06 | 2 |
| | G10WC00 | GS 8.5V | GENERATOR SET, PORTABLE, 8.5 KW, 120/240V, 60 HZ, WITH ELECTRIC START | 16 HP G | | $4,803 | 4.42 | 0.34 | 0.54 | 0.07 | 2.99 | 2 |
| | G10WC00 | GS 9.7V | GENERATOR SET, PORTABLE, 9.7 KW, 120/240V, 60 HZ, WITH ELECTRIC START | 18 HP G | | $3,886 | 4.64 | 0.28 | 0.44 | 0.06 | 3.37 | 2 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | G10XX001 | 1000 | GENERATOR SET, PORTABLE, 1 KW | 1 HP G | | $1,023 | 0.45 | 0.08 | 0.12 | 0.02 | 0.19 | 1 |
| | G10XX004 | D4500 | GENERATOR SET, PORTABLE, 5 KW | 9 HP D-off | | $5,851 | 2.22 | 0.42 | 0.66 | 0.09 | 0.81 | 3 |
| | G10XX002 | 10000 | GENERATOR SET, PORTABLE, 10 KW | 19 HP G | | $5,008 | 5.09 | 0.36 | 0.56 | 0.08 | 3.55 | 6 |
| | G10XX003 | 10000D | GENERATOR SET, PORTABLE, 10 KW | 23 HP D-off | | $11,352 | 4.88 | 0.81 | 1.28 | 0.17 | 2.08 | 9 |
| | **SUBCATEGORY 0.20** | | **SKID MOUNTED** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | G10CA020 | 3304 PKG - P 304DE03 | GENERATOR SET, SKID MTD, 113 EKW, 240/480V, 60 HZ PGS PRIME | 174 HP D-off | | $28,135 | 23.08 | 1.69 | 2.53 | 0.42 | 15.75 | 37 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *G10* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | | |
| | G10CA012 | 3306 PKG - 306DE39 | GENERATOR SET, SKID MTD, 210 EKW, 240 VOLT, 60 HZ PGS PRIME | 314 HP | D-off | | $35,279 | 38.63 | 2.12 | 3.18 | 0.53 | 28.42 | 50 |
| | G10CA013 | 3406 PKG - 306DE30 | GENERATOR SET, SKID MTD, 275 EKW, 480 VOLT, 60 HZ PGS PRIME | 405 HP | D-off | | $45,514 | 49.84 | 2.73 | 4.10 | 0.68 | 36.66 | 68 |
| | G10CA014 | 3406 PKG - 406DE30 | GENERATOR SET, SKID MTD, 365 EKW, 240/480V, 60 HZ PGS PRIME | 536 HP | D-off | | $59,573 | 65.82 | 3.57 | 5.36 | 0.89 | 48.52 | 72 |
| | G10CA015 | 3412 PKG - 412DE3H | GENERATOR SET, SKID MTD, 455 EKW, 240/480V, 60 HZ PGS PRIME | 687 HP | D-off | | $82,467 | 85.55 | 4.94 | 7.42 | 1.23 | 62.19 | 93 |
| | G10CA016 | 3412 PKG - 412DE30 | GENERATOR SET, SKID MTD, 545 EKW, 240/480V, 60 HZ PGS PRIME | 817 HP | D-off | | $100,671 | 102.25 | 6.03 | 9.06 | 1.50 | 73.95 | 100 |
| | G10CA017 | 3508 PKG - 508DE34 | GENERATOR SET, SKID MTD, 725 EKW, 480 VOLT, 60 HZ PGS PRIME | 1,089 HP | D-off | | $158,379 | 141.04 | 9.49 | 14.25 | 2.36 | 98.58 | 181 |
| | G10CA018 | 3512 PKG - 512DE1F | GENERATOR SET, SKID MTD, 1000 EKW, 480 VOLT, 60 HZ PGS PRIME | 1,443 HP | D-off | | $201,203 | 185.19 | 12.06 | 18.11 | 3.00 | 130.62 | 236 |
| | G10CA019 | 3516 PKG - 516DE35 | GENERATOR SET, SKID MTD, 1600 EKW, 480 VOLT, 60 HZ PGS PRIME | 2,304 HP | D-off | | $336,106 | 298.60 | 20.14 | 30.25 | 5.01 | 208.56 | 291 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | G10XX005 | 25G | GENERATOR SET, SKID MTD, 25 KW | 36 HP | G | | $17,947 | 11.03 | 1.08 | 1.62 | 0.27 | 6.73 | 16 |
| | G10XX006 | 35G | GENERATOR SET, SKID MTD, 35 KW | 50 HP | G | | $15,823 | 13.53 | 0.95 | 1.42 | 0.24 | 9.35 | 17 |
| | G10XX007 | 50G | GENERATOR SET, SKID MTD, 50 KW | 70 HP | G | | $23,866 | 19.29 | 1.44 | 2.15 | 0.36 | 13.09 | 26 |
| | G10XX008 | 75D | GENERATOR SET, SKID MTD, 75 KW | 107 HP | D-off | | $29,275 | 16.55 | 1.76 | 2.63 | 0.44 | 9.69 | 38 |
| | G10XX009 | 100D | GENERATOR SET, SKID MTD, 100 KW | 143 HP | D-off | | $25,221 | 19.39 | 1.52 | 2.27 | 0.38 | 12.94 | 42 |
| | G10XX010 | 125D | GENERATOR SET, SKID MTD, 125 KW | 200 HP | D-off | | $37,347 | 27.52 | 2.24 | 3.36 | 0.56 | 18.10 | 44 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *G10* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | | |
| | G10XX011 | 200D | GENERATOR SET, SKID MTD, 200 KW | 375 HP | D-off | | $41,168 | 45.95 | 2.47 | 3.71 | 0.61 | 33.95 | 60 |
| | G10XX012 | 300D | GENERATOR SET, SKID MTD, 300 KW | 428 HP | D-off | | $49,161 | 52.86 | 2.94 | 4.42 | 0.73 | 38.74 | 105 |
| | G10XX013 | 400D | GENERATOR SET, SKID MTD, 400 KW | 570 HP | D-off | | $61,674 | 69.67 | 3.70 | 5.55 | 0.92 | 51.60 | 150 |
| | G10XX014 | 500D | GENERATOR SET, SKID MTD, 500 KW | 713 HP | D-off | | $88,205 | 89.31 | 5.28 | 7.94 | 1.31 | 64.54 | 170 |
| | G10XX015 | 750D | GENERATOR SET, SKID MTD, 750 KW | 1,050 HP | D-off | | $144,790 | 134.44 | 8.68 | 13.03 | 2.16 | 95.05 | 215 |
| | G10XX016 | 1000D | GENERATOR SET, SKID MTD, 1,000 KW | 1,425 HP | D-off | | $204,044 | 183.92 | 12.22 | 18.36 | 3.04 | 128.99 | 250 |
| **G15** | **GRADERS, MOTOR** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **GRADERS, MOTOR** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | G15CA001 | 120-H | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/17 TEETH SCARIFIERS | 125 HP | D-off | | $228,725 | 43.33 | 9.51 | 11.71 | 3.65 | 10.59 | 299 |
| | G15CA007 | 135-H | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/17 TEETH SCARIFIERS | 135 HP | D-off | | $242,240 | 46.10 | 10.08 | 12.41 | 3.87 | 11.43 | 309 |
| | G15CA003 | 12-H | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/17 TEETH SCARIFIERS | 140 HP | D-off | | $268,123 | 50.02 | 11.16 | 13.75 | 4.28 | 11.86 | 336 |
| | G15CA004 | 140-H | GRADER, MOTOR, ARTICULATED, 6X4, 12' BLADE W/5 RIPPER/SCARIFIERS | 165 HP | D-off | | $286,551 | 54.99 | 11.92 | 14.69 | 4.57 | 13.97 | 347 |
| | G15CA008 | 143-H | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 185 HP | D-off | | $331,644 | 63.08 | 13.80 | 17.02 | 5.29 | 15.67 | 364 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *G15* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | | |
| | G15CA009 | 160-H | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/5 RIPPER/SCARIFIERS | 185 HP | D-off | | $310,336 | 60.11 | 12.91 | 15.92 | 4.95 | 15.67 | 372 |
| | G15CA010 | 163-H | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 14' BLADE W/5 RIPPER/SCARIFIERS | 200 HP | D-off | | $358,684 | 68.13 | 14.93 | 18.42 | 5.72 | 16.94 | 388 |
| | G15CA005 | 14-H | GRADER, MOTOR, ARTICULATED, 6X4, 14' BLADE W/7 SHANK RIPPER | 215 HP | D-off | | $393,045 | 76.13 | 16.20 | 19.86 | 6.27 | 18.21 | 448 |
| | G15CA006 | 16-H | GRADER, MOTOR, ARTICULATED, 6X4, 16' BLADE W/7 SHANK RIPPER | 275 HP | D-off | | $562,867 | 105.84 | 23.25 | 28.54 | 8.98 | 23.29 | 594 |
| | | | **DEERE & COMPANY** | | | | | | | | | | |
| | G15JD008 | 670CH | GRADER, MOTOR, ARTICULATED, 6X4, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 151 HP | D-off | | $249,314 | 49.73 | 10.28 | 12.60 | 3.98 | 12.79 | 343 |
| | G15JD009 | 672CH (HFWD) | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 156 HP | D-off | | $286,811 | 55.51 | 11.85 | 14.54 | 4.58 | 13.21 | 353 |
| | G15JD010 | 770CH | GRADER, MOTOR, ARTICULATED, 6X4, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 185 HP | D-off | | $287,814 | 58.16 | 11.89 | 14.59 | 4.59 | 15.67 | 353 |
| | G15JD011 | 772CH (HFWD) | GRADER, MOTOR, ARTICULATED, 6X6, AWD, 12' BLADE W/5 RIPPER/SCARIFIERS | 205 HP | D-off | | $324,809 | 65.35 | 13.43 | 16.50 | 5.18 | 17.36 | 363 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **H10** | **HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear)** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear)** | | | | | | | | | |
| | | | **NPK CONSTRUCTION EQUIPMENT** | | | | | | | | | |
| | H10NP001 | E-200 | HAMMERS, HYDRAULIC, 150 FT-LBS, IMPACT FREQUENCY 700 BPM (ADD 150-250 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $7,500 | 3.20 | 0.63 | 1.00 | 0.13 | 0.00 | 2 |
| | H10NP002 | E-201 | HAMMERS, HYDRAULIC, 200 FT-LBS, IMPACT FREQUENCY 750 BPM (ADD 60-75 HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | $8,328 | 3.49 | 0.70 | 1.11 | 0.14 | 0.00 | 2 |
| | H10NP003 | E-202 | HAMMERS, HYDRAULIC, 350 FT-LBS, IMPACT FREQUENCY 800 BPM (ADD 60-75HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | $12,476 | 5.23 | 1.04 | 1.66 | 0.21 | 0.00 | 4 |
| | H10NP004 | E-203 | HAMMERS, HYDRAULIC, 500 FT-LBS, IMPACT FREQUENCY 800 BPM (ADD 60-75 HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | $16,036 | 6.52 | 1.34 | 2.14 | 0.27 | 0.00 | 4 |
| | H10NP005 | E-204 | HAMMERS, HYDRAULIC, 750 FT-LBS, IMPACT FREQUENCY 700 BPM (ADD 75-100 HP HYDRAULIC EXCAVATOR H25 OR L50)(ADD COST FOR POINT WEAR) | | | $21,264 | 8.65 | 1.78 | 2.84 | 0.36 | 0.00 | 7 |
| | H10NP006 | E-205 | HAMMERS, HYDRAULIC, 1,300 FT-LBS, IMPACT FREQUENCY 750 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $28,612 | 11.29 | 2.40 | 3.81 | 0.49 | 0.00 | 11 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H10* | | | *NPK CONSTRUCTION EQUIPMENT (continued)* | | | | | | | | | |
| | H10NP008 | E-207 | HAMMERS, HYDRAULIC, 2,000 FT-LBS, IMPACT FREQUENCY 550 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $43,440 | 16.87 | 3.64 | 5.79 | 0.74 | 0.00 | 19 |
| | H10NP009 | E-208 | HAMMERS, HYDRAULIC, 2,500 FT-LBS, IMPACT FREQUENCY 550 BPM (ADD 95-125 HP HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $55,483 | 21.20 | 4.64 | 7.40 | 0.94 | 0.00 | 28 |
| | H10NP015 | E-210A | HAMMERS, HYDRAULIC, 3,000 FT-LBS, IMPACT FREQUENCY 670 BPM (ADD 20-28 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $67,584 | 25.56 | 5.66 | 9.01 | 1.15 | 0.00 | 34 |
| | H10NP016 | E-216 | HAMMERS, HYDRAULIC, 5,500 FT-LBS, IMPACT FREQUENCY 500 BPM (ADD 28-43 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $93,236 | 34.78 | 7.80 | 12.43 | 1.58 | 0.00 | 56 |
| | H10NP017 | E-220 | HAMMERS, HYDRAULIC, 8,000 FT-LBS, IMPACT FREQUENCY 430 BPM (ADD 33-50 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $121,692 | 45.01 | 10.18 | 16.23 | 2.06 | 0.00 | 68 |
| | H10NP018 | E-260A | HAMMERS, HYDRAULIC, 20,000 FT-LBS, IMPACT FREQUENCY 330 BPM (ADD 80-130 TON HYDRAULIC EXCAVATOR H25)(ADD COST FOR POINT WEAR) | | | $282,600 | 102.88 | 23.63 | 37.68 | 4.79 | 0.00 | 170 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **H13** | **HAZARDOUS/TOXIC WASTE EQUIPMENT** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.11** | | **COMPACTORS (Compression force) 0 THRU 50 TONS** | | | | | | | | | | |
| | | | **CONSOLIDATED BALING MACHINE COMPANY, INC** | | | | | | | | | | |
| | H13CB001 | DOS RAW WI | HAZARDOUS/TOXIC WASTE EQIPMENT, COMPACTOR, RADIOLOGICAL WASTE, 12.5 TON, LOW LEVEL | 5 HP | E | | $24,752 | 5.73 | 1.43 | 2.10 | 0.38 | 0.32 | 25 |
| | H13CB002 | DOS RAW W2 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, RADIOLOGICAL WASTE, 20 TON, LOW LEVEL | 10 HP | E | | $26,742 | 6.63 | 1.55 | 2.27 | 0.41 | 0.63 | 25 |
| | | | **WASTE CONTROL SYSTEMS, INC.** | | | | | | | | | | |
| | H13CO002 | 8041CC | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 37 TON HAZARD WASTE IN-DRUM , EXPLOSION PROOF | 5 HP | E | | $13,102 | 3.39 | 0.76 | 1.11 | 0.20 | 0.32 | 167 |
| | | | **ENVIRO-PAK** | | | | | | | | | | |
| | H13EP001 | 4000HM | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON HAZARDOUS WASTE, HAZ-MAT STORAGE CONTAINER 40"X40"X40" | 5 HP | E | | $24,490 | 5.68 | 1.42 | 2.08 | 0.38 | 0.32 | 32 |
| | | | **TEEMARK CORPORATION** | | | | | | | | | | |
| | H13TH001 | DPC60-E50 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON DRUM CRUSHER | 5 HP | E | | $13,926 | 3.30 | 0.80 | 1.18 | 0.21 | 0.32 | 20 |
| | H13TH002 | DPC60-D90 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 30 TON DRUM CRUSHER, TRAILER MOUNTED | 9 HP | D-off | | $26,154 | 6.15 | 1.50 | 2.19 | 0.40 | 0.81 | 32 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *TEEMARK CORPORATION (continued)* | | | | | | | | | | |
| | H13TH003 | DPC85-D90 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 42.5 TON DRUM CRUSHER, TRAILER MOUNTED | 9 HP | D-off | | $29,684 | 6.87 | 1.71 | 2.49 | 0.46 | 0.81 | 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 | | $378,701 | 81.14 | 21.94 | 32.19 | 5.84 | 3.15 | 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 | | $378,701 | 81.14 | 21.94 | 32.19 | 5.84 | 3.15 | 320 |
| | 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 | | $378,701 | 81.14 | 21.94 | 32.19 | 5.84 | 3.15 | 320 |
| | **SUBCATEGORY 0.12** | | **COMPACTORS (Compression force) OVER 50 TONS** | | | | | | | | | | |
| | | | **WASTE CONTROL SYSTEMS, INC.** | | | | | | | | | | |
| | H13CO003 | 8551 | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM | 3 HP | E | | $26,977 | 5.31 | 1.32 | 1.80 | 0.42 | 0.19 | 270 |
| | H13CO004 | 8564 | HAZARDOUS/TOXIC WASTE EQIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM, W/HEPA FILTER | 3 HP | E | | $38,731 | 7.64 | 1.90 | 2.58 | 0.61 | 0.19 | 290 |
| | H13CO006 | 8560-EX | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM, W/HEPA FILTER & SS PLATEN & CHAMBER | 3 HP | E | | $55,333 | 10.43 | 2.72 | 3.69 | 0.87 | 0.19 | 300 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *WASTE CONTROL SYSTEMS, INC. (continued)* | | | | | | | | | |
| | H13CO005 | 8560-EXL | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 85 TON HAZARD WASTE IN-DRUM, EXPLOSION PROOF, W/LIQUID REMOVAL SYSTEM | 3 HP E | | $65,210 | 12.32 | 3.20 | 4.35 | 1.02 | 0.19 | 310 |
| | | | **ENVIRO-PAK** | | | | | | | | | |
| | H13EP002 | 9600HM | HAZARDOUS/TOXIC WASTE EQUIPMENT, COMPACTOR, 250 TON HAZARDOUS WASTE, B-25 METAL STORAGE CONTAINER 4'X4'X6' | 8 HP E | | $40,614 | 8.23 | 2.00 | 2.71 | 0.64 | 0.47 | 100 |
| | **SUBCATEGORY 0.21** | | **FILTER PRESSES, STATIONARY** | | | | | | | | | |
| | | | **KOMLINE-SANDERSON 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 | | $65,348 | 13.66 | 3.66 | 5.23 | 1.04 | 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 | | $42,695 | 8.93 | 2.39 | 3.42 | 0.68 | 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 | | $110,756 | 23.15 | 6.19 | 8.86 | 1.76 | 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 | | $60,226 | 12.59 | 3.37 | 4.82 | 0.96 | 0.00 | 168 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *KOMLINE-SANDERSON ENGINEERING CO. (continued)* | | | | | | | | | |
| | 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 | | $137,846 | 28.81 | 7.71 | 11.03 | 2.19 | 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 | | $71,374 | 14.92 | 4.00 | 5.71 | 1.14 | 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 | | $164,504 | 34.39 | 9.20 | 13.16 | 2.62 | 0.00 | 199 |
| | 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 | | $84,717 | 17.71 | 4.74 | 6.78 | 1.35 | 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 | | $184,855 | 38.64 | 10.34 | 14.79 | 2.94 | 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 | | $91,779 | 19.18 | 5.13 | 7.34 | 1.46 | 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 A | | $205,260 | 42.90 | 11.48 | 16.42 | 3.27 | 0.00 | 235 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *KOMLINE-SANDERSON ENGINEERING CO. (continued)* | | | | | | | | | |
| | 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 | | $105,499 | 22.05 | 5.90 | 8.44 | 1.68 | 0.00 | 224 |
| | H13AY019 | | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, FILTER PRESS PLATE SHIFTING UNIT, 1,200 MM SQ, MECHANIZED | 1 HP E | | $13,331 | 3.14 | 0.75 | 1.07 | 0.21 | 0.06 | 5 |
| | H13AY020 | SLC-500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, PLC CONTROL PANEL - PLATE SHIFTING, COMPUTER AUTOMATED | 1 HP E | | $17,229 | 3.95 | 0.96 | 1.38 | 0.27 | 0.06 | 2 |
| | | | **USFILTER 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 | | $102,859 | 21.80 | 5.76 | 8.23 | 1.64 | 0.19 | 125 |
| | H13PR003 | PLC 115-1200 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 115 CF STANDARD FILTER PRESS, 1,200 MM SQ | 5 HP E | | $183,618 | 38.89 | 10.27 | 14.69 | 2.92 | 0.32 | 460 |
| | H13PR005 | PLC 180-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 180 CF STANDARD FILTER PRESS, 1,500 MM SQ | 5 HP E | | $239,547 | 50.57 | 13.39 | 19.16 | 3.81 | 0.32 | 680 |
| | H13PR007 | PLC 270-1500 | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 270 CF MAXI FILTER PRESS, 1,500 MM SQ | 10 HP E | | $288,997 | 61.42 | 16.16 | 23.12 | 4.60 | 0.63 | 1,100 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *USFILTER PERRIN PRODUCTS (continued)* | | | | | | | | | |
| | H13PR022 | BPR 1200-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 47" WIDE FILTER BELT PRESS, 2 HP | 2 HP E | | $212,068 | 44.53 | 11.86 | 16.97 | 3.37 | 0.13 | 191 |
| | H13PR023 | BPR 1600-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 63" WIDE FILTER BELT PRESS, 3 HP | 3 HP E | | $242,836 | 51.05 | 13.58 | 19.43 | 3.86 | 0.19 | 258 |
| | H13PR024 | BPR 2000-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 78.75" WIDE FILTER BELT PRESS, 3 HP | 3 HP E | | $269,280 | 56.58 | 15.05 | 21.54 | 4.28 | 0.19 | 319 |
| | H13PR025 | BPR 2500-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 98.5" WIDE FILTER BELT PRESS, 3 HP | 3 HP E | | $323,202 | 67.85 | 18.07 | 25.86 | 5.14 | 0.19 | 515 |
| | H13PR026 | BPR 3000-15H | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, STATIONARY, 118" WIDE FILTER BELT PRESS, 4 HP | 4 HP E | | $393,864 | 82.73 | 22.03 | 31.51 | 6.27 | 0.25 | 594 |
| | **SUBCATEGORY 0.22** | | **FILTER PRESSES, MOBILE** | | | | | | | | | |
| | | | **KOMLINE-SANDERSON 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 | | $81,072 | 16.48 | 4.61 | 6.71 | 1.25 | 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 A | | $54,467 | 11.14 | 3.07 | 4.45 | 0.84 | 0.00 | 109 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *KOMLINE-SANDERSON ENGINEERING CO. (continued)* | | | | | | | | | |
| | 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 A | | $123,040 | 24.92 | 7.04 | 10.28 | 1.90 | 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 A | | $72,510 | 14.77 | 4.12 | 5.99 | 1.12 | 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 | | $151,421 | 30.61 | 8.68 | 12.69 | 2.33 | 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 A | | $84,950 | 17.26 | 4.83 | 7.04 | 1.31 | 0.00 | 208 |
| | 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 | | $179,371 | 36.23 | 10.30 | 15.07 | 2.76 | 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 | | $99,583 | 20.20 | 5.68 | 8.29 | 1.53 | 0.00 | 211 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *KOMLINE-SANDERSON ENGINEERING CO. (continued)* | | | | | | | | | |
| | 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 | | $201,013 | 40.58 | 11.56 | 16.91 | 3.10 | 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 | | $107,937 | 21.88 | 6.16 | 9.00 | 1.66 | 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 | | $220,957 | 44.58 | 12.70 | 18.60 | 3.40 | 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 | | $121,215 | 24.55 | 6.94 | 10.13 | 1.87 | 0.00 | 244 |
| | | | **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 | | $84,367 | 18.27 | 4.86 | 7.12 | 1.30 | 0.79 | 40 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *KOCH-WATER (continued)* | | | | | | | | | |
| | 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 | | $95,688 | 20.85 | 5.52 | 8.09 | 1.47 | 0.98 | 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 | | $112,535 | 24.89 | 6.49 | 9.52 | 1.73 | 1.39 | 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 | | $129,463 | 28.90 | 7.47 | 10.96 | 1.99 | 1.77 | 65 |
| | | | **USFILTER 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 | | $287,330 | 59.73 | 16.56 | 24.25 | 4.43 | 0.19 | 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 | | $254,141 | 53.26 | 14.63 | 21.42 | 3.92 | 0.32 | 705 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *USFILTER PERRIN PRODUCTS (continued)* | | | | | | | | | |
| | 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 | | $397,186 | 81.70 | 22.91 | 33.58 | 6.12 | 0.13 | 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 | | $427,079 | 87.79 | 24.64 | 36.12 | 6.58 | 0.19 | 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 | | $453,212 | 93.26 | 26.16 | 38.35 | 6.98 | 0.32 | 319 |
| | 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 E | | $507,134 | 104.38 | 29.28 | 42.93 | 7.81 | 0.50 | 515 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *USFILTER PERRIN PRODUCTS (continued)* | | | | | | | | | |
| | 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 E | | $577,795 | 118.57 | 33.37 | 48.93 | 8.90 | 0.50 | 594 |
| | | | **SOMAT WASTE REDUCTION TECHNOLOGY** | | | | | | | | | |
| | H13S5001 | 1PB-6D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 6-15 GPM CAPACITY, TRAILER MOUNTED | 3 HP E | | $57,064 | 11.76 | 3.31 | 4.85 | 0.88 | 0.19 | 14 |
| | H13S5002 | 1PB-9D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 15-40 GPM CAPACITY, TRAILER MOUNTED | 5 HP E | | $89,542 | 18.50 | 5.19 | 7.61 | 1.38 | 0.32 | 35 |
| | H13S5003 | 2PB-9D | HAZARDOUS/TOXIC WASTE EQUIPMENT, FILTER PRESS, MOBILE, PUSHER SCREW PRESS, 30-80 GPM CAPACITY, TRAILER MOUNTED | 5 HP E | | $106,323 | 21.88 | 6.16 | 9.04 | 1.64 | 0.32 | 40 |
| | **SUBCATEGORY 0.30** | | **CENTRIFUGES** | | | | | | | | | |
| | | | **BOCK ENGINEERED PRODUCTS, INC.** | | | | | | | | | |
| | H13BC013 | GP 35 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 35 LB DRY WT. | 3 HP E | | $15,672 | 7.16 | 1.86 | 3.13 | 0.29 | 0.19 | 9 |
| | H13BC010 | 305 TX | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 35 LB DRY WT. | 3 HP E | | $16,583 | 7.56 | 1.96 | 3.32 | 0.30 | 0.19 | 6 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H13* | | | *BOCK ENGINEERED PRODUCTS, INC. (continued)* | | | | | | | | | |
| | H13BC012 | GP 60 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 60 LB DRY WT. | 3 HP E | | $17,312 | 7.88 | 2.05 | 3.46 | 0.32 | 0.19 | 9 |
| | H13BC006 | 605 TX | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 60 LB DRY WT. | 3 HP E | | $21,679 | 9.80 | 2.57 | 4.34 | 0.40 | 0.19 | 9 |
| | H13BC011 | GP 100 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 100 LB DRY WT. | 5 HP E | | $21,169 | 9.78 | 2.51 | 4.23 | 0.39 | 0.32 | 12 |
| | H13BC003 | GP 130 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, TIMER, 130 LB DRY WT. | 5 HP E | | $23,247 | 10.69 | 2.75 | 4.65 | 0.42 | 0.32 | 12 |
| | H13BC009 | 355 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 35 LB | 3 HP E | | $28,136 | 12.62 | 3.33 | 5.63 | 0.51 | 0.19 | 6 |
| | H13BC007 | 655 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 60 LB | 3 HP E | | $33,563 | 15.00 | 3.97 | 6.71 | 0.61 | 0.19 | 9 |
| | H13BC008 | 755 | HAZARDOUS/TOXIC WASTE EQUIPMENT, CENTRIFUGE, FIXED SPEED, MANUAL CONTROL, EXPLOSION PROOF, 100 LB | 5 HP E | | $41,073 | 18.50 | 4.86 | 8.21 | 0.75 | 0.32 | 12 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.40** | | **SHREDDERS** | | | | | | | | | | |
| | | | **GRANUTE-SATURN 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 | E | | $356,619 | 93.66 | 20.49 | 29.99 | 5.49 | 9.46 | 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 | | $417,946 | 112.61 | 23.99 | 35.10 | 6.44 | 12.61 | 300 |
| | H13MN003 | 62-40HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 38" X 62" OPENING, TRAILER MTD, W/DIESEL GENERATOR SET, CRANE GRAPPLE & DISCHARGE CONVEYOR SYSTEM | 200 HP | E | | $473,207 | 125.40 | 27.19 | 39.79 | 7.29 | 12.61 | 300 |
| | H13MN004 | 72-46HT | HAZARDOUS/TOXIC WASTE EQUIPMENT, SHREDDER, 45" X 72" OPENING , TRAILER MTD, W/DIESEL GENERATOR SET, CRANE GRAPPLE & DISCHARGE CONVEYOR SYSTEM | 300 HP | E | | $540,217 | 150.44 | 31.07 | 45.49 | 8.32 | 18.92 | 400 |
| | | | **SHRED-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 | | $55,555 | 13.81 | 3.22 | 4.72 | 0.86 | 1.26 | 20 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS 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 | | $52,151 | 13.08 | 3.02 | 4.43 | 0.80 | 1.26 | 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 | | $89,823 | 23.06 | 5.20 | 7.63 | 1.38 | 2.52 | 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 | | $93,765 | 23.90 | 5.43 | 7.97 | 1.44 | 2.52 | 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 | | $151,330 | 42.05 | 8.76 | 12.86 | 2.33 | 6.31 | 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 | | $483,298 | 132.40 | 27.99 | 41.08 | 7.45 | 18.92 | 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 | | $628,501 | 192.58 | 36.39 | 53.42 | 9.68 | 37.83 | 440 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.71** | | **WASTE HANDLING EQUIPMENT, DRUM HANDLING** | | | | | | | | | | |
| | | | **BASCO** | | | | | | | | | | |
| | H13BB001 | VELT 55/35 | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, DRUM HANDLING, DRUM FILLER, 55 GAL TOP FILL | 10 HP | E | | $21,221 | 13.27 | 2.64 | 4.51 | 0.38 | 0.63 | 11 |
| | H13BB002 | 2B | HAZARDOUS/TOXIC WASTE EQUIPMENT, WASTE HANDLING EQUIPMENT, DRUM CLEANER, 12 DRUM/HR CAP INTERIOR | 15 HP | E | | $18,995 | 12.81 | 2.36 | 4.04 | 0.34 | 0.95 | 19 |
| H20 | HOISTS & AIR WINCHES | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **HOISTS & AIR WINCHES** | | | | | | | | | | |
| | | | **INGERSOLL RAND MATERIAL HANDLING** | | | | | | | | | | |
| | H20BE002 | FA2.5 | AIR WINCH, MANUAL BRAKE, 24" DRUM, 5,000 LBS CAP, 145 FPM (ADD 700 CFM COMPRESSOR) | 700 CFM | A | | $39,488 | 8.75 | 2.39 | 3.51 | 0.63 | 0.00 | 10 |
| | H20BE003 | FA5 | AIR WINCH, MANUAL BRAKE, 24" DRUM, 10,000 LBS CAP, 65 FPM (ADD 700 CFM COMPRESSOR) | 700 CFM | A | | $48,993 | 10.91 | 2.97 | 4.35 | 0.79 | 0.00 | 19 |
| | H20BE004 | FA10 | AIR WINCH, AUTOMATIC BRAKE, 24" DRUM, 22,000 LBS CAP, 30 FPM (ADD 800 CFM COMPRESSOR) | 800 CFM | A | | $54,023 | 12.10 | 3.27 | 4.80 | 0.87 | 0.00 | 35 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **H25** | **HYDRAULIC EXCAVATORS, CRAWLER MOUNTED** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)** | | | | | | | | | |
| | | | **CATERPILLAR 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 | | $38,575 | 10.24 | 2.46 | 3.62 | 0.65 | 1.63 | 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 | | $45,426 | 12.98 | 2.89 | 4.26 | 0.76 | 2.72 | 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 | | $72,943 | 20.71 | 4.64 | 6.84 | 1.22 | 4.25 | 115 |
| | | | **Komatsu America 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 | | $49,231 | 12.75 | 3.14 | 4.62 | 0.83 | 1.81 | 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 | | $66,610 | 18.50 | 4.24 | 6.24 | 1.12 | 3.53 | 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 | | $84,937 | 22.55 | 5.40 | 7.96 | 1.42 | 3.62 | 115 |
| | H25KM023 | PC78US-6 | HYDRAULIC EXCAVATOR, CRAWLER, 6,200 LBS, 0.37 CY BUCKET, 12'4" MAX DIGGING DEPTH | 54 HP D-off | | $104,875 | 28.35 | 6.68 | 9.83 | 1.76 | 4.89 | 159 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **MELROE 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 | | $30,232 | 7.92 | 1.93 | 2.83 | 0.51 | 1.20 | 37 |
| | H25ME002 | 331 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,200 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH | 40 HP D-off | | $43,530 | 13.62 | 2.77 | 4.08 | 0.73 | 3.62 | 72 |
| | H25ME003 | 337 | HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 11,000 LBS, 0.18 CY BUCKET, 12' MAX DIGGING DEPTH | 48 HP D-off | | $60,590 | 18.16 | 3.86 | 5.68 | 1.02 | 4.34 | 110 |
| | **SUBCATEGORY 0.11** | | **OVER 12,500 LBS THRU 40,000 LBS** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | H25CA038 | 307D | HYDRAULIC EXCAVATOR, CRAWLER, 14,310 LBS, 0.48 CY BUCKET, 15.25' MAX DIGGING DEPTH | 54 HP D-off | | $104,931 | 27.12 | 6.38 | 9.26 | 1.75 | 4.89 | 159 |
| | H25CA020 | 311-CU | HYDRAULIC EXCAVATOR, CRAWLER, 24,640 LBS, 0.60 CY BUCKET, 16.50' MAX DIGGING DEPTH | 79 HP D-off | | $134,724 | 35.85 | 8.20 | 11.89 | 2.25 | 7.15 | 258 |
| | H25CA021 | 312-D L | HYDRAULIC EXCAVATOR, CRAWLER, 26,900 LBS, 0.68 CY BUCKET, 18.16' MAX DIGGING DEPTH | 84 HP D-off | | $135,767 | 36.58 | 8.25 | 11.98 | 2.26 | 7.60 | 288 |
| | | | **KOBELCO AMERICA INC.** | | | | | | | | | |
| | H25KC017 | 70SR | HYDRAULIC EXCAVATOR, CRAWLER, 16,400 LBS, 0.33 CY BUCKET, 14.75' MAX DIGGING DEPTH | 54 HP D-off | | $115,003 | 29.18 | 7.00 | 10.15 | 1.92 | 4.89 | 168 |
| | H25KC016 | 135SR LC | HYDRAULIC EXCAVATOR, CRAWLER, 30,870 LBS, 0.60 CY BUCKET, 19.58' MAX DIGGING DEPTH | 94 HP D-off | | $163,634 | 43.34 | 9.95 | 14.44 | 2.73 | 8.51 | 319 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Komatsu America International Company** | | | | | | | | | | | |
| | H25KM027 | PC128UU-2 | HYDRAULIC EXCAVATOR, CRAWLER, 12,200 LBS, 0.58 CY BUCKET, 16' 0" MAX DIGGING DEPTH | 86 HP D-off | | $203,477 | 50.60 | 12.37 | 17.95 | 3.39 | 7.78 | 295 |
| | H25KM001 | PC 120-6 | HYDRAULIC EXCAVATOR, CRAWLER, 26,950 LBS, 0.75 CY BUCKET, 18.08' MAX DIGGING DEPTH | 89 HP D-off | | $144,461 | 38.90 | 8.79 | 12.75 | 2.41 | 8.06 | 265 |
| | H25KM003 | PC 160LC-7 | HYDRAULIC EXCAVATOR, CRAWLER, 39,400 LBS, 1.12 CY BUCKET, 19.58' MAX DIGGING DEPTH | 110 HP D-off | | $222,882 | 57.12 | 13.56 | 19.67 | 3.72 | 9.96 | 395 |
| | **LINK-BELT CONSTRUCTION EQUIPMENT COMPANY** | | | | | | | | | | | |
| | H25LI003 | 130 LX | HYDRAULIC EXCAVATOR, CRAWLER, 27,100 LBS, 0.50 CY BUCKET, 18' 2" MAX DIGGING DEPTH | 89 HP D-off | | $149,720 | 39.97 | 9.11 | 13.21 | 2.50 | 8.06 | 271 |
| | H25LI005 | 160 LX | HYDRAULIC EXCAVATOR, CRAWLER, 35,275 LBS, 0.66 CY BUCKET, 20' 1" MAX DIGGING DEPTH | 101 HP D-off | | $175,273 | 46.44 | 10.66 | 15.47 | 2.92 | 9.14 | 362 |
| | **SUBCATEGORY 0.12** | | **OVER 40,000 LBS THRU 100,000 LBS** | | | | | | | | | |
| | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | | |
| | H25CA040 | 319CL | HYDRAULIC EXCAVATOR, CRAWLER, 40,600 LBS, 1.00 CY BUCKET, 22.50' MAX DIGGING DEPTH | 125 HP D-off | | $146,465 | 36.50 | 6.95 | 9.15 | 2.37 | 11.32 | 405 |
| | H25CA022 | 320D | HYDRAULIC EXCAVATOR, CRAWLER, 43,800 LBS, 1.50 CY BUCKET, 21.75' MAX DIGGING DEPTH | 128 HP D-off | | $217,889 | 48.17 | 10.33 | 13.62 | 3.52 | 11.59 | 444 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | H25CA023 | 320DL | HYDRAULIC EXCAVATOR, CRAWLER, 49,000 LBS, 0.80 CY BUCKET, 39.0' MAX DIGGING DEPTH, LONG REACH BOOM | 128 HP D-off | | $311,636 | 63.06 | 14.78 | 19.48 | 5.04 | 11.59 | 536 |
| | | | **KOBELCO AMERICA INC.** | | | | | | | | | |
| | H25KC019 | SK210 LC | HYDRAULIC EXCAVATOR, CRAWLER, 48,000 LBS, 1.13 CY BUCKET, 22.00' MAX DIGGING DEPTH | 143 HP D-off | | $254,456 | 55.56 | 12.07 | 15.90 | 4.12 | 12.94 | 480 |
| | H25KC020 | SK210 LC | HYDRAULIC EXCAVATOR, CRAWLER, 53,400 LBS, 0.63 CY BUCKET, 39' MAX DIGGING DEPTH, LONG REACH BOOM | 143 HP D-off | | $276,867 | 59.12 | 13.13 | 17.30 | 4.48 | 12.94 | 534 |
| | H25KC021 | SK250 LC | HYDRAULIC EXCAVATOR, CRAWLER, 55,100 LBS, 1.875 CY BUCKET, 23.08' MAX DIGGING DEPTH | 176 HP D-off | | $292,830 | 65.16 | 13.89 | 18.30 | 4.74 | 15.93 | 551 |
| | H25KC022 | SK250 LC | HYDRAULIC EXCAVATOR, CRAWLER, 59,100 LBS, 0.50 CY BUCKET, 23' MAX DIGGING DEPTH, LONG REACH BOOM | 176 HP D-off | | $331,583 | 71.30 | 15.72 | 20.72 | 5.36 | 15.93 | 591 |
| | H25KC023 | SK330 LC | HYDRAULIC EXCAVATOR, CRAWLER, 77,800 LBS, 2.05 CY BUCKET, 24.58' MAX DIGGING DEPTH | 238 HP D-off | | $412,319 | 90.69 | 19.56 | 25.77 | 6.67 | 21.54 | 778 |
| | **SUBCATEGORY 0.13** | | **OVER 100,000 LBS THRU 160,000 LBS** | | | | | | | | | |
| | | | **KOBELCO AMERICA INC.** | | | | | | | | | |
| | H25KC024 | SK400 LC | HYDRAULIC EXCAVATOR, CRAWLER, 101,900 LBS 3.06 CY BUCKET, 25.58' MAX DIGGING DEPTH | 306 HP D-off | | $519,681 | 100.85 | 20.42 | 24.36 | 8.24 | 27.70 | 1,019 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *KOBELCO AMERICA INC. (continued)* | | | | | | | | | |
| | H25KC026 | SK480LC | HYDRAULIC EXCAVATOR, CRAWLER, 108,000 LBS, 2.25 CY BUCKET, 25.58' MAX DIGGING DEPTH | 315 HP D-off | | $544,446 | 105.14 | 21.40 | 25.52 | 8.64 | 28.51 | 1,080 |
| | | | **Komatsu America International Company** | | | | | | | | | |
| | H25KM015 | PC 600 LC-7 | HYDRAULIC EXCAVATOR, CRAWLER, 133,160 LBS, 4.25 CY BUCKET, 27.83' MAX DIGGING DEPTH | 384 HP D-off | | $934,614 | 165.53 | 36.74 | 43.81 | 14.83 | 34.76 | 1,332 |
| | **SUBCATEGORY 0.14** | | **OVER 160,000 LBS** | | | | | | | | | |
| | | | **Komatsu America International Company** | | | | | | | | | |
| | H25KM009 | PC 750LC-7 | HYDRAULIC EXCAVATOR, CRAWLER, 171,070 LBS, 4.05 CY BUCKET, 27.66' MAX DIGGING DEPTH | 454 HP D-off | | $1,119,630 | 183.25 | 39.70 | 44.20 | 17.60 | 41.10 | 1,750 |
| | H25KM033 | PC1800-6 | HYDRAULIC EXCAVATOR, CRAWLER, 396,800 LBS, 15.70 CY BUCKET, 30'5" MAX DIGGING DEPTH | 908 HP D-off | | $2,241,839 | 366.80 | 79.49 | 88.49 | 35.24 | 82.19 | 3,968 |
| | **SUBCATEGORY 0.21** | | **ATTACHMENTS, MOBILE SHEARS** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | H25CA055 | S305 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 9.4" JAW OPENING (ADD 10,000 LB HYDRAULIC EXCAVATOR) | | | $20,056 | 7.35 | 1.75 | 2.84 | 0.33 | 0.00 | 15 |
| | H25CA057 | S320B | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 15.4" JAW OPENING (ADD 20,000 LB HYDRAULIC EXCAVATOR) | | | $83,995 | 29.92 | 7.34 | 11.90 | 1.39 | 0.00 | 57 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | H25CA052 | S230 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 22.0" JAW OPENING (ADD 35,000 LB HYDARULIC EXCAVATOR) | | | $105,612 | 38.11 | 9.22 | 14.96 | 1.74 | 0.00 | 84 |
| | H25CA053 | S250 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 28.0" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | $143,769 | 51.44 | 12.56 | 20.37 | 2.37 | 0.00 | 158 |
| | H25CA054 | S280 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 32.0" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | $184,743 | 67.04 | 16.14 | 26.17 | 3.05 | 0.00 | 191 |
| | H25CA056 | S2130 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, SCRAP, 43.0" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | $300,816 | 107.29 | 26.28 | 42.62 | 4.97 | 0.00 | 307 |
| | | | **LABOUNTY MANUFACTURING,** | | | | | | | | | |
| | H25LU001 | MSD 7 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 10" JAW OPENING (ADD 10,000 LB HYDRAULIC EXCAVATOR) | | | $26,772 | 9.68 | 2.34 | 3.79 | 0.44 | 0.00 | 10 |
| | H25LU002 | MSD 7R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 10" JAW OPENING (ADD 14,000 LB HYDRAULIC EXCAVATOR) | | | $30,172 | 10.96 | 2.64 | 4.27 | 0.50 | 0.00 | 11 |
| | H25LU003 | MSD 15 | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 18" JAW OPENING (ADD 20,000 LB HYDRAULIC EXCAVATOR) | | | $46,702 | 16.99 | 4.08 | 6.62 | 0.77 | 0.00 | 30 |
| | H25LU004 | MSD 15R | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 18" JAW OPENING (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | $54,294 | 19.72 | 4.75 | 7.69 | 0.90 | 0.00 | 35 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *LABOUNTY MANUFACTURING, (continued)* | | | | | | | | | |
| | H25LU005 | MSD 30 - III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 22" JAW OPENING (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | $68,122 | 24.71 | 5.95 | 9.65 | 1.12 | 0.00 | 50 |
| | H25LU006 | MSD 30R - III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 22" JAW OPENING (ADD 35,000 LB HYDRAULIC EXCAVATOR) | | | $95,428 | 34.59 | 8.34 | 13.52 | 1.58 | 0.00 | 67 |
| | H25LU007 | MSD 40-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 27" JAW OPENING (ADD 40,000 LB HYDRAULIC EXCAVATOR) | | | $81,512 | 29.67 | 7.13 | 11.55 | 1.35 | 0.00 | 70 |
| | H25LU008 | MSD 40R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 27" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | $106,604 | 38.55 | 9.31 | 15.10 | 1.76 | 0.00 | 90 |
| | H25LU009 | MSD 50-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 32" JAW OPENING (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | $117,098 | 42.29 | 10.23 | 16.59 | 1.93 | 0.00 | 109 |
| | H25LU010 | MSD 50R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 32" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | $140,765 | 50.79 | 12.29 | 19.94 | 2.32 | 0.00 | 140 |
| | H25LU011 | MSD 70-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 35" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | $139,348 | 50.31 | 12.17 | 19.74 | 2.30 | 0.00 | 130 |
| | H25LU012 | MSD 70R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 35" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $170,669 | 61.67 | 14.91 | 24.18 | 2.82 | 0.00 | 164 |
| | H25LU013 | MSD 100-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 38" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $176,143 | 63.66 | 15.39 | 24.95 | 2.91 | 0.00 | 150 |
| | H25LU014 | MSD 100R-III SV | HYDRAULIC EXCAVATOR, ATTACHMENT, MOBILE SHEARS, 38" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $205,062 | 74.09 | 17.92 | 29.05 | 3.39 | 0.00 | 180 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.22** | | **ATTACHMENTS, MATERIAL HANDLING** | | | | | | | | | |
| | | | **BALDERSON, INC.** | | | | | | | | | |
| | H25BS001 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 0.50 CY BUCKET, W/TIPS (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | $5,386 | 1.71 | 0.45 | 0.72 | 0.09 | 0.00 | 10 |
| | H25BS002 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 0.75 CY BUCKET, W/TIPS (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | $6,260 | 1.99 | 0.53 | 0.83 | 0.11 | 0.00 | 16 |
| | H25BS003 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 1.25 CY BUCKET, W/TIPS (ADD 25,000-60,000 LB HYDRAULIC EXCAVATOR) | | | $6,910 | 2.20 | 0.58 | 0.92 | 0.12 | 0.00 | 30 |
| | H25BS004 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 1.50 CY BUCKET, W/TIPS (ADD 50,000-60,000 LB HYDRAULIC EXCAVATOR) | | | $8,407 | 2.67 | 0.70 | 1.12 | 0.14 | 0.00 | 22 |
| | H25BS005 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, 3.25 CY BUCKET, W/TIPS (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | $13,209 | 4.19 | 1.10 | 1.76 | 0.22 | 0.00 | 52 |
| | | | **LABOUNTY MANUFACTURING,** | | | | | | | | | |
| | H25LU023 | TW 100 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 1.25CY, 4-TINE/ 5-TINE (ADD 25,000 LB HYDRAULIC EXCAVATOR) | | | $36,909 | 11.98 | 3.09 | 4.92 | 0.63 | 0.00 | 16 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *LABOUNTY MANUFACTURING, (continued)* | | | | | | | | | |
| | H25LU024 | TW 110 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 3.50CY, 4-TINE/ 5-TINE (ADD 35,000 LB HYDRAULIC EXCAVATOR) | | | $18,595 | 6.21 | 1.56 | 2.48 | 0.32 | 0.00 | 28 |
| | H25LU025 | 120 TR | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 3.50CY, 4-TINE/ 5-TINE (ADD 45,000 LB HYDRAULIC EXCAVATOR) | | | $22,799 | 7.65 | 1.91 | 3.04 | 0.39 | 0.00 | 35 |
| | H25LU026 | 140 TW | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 5.50CY, 4-TINE/ 5-TINE (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | $26,018 | 8.77 | 2.18 | 3.47 | 0.44 | 0.00 | 48 |
| | H25LU027 | 160 TR | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 6.50CY, 4-TINE/ 5-TINE (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $29,156 | 9.86 | 2.44 | 3.89 | 0.49 | 0.00 | 58 |
| | H25LU028 | TW 170 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, GRAPPLE, 9.00CY, 4-TINE/ 5-TINE (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | $47,983 | 15.95 | 4.01 | 6.40 | 0.81 | 0.00 | 78 |
| | H25LU034 | RDG 60 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 1.75 CY (ADD 38,000-70,000 LB HYDRAULIC EXCAVATOR) | | | $69,244 | 22.80 | 5.79 | 9.23 | 1.17 | 0.00 | 35 |
| | H25LU035 | RDG 90 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 1.25 CY (ADD 70,000-140,000 LB HYDRAULIC EXCAVATOR) | | | $83,174 | 27.33 | 6.96 | 11.09 | 1.41 | 0.00 | 69 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *LABOUNTY MANUFACTURING, (continued)* | | | | | | | | | |
| | H25LU036 | RDG 120 | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, ROTATING GRAPPLE, 2.00 CY (ADD 120,000-160,000 LB HYDRAULIC EXCAVATOR) | | | $95,979 | 31.51 | 8.03 | 12.80 | 1.63 | 0.00 | 100 |
| | | | **WAIN-ROY, INC.** | | | | | | | | | |
| | H25WN001 | | HYDRAULIC EXCAVATOR, ATTACHMENT, MATERIAL HANDLING, BUCKET, 36" CONCRETE/PAVEMENT REMOVAL (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $7,676 | 2.44 | 0.64 | 1.02 | 0.13 | 0.00 | 16 |
| | **SUBCATEGORY 0.23** | | **ATTACHMENTS, CONCRETE PULVERIZERS** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | H25CA058 | CR3 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRUSHER, 16.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | $22,248 | 8.68 | 1.95 | 3.15 | 0.37 | 0.00 | 6 |
| | H25CA059 | P16 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 30.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | $81,519 | 30.56 | 7.13 | 11.55 | 1.35 | 0.00 | 53 |
| | H25CA060 | P28 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 34.0" JAW OPENING (ADD 40,000 LB MIN HYDRAULIC EXCAVATOR) | | | $120,155 | 44.90 | 10.49 | 17.02 | 1.98 | 0.00 | 87 |
| | H25CA061 | CR28 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRUSHER, 36.0" JAW OPENING (ADD 45,000 LB MIN HYDRAULIC EXCAVATOR) | | | $104,922 | 39.30 | 9.16 | 14.86 | 1.73 | 0.00 | 81 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | H25CA062 | P60 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 45.0" JAW OPENING (ADD 45,000 LB MIN HYDRAULIC EXCAVATOR) | | | $192,711 | 71.72 | 16.83 | 27.30 | 3.18 | 0.00 | 194 |
| | H25CA063 | CR35 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRUSHER, 47.0" JAW OPENING (ADD 50,000 LB MIN HYDRAULIC EXCAVATOR) | | | $137,421 | 51.41 | 12.01 | 19.47 | 2.27 | 0.00 | 111 |
| | H25CA064 | CR50 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRUSHER, 63.0" JAW OPENING (ADD 50,000 LB MIN HYDRAULIC EXCAVATOR) | | | $167,391 | 62.51 | 14.62 | 23.71 | 2.76 | 0.00 | 155 |
| | | | **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) | | | $29,519 | 11.35 | 2.58 | 4.18 | 0.49 | 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) | | | $40,982 | 15.57 | 3.59 | 5.81 | 0.68 | 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) | | | $49,954 | 18.86 | 4.36 | 7.08 | 0.82 | 0.00 | 38 |
| | 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) | | | $57,429 | 21.61 | 5.02 | 8.14 | 0.95 | 0.00 | 43 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *KENT DEMOLITION TOOLS (continued)* | | | | | | | | | |
| | H25KN006 | KF70 QT | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE BREAKER, 10,000 FT-LB, W/7.09 '' DIA. POINT (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | $116,096 | 43.67 | 10.15 | 16.45 | 1.92 | 0.00 | 103 |
| | | | **LABOUNTY MANUFACTURING,** | | | | | | | | | |
| | H25LU046 | CP 40 C | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 30" JAW OPENING (ADD 40,000 LB HYDRAULIC EXCAVATOR) | | | $34,599 | 13.21 | 3.02 | 4.90 | 0.57 | 0.00 | 29 |
| | H25LU047 | CP 60 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 36" JAW OPENING (ADD 60,000 LB HYDRAULIC EXCAVATOR) | | | $39,756 | 15.21 | 3.48 | 5.63 | 0.66 | 0.00 | 30 |
| | H25LU048 | CP 80 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 42" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $42,725 | 16.40 | 3.74 | 6.05 | 0.71 | 0.00 | 45 |
| | H25LU049 | CP 100 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 48" JAW OPENING (ADD 100,000 LB HYDRAULIC EXCAVATOR) | | | $51,685 | 19.79 | 4.51 | 7.32 | 0.85 | 0.00 | 62 |
| | H25LU050 | CP 120 S | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 54" JAW OPENING (ADD 140,000 LB HYDRAULIC EXCAVATOR) | | | $78,283 | 29.67 | 6.84 | 11.09 | 1.29 | 0.00 | 99 |
| | H25LU040 | UP 45 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 45" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | $145,226 | 54.12 | 12.69 | 20.57 | 2.40 | 0.00 | 105 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *LABOUNTY MANUFACTURING, (continued)* | | | | | | | | | |
| | H25LU041 | UP 75 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 49" JAW OPENING (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | $178,117 | 66.21 | 15.56 | 25.23 | 2.94 | 0.00 | 127 |
| | H25LU042 | UP 90 | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, CRACKING JAWS, 62" JAW OPENING (ADD 75,000 LB HYDRAULIC EXCAVATOR) | | | $215,020 | 80.52 | 18.78 | 30.46 | 3.55 | 0.00 | 171 |
| | H25LU053 | UP 45 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 36" JAW OPENING (ADD 55,000 LB HYDRAULIC EXCAVATOR) | | | $152,778 | 56.89 | 13.34 | 21.64 | 2.52 | 0.00 | 105 |
| | H25LU054 | UP 75 SV | HYDRAULIC EXCAVATOR, ATTACHMENT, CONCRETE PULVERIZER, 40" JAW OPENING (ADD 80,000 LB HYDRAULIC EXCAVATOR) | | | $188,064 | 69.86 | 16.42 | 26.64 | 3.10 | 0.00 | 126 |
| | **SUBCATEGORY 0.24** | | **ATTACHMENTS, COMPACTORS** | | | | | | | | | |
| | | | **ALLIED CONSTRUCTION PRODUCTS** | | | | | | | | | |
| | H25AU001 | 4700 W/SWIVEL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 18" X 12" PLATE, 3,000 LBS FORCE (ADD 15,000-20,000 LB HYDRAULIC EXCAVATOR) | | | $7,643 | 2.81 | 0.67 | 1.08 | 0.13 | 0.00 | 4 |
| | H25AU002 | 8700C W/SWIVEL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 34" X 24" PLATE, 6,400 LBS FORCE (ADD 20,000-30,000 LB HYDRAULIC EXCAVATOR) | | | $8,841 | 3.25 | 0.78 | 1.25 | 0.15 | 0.00 | 9 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *ALLIED CONSTRUCTION PRODUCTS (continued)* | | | | | | | | | |
| | H25AU003 | 9700C W/SWIVEL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 40" X 29" PLATE, 13,000 LBS FORCE (ADD 25,000-50,000 LB HYDRAULIC EXCAVATOR) | | | $12,360 | 4.54 | 1.08 | 1.75 | 0.20 | 0.00 | 16 |
| | H25AU004 | 9800 W/SWIVEL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 46" X 34" PLATE, 20,000 LBS FORCE (ADD 40,000-75,000 LB HYDRAULIC EXCAVATOR) | | | $19,252 | 7.08 | 1.69 | 2.73 | 0.32 | 0.00 | 23 |
| | H25AU005 | 9801 W/SWIVEL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 46" X 34" PLATE, 22,000 LBS FORCE (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | $19,299 | 7.09 | 1.69 | 2.73 | 0.32 | 0.00 | 23 |
| | | | **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) | | | $7,960 | 2.93 | 0.70 | 1.13 | 0.13 | 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) | | | $9,611 | 3.53 | 0.84 | 1.36 | 0.16 | 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) | | | $10,878 | 4.00 | 0.95 | 1.54 | 0.18 | 0.00 | 39 |
| | H25AX002 | DC-36BL | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 35" WIDE, SHEEPS FOOT, 4 RIMS - 38" DIA (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | $9,390 | 3.46 | 0.83 | 1.33 | 0.16 | 0.00 | 33 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *AMERICAN COMPACTION EQUIPMENT, INC. (continued)* | | | | | | | | | |
| | H25AX004 | DC-36EX | HYDRAULIC EXCAVATOR, ATTACHMENT, COMPACTOR, 35" WIDE, SHEEPS FOOT, 4 RIMS - 42" DIA (ADD 50,000-75,000 LB HYDRAULIC EXCAVATOR) | | | $11,649 | 4.28 | 1.02 | 1.65 | 0.19 | 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) | | | $13,465 | 4.95 | 1.18 | 1.91 | 0.22 | 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) | | | $5,945 | 2.33 | 0.52 | 0.84 | 0.10 | 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) | | | $12,402 | 4.71 | 1.08 | 1.76 | 0.20 | 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) | | | $17,145 | 6.45 | 1.50 | 2.43 | 0.28 | 0.00 | 23 |
| | | | **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) | | | $8,228 | 3.03 | 0.73 | 1.17 | 0.14 | 0.00 | 22 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H25* | | | *WAIN-ROY, INC. (continued)* | | | | | | | | | | |
| | 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) | | | | $9,048 | 3.32 | 0.79 | 1.28 | 0.15 | 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) | | | | $9,923 | 3.65 | 0.87 | 1.41 | 0.16 | 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) | | | | $11,300 | 4.16 | 0.99 | 1.60 | 0.19 | 0.00 | 38 |
| **H30** | **HYDRAULIC EXCAVATORS, WHEEL MOUNTED** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **0 THRU 1.0 CY** | | | | | | | | | | |
| | | | **CATERPILLAR 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 | | $206,299 | 54.03 | 12.88 | 18.83 | 3.46 | 12.79 | 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 | | $174,728 | 45.55 | 10.77 | 15.68 | 2.93 | 10.25 | 352 |
| | | | **GRADALL 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 | $299,027 | 79.16 | 18.77 | 27.50 | 5.02 | 19.73 | 475 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H30* | | | *GRADALL COMPANY (continued)* | | | | | | | | | |
| | H30GA007 | XL 3300 III | HYDRAULIC EXCAVATORS, WHEEL, 15,270 LBS, 0.68 CY BUCKET, TELESCOPIC BOOM, 4X4X2 | 138 HP D-off | | $210,626 | 53.11 | 13.24 | 19.41 | 3.53 | 11.69 | 393 |
| | **SUBCATEGORY 0.02** | | **OVER 1.0 CY** | | | | | | | | | |
| | | | **GRADALL 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 | $333,047 | 79.48 | 17.52 | 24.09 | 5.47 | 17.76 | 550 |
| | | | **Komatsu America 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 | | $252,090 | 53.96 | 13.47 | 18.66 | 4.14 | 10.42 | 376 |
| **H35** | **HYDRAULIC SHOVELS, CRAWLER MOUNTED** | | | | | | | | | | | |
| | **SUBCATEGORY 0.12** | | **DIESEL, OVER 5.0 CY** | | | | | | | | | |
| | | | **HITACHI CONSTRUCTION MACHINERY** | | | | | | | | | |
| | H35HI006 | EX1200-5 | HYDRAULIC SHOVEL, CRAWLER, 8.5 CY BUCKET, FRONT SHOVEL, 17' 3" DIGGING DEPTH | 641 HP D-off | | $1,377,151 | 275.57 | 55.55 | 68.86 | 21.12 | 58.02 | 2,447 |
| | | | **O & K ORENSTEIN & KOPPEL INC.** | | | | | | | | | |
| | H35OK001 | RH 40 E | HYDRAULIC SHOVEL, CRAWLER, 9.20 CY BUCKET, BACKHOE, 28' 10" DIGGING DEPTH | 607 HP D-off | | $872,960 | 193.91 | 35.22 | 43.65 | 13.39 | 54.95 | 2,204 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *H35* | | | *O & K ORENSTEIN & KOPPEL INC. (continued)* | | | | | | | | | |
| | H35OK003 | RH 90 C | HYDRAULIC SHOVEL, CRAWLER, 13.10 CY BUCKET, BACKHOE, 31' 1" DIGGING DEPTH | 1,01E HP D-off | | $1,772,561 | 373.19 | 71.51 | 88.63 | 27.19 | 92.15 | 3,594 |
| | H35OK004 | RH 120 C | HYDRAULIC SHOVEL, CRAWLER, 17.00 CY BUCKET, FRONT SHOVEL, 7' 7" DIGGING DEPTH | 1,28( HP D-off | | $2,827,906 | 562.42 | 114.07 | 141.40 | 43.37 | 115.87 | 5,842 |
| | H35OK005 | RH 200 | HYDRAULIC SHOVEL, CRAWLER, 34.00 CY BUCKET, BACKHOE, 30' 6" DIGGING DEPTH | 2,25( HP D-off | | $5,331,701 | 1,044.72 | 215.07 | 266.59 | 81.77 | 203.67 | 10,582 |
| L10 | LAND CLEARING EQUIPMENT | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **LAND CLEARING EQUIPMENT** | | | | | | | | | |
| | | | **BALDERSON, INC.** | | | | | | | | | |
| | L10BS004 | BBL7 | LAND CLEARING EQUIPMENT, ROCK & ROOT RAKE, 12.0' WIDE, 9 TEETH (ADD 200 - 250 HP TRACTOR DOZER) | | | $10,450 | 2.45 | 0.59 | 0.84 | 0.17 | 0.00 | 24 |
| | L10BS005 | BRK8 | LAND CLEARING EQUIPMENT, ROCK & ROOT RAKE 12.5' WIDE, 9 TEETH (ADD 275 - 325 HP TRACTOR DOZER) | | | $27,747 | 6.11 | 1.55 | 2.22 | 0.44 | 0.00 | 72 |
| | L10BS002 | BMA8 | LAND CLEARING EQUIPMENT, MULTI-APPLICATION RAKE, 12.5' WIDE, 9 TEETH (ADD 275 - 325 HP TRACTOR DOZER) | | | $30,262 | 6.63 | 1.69 | 2.42 | 0.48 | 0.00 | 68 |
| | L10BS007 | 988 DTC | LAND CLEARING EQUIPMENT, LOGGING FORK, 92" TINES (ADD 400 - 450 HP FE LOADER) | | | $38,928 | 8.65 | 2.18 | 3.11 | 0.62 | 0.00 | 90 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **BUSH HOG** | | | | | | | | | |
| | L10BU009 | FH174 | LAND CLEARING EQUIPMENT, FLAIL MOWER, 62" WIDE, 0.5 - 5" HEIGHT (ADD FARM 30 - 60 HP TRACTOR) | | | $5,211 | 1.99 | 0.29 | 0.42 | 0.08 | 0.00 | 10 |
| | L10BU005 | SM-60 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 5' WIDE-SIDE MTD (ADD FARM 50 HP TRACTOR) | | | $9,818 | 3.16 | 0.56 | 0.79 | 0.16 | 0.00 | 17 |
| | L10BU010 | 287 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 7' WIDE, 1.5 - 12" HEIGHT (ADD FARM 40 HP TRACTOR) | | | $5,009 | 1.85 | 0.28 | 0.40 | 0.08 | 0.00 | 11 |
| | L10BU011 | 3210 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 10.5' WIDE, 2 - 14" HEIGHT (ADD FARM 70 HP TRACTOR) | | | $10,788 | 3.75 | 0.60 | 0.86 | 0.17 | 0.00 | 25 |
| | L10BU012 | 3715 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 15' WIDE, 2 - 14" HEIGHT (ADD FARM 80 HP TRACTOR) | | | $22,114 | 6.63 | 1.24 | 1.77 | 0.35 | 0.00 | 50 |
| | L10BU013 | 2720 | LAND CLEARING EQUIPMENT, ROTARY CUTTER, 20' WIDE, 2 - 14" HEIGHT (ADD FARM 90 HP TRACTOR) | | | $22,967 | 7.32 | 1.29 | 1.84 | 0.37 | 0.00 | 56 |
| | | | **ROME PLOW CO.** | | | | | | | | | |
| | L10RM001 | RV8N | LAND CLEARING EQUIPMENT, V-TREE CUTTER (ADD 275 - 325 HP TRACTOR DOZER) | | | $53,893 | 11.69 | 3.02 | 4.31 | 0.86 | 0.00 | 134 |
| | L10RM002 | MA-152R-8S | LAND CLEARING EQUIPMENT, MULTI-APPLICATION RAKE, 12' 8" WIDE, 9 TEETH (ADD 275 - 325 HP TRACTOR DOZER) | | | $48,886 | 10.24 | 2.74 | 3.91 | 0.78 | 0.00 | 150 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **VERMEER MANUFACTURING CO.** | | | | | | | | | | | | |
| | L10VE010 | SC 252 | LAND CLEARING EQUIPMENT, STUMPER, 16" DIA WHEEL, TRAILER MTD | 27 HP | G | | $12,977 | 8.02 | 0.72 | 1.02 | 0.21 | 4.62 | 11 |
| | L10VE002 | SC 352 | LAND CLEARING EQUIPMENT, STUMPER, 18" DIA WHEEL, TRAILER MTD | 35 HP | G | | $23,763 | 11.85 | 1.32 | 1.87 | 0.38 | 5.99 | 22 |
| | L10VE009 | SC 802 | LAND CLEARING EQUIPMENT, STUMPER, 28" DIA WHEEL, TRAILER MTD | 78 HP | D-off | | $37,347 | 15.27 | 2.07 | 2.96 | 0.59 | 6.61 | 40 |
| | L10VE005 | TS-30 | LAND CLEARING EQUIPMENT, TREE SPADE, 30" DIA, 26" DEPTH, TRAILER MTD | 13 HP | G | | $12,911 | 5.26 | 0.71 | 1.00 | 0.21 | 2.23 | 38 |
| | L10VE006 | TS-44A | LAND CLEARING EQUIPMENT, TREE SPADE, 44" DIA, 40" DEPTH, TRAILER MTD | 20 HP | G | | $33,434 | 10.93 | 1.86 | 2.65 | 0.53 | 3.42 | 66 |
| | L10VE007 | TS-50 | LAND CLEARING EQUIPMENT, TREE SPADE, 50" DIA, 48" DEPTH (ADD 13,800 GVW TRUCK) | | | | $29,012 | 7.57 | 1.62 | 2.32 | 0.46 | 0.00 | 81 |
| **L15** | **LANDSCAPING EQUIPMENT** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **LANDSCAPING EQUIPMENT** | | | | | | | | | | |
| | **BOWIE INDUSTRIES, INC.** | | | | | | | | | | | | |
| | L15BW001 | LANCER 500 | LANDSCAPING EQUIPMENT, 500 GAL, HYDROMULCHER, TRAILER MTD | 25 HP | G | | $17,095 | 14.02 | 2.09 | 3.56 | 0.31 | 5.71 | 25 |
| | L15BW002 | VICTOR 800 | LANDSCAPING EQUIPMENT, 800 GAL, HYDROMULCHER, TRAILER MTD | 35 HP | G | | $30,852 | 22.73 | 3.76 | 6.41 | 0.55 | 7.99 | 48 |
| | L15BW003 | VICTOR 1100 | LANDSCAPING EQUIPMENT, 1,100 GAL, HYDROMULCHER, GOOSENECK TRAILER MTD | 50 HP | G | | $35,479 | 28.63 | 4.33 | 7.40 | 0.63 | 11.41 | 60 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L15* | | | *BOWIE INDUSTRIES, INC. (continued)* | | | | | | | | | |
| | L15BW004 | IMPERIAL 3000 | LANDSCAPING EQUIPMENT, 3,000 GAL, HYDROMULCHER, TRUCK MTD (ADD 55,000 GVW TRUCK) | 90 HP D-off | | $50,504 | 33.88 | 6.27 | 10.73 | 0.90 | 9.99 | 88 |
| | | | **FINN CORPORATION** | | | | | | | | | |
| | L15FG001 | T330 | LANDSCAPING EQUIPMENT, 3,000 GAL, HYDROSEEDER, TRUCK MTD (INCLUDES 56,000 GVW TRUCK) | 115 HP D-off | 310 HP D-off | $190,940 | 106.25 | 23.71 | 40.57 | 3.42 | 18.19 | 96 |
| | L15FG002 | B260T | LANDSCAPING EQUIPMENT, MULCHER, STRAW BLOWER, 20 TONS PER HOUR, TRAILER MOUNTED | 115 HP D-off | | $44,054 | 34.02 | 5.42 | 9.26 | 0.79 | 12.76 | 48 |
| | | | **HOFFCO-COMET** | | | | | | | | | |
| | L15HZ001 | PH980E | POST HOLE DRILL, UP TO 8" DIA, 30" DEEP, ONE MAN OPERATION | 3 HP G | | $837 | 1.13 | 0.10 | 0.18 | 0.01 | 0.68 | 1 |
| | | | **DEERE & COMPANY** | | | | | | | | | |
| | L15JD001 | F725 | LANDSCAPING EQUIPMENT, LAWNMOWER, 54" DECK, SIDE DISCHARGE RIDING, 4X2 | 20 HP G | | $11,356 | 10.64 | 1.05 | 1.69 | 0.20 | 4.56 | 12 |
| | L15JD005 | MX5 | LANDSCAPING EQUIPMENT, ROTARY MOWER, 60" WIDE, MEDIUM DUTY, PTO DRIVE (ADD 45 - 100 HP AGRICULTURAL TRACTOR) | | | $2,332 | 1.05 | 0.29 | 0.50 | 0.04 | 0.00 | 8 |
| | L15JD006 | 609 | LANDSCAPING EQUIPMENT, ROTARY MOWER, 60" WIDE, HEAVY DUTY, PTO DRIVE (ADD 45 - 100 HP AGRICULTURAL TRACTOR) | | | $4,297 | 1.93 | 0.54 | 0.91 | 0.08 | 0.00 | 12 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **TORO** | | | | | | | | | |
| | L15TO001 | 22188 - PRO-LINE 21" | LANDSCAPING EQUIPMENT, LAWNMOWER, 21" DECK, REAR BAGGER, PUSH MOWER | 6 HP G | | $1,344 | 2.14 | 0.17 | 0.29 | 0.02 | 1.37 | 1 |
| | L15TO002 | 30092 MID-SIZE | LANDSCAPING EQUIPMENT, LAWNMOWER, 32" DECK, SIDE DISCHARGE, WALK BEHIND MOWER | 15 HP G | | $4,122 | 5.71 | 0.46 | 0.78 | 0.07 | 3.42 | 6 |
| | L15TO003 | 74448 | LANDSCAPING EQUIPMENT, LAWNMOWER, 48" DECK, SIDE DISCHARGE, RIDING MOWER | 21 HP G | | $7,931 | 8.94 | 0.94 | 1.59 | 0.14 | 4.79 | 12 |
| | L15TO004 | 74449 | LANDSCAPING EQUIPMENT, LAWNMOWER, 52" DECK W/Z100 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 21 HP G | | $8,466 | 9.19 | 1.01 | 1.72 | 0.15 | 4.79 | 13 |
| | L15TO006 | 74253 | LANDSCAPING EQUIPMENT, LAWNMOWER, 60" DECK W/Z500 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 29 HP G | | $15,549 | 14.49 | 1.87 | 3.17 | 0.28 | 6.62 | 15 |
| | L15TO007 | 74254 | LANDSCAPING EQUIPMENT, LAWNMOWER, 72" DECK, W/Z500 TRACTOR, SIDE DISCHARGE, RIDING MOWER | 29 HP G | | $16,059 | 14.72 | 1.93 | 3.28 | 0.29 | 6.62 | 17 |
| | | | **WILLMAR EQUIPMENT COMPANY** | | | | | | | | | |
| | L15WI001 | S-200 | LANDSCAPING EQUIPMENT, SPREADER, 70 CF DRY CHEMICAL (ADD 55 HP FARM TRACTOR) | | | $8,452 | 3.82 | 1.01 | 1.71 | 0.15 | 0.00 | 15 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L20 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **METALLIC VAPOR** | | | | | | | | | |
| | | | **ALLMAND 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 | | $13,976 | 6.70 | 0.92 | 1.37 | 0.23 | 1.60 | 21 |
| | L20AB018 | MAXI-LITE 7.5/8 CSA | LITE SET, TRAILER MTD., 4/1,000W, W/8 KW GEN, ELECTRIC MAST WINCH | 14 HP D-off | | $15,540 | 7.37 | 1.02 | 1.53 | 0.25 | 1.71 | 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 | | $18,178 | 8.30 | 1.20 | 1.79 | 0.30 | 1.71 | 21 |
| | L20AB020 | NIGHT-LITE PRO | LITE SET, TRAILER MTD., 4/1,000W, W/6 KW GEN, MANUAL MAST WINCH | 12 HP D-off | | $11,815 | 5.68 | 0.77 | 1.15 | 0.19 | 1.38 | 20 |
| | L20AB021 | NIGHT-LITE PRO CSA | LITE SET, TRAILER MTD., 4/1,000W, W/8 KW GEN, MANUAL MAST WINCH | 14 HP D-off | | $12,472 | 6.29 | 0.81 | 1.22 | 0.20 | 1.71 | 20 |
| | L20AB022 | NIGHT-LITE PR0 V | LITE SET, TRAILER MTD., 4/1,000W, W/7.5 KW GEN, ELECTRIC MAST WINCH | 13 HP D-off | | $14,053 | 6.73 | 0.92 | 1.38 | 0.23 | 1.60 | 21 |
| | L20AB023 | ECLIPSE 2220/SE ALT | LITE SET, TRAILER MTD., 15 LED LAMP, FLASHING ARROW, W/TWO 8D BATTERIES AND 50W SOLAR ARRAY | | | $5,815 | 2.04 | 0.37 | 0.56 | 0.09 | 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 | | | $6,218 | 2.18 | 0.40 | 0.60 | 0.10 | 0.00 | 12 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **L25** | **LINE STRIPING EQUIPMENT** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **LINE STRIPING EQUIPMENT** | | | | | | | | | | |
| | | | **JCL EQUIPMENT CO.** | | | | | | | | | | |
| | L25JE001 | 4-B | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 2 GUNS, SELF PROPELLED, SINGLE COLOR | 13 HP | G | | $11,980 | 7.20 | 0.80 | 1.20 | 0.20 | 3.17 | 15 |
| | L25JE002 | ROAD RUNNER | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3 GUNS, TRUCK MOUNTED (11,000 LB GVW), TWO COLORS | 230 HP | D-off | | $101,946 | 61.86 | 6.70 | 10.07 | 1.66 | 27.54 | 116 |
| | | | **M-B COMPANIES, INC.** | | | | | | | | | | |
| | L25MB002 | 5-10 | LINE STRIPING EQUIPMENT, STRIPER, 1 GUN, WALK-BEHIND, SINGLE COLOR | 5 HP | G | | $6,335 | 4.34 | 0.36 | 0.51 | 0.10 | 1.22 | 6 |
| | L25MB005 | 5-12A | LINE STRIPING EQUIPMENT, STRIPER, 2 GUNS, WALK BEHIND, SINGLE COLOR | 10 HP | G | | $11,498 | 7.28 | 0.71 | 1.03 | 0.19 | 2.44 | 6 |
| | L25MB007 | 220 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3-4 GUNS, SELF PROPELLED, THREE COLORS | 23 HP | G | | $53,578 | 23.59 | 3.55 | 5.36 | 0.87 | 5.61 | 30 |
| | L25MB006 | 245 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3 GUNS, SELF PROPELLED, TWO COLORS | 60 HP | G | | $95,398 | 46.68 | 6.33 | 9.54 | 1.56 | 14.65 | 48 |
| | L25MB004 | VANMARK 360 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3-4 GUNS, W/11,000 LBS GVW TRUCK, TWO COLORS | 190 HP | G | | $157,548 | 101.33 | 10.39 | 15.63 | 2.57 | 46.38 | 133 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L25* | | | *M-B COMPANIES, INC. (continued)* | | | | | | | | | |
| | L25MB008 | 360 | LINE STRIPING EQUIPMENT, STRIPER, INTERMEDIATE, 3-4 GUNS, THERMAL 120 GAL, TRUCK MTD, TWO COLORS | 190 HP D-off | | $171,552 | 79.36 | 11.20 | 16.80 | 2.80 | 22.75 | 80 |
| **L30** | **LOADERS, BELT (Conveyor belts) & ACCESSORIES** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **LOADERS, BELT (Conveyor belts) & ACCESSORIES** | | | | | | | | | |
| | | | **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 | | $146,229 | 35.07 | 8.05 | 11.44 | 2.33 | 1.58 | 138 |
| | | | **KOLBERG - PIONEER, INC** | | | | | | | | | |
| | L30KB001 | 11-2450 | LOADER, CONVEYOR BELT & ACCESSORIES, COVEYOR 50', MOBILE, CONCRETE & AGGREGATE, 24" WIDE | 15 HP E | | $34,990 | 9.29 | 1.92 | 2.71 | 0.56 | 0.95 | 57 |
| | L30KB002 | 11-2460 | LOADER, CONVEYOR BELT & ACCESSORIES, CONVEYOR, 60', MOBILE, CONCRETE & AGGREGATE, 24" WIDE | 15 HP E | | $36,875 | 9.71 | 2.02 | 2.86 | 0.59 | 0.95 | 62 |
| | | | **METSO MINERALS** | | | | | | | | | |
| | L30RA001 | CV50D | LOADER, CONVEYOR BELT & ACCESSORIES, GRIZZLY SINGLE SCREEN, 40 CY/HR TRAILER MTD | 25 HP D-off | | $75,671 | 19.40 | 4.18 | 5.96 | 1.20 | 2.26 | 130 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SUPERIOR INDUSTRIES, AN ASTEC COMPANY** | | | | | | | | | |
| | L30S4001 | 36"X35' FEED CONVEY | LOADER, CONVEYOR BELT & ACCESSORIES, BELT FEEDER | 15 HP E | | $19,220 | 5.73 | 1.08 | 1.54 | 0.31 | 0.95 | 33 |
| | L30S4002 | RUN-ON HYDRAULIC LEG | LOADER, CONVEYOR BELT & ACCESSORIES, 4 HYDRAULIC JACK LEGS | | | $21,858 | 4.85 | 1.23 | 1.75 | 0.35 | 0.00 | 28 |
| | L30S4003 | SIDE SKIRTING UPPER | LOADER, CONVEYOR BELT & ACCESSORIES, SIDE GUARD, ONE SIDE, UPPER | | | $1,677 | 0.37 | 0.10 | 0.13 | 0.03 | 0.00 | 9 |
| | L30S4004 | SIDE SKIRTING LOWER | LOADER, CONVEYOR BELT & ACCESSORIES, SIDE GUARD, ONE SIDE, LOWER | | | $2,774 | 0.61 | 0.15 | 0.22 | 0.04 | 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 | | $38,889 | 9.98 | 2.08 | 2.92 | 0.62 | 0.76 | 10 |
| L35 | LOADERS, FRONT END, CRAWLER TYPE | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **LOADERS, FRONT END, CRAWLER TYPE** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | L35CA013 | 939-C | LOADER, FRONT END, CRAWLER, 1.50 CY BUCKET | 90 HP D-off | | $128,307 | 40.07 | 7.17 | 10.26 | 2.04 | 8.94 | 209 |
| | L35CA005 | 953-D | LOADER, FRONT END, CRAWLER, 2.25 CY BUCKET | 148 HP D-off | | $210,542 | 65.77 | 11.77 | 16.84 | 3.35 | 14.69 | 334 |
| | L35CA014 | 963-D | LOADER, FRONT END, CRAWLER, 3.20 CY BUCKET | 160 HP D-off | | $286,970 | 85.04 | 16.05 | 22.96 | 4.57 | 15.88 | 433 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L35* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | L35CA007 | 973-C | LOADER, FRONT END, CRAWLER, 3.70 CY BUCKET | 242 HP D-off | | $393,896 | 119.21 | 22.03 | 31.51 | 6.27 | 24.03 | 581 |
| | | | **Komatsu America International Company** | | | | | | | | | |
| | L35KM006 | D75S-5 | LOADER, FRONT END, CRAWLER, 3.30 CY BUCKET | 200 HP D-off | | $465,403 | 131.34 | 26.03 | 37.23 | 7.41 | 19.86 | 485 |
| L40 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | |
| | **SUBCATEGORY 0.11** | | **ARTICULATED, 0 THRU 225 HP** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | L40CA032 | 904B | LOADER, FRONT END, WHEEL, 0.80 CY BUCKET, ARTICULATED, 4X4 | 52 HP D-off | | $48,501 | 15.02 | 2.68 | 3.76 | 0.80 | 4.71 | 98 |
| | L40CA033 | 906 | LOADER, FRONT END, WHEEL, 1.00 CY BUCKET, ARTICULATED, 4X4 | 68 HP D-off | | $63,492 | 19.54 | 3.54 | 4.97 | 1.05 | 6.16 | 109 |
| | L40CA034 | 908 | LOADER, FRONT END, WHEEL, 1.30 CY BUCKET, ARTICULATED, 4X4 | 76 HP D-off | | $74,341 | 24.75 | 4.02 | 5.58 | 1.23 | 6.88 | 133 |
| | L40CA019 | 914G | LOADER, FRONT END, WHEEL, 1.70 CY BUCKET, ARTICULATED, 4X4 | 95 HP D-off | | $104,072 | 30.59 | 5.85 | 8.25 | 1.72 | 8.60 | 175 |
| | L40CA022 | 924Hz | LOADER, FRONT END, WHEEL, 2.20 CY BUCKET, ARTICULATED, 4X4 | 128 HP D-off | | $144,350 | 41.77 | 8.14 | 11.50 | 2.39 | 11.59 | 242 |
| | L40CA015 | 928Hz | LOADER, FRONT END, WHEEL, 2.60 CY BUCKET, ARTICULATED, 4X4 | 149 HP D-off | | $143,439 | 43.73 | 8.09 | 11.43 | 2.37 | 13.49 | 276 |
| | L40CA023 | 938H | LOADER, FRONT END, WHEEL, 3.65 CY BUCKET, ARTICULATED, 4X4 | 180 HP D-off | | $176,321 | 54.58 | 9.81 | 13.77 | 2.92 | 16.29 | 332 |
| | L40CA024 | 950H | LOADER, FRONT END, WHEEL, 3.50 CY BUCKET, ARTICULATED, 4X4 | 197 HP D-off | | $221,923 | 66.14 | 12.29 | 17.23 | 3.67 | 17.83 | 404 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L40* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | | |
| | L40CA025 | 962H | LOADER, FRONT END, WHEEL, 4.00 CY BUCKET, ARTICULATED, 4X4 | 211 HP | D-off | | $235,601 | 70.20 | 13.07 | 18.33 | 3.90 | 19.10 | 427 |
| | | | **CASE CORPORATION** | | | | | | | | | | |
| | L40CS009 | 621D | LOADER, FRONT END, WHEEL, 2.5 CY BUCKET, ARTICULATED, 4X4 | 136 HP | D-off | | $161,708 | 46.64 | 9.04 | 12.74 | 2.67 | 12.31 | 261 |
| | L40CS010 | 721D | LOADER, FRONT END, WHEEL, 3.0 CY BUCKET, ARTICULATED, 4X4 | 181 HP | D-off | | $192,511 | 57.17 | 10.80 | 15.24 | 3.18 | 16.38 | 306 |
| | L40CS011 | 821C | LOADER, FRONT END, WHEEL, 3.5 CY BUCKET, ARTICULATED, 4X4 | 187 HP | D-off | | $243,048 | 69.19 | 13.49 | 18.94 | 4.02 | 16.93 | 379 |
| | | | **Komatsu America International Company** | | | | | | | | | | |
| | L40KM015 | WA95-3 | LOADER, FRONT END, WHEEL, 1.40 CY BUCKET, ARTICULATED, 4X4 | 75 HP | D-off | | $90,701 | 25.73 | 5.04 | 7.07 | 1.50 | 6.79 | 128 |
| | L40KM003 | WA250-5 | LOADER, FRONT END, WHEEL, 3.00 CY BUCKET, ARTICULATED, 4X4 | 139 HP | D-off | | $154,442 | 45.01 | 8.69 | 12.28 | 2.55 | 12.58 | 241 |
| | **SUBCATEGORY 0.12** | | **ARTICULATED, OVER 225 HP** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | L40CA007 | 980G II | LOADER, FRONT END, WHEEL, 6.00 CY BUCKET, ARTICULATED, 4X4 | 300 HP | D-off | | $482,000 | 108.14 | 20.97 | 26.99 | 7.47 | 27.16 | 660 |
| | L40CA018 | 990 SERIES II | LOADER, FRONT END, WHEEL, 11.00 CY BUCKET, ARTICULATED, 4X4 | 618 HP | D-off | | $1,198,794 | 235.96 | 52.02 | 66.86 | 18.59 | 55.94 | 1,628 |
| | L40CA009 | 992-G | LOADER, FRONT END, WHEEL, 16.00 CY BUCKET, ARTICULATED, 4X4 | 800 HP | D-off | | $1,658,104 | 322.86 | 71.36 | 91.30 | 25.71 | 72.42 | 2,023 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Komatsu America International Company** | | | | | | | | | | | | |
| | L40KM008 | WA500-3 | LOADER, FRONT END, WHEEL, 6.50 CY BUCKET, ARTICULATED, 4X4 | 335 HP | D-off | | $481,740 | 106.55 | 20.96 | 26.97 | 7.47 | 30.32 | 671 |
| | L40KM009 | WA600-3 | LOADER, FRONT END, WHEEL, 8.00 CY BUCKET, ARTICULATED, 4X4 | 490 HP | D-off | | $688,373 | 149.40 | 29.69 | 38.04 | 10.67 | 44.35 | 1,019 |
| | L40KM010 | WA700-3 | LOADER, FRONT END, WHEEL, 11.10 CY BUCKET, ARTICULATED, 4X4 | 684 HP | D-off | | $1,119,423 | 231.35 | 48.44 | 62.15 | 17.36 | 61.92 | 1,574 |
| | L40KM011 | WA800-3 | LOADER, FRONT END, WHEEL, 13.10 CY BUCKET, ARTICULATED, 4X4 | 853 HP | D-off | | $1,437,224 | 297.12 | 61.39 | 78.21 | 22.28 | 77.21 | 2,230 |
| | **SUBCATEGORY 0.20** | | **SKID STEER** | | | | | | | | | | |
| | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | | | |
| | L40CA028 | 216B | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 60" BUCKET, 4X4 | 49 HP | D-off | | $32,106 | 13.95 | 2.05 | 3.05 | 0.52 | 4.86 | 54 |
| | L40CA029 | 226B | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 60" BUCKET, 4X4 | 54 HP | D-off | | $35,558 | 15.34 | 2.28 | 3.39 | 0.58 | 5.36 | 58 |
| | L40CA030 | 236B | LOADER, FRONT END, WHEEL, SKID-STEER, 14.0 CF, 66" BUCKET, 4X4 | 59 HP | D-off | | $40,389 | 17.33 | 2.57 | 3.81 | 0.66 | 5.86 | 71 |
| | L40CA031 | 246C | LOADER, FRONT END, WHEEL, SKID-STEER, 15.4 CF, 72" BUCKET, 4X4 | 74 HP | D-off | | $39,338 | 18.76 | 2.50 | 3.71 | 0.64 | 7.35 | 74 |
| | **MELROE COMPANY/BOBCAT** | | | | | | | | | | | | |
| | L40ME016 | S70 | LOADER, FRONT END, WHEEL, SKID-STEER, 6.5 CF, 44" BUCKET, 4X4 | 24 HP | D-off | | $17,033 | 6.99 | 1.10 | 1.64 | 0.28 | 2.33 | 28 |
| | L40ME017 | S100 | LOADER, FRONT END, WHEEL, SKID-STEER, 6.7 CF, 48" BUCKET, 4X4 | 36 HP | D-off | | $21,260 | 9.53 | 1.37 | 2.03 | 0.35 | 3.52 | 41 |
| | L40ME012 | S175 | LOADER, FRONT END, WHEEL, SKID-STEER, 14.3 CF, 60" BUCKET | 46 HP | D-off | | $27,864 | 12.20 | 1.81 | 2.72 | 0.45 | 4.57 | 62 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L40* | | | *MELROE COMPANY/BOBCAT (continued)* | | | | | | | | | |
| | L40ME021 | S130 | LOADER, FRONT END, WHEEL, SKID-STEER, 13.0 CF, 54" BUCKET, 4X4 | 49 HP D-off | | $24,376 | 12.05 | 1.54 | 2.28 | 0.40 | 4.86 | 52 |
| | L40ME022 | S220 | LOADER, FRONT END, WHEEL, SKID-STEER, 16.3 CF, 66" BUCKET, 4X4 | 75 HP D-off | | $35,698 | 17.70 | 2.29 | 3.41 | 0.58 | 7.45 | 75 |
| | L40ME023 | S300 | LOADER, FRONT END, WHEEL, SKID-STEER, 23.3 CF, 78" BUCKET, 4X4 | 81 HP D-off | | $39,633 | 19.34 | 2.56 | 3.81 | 0.65 | 8.04 | 83 |
| | **SUBCATEGORY 0.31** | | **TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP** | | | | | | | | | |
| | | | **CATERPILLAR 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 HP D-off | | $121,556 | 34.13 | 6.47 | 8.94 | 2.00 | 8.15 | 180 |
| | 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 | | $193,608 | 54.07 | 10.35 | 14.33 | 3.18 | 13.13 | 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 | | $269,464 | 74.99 | 14.41 | 19.97 | 4.42 | 18.10 | 454 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **L50** | **LOADERS / BACKHOE, WHEEL TYPE** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **LOADERS / BACKHOE, WHEEL TYPE** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | L50CA001 | 416E | LOADER / BACKHOE, WHEEL, 1.00 CY FRONT END BUCKET, 18" DIP, 4.5 CF, 14.5' DIGGING DEPTH, 4X2 | 78 HP D-off | | $64,575 | 21.04 | 3.37 | 4.62 | 1.06 | 5.47 | 162 |
| | L50CA004 | 446D | LOADER / BACKHOE, WHEEL, 1.50 CY FRONT END BUCKET, 36" DIP, 19 CF, 17.1' DIGGING DEPTH, 4X2 | 110 HP D-off | | $153,167 | 41.72 | 8.05 | 11.07 | 2.51 | 7.71 | 193 |
| | | | **CASE 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 | | $97,061 | 28.66 | 5.09 | 6.99 | 1.59 | 6.31 | 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 | | $116,472 | 33.35 | 6.12 | 8.41 | 1.91 | 6.87 | 153 |
| | | | **JCB INC.** | | | | | | | | | |
| | L50JC001 | 212S (4WS) | LOADER / BACKHOE, WHEEL, 0.80 CY FRONT END BUCKET, 24" DIP, 4.3 CF, 12' DIGGING DEPTH, 4X4 | 67 HP D-off | | $73,465 | 21.46 | 3.90 | 5.38 | 1.21 | 4.70 | 120 |
| | L50JC002 | 214S (2WD) | LOADER / BACKHOE, WHEEL, 1.25 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 14.6' DIGGING DEPTH, 4X2 | 92 HP D-off | | $84,062 | 26.37 | 4.39 | 6.02 | 1.38 | 6.45 | 158 |
| | L50JC003 | 214S (4WS) | LOADER / BACKHOE, WHEEL, 1.40 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 14.6' DIGGING DEPTH, 4X4 | 100 HP D-off | | $101,721 | 30.84 | 5.31 | 7.28 | 1.67 | 7.01 | 164 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L50* | | | *JCB INC. (continued)* | | | | | | | | | |
| | L50JC005 | 215S (4WS) | LOADER / BACKHOE, WHEEL, 1.40 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 20.1' DIGGING DEPTH, 4X4 | 100 HP D-off | | $117,713 | 33.92 | 6.17 | 8.48 | 1.93 | 7.01 | 176 |
| | L50JC007 | 217S (4WS) | LOADER / BACKHOE, WHEEL, 1.60 CY FRONT END BUCKET, 24" DIP, 7.1 CF, 21.5' DIGGING DEPTH, 4X4 | 100 HP D-off | | $150,068 | 40.24 | 7.90 | 10.87 | 2.46 | 7.01 | 178 |
| **L55** | **LOADER / BACKHOE, ATTACHMENTS** | | | | | | | | | | | |
| | **SUBCATEGORY 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 | | $7,091 | 3.07 | 0.60 | 0.95 | 0.12 | 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 | | $14,498 | 6.27 | 1.22 | 1.93 | 0.25 | 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) | | | $13,408 | 4.83 | 1.13 | 1.79 | 0.23 | 0.00 | 7 |
| | L55KN005 | KF9TLB | LOADER / BACKHOE, ATTACHMENT, HYDRA RAM, 1500 FT-LB, W/3.5" DIA. POINT (ADD 14,000-20,000 LB LDR/BH) | | | $19,795 | 7.12 | 1.66 | 2.64 | 0.34 | 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) | | | $29,519 | 10.62 | 2.47 | 3.94 | 0.50 | 0.00 | 19 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L60 | LOG SKIDDERS | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | **LOG SKIDDERS** | | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | L60CA014 | 517 GRAPPLE | LOG SKIDDER, 8 SF GRAPPLE, CABLE 41,050 LBS LINE-PULL AND WINCH, CRAWLER | 120 HP | D-off | | $295,571 | 69.04 | 17.11 | 25.12 | 4.55 | 10.86 | 405 |
| | L60CA013 | 525 B | LOG SKIDDER, 11 SF GRAPPLE, CABLE 43,000 LBS LINE-PULL AND WINCH, WHEEL, 4X2 | 160 HP | D-off | | $236,961 | 63.08 | 13.34 | 19.38 | 3.65 | 14.48 | 358 |
| | L60CA010 | 527 CABLE | LOG SKIDDER, CABLE, 69,200 LBS LINE-PULL AND WINCH, BLADE, CRAWLER | 150 HP | D-off | | $338,750 | 80.43 | 19.62 | 28.79 | 5.22 | 13.58 | 407 |
| | L60CA011 | 527 GRAPPLE | LOG SKIDDER, 10 SF GRAPPLE, CABLE 69,200 LBS LINE-PULL AND WINCH, CRAWLER | 150 HP | D-off | | $405,074 | 93.15 | 23.46 | 34.43 | 6.24 | 13.58 | 473 |
| | | | **DEERE & COMPANY** | | | | | | | | | | |
| | L60JD001 | 540G II - SKIDDER | LOG SKIDDER, CABLE, 40,525 LBS LINE-PULL WINCH AND BLADE, WHEEL, 4X4 | 119 HP | D-off | | $159,683 | 44.70 | 8.84 | 12.76 | 2.46 | 10.77 | 219 |
| | L60JD003 | 548G III - GRAPPLE | LOG SKIDDER, 8.0 SF GRAPPLE WITH BLADE, WHEEL, 4X4 | 119 HP | D-off | | $155,879 | 43.97 | 8.62 | 12.44 | 2.40 | 10.77 | 217 |
| | L60JD004 | 648G III - GRAPPLE | LOG SKIDDER, 10.4 SF GRAPPLE WITH BLADE, WHEEL, 4X4 | 160 HP | D-off | | $206,284 | 58.89 | 11.32 | 16.27 | 3.18 | 14.48 | 266 |
| | L60JD002 | 640G III - SKIDDER | LOG SKIDDER, CABLE, 48,867 LBS LINE-PULL WINCH AND BLADE, WHEEL, 4X4 | 151 HP | D-off | | $189,092 | 53.63 | 10.54 | 15.26 | 2.91 | 13.67 | 239 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *L60* | | | *DEERE & COMPANY (continued)* | | | | | | | | | |
| | L60JD006 | 643H | LOG SKIDDER, LOG FELLER/BUNCHER, 18" DIA TREE SAW CUTTER, WHEEL, 4X4 | 170 HP D-off | | $248,987 | 67.71 | 13.89 | 20.09 | 3.84 | 15.39 | 320 |
| | L60JD008 | 653G | LOG SKIDDER, LOG FELLER/BUNCHER, 28" DIA TREE SAW CUTTER, CRAWLER | 170 HP D-off | | $357,171 | 86.01 | 20.68 | 30.36 | 5.50 | 15.39 | 410 |
| | L60JD007 | 843G | LOG SKIDDER, LOG FELLER/BUNCHER, 20" DIA TREE SAW CUTTER, WHEEL, 4X4 | 200 HP D-off | | $272,112 | 75.21 | 15.22 | 22.05 | 4.19 | 18.10 | 323 |
| M10 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | |
| | **SUBCATEGORY 0.41** | | **WORK FLOATS (NON-DREDGING)** | | | | | | | | | |
| | | | **MARINE INLAND FABRICATORS** | | | | | | | | | |
| | M10MZ001 | | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 8' X 4', 23 TON | | | $20,186 | 5.51 | 1.84 | 3.03 | 0.32 | 0.00 | 143 |
| | M10MZ003 | | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 10' X 4', 30 TON | | | $24,798 | 6.77 | 2.26 | 3.72 | 0.40 | 0.00 | 173 |
| | **SUBCATEGORY 0.42** | | **WORK BARGES (SECTIONAL, NON-DREDGING)** | | | | | | | | | |
| | | | **MARINE INLAND FABRICATORS** | | | | | | | | | |
| | M10MZ005 | RAKE | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY', W/ONE BUCKHEAD AND SPUDS, 40' X 12' X 4', 36 TON | | | $28,465 | 1.97 | 0.82 | 0.85 | 0.39 | 0.00 | 193 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *M10* | | *MARINE INLAND FABRICATORS (continued)* | | | | | | | | | |
| | M10MZ007 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MEDIUM DUTY, 40' X 12' X 5', 51 TON | | | $29,787 | 2.06 | 0.86 | 0.89 | 0.41 | 0.00 | 217 |
| | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | M10XX001 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, BOW AND STERN SECTIONS | | | $6,303 | 0.44 | 0.19 | 0.19 | 0.09 | 0.00 | 1 |
| | M10XX002 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, LOADING RAMPS | | | $19,572 | 1.36 | 0.57 | 0.59 | 0.27 | 0.00 | 1 |
| | M10XX003 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MID-SECTION, 20' X 10' X 5' | | | $23,635 | 1.64 | 0.68 | 0.71 | 0.32 | 0.00 | 1 |
| | M10XX004 | MARINE EQUIPMENT, WORK BARGE, SECTIONAL, MID-SECTION, 40' X 10' X 5' | | | $38,291 | 2.66 | 1.11 | 1.15 | 0.53 | 0.00 | 1 |
| | **SUBCATEGORY 0.45** | **FLAT-DECK OR CARGO BARGE (NON-DREDGING)** | | | | | | | | | |
| | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | M10XX005 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 120' X 30' X 7.25', 400 TON | | | $165,130 | 5.26 | 2.98 | 1.74 | 2.11 | 0.00 | 1 |
| | M10XX006 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 120' X 45' X 7', 800 TON | | | $232,429 | 7.41 | 4.20 | 2.45 | 2.97 | 0.00 | 1 |
| | M10XX007 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 140' X 45' X 7', 900 TON | | | $295,648 | 9.43 | 5.34 | 3.12 | 3.78 | 0.00 | 1 |
| | M10XX008 | MARINE EQUIPMENT, FLAT-DECK CARGO BARGE, 150' X 45' X 9', 1,100 TON | | | $410,305 | 13.08 | 7.41 | 4.33 | 5.24 | 0.00 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.48** | | **ALL OTHER BARGES (NON-DREDGING)** | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | M10XX016 | OPEN 195 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 195' X 35' X 12', 1,400 TON | | | $246,737 | 18.44 | 7.16 | 7.81 | 3.25 | 0.00 | 1 |
| | M10XX017 | OPEN 200 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 200' X 35' X 12', 1,600 TON | | | $260,873 | 19.50 | 7.57 | 8.26 | 3.44 | 0.00 | 1 |
| | M10XX018 | CLOSED 195 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 195' X 35' X 12', 1,400 TON (COVERED) | | | $324,919 | 24.29 | 9.43 | 10.29 | 4.28 | 0.00 | 1 |
| | M10XX019 | CLOSED 200 | MARINE EQUIPMENT, ALL OTHER BARGES, HOPPER, 200' X 35' X 12', 1,600 TON (COVERED) | | | $332,005 | 24.82 | 9.64 | 10.51 | 4.38 | 0.00 | 1 |
| | **SUBCATEGORY 0.51** | | **BOATS & LAUNCHES, 0 THRU 250 HP** | | | | | | | | | |
| | | | **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 | | $50,349 | 21.23 | 2.08 | 2.67 | 0.74 | 12.67 | 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 | | $72,453 | 31.48 | 3.00 | 3.85 | 1.07 | 19.01 | 190 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **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 | | $27,197 | 28.20 | 1.12 | 1.44 | 0.40 | 21.51 | 15 |
| | M10SM008 | 19' - UTILITY SERIES | MARINE EQUIPMENT, BOATS & LAUNCHES, 19' ROUSTABOUT, TRI HULL, NO CABIN, CAP 2,600 LBS, OUTBOARD, 19.4' X 8.5' X 0.8' | 200 HP | G | | $49,291 | 49.30 | 2.04 | 2.62 | 0.73 | 37.41 | 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 | | $58,793 | 39.68 | 2.43 | 3.12 | 0.87 | 28.05 | 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 | | $72,973 | 52.24 | 3.02 | 3.88 | 1.08 | 37.41 | 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 | | $78,422 | 63.72 | 3.25 | 4.17 | 1.16 | 46.76 | 28 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | M10XX010 | 12 | MARINE EQUIPMENT, BOATS & LAUNCHES, 12' TENDER, 7' BEAM, INBOARD ENGINE | 75 HP | D-off | | $49,422 | 14.17 | 2.05 | 2.63 | 0.73 | 6.79 | 1 |
| | M10XX009 | 13 | MARINE EQUIPMENT, BOATS & LAUNCHES, 13' RUNABOUT, 5' BEAM, OUTBOARD ENGINE | 50 HP | G | | $14,935 | 12.65 | 0.62 | 0.79 | 0.22 | 9.35 | 13 |
| | M10XX011 | 14 | MARINE EQUIPMENT, BOATS & LAUNCHES, 14' TENDER, 7' BEAM, INBOARD ENGINE | 100 HP | D-off | | $56,919 | 17.76 | 2.35 | 3.02 | 0.84 | 9.05 | 13 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *M10* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | |
| | M10XX012 | 100 | MARINE EQUIPMENT, BOATS & LAUNCHES, 16', SHALLOW DRAFT, INLAND TUG | 100 HP D-off | | $57,982 | 17.90 | 2.40 | 3.08 | 0.86 | 9.05 | 13 |
| | M10XX013 | 115 | MARINE EQUIPMENT, BOATS & LAUNCHES, 22', SHALLOW DRAFT, INLAND TUG | 115 HP D-off | | $75,187 | 21.64 | 3.11 | 3.99 | 1.11 | 10.41 | 23 |
| | M10XX014 | 175 | MARINE EQUIPMENT, BOATS & LAUNCHES, 18', W/STEERING NOZZLE, INLAND TUG | 175 HP D-off | | $103,713 | 31.60 | 4.29 | 5.51 | 1.53 | 15.84 | 60 |
| | M10XX015 | 250 | MARINE EQUIPMENT, BOATS & LAUNCHES, 26', W/STEERING NOZZLE, INLAND TUG | 250 HP D-off | | $130,185 | 42.93 | 5.38 | 6.92 | 1.92 | 22.63 | 83 |
| | **SUBCATEGORY 0.53** | | **BOATS & LAUNCHES, 251 THRU 500 HP** | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | M10XX021 | 380 | MARINE EQUIPMENT, BOATS & LAUNCHES, 40', STANDARD RUDDER, INLAND TUG | 380 HP D-off | | $344,001 | 82.37 | 13.46 | 17.20 | 4.86 | 34.40 | 100 |
| | M10XX022 | 435 | MARINE EQUIPMENT, BOATS & LAUNCHES, 45' LENGTH, 16' BEAM, 5' 0" DRAFT, PUSH BOAT | 435 HP D-off | | $391,300 | 94.00 | 15.32 | 19.57 | 5.53 | 39.38 | 100 |
| | M10XX023 | 400 | MARINE EQUIPMENT, BOATS & LAUNCHES, 48' LENGTH, 20' BEAM, 6' 6" DRAFT PUSH BOAT | 400 HP D-off | | $523,749 | 106.28 | 20.51 | 26.19 | 7.41 | 36.21 | 100 |
| | M10XX024 | 435 | MARINE EQUIPMENT, BOATS & LAUNCHES, 58' LENGTH, 21' BEAM, 6' 0" DRAFT, PUSH BOAT | 435 HP D-off | | $746,703 | 137.04 | 29.23 | 37.34 | 10.56 | 39.38 | 130 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P10 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS** | | | | | | | | | | |
| | **INTERNATIONAL CONSTRUCTION EQUIPMENT,INC** | | | | | | | | | | | | |
| | P10IC001 | 216 | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 30 TON LINE PULL (ADD LEADS & CRANE) | 175 HP | D-off | | $112,821 | 51.47 | 8.17 | 12.22 | 2.06 | 15.84 | 130 |
| | P10IC002 | 416L | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 40 TON LINE PULL (ADD LEADS & CRANE) | 300 HP | D-off | | $177,623 | 83.59 | 12.86 | 19.24 | 3.24 | 27.16 | 207 |
| | P10IC005 | 1412B | PILE HAMMER ACCESSORIES, PILE EXTRACTOR, 150 TON LINE PULL (ADD LEADS & CRANE) | 800 HP | D-off | | $470,586 | 222.01 | 34.08 | 50.98 | 8.59 | 72.42 | 593 |
| | P10IC010 | | PILE HAMMER ACCESSORIES, PILE LEADS, SWING, 26" X 86' | | | | $17,464 | 5.14 | 1.27 | 1.89 | 0.32 | 0.00 | 101 |
| | P10IC012 | | PILE HAMMER ACCESSORIES, PILE LEADS, SWING, 32" X 88' | | | | $24,760 | 7.28 | 1.79 | 2.68 | 0.45 | 0.00 | 155 |
| | P10IC011 | | PILE HAMMER ACCESSORIES, PILE LEADS, FIXED, 26" X 86', W/SPOTTER | 13 HP | D-off | | $33,778 | 11.30 | 2.45 | 3.66 | 0.62 | 1.18 | 134 |
| | P10IC013 | | PILE HAMMER ACCESSORIES, PILE LEADS, FIXED, 32" X 88', W/SPOTTER | 13 HP | G | | $42,167 | 15.21 | 3.06 | 4.57 | 0.77 | 2.43 | 193 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **P20** | **PILE HAMMERS, DOUBLE ACTING** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **DIESEL** | | | | | | | | | |
| | | | **INTERNATIONAL CONSTRUCTION EQUIPMENT,INC** | | | | | | | | | |
| | P20IC002 | 422 | PILE HAMMER, DOUBLE ACTING, DIESEL, 22,500 FT-LBS, MAX STROKE 5' 8" (ADD LEADS & CRANE) | | | $102,459 | 40.09 | 8.19 | 12.81 | 1.78 | 0.00 | 122 |
| | P20IC003 | 520 | PILE HAMMER, DOUBLE ACTING, DIESEL, 30,000 FT-LBS, MAX STROKE 5' 11" (ADD LEADS & CRANE) | | | $104,457 | 41.44 | 8.35 | 13.06 | 1.82 | 0.00 | 156 |
| | P20IC004 | 640 | PILE HAMMER, DOUBLE ACTING, DIESEL, 40,000 FT-LBS, MAX STROKE 6' 8" (ADD LEADS & CRANE) | | | $111,691 | 44.78 | 8.92 | 13.96 | 1.94 | 0.00 | 187 |
| | | | **MKT MANUFACTURING, INC.** | | | | | | | | | |
| | P20MK001 | DA-15C | PILE HAMMER, DOUBLE ACTING, DIESEL, 8,200 FT-LBS, MAX STROKE 10' 6" (ADD LEADS & CRANE) | | | $62,241 | 24.45 | 4.97 | 7.78 | 1.08 | 0.00 | 60 |
| | **SUBCATEGORY 0.20** | | **PNUEMATIC (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 | | $18,556 | 7.55 | 1.55 | 2.47 | 0.31 | 0.00 | 16 |
| | 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 | | $23,478 | 9.94 | 1.97 | 3.13 | 0.40 | 0.00 | 30 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P20* | | | *MKT MANUFACTURING, INC. (continued)* | | | | | | | | | |
| | 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 | | $29,215 | 12.38 | 2.45 | 3.90 | 0.50 | 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 | | $49,072 | 19.92 | 4.10 | 6.54 | 0.83 | 0.00 | 71 |
| | 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 | | $54,668 | 23.31 | 4.58 | 7.29 | 0.93 | 0.00 | 110 |
| | 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 | | $60,076 | 25.37 | 5.03 | 8.01 | 1.02 | 0.00 | 142 |
| **P25** | **PILE HAMMERS, SINGLE ACTING** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **DIESEL** | | | | | | | | | |
| | | | **PILECO, INC.** | | | | | | | | | |
| | P25DL001 | D6-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 10,500 FT-LBS (ADD LEADS & CRANE) | | | $55,984 | 21.08 | 4.68 | 7.46 | 0.95 | 0.00 | 40 |
| | P25DL003 | D12-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 31,320 FT-LBS (ADD LEADS & CRANE) | | | $67,255 | 25.39 | 5.63 | 8.97 | 1.14 | 0.00 | 63 |
| | P25DL004 | D19-42 | PILE HAMMER, SINGLE ACTING, DIESEL, 42,800 FT-LBS (ADD LEADS & CRANE) | | | $77,048 | 29.51 | 6.45 | 10.27 | 1.31 | 0.00 | 88 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P25* | | | *PILECO, INC. (continued)* | | | | | | | | | |
| | P25DL005 | D25-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 58,248 FT-LBS (ADD LEADS & CRANE) | | | $106,132 | 40.82 | 8.88 | 14.15 | 1.80 | 0.00 | 130 |
| | P25DL006 | D30-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 69,898 FT-LBS (ADD LEADS & CRANE) | | | $110,002 | 42.87 | 9.21 | 14.67 | 1.87 | 0.00 | 141 |
| | P25DL008 | D46-32 | PILE HAMMER, SINGLE ACTING, DIESEL, 107,177 FT-LBS (ADD LEADS & CRANE) | | | $135,706 | 54.10 | 11.35 | 18.09 | 2.30 | 0.00 | 207 |
| | P25DL009 | D62-22 | PILE HAMMER, SINGLE ACTING, DIESEL, 165,000 FT-LBS (ADD LEADS & CRANE) | | | $204,018 | 79.97 | 17.06 | 27.20 | 3.46 | 0.00 | 283 |
| | P25DL010 | D80-23 | PILE HAMMER, SINGLE ACTING, DIESEL, 225,000 FT-LBS (ADD LEADS & CRANE) | | | $296,934 | 115.04 | 24.84 | 39.59 | 5.04 | 0.00 | 382 |
| | P25DL011 | D100-13 | PILE HAMMER, SINGLE ACTING, DIESEL, 300,000 FT-LBS (ADD LEADS & CRANE) | | | $317,388 | 124.04 | 26.54 | 42.32 | 5.38 | 0.00 | 459 |
| | | | **INTERNATIONAL CONSTRUCTION EQUIPMENT,INC** | | | | | | | | | |
| | P25IC001 | 30S | PILE HAMMER, SINGLE ACTING, DIESEL, 22,500 FT-LBS (ADD LEADS & CRANE) | | | $70,007 | 27.37 | 5.86 | 9.33 | 1.19 | 0.00 | 73 |
| | P25IC002 | 42S | PILE HAMMER, SINGLE ACTING, DIESEL, 42,000 FT-LBS (ADD LEADS & CRANE) | | | $78,026 | 31.50 | 6.52 | 10.40 | 1.32 | 0.00 | 91 |
| | P25IC003 | 60S | PILE HAMMER, SINGLE ACTING, DIESEL, 60,000 FT-LBS (ADD LEADS & CRANE) | | | $112,602 | 44.89 | 9.42 | 15.01 | 1.91 | 0.00 | 159 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P25* | | | *INTERNATIONAL CONSTRUCTION EQUIPMENT,INC (continued)* | | | | | | | | | |
| | P25IC004 | 80S | PILE HAMMER, SINGLE ACTING, DIESEL, 80,000 FT-LBS (ADD LEADS & CRANE) | | | $125,524 | 50.45 | 10.50 | 16.74 | 2.13 | 0.00 | 220 |
| | P25IC005 | 100S | PILE HAMMER, SINGLE ACTING, DIESEL, 100,000 FT-LBS (ADD LEADS & CRANE) | | | $155,632 | 62.22 | 13.02 | 20.75 | 2.64 | 0.00 | 220 |
| | P25IC006 | 120S | PILE HAMMER, SINGLE ACTING, DIESEL, 120,000 FT-LBS (ADD LEADS & CRANE) | | | $192,154 | 76.30 | 16.07 | 25.62 | 3.26 | 0.00 | 274 |
| | | | **MKT MANUFACTURING, INC.** | | | | | | | | | |
| | P25MK001 | DE-33/30/20C | PILE HAMMER, SINGLE ACTING, DIESEL, 33,000 FT-LBS (ADD LEADS & CRANE) | | | $68,836 | 27.26 | 5.76 | 9.18 | 1.17 | 0.00 | 81 |
| | P25MK003 | DE-70/50C | PILE HAMMER, SINGLE ACTING, DIESEL, 70,000 FT-LBS (ADD LEADS & CRANE) | | | $114,350 | 45.28 | 9.57 | 15.25 | 1.94 | 0.00 | 153 |
| | **SUBCATEGORY 0.20** | | **PNUEMATIC (STEAM/AIR)** | | | | | | | | | |
| | | | **VULCAN FOUNDATION EQUIPMENT, INC** | | | | | | | | | |
| | P25VU002 | 306 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 18,000 FT-LBS (ADD 750 CFM COMPRESSOR, LEADS & CRANE) | 750 CFM A | | $73,477 | 29.50 | 6.42 | 10.41 | 1.21 | 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 | | $90,084 | 35.61 | 7.87 | 12.76 | 1.49 | 0.00 | 127 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P25* | | | *VULCAN FOUNDATION EQUIPMENT, INC (continued)* | | | | | | | | | |
| | P25VU004 | 506 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 32,500 FT-LBS (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM A | | $92,195 | 36.38 | 8.05 | 13.06 | 1.52 | 0.00 | 140 |
| | P25VU005 | 508 | PILE HAMMER, SINGLE ACTING, PNUEMATIC (STEAM/AIR), 40,000 FT-LBS (ADD 900 CFM COMPRESSOR, LEADS & CRANE) | 900 CFM A | | $124,104 | 48.11 | 10.84 | 17.58 | 2.05 | 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 | | $127,729 | 47.89 | 11.16 | 18.09 | 2.11 | 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 | | $129,416 | 48.73 | 11.31 | 18.33 | 2.14 | 0.00 | 242 |
| **P30** | **PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY** | | | | | | | | | |
| | | | **MKT MANUFACTURING, INC.** | | | | | | | | | |
| | P30MK001 | V-5C/HP-185 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 53 TON FORCE DRIVE (ADD LEADS & CRANE) | 185 HP D-off | | $97,873 | 54.54 | 8.19 | 13.05 | 1.66 | 16.75 | 120 |
| | P30MK003 | V-20B/HP-365 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 98.5 TON FORCE DRIVE (ADD LEADS & CRANE) | 325 HP D-off | | $169,056 | 94.77 | 14.14 | 22.54 | 2.87 | 29.42 | 220 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P30* | | | *MKT MANUFACTURING, INC. (continued)* | | | | | | | | | | |
| | P30MK004 | V-35/HP-630 | PILE HAMMER, DRIVER/EXTRACTOR, VIBRATORY, 200 TON FORCE DRIVE (ADD LEADS & CRANE) | 630 HP | D-off | | $285,062 | 168.37 | 23.85 | 38.01 | 4.84 | 57.03 | 327 |
| **P35** | **PIPELAYERS** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **PIPELAYERS** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | P35CA001 | 561M | PIPELAYER, 18' BOOM, 40,000 LBS CAPACITY | 110 HP | D-off | | $228,997 | 42.75 | 10.09 | 13.09 | 3.54 | 5.46 | 358 |
| | P35CA008 | 572-R | PIPELAYER, 20' BOOM, 90,000 LBS CAPACITY | 230 HP | D-off | | $420,429 | 80.14 | 18.52 | 24.02 | 6.51 | 11.42 | 669 |
| | P35CA009 | 583-R | PIPELAYER, 20' BOOM, 140,000 LBS CAPACITY | 305 HP | D-off | | $540,637 | 103.59 | 23.82 | 30.89 | 8.37 | 15.14 | 984 |
| | P35CA006 | 589 | PIPELAYER, 28' BOOM, 230,000 LBS CAPACITY | 420 HP | D-off | | $701,662 | 135.88 | 30.91 | 40.09 | 10.86 | 20.85 | 1,450 |
| **P40** | **PLATFORMS & MAN-LIFTS** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **PLATFORMS & MAN-LIFTS** | | | | | | | | | | |
| | | | **BIL-JAX, INC.** | | | | | | | | | | |
| | P40BX001 | SKYRIDER 15 | MAN-LIFT, TELESCOPIC MAST, 14.8' HEIGHT, 500 LBS, 24 VOLT DC, RECHARGABLE BATTERIES, SELF PROPELLED, 2.2' X 4' PLATFORM | | | | $13,680 | 3.45 | 0.98 | 1.54 | 0.21 | 0.00 | 18 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **TEREX 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 | | $92,988 | 26.54 | 6.53 | 10.19 | 1.43 | 2.24 | 154 |
| | P40TE004 | TA60RT | MAN-LIFT, ARTICULATED BOOM, 66' HEIGHT, 500 LBS, 33' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFROM | 44 HP D-off | | $107,472 | 30.94 | 7.59 | 11.87 | 1.65 | 3.08 | 241 |
| | P40TE005 | TB42 | MAN-LIFT, STRAIGHT BOOM, 43' HEIGHT, 650 LBS, 37' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 66 HP D-off | | $81,821 | 26.50 | 5.73 | 8.94 | 1.26 | 4.63 | 131 |
| | P40TE006 | TB66 | MAN-LIFT, STRAIGHT BOOM, 66' HEIGHT, 650 LBS, 51' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 66 HP D-off | | $110,200 | 33.44 | 7.77 | 12.16 | 1.69 | 4.63 | 250 |
| | P40TE007 | TB85 | MAN-LIFT, STRAIGHT BOOM, 86' HEIGHT, 600 LBS, 70' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 66 HP D-off | | $183,453 | 51.62 | 13.02 | 20.40 | 2.82 | 4.63 | 373 |
| | P40TE008 | TB100 | MAN-LIFT, STRAIGHT BOOM, 92' HEIGHT, 500 LBS, 67' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 76 HP D-off | | $203,885 | 57.48 | 14.48 | 22.70 | 3.13 | 5.33 | 393 |
| | P40TE009 | TB110 | MAN-LIFT, STRAIGHT BOOM, 110' HEIGHT, 500 LBS, 74' REACH, 4X4, SELF PROPELLED, 3' X 6' PLATFORM | 76 HP D-off | | $226,969 | 63.20 | 16.14 | 25.29 | 3.49 | 5.33 | 420 |
| | P40TE010 | T-292 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 2.5' PLATFORM, 300 LBS, 34' HEIGHT, 23' RAD | 210 HP D-off | | $77,746 | 36.40 | 5.49 | 8.59 | 1.19 | 14.72 | 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 | | $85,671 | 38.67 | 6.00 | 9.36 | 1.32 | 14.72 | 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 | | $128,965 | 49.40 | 9.10 | 14.23 | 1.98 | 14.72 | 268 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P40* | | | *TEREX CORPORATION (continued)* | | | | | | | | | |
| | P40TE013 | 5FC-52 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 4' PLATFORM, 700 LBS, 57' HEIGHT, 35' RAD | 210 HP D-off | | $117,855 | 46.65 | 8.30 | 12.98 | 1.81 | 14.72 | 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 | | $120,306 | 47.26 | 8.48 | 13.26 | 1.85 | 14.72 | 248 |
| | P40TE015 | 6H-65 | MAN-LIFT, LINE-TRUCK, W/AERIAL 2' X 4' PLATFORM, 750 LBS, 70' HEIGHT, 39' RAD | 210 HP D-off | | $136,249 | 51.21 | 9.62 | 15.05 | 2.09 | 14.72 | 255 |
| P45 | PUMPS, GROUT | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **PUMPS, GROUT** | | | | | | | | | |
| | | | **AIRPLACO EQUIPMENT CO., INC.** | | | | | | | | | |
| | P45AF002 | HG-5 | PUMP, GROUT, HAND PUMP, 12 CF/HR, 0-100 PSI, W/O HOPPER (ADD HOSES) | | | $869 | 0.24 | 0.06 | 0.09 | 0.01 | 0.00 | 1 |
| | P45AF003 | HG-9 | PUMP, GROUT, HAND PUMP, 15 CF/HR, 0-100 PSI, W/5 GAL HOPPER (ADD HOSES) | | | $1,196 | 0.34 | 0.09 | 0.13 | 0.02 | 0.00 | 1 |
| | P45AF008 | HGA-530 | PUMP, GROUT, 50 CF/HR, 0-250 PSI, SKID MTD, W/5 GAL HOPPER AND 30 GAL MIXER (ADD 50 CFM COMPRESSOR & HOSE) | 5 CFM A | | $7,871 | 2.30 | 0.54 | 0.84 | 0.12 | 0.00 | 4 |
| | P45AF005 | HJ-15 SG | PUMP, GROUT, HIGH PRESSURE SINGLE CYLINDER GROUT PUMP, 110 CF/HR, 400 PSI,GROUT-MUD JACKING-SHOTCRETE, TRAILER MTD, W/30 GAL HOPPER AND 30 GAL MIXER (ADD 200 CFM COMPRESSOR & 2" HOSE) | 11 HP G | | $12,115 | 6.85 | 0.82 | 1.25 | 0.19 | 3.00 | 5 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P45* | | | *AIRPLACO EQUIPMENT CO., INC. (continued)* | | | | | | | | | |
| | P45AF009 | MP-2J6/GM-70DA | PUMP, GROUT, 160 CF/HR, 1 - 225 PSI, SKID MTD, W/15 GAL HOPPER/ & TWO 70 GAL MIXERS (ADD 350 CFM COMPRESSOR & HOSE) | 350 CFM A | | $26,254 | 7.43 | 1.82 | 2.79 | 0.42 | 0.00 | 5 |
| | P45AF006 | HJ-15 DG | PUMP, GROUT, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 180 CF/HR, 0-300 PSI, GROUT-MUD JACKING-SHOTCRETE, TRAILER MTD, W/30 GAL HOPPER AND 30 GAL MIXER (ADD 200 CFM COMPRESSOR & 2" HOSE) | 11 HP G | | $15,696 | 7.85 | 1.07 | 1.63 | 0.25 | 3.00 | 7 |
| | P45AF010 | HJ-25 | PUMP, GROUT, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 180 CF/HR, 0 - 400 PSI, GROUT-MUD JACK-PLASTER, TRAILER MTD, W/100 GAL HOPPER AND 45 GAL MIXER/ 2" HOSE | 18 HP G | | $31,072 | 14.35 | 2.13 | 3.27 | 0.49 | 4.91 | 23 |
| | P45AF011 | HJ-36 CRG | PUMP, GROUT, HIGH PRESSURE DUAL CYLINDER GROUT PUMP, 250 CF/HR, 0 - 250 PSI, GROUT-MUD JACK-SHOTCRETE, TRAILER MTD, W/120 GAL HOPPER/ 90 GAL MIXER/ 2" HOSE | 35 HP G | | $55,407 | 26.48 | 3.81 | 5.85 | 0.88 | 9.54 | 49 |
| | P45AF007 | P-280 HD | PUMP, GROUT, HIGH VOLUME DUAL CYLINDER GROUT PUMP, 756 CF/HR CONCRETE, 486 CF/HR SHOTCRETE, TRAILER MTD, W/1200 GAL HOPPER (ADD HOSE 2" - 3" DIA) | 30 HP D-off | | $34,259 | 14.03 | 2.35 | 3.61 | 0.54 | 3.94 | 25 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **ALLENTOWN 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 | | $61,525 | 24.03 | 4.22 | 6.50 | 0.97 | 6.04 | 35 |
| | | | **CHEMGROUT, INC.** | | | | | | | | | |
| | P45CG001 | CG-050 | PUMP, GROUT, MINI, AIR, 40 CF/HR, 225 PSI, PORTABLE, SKID MTD (ADD 15 CFM - 100 PSI COMPRESSOR) | 15 CFM A | | $4,183 | 1.22 | 0.29 | 0.44 | 0.07 | 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 | | $6,791 | 2.00 | 0.47 | 0.72 | 0.11 | 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 | | $15,801 | 4.56 | 1.09 | 1.68 | 0.25 | 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 | | $23,062 | 11.47 | 1.60 | 2.45 | 0.37 | 4.36 | 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 | | $28,777 | 13.07 | 1.97 | 3.02 | 0.46 | 4.36 | 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 | | $35,781 | 18.20 | 2.44 | 3.73 | 0.57 | 7.23 | 42 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *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 | | $46,384 | 25.49 | 3.16 | 4.86 | 0.73 | 11.04 | 48 |
| | P45OE004 | 5 85 | PUMP, GROUT PUMP, 2,295 CF/HR, 1100 PSI, 37 GAL HOPPER, TRAILER MTD, W/POWER UNIT | 120 HP D-off | | $55,434 | 33.39 | 3.79 | 5.82 | 0.88 | 15.77 | 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 | | $74,977 | 47.95 | 5.11 | 7.83 | 1.19 | 23.78 | 100 |
| P50 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | |
| | **SUBCATEGORY 0.11** | | **ENGINE DRIVE** | | | | | | | | | |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | P50WC001 | PT 2A | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 2" DIA, 205 GPM @ 100' HEAD (ADD HOSES) | 10 HP G | | $1,391 | 3.33 | 0.09 | 0.14 | 0.02 | 2.57 | 1 |
| | P50WC002 | PT 3A | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 3" DIA, 425 GPM @ 95' HEAD (ADD HOSES) | 15 HP D-off | | $1,646 | 2.65 | 0.11 | 0.16 | 0.03 | 1.88 | 2 |
| | P50WC003 | PTS 4V | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 4" DIA, 705 GPM @ 106' HEAD (ADD HOSES) | 16 HP D-off | | $3,812 | 3.36 | 0.25 | 0.38 | 0.06 | 2.01 | 3 |
| | P50WC004 | PT 6LT | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 6" DIA, 1,300 GPM @ 100' HEAD ,TRAILER MTD (ADD HOSES) | 33 HP D-off | | $17,751 | 9.49 | 1.17 | 1.76 | 0.29 | 4.14 | 25 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | | |
| | P50XX001 | 6" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 6" DIA, 1,165 GPM, AIR COOLED (ADD HOSES) | 60 HP D-off | | $24,845 | 15.31 | 1.65 | 2.48 | 0.41 | 7.53 | 22 |
| | P50XX002 | 8" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 8" DIA, 2,085 GPM, WATER COOLED (ADD HOSES) | 70 HP D-off | | $45,832 | 22.22 | 3.04 | 4.58 | 0.75 | 8.79 | 35 |
| | P50XX003 | 10" DIESEL | PUMP, WATER, CENTRIFUGAL, TRASH, ENGINE DRIVE, 10" DIA, 2,665 GPM, WATER COOLED (ADD HOSES) | 85 HP D-off | | $49,211 | 25.31 | 3.26 | 4.92 | 0.80 | 10.67 | 43 |
| | **SUBCATEGORY 0.31** | | **HOSES, PUMP, SUCTION & DISCHARGE** | | | | | | | | | |
| | **GORMAN-RUPP COMPANY** | | | | | | | | | | | |
| | P50GR001 | | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 2" DIA X 20' WITH COUPLING (PER SECTION) | | | $219 | 0.15 | 0.03 | 0.05 | 0.00 | 0.00 | 1 |
| | P50GR002 | | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 3" DIA X 20' WITH COUPLING (PER SECTION) | | | $372 | 0.27 | 0.05 | 0.08 | 0.01 | 0.00 | 1 |
| | P50GR003 | | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 4" DIA X 20' WITH COUPLING (PER SECTION) | | | $520 | 0.37 | 0.07 | 0.12 | 0.01 | 0.00 | 1 |
| | P50GR004 | | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 6" DIA X 20' WITH COUPLING (PER SECTION) | | | $1,155 | 0.82 | 0.15 | 0.26 | 0.02 | 0.00 | 1 |
| | P50GR005 | | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 2" DIA X 50' WITH COUPLING (PER SECTION) | | | $391 | 0.28 | 0.06 | 0.09 | 0.01 | 0.00 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *P50* | | *GORMAN-RUPP COMPANY (continued)* | | | | | | | | | |
| | P50GR006 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 3" DIA X 50' WITH COUPLING (PER SECTION) | | | $737 | 0.53 | 0.10 | 0.17 | 0.01 | 0.00 | 1 |
| | P50GR007 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 4" DIA X 50' WITH COUPLING (PER SECTION) | | | $1,220 | 0.86 | 0.16 | 0.27 | 0.02 | 0.00 | 2 |
| | P50GR008 | PUMP, WATER, CENTRIFUGAL, TRASH, HOSE, SUCTION/DISCH, 6" DIA X 50' WITH COUPLING (PER SECTION) | | | $2,579 | 1.84 | 0.34 | 0.58 | 0.05 | 0.00 | 3 |
| P55 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | **ENGINE DRIVE** | | | | | | | | | |
| | | **GRIFFIN 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 | | $21,588 | 9.03 | 1.43 | 2.16 | 0.35 | 2.64 | 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 | | $24,085 | 17.28 | 1.60 | 2.41 | 0.39 | 9.04 | 31 |
| | **SUBCATEGORY 0.02** | **ELECTRIC DRIVE** | | | | | | | | | |
| | | **GORMAN-RUPP COMPANY** | | | | | | | | | |
| | P55GR001 S2A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 138 GPM @ 20' HEAD (ADD HOSES) | 2 HP E | | $3,949 | 1.11 | 0.27 | 0.42 | 0.06 | 0.17 | 2 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P55* | | | *GORMAN-RUPP COMPANY (continued)* | | | | | | | | | |
| | P55GR002 | S3A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 3" DIA, 278 GPM @ 20' HEAD (ADD HOSES) | 5 HP E | | $4,888 | 1.74 | 0.34 | 0.52 | 0.08 | 0.44 | 3 |
| | P55GR003 | S4A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 4" DIA, 860 GPM @ 40' HEAD (ADD HOSES) | 25 HP E | | $15,600 | 6.75 | 1.08 | 1.66 | 0.25 | 2.18 | 12 |
| | P55GR004 | S6A1 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 6" DIA, 1,950 GPM @ 40' HEAD (ADD HOSES) | 60 HP E | | $23,409 | 13.16 | 1.62 | 2.49 | 0.37 | 5.24 | 14 |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | P55WC001 | PS2 500 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 66 GPM @ 39' HEAD (ADD HOSES) | 1 HP E | | $413 | 0.23 | 0.03 | 0.04 | 0.01 | 0.09 | 1 |
| | P55WC002 | PS2 750 | PUMP, WATER, SUBMERSIBLE, ELECTRIC, 2" DIA, 100 GPM @ 52' HEAD (ADD HOSES) | 1 HP E | | $559 | 0.26 | 0.04 | 0.06 | 0.01 | 0.09 | 1 |
| **P60** | **PUMPS, WATER, CENTRIFUGAL, DEWATERING** | | | | | | | | | | | |
| | **SUBCATEGORY 0.11** | | **SKID MOUNTED, ENGINE DRIVE** | | | | | | | | | |
| | | | **RIVERSIDE PUMP MANUFACTURING** | | | | | | | | | |
| | P60HO002 | S2B | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 2" DIA, 150 GPM @ 22' HEAD (ADD HOSES) | 4 HP G | | $953 | 1.29 | 0.07 | 0.10 | 0.02 | 0.90 | 1 |
| | P60HO003 | TP3B | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 3" DIA, 293 GPM @ 20' HEAD (ADD HOSES) | 8 HP G | | $1,694 | 2.81 | 0.12 | 0.17 | 0.03 | 2.05 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **WACKER CORPORATION** | | | | | | | | | | |
| | P60WC001 | PG 2A | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 2" DIA, 159 GPM @ 98' HEAD (ADD HOSES) | 4 HP | G | | $698 | 1.37 | 0.05 | 0.07 | 0.01 | 1.03 | 1 |
| | P60WC002 | PG 3A | PUMP, WATER, CENTRIFUGAL, DEWATERING, SKID MOUNTED, ENGINE DRIVE, 3" DIA, 264 GPM @ 98' HEAD (ADD HOSES) | 6 HP | G | | $919 | 2.01 | 0.06 | 0.09 | 0.01 | 1.54 | 1 |
| | **SUBCATEGORY 0.21** | | **WHEEL MOUNTED, ENGINE DRIVE** | | | | | | | | | | |
| | | | **GRIFFIN DEWATERING CORP.** | | | | | | | | | | |
| | P60GF003 | 250/4"MH | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 4" DIA, 400 GPM @ 60' HEAD (ADD HOSES) | 21 HP | D-off | | $24,393 | 9.43 | 1.60 | 2.40 | 0.40 | 2.64 | 19 |
| | P60GF008 | 400/6"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 6" DIA, 1,040 GPM @ 60' HEAD (ADD HOSES) | 72 HP | D-off | | $26,890 | 17.64 | 1.77 | 2.65 | 0.44 | 9.04 | 31 |
| | P60GF004 | 400/6"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 6" DIA, 2,000 GPM @ 60' HEAD (ADD HOSES) | 72 HP | D-off | | $26,890 | 17.64 | 1.77 | 2.65 | 0.44 | 9.04 | 31 |
| | P60GF005 | 600/8"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 8" DIA, 3,410 GPM @ 60' HEAD (ADD HOSES) | 113 HP | D-off | | $31,003 | 24.80 | 2.04 | 3.06 | 0.51 | 14.19 | 39 |
| | P60GF006 | 825/12"T | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 12" DIA, 4,410 GPM @ 60' HEAD (ADD HOSES) | 140 HP | D-off | | $47,972 | 33.19 | 3.16 | 4.76 | 0.78 | 17.58 | 39 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **GORMAN-RUPP COMPANY** | | | | | | | | | | |
| | P60GR001 | 14C2-F3L | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 4" DIA, 600 GPM @ 80' HEAD (ADD HOSES) | 47 HP | D-off | | $25,437 | 13.55 | 1.68 | 2.51 | 0.42 | 5.90 | 20 |
| | P60GR002 | 16C2-F4L | PUMP, WATER, CENTRIFUGAL, DEWATERING, WHEEL, 6" DIA, 1,825 GPM @ 40' HEAD (ADD HOSES) | 101 HP | G | | $29,622 | 37.58 | 1.95 | 2.93 | 0.48 | 25.93 | 20 |
| P65 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | |
| | **SUBCATEGORY 0.11** | | **SKID MOUNTED, ENGINE DRIVE** | | | | | | | | | | |
| | | | **RIVERSIDE PUMP MANUFACTURING** | | | | | | | | | | |
| | P65HO001 | DP2B | PUMP, WATER, DIAPHRAGM, SKID MTD, 2" DIA, 33 GPM @ 25' HEAD (ADD HOSES) | 4 HP | G | | $1,703 | 1.48 | 0.12 | 0.17 | 0.03 | 0.90 | 1 |
| | P65HO002 | DP3B | PUMP, WATER, DIAPHRAGM, SKID MTD, 3" DIA, 80 GPM @ 25' HEAD (ADD HOSES) | 4 HP | G | | $1,987 | 1.55 | 0.13 | 0.20 | 0.03 | 0.90 | 2 |
| | **SUBCATEGORY 0.21** | | **WHEEL MOUNTED, ENGINE DRIVE** | | | | | | | | | | |
| | | | **GORMAN-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 | | $4,508 | 2.60 | 0.26 | 0.37 | 0.07 | 1.28 | 2 |
| | P65GR002 | 3D-B | PUMP, WATER, DIAPHRAGM, WHEEL, 3" DIA, 560 GPM @ 25' HEAD (ADD HOSES) | 2 HP | G | | $5,302 | 1.77 | 0.32 | 0.45 | 0.09 | 0.39 | 2 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *P65* | | | *GORMAN-RUPP COMPANY (continued)* | | | | | | | | | |
| | P65GR003 | 4D-B | PUMP, WATER, DIAPHRAGM, WHEEL, 4" DIA, 74 GPM @ 25' HEAD (ADD HOSES) | 3 HP G | | $12,698 | 3.99 | 0.81 | 1.20 | 0.21 | 0.77 | 3 |
| | | | **WACKER CORPORATION** | | | | | | | | | |
| | P65WC001 | PDT 2A | PUMP, WATER, DIAPHRAGM, WHEEL, 2" DIA, 50 GPM @ 25' HEAD (ADD HOSES) | 4 HP G | | $1,792 | 1.63 | 0.12 | 0.18 | 0.03 | 1.03 | 1 |
| | P65WC002 | PDT 3A | PUMP, WATER, DIAPHRAGM, WHEEL, 3" DIA, 88 GPM @ 25' HEAD (ADD HOSES) | 4 HP G | | $1,946 | 1.65 | 0.13 | 0.19 | 0.03 | 1.03 | 2 |
| P70 | PUMPS, WATER (For core drills) | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **ENGINE DRIVE** | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | P70XX001 | 75-7.6 | PUMP, WATER, FOR CORE DRILLS, 7.6 GPM, 75 PSI, MANUAL, SKID (ADD HOSES) | 2 HP G | | $3,463 | 1.41 | 0.22 | 0.32 | 0.06 | 0.51 | 1 |
| | P70XX002 | 225-17.5 | PUMP, WATER, FOR CORE DRILLS, 17.5 GPM, 225 PSI, MANUAL, SKID (ADD HOSES) | 6 HP G | | $9,014 | 3.91 | 0.58 | 0.85 | 0.15 | 1.54 | 1 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R10 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear)** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | R10CA006 | D-5C111 | RIPPER, SHANK, EACH (ADD D-5 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $292 | 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) | | | $1,152 | 0.30 | 0.08 | 0.12 | 0.02 | 0.00 | 2 |
| | R10CA023 | D6R II - 9J-8926 | RIPPER, SHANK, EACH (ADD D-6 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $1,162 | 0.30 | 0.08 | 0.12 | 0.02 | 0.00 | 2 |
| | R10CA010 | D-7R | RIPPER, SHANK, EACH (ADD D-7 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $1,873 | 0.49 | 0.13 | 0.19 | 0.03 | 0.00 | 2 |
| | R10CA013 | D-8R | RIPPER, SHANK, EACH (ADD D-8 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $4,183 | 1.08 | 0.28 | 0.42 | 0.07 | 0.00 | 7 |
| | R10CA016 | D-9R | RIPPER, SHANK, EACH (ADD D-9 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $4,210 | 1.09 | 0.28 | 0.42 | 0.07 | 0.00 | 8 |
| | R10CA019 | D-10R | RIPPER, SHANK, EACH (ADD D-10 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $6,848 | 2.00 | 0.45 | 0.68 | 0.11 | 0.00 | 12 |
| | R10CA001 | D-3 | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-3 TRACTOR DOZER & COST FOR POINT WEAR) | | | $10,888 | 2.89 | 0.73 | 1.09 | 0.18 | 0.00 | 13 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R10* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | R10CA003 | D-4C SERIES III | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-4 TRACTOR DOZER & COST FOR POINT WEAR) | | | $10,888 | 2.89 | 0.73 | 1.09 | 0.18 | 0.00 | 13 |
| | R10CA005 | D-5C SERIES III | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-5 TRACTOR DOZER & COST FOR POINT WEAR) | | | $10,888 | 2.89 | 0.73 | 1.09 | 0.18 | 0.00 | 13 |
| | R10CA007 | D-6R II | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-6 TRACTOR DOZER & COST FOR POINT WEAR) | | | $25,103 | 6.56 | 1.67 | 2.51 | 0.41 | 0.00 | 40 |
| | R10CA009 | D-7R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-7 TRACTOR DOZER & COST FOR POINT WEAR) | | | $46,768 | 12.16 | 3.10 | 4.68 | 0.76 | 0.00 | 77 |
| | R10CA011 | D-8R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-8 TRACTOR DOZER & RIPPER & COST FOR POINT WEAR) | | | $50,898 | 13.24 | 3.38 | 5.09 | 0.83 | 0.00 | 91 |
| | R10CA012 | D-8R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-8 TRACTOR DOZER & COST FOR POINT WEAR) | | | $60,018 | 15.60 | 3.98 | 6.00 | 0.98 | 0.00 | 102 |
| | R10CA014 | D-9R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-9 TRACTOR DOZER & COST FOR POINT WEAR) | | | $65,326 | 17.03 | 4.34 | 6.53 | 1.07 | 0.00 | 102 |
| | R10CA015 | D-9R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-9 TRACTOR DOZER & COST FOR POINT WEAR) | | | $74,158 | 19.31 | 4.92 | 7.42 | 1.21 | 0.00 | 91 |
| | R10CA017 | D-10R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-10 TRACTOR DOZER & COST FOR POINT WEAR) | | | $99,563 | 25.92 | 6.60 | 9.96 | 1.62 | 0.00 | 161 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R10* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | R10CA018 | D-10R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-10 TRACTOR DOZER & COST FOR POINT WEAR) | | | $118,688 | 30.87 | 7.88 | 11.87 | 1.94 | 0.00 | 179 |
| | R10CA020 | D-11R | RIPPER, 1-SHANK & BEAM, HYDRAULIC (ADD D-11 TRACTOR DOZER & COST FOR POINT WEAR) | | | $119,241 | 31.02 | 7.91 | 11.92 | 1.95 | 0.00 | 72 |
| | R10CA021 | D-11R | RIPPER, 3-SHANKS & BEAM, HYDRAULIC (ADD D-11 TRACTOR DOZER & COST FOR POINT WEAR) | | | $123,363 | 32.10 | 8.18 | 12.34 | 2.01 | 0.00 | 103 |
| **R15** | **ROLLERS, STATIC, TOWED, PNEUMATIC** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ROLLERS, STATIC, TOWED, PNEUMATIC** | | | | | | | | | |
| | | | **SOUTHWEST CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | R15SO001 | C-50 | ROLLER, STATIC, TOWED, PNEUMATIC, 60 TON, 9.8' WIDE, 4 TIRE (ADD TOWING UNIT) | | | $139,614 | 26.17 | 7.30 | 10.15 | 2.22 | 0.00 | 309 |
| | R15SO002 | C-75 | ROLLER, STATIC, TOWED, PNEUMATIC, 75 TON, 10.5' WIDE, 4 TIRE (ADD TOWING UNIT) | | | $154,022 | 28.46 | 7.48 | 10.06 | 2.45 | 0.00 | 347 |
| | R15SO003 | C-100XL | ROLLER, STATIC, TOWED, PNEUMATIC, 100 TON, 10.5' WIDE, 4 TIRE (ADD TOWING UNIT) | | | $212,162 | 39.58 | 10.74 | 14.71 | 3.38 | 0.00 | 551 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R20** | **ROLLERS, STATIC, TOWED, STEEL DRUM** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ROLLERS, STATIC, TOWED, STEEL DRUM** | | | | | | | | | |
| | | | **REYNOLDS INTERNATIONAL, L.P.** | | | | | | | | | |
| | R20RI002 | DD-48X60 | ROLLER, STATIC, TOWED, 2 STEEL DRUMS, 10-15 TON, 48" WIDE X 60" DIA, PADFOOT (ADD TOWING UNIT) | | | $36,071 | 7.48 | 2.02 | 2.89 | 0.57 | 0.00 | 177 |
| | | | **SOUTHWEST CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | R20SO001 | 2DH-RR | ROLLER, STATIC, TOWED, 2 STEEL DRUMS, 10-20 TON, 60" WIDE X 60" DIA, SHEEPSFOOT (ADD TOWING UNIT) | | | $77,914 | 15.87 | 4.36 | 6.23 | 1.24 | 0.00 | 200 |
| **R30** | **ROLLERS, STATIC, SELF-PROPELLED** | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **PNEUMATIC** | | | | | | | | | |
| | | | **COMPACTION AMERICA (BOMAG)** | | | | | | | | | |
| | R30BO004 | BW11RH | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 13.50 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 85 HP D-off | | $89,817 | 32.43 | 5.83 | 8.81 | 1.42 | 9.43 | 100 |
| | R30BO003 | BW24R | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 30.00 TON, 78" WIDE, 8 TIRE, ASPHALT COMPACTOR | 110 HP D-off | | $148,897 | 49.42 | 9.92 | 15.12 | 2.36 | 12.21 | 290 |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | R30CA010 | PS-150B | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 14.25 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 70 HP D-off | | $85,180 | 29.05 | 5.79 | 8.88 | 1.35 | 7.77 | 85 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R30* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | R30CA011 | PS-200B | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 20.00 TON, 68" WIDE, 9 TIRE, ASPHALT COMPACTOR | 105 HP D-off | | $97,919 | 36.48 | 6.64 | 10.17 | 1.55 | 11.65 | 87 |
| | R30CA014 | PS-360B | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 27.55 TON, 90" WIDE, 7 TIRE, ASPHALT COMPACTOR | 105 HP D-off | | $165,700 | 53.79 | 11.21 | 17.17 | 2.62 | 11.65 | 352 |
| | | | **ROSCO, 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-off | | $67,354 | 26.03 | 4.52 | 6.89 | 1.07 | 8.88 | 115 |
| | | | **SAKAI AMERICA, INC.** | | | | | | | | | |
| | R30SI002 | TS200 | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 16 TON, 81" WIDE, 9 TIRE, ASPHALT COMPACTOR | 91 HP D-off | | $112,421 | 38.34 | 7.49 | 11.41 | 1.78 | 10.10 | 187 |
| | R30SI003 | TS600C | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 16 TON, 81" WIDE, 9 TIRE, ASPHALT COMPACTOR | 95 HP D-off | | $139,037 | 45.12 | 9.32 | 14.24 | 2.20 | 10.54 | 187 |
| | R30SI004 | TS650C | ROLLER, STATIC, SELF-PROPELLED, PNEUMATIC, 27 TON, 82" WIDE, 7 TIRE, ASPHALT COMPACTOR | 108 HP D-off | | $184,532 | 57.44 | 12.49 | 19.13 | 2.92 | 11.98 | 281 |
| | **SUBCATEGORY 0.02** | | **SMOOTH DRUM** | | | | | | | | | |
| | | | **COMPACTION AMERICA (BOMAG)** | | | | | | | | | |
| | R30BO005 | BW5AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 6 TON, 40" WIDE ASPHALT COMPACTOR | 47 HP D-off | | $80,551 | 22.34 | 4.67 | 6.85 | 1.24 | 5.22 | 130 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R30* | | | *COMPACTION AMERICA (BOMAG) (continued)* | | | | | | | | | |
| | R30BO006 | BW9AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 10 TON, 50" WIDE ASPHALT COMPACTOR | 83 HP D-off | | $95,712 | 29.90 | 5.54 | 8.14 | 1.47 | 9.21 | 162 |
| | R30BO007 | BW11AS | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 14 TON, 54" WIDE ASPHALT COMPACTOR | 78 HP D-off | | $113,126 | 32.84 | 6.55 | 9.62 | 1.74 | 8.65 | 215 |
| | | | **ROSCO, A LeeBoy COMPANY** | | | | | | | | | |
| | R30RS001 | 300 B | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 1.5 TON, 34" WIDE, ASPHALT COMPACTOR | 16 HP G | | $15,171 | 7.18 | 0.88 | 1.29 | 0.23 | 3.65 | 26 |
| | R30RS002 | 400 | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, DOUBLE DRUM, 2 TON, 40" WIDE, ASPHALT COMPACTOR | 40 HP D-off | | $30,154 | 11.12 | 1.74 | 2.56 | 0.46 | 4.44 | 37 |
| | | | **SAKAI AMERICA, INC.** | | | | | | | | | |
| | R30SI005 | R2H-2 | ROLLER, STATIC, SELF-PROPELLED, SMOOTH DRUM, 3 DRUMS, 14 TON, 64" WIDE, ASPHALT COMPACTOR | 75 HP D-off | | $121,006 | 34.09 | 7.01 | 10.29 | 1.86 | 8.32 | 207 |
| | **SUBCATEGORY 0.03** | | **TAMPING FOOT, LANDFILL & SOIL COMPACTORS** | | | | | | | | | |
| | | | **COMPACTION 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 | | $609,335 | 157.98 | 29.84 | 40.62 | 9.53 | 49.04 | 710 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R30* | | | *COMPACTION AMERICA (BOMAG) (continued)* | | | | | | | | | | |
| | 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 | | $643,977 | 163.86 | 31.55 | 42.93 | 10.08 | 49.04 | 812 |
| | | | **CATERPILLAR 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 | | $374,414 | 93.17 | 18.34 | 24.96 | 5.86 | 26.63 | 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 | | $379,469 | 91.56 | 18.59 | 25.30 | 5.94 | 24.41 | 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 | | $563,546 | 134.51 | 27.61 | 37.57 | 8.82 | 34.95 | 734 |
| | R30CA013 | 826-G II | 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 | | $586,491 | 138.40 | 28.73 | 39.10 | 9.18 | 34.95 | 771 |
| | R30CA009 | 836 G | ROLLER, STATIC, SELF-PROPELLED, LANDFILL/SOIL COMPACTOR, TAMPING FOOT, CHOPPER, 4X4, 50.0 TON, 18.58' WIDTH PER 2-PASS, W/BLADE | 473 HP | D-off | | $774,649 | 189.84 | 37.94 | 51.64 | 12.12 | 52.48 | 1,166 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R40** | **ROLLERS, VIBRATORY, TOWED** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ROLLERS, VIBRATORY, TOWED** | | | | | | | | | |
| | | | **COMPACTION 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 | | $82,814 | 27.71 | 5.49 | 8.28 | 1.35 | 6.28 | 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 | | $92,628 | 30.13 | 6.14 | 9.26 | 1.51 | 6.28 | 148 |
| **R45** | **ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM** | | | | | | | | | |
| | | | **COMPACTION 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 | | $55,796 | 21.30 | 3.70 | 5.58 | 0.91 | 4.14 | 57 |
| | R45BO005 | BW138AD | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 4.6 TON, 54.3" WIDE, 2X1, ASPHALT COMPACTOR | 46 HP D-off | | $68,470 | 26.95 | 4.55 | 6.85 | 1.12 | 5.78 | 92 |
| | R45BO006 | BW151AD-4 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 7.8 TON, 66.1" WIDE, 2X1, ASPHALT COMPACTOR | 108 HP D-off | | $141,743 | 57.62 | 9.40 | 14.17 | 2.31 | 13.56 | 158 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R45* | | | *COMPACTION AMERICA (BOMAG) (continued)* | | | | | | | | | |
| | R45BO007 | BW161AD-4 HF | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 10.4 TON, 66.1" WIDE, 2X1, ASPHALT COMPACTOR | 131 HP D-off | | $164,065 | 67.57 | 10.89 | 16.41 | 2.68 | 16.45 | 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 | | $171,364 | 80.46 | 11.37 | 17.14 | 2.80 | 25.74 | 252 |
| | | | **CATERPILLAR 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 | | $48,531 | 19.00 | 3.22 | 4.85 | 0.79 | 4.02 | 81 |
| | R45CA002 | CB-224D | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.7 TON, 47.2" WIDE, 2X1, ASPHALT COMPACTOR | 32 HP D-off | | $55,203 | 20.98 | 3.66 | 5.52 | 0.90 | 4.02 | 58 |
| | R45CA005 | CB-434C | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 6.6 TON, 56" WIDE, 2X1, ASPHALT COMPACTOR | 70 HP D-off | | $133,514 | 49.68 | 8.86 | 13.35 | 2.18 | 8.79 | 137 |
| | R45CA007 | CB-534C | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 10.0 TON, 67" WIDE, 2X1, ASPHALT COMPACTOR | 105 HP D-off | | $163,591 | 63.66 | 10.85 | 16.36 | 2.67 | 13.18 | 233 |
| | R45CA010 | CB-634D | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 13.2 TON, 84" WIDE, 2X1, ASPHALT COMPACTOR | 145 HP D-off | | $203,227 | 81.20 | 13.48 | 20.32 | 3.32 | 18.21 | 283 |
| | | | **ROSCO, A LeeBoy COMPANY** | | | | | | | | | |
| | R45RS001 | 300B | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 2.0 TON, 36" WIDE, ASPHALT COMPACTOR | 20 HP D-off | | $19,383 | 8.64 | 1.29 | 1.94 | 0.32 | 2.51 | 26 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SAKAI AMERICA, INC.** | | | | | | | | | |
| | R45SI008 | SW320-1 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 3.0 TON, 47" WIDE, 2X1, ASPHALT COMPACTOR | 35 HP D-off | | $37,341 | 16.12 | 2.48 | 3.73 | 0.61 | 4.39 | 28 |
| | R45SI009 | SW652 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 7.8 TON, 58" WIDE, 2X1, ASPHALT COMPACTOR | 78 HP D-off | | $102,519 | 41.65 | 6.80 | 10.25 | 1.67 | 9.79 | 157 |
| | R45SI010 | SW850-3 | ROLLER, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM, SMOOTH, 14.0 TON, 79" WIDE, 2X1, ASPHALT COMPACTOR | 127 HP D-off | | $136,532 | 58.84 | 9.06 | 13.65 | 2.23 | 15.95 | 124 |
| R50 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM** | | | | | | | | | |
| | | | **COMPACTION AMERICA (BOMAG)** | | | | | | | | | |
| | R50BO005 | BW124DH-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 2.9 TON, 47.2" WIDE, 3X2, SOIL COMPACTOR | 50 HP D-off | | $68,672 | 24.57 | 4.12 | 5.93 | 1.15 | 4.53 | 60 |
| | R50BO010 | BW124PDH-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 2.9 TON, 47.2" WIDE, 3X2, SOIL COMPACTOR | 50 HP D-off | | $70,759 | 24.76 | 4.44 | 6.50 | 1.19 | 4.53 | 60 |
| | R50BO006 | BW145D-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 5.5 TON, 56.1" WIDE, 3X2, SOIL COMPACTOR | 75 HP D-off | | $93,237 | 33.43 | 5.91 | 8.69 | 1.56 | 6.79 | 110 |
| | R50BO011 | BW145PDH-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 5.8 TON, 56.1" WIDE, 3X2, SOIL COMPACTOR | 75 HP D-off | | $100,275 | 35.36 | 6.36 | 9.35 | 1.68 | 6.79 | 118 |
| | R50BO007 | BW177D-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.9 TON, 66.4" WIDE, 3X2, SOIL COMPACTOR | 75 HP D-off | | $128,678 | 43.27 | 8.12 | 11.91 | 2.16 | 6.79 | 159 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R50* | | | *COMPACTION AMERICA (BOMAG) (continued)* | | | | | | | | | |
| | R50BO012 | BW177PDH-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 8.3 TON, 66.4" WIDE, 3X2, SOIL COMPACTOR | 101 HP D-off | | $145,048 | 50.46 | 9.15 | 13.44 | 2.43 | 9.14 | 166 |
| | R50BO008 | BW213DH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.5 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 155 HP D-off | | $170,329 | 63.40 | 10.59 | 15.46 | 2.86 | 14.03 | 269 |
| | R50BO013 | BW213PDH-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 14.1 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 131 HP D-off | | $182,596 | 64.24 | 11.37 | 16.61 | 3.06 | 11.86 | 283 |
| | R50BO009 | BW219DH-4 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 20.6 TON, 83.9" WIDE, 3X2, SOIL COMPACTOR | 195 HP D-off | | $240,812 | 86.89 | 15.08 | 22.07 | 4.04 | 17.65 | 412 |
| | | | **CATERPILLAR 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 | | $88,549 | 31.69 | 5.59 | 8.20 | 1.49 | 6.34 | 97 |
| | R50CA003 | CS-431C | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 6.9 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 97 HP D-off | | $119,478 | 43.04 | 7.52 | 11.03 | 2.00 | 8.78 | 138 |
| | R50CA005 | CS-433E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.1 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | $129,620 | 46.13 | 8.16 | 11.98 | 2.17 | 9.05 | 147 |
| | R50CA009 | CS-563E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 12.2 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 150 HP D-off | | $164,696 | 61.29 | 10.24 | 14.96 | 2.76 | 13.58 | 253 |
| | R50CA011 | CS-583E | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 16.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 150 HP D-off | | $202,454 | 71.65 | 12.65 | 18.50 | 3.40 | 13.58 | 340 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS 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 HP D-off | | $103,070 | 35.66 | 6.51 | 9.56 | 1.73 | 6.34 | 105 |
| | R50CA010 | CP-563E (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 12.5 TON, 84" WIDE, 3X2 SOIL COMPACTOR | 150 HP D-off | | $196,725 | 70.08 | 12.29 | 17.97 | 3.30 | 13.58 | 262 |
| | R50CA004 | CP-433E (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 7.1 TON, 66" WIDE, 3X2, SOIL COMPACTOR | 100 HP D-off | | $142,811 | 49.76 | 9.01 | 13.22 | 2.40 | 9.05 | 150 |
| | R50CA012 | CP-563E (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, PAD FOOT, 12.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 150 HP D-off | | $197,052 | 70.17 | 12.31 | 18.00 | 3.31 | 13.58 | 275 |
| | | **INGERSOLL RAND ROAD MACHINERY DIV** | | | | | | | | | | |
| | R50IP001 | SD-45D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.9 TON, 54" WIDE, SOIL COMPACTOR | 80 HP D-off | | $91,592 | 33.67 | 5.73 | 8.38 | 1.54 | 7.24 | 104 |
| | | **SAKAI 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 | | $58,321 | 19.02 | 3.66 | 5.35 | 0.98 | 2.53 | 25 |
| | R50SI025 | TW500 Combo | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 3.9 TON, 51" WIDE, 2X1, ASPHALT COMPACTOR | 30 HP D-off | | $72,039 | 23.01 | 4.53 | 6.64 | 1.21 | 2.72 | 36 |
| | R50SI006 | SV201D | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.8 TON, 54" WIDE, 3X2, SOIL COMPACTOR | 60 HP D-off | | $76,883 | 27.53 | 4.80 | 7.01 | 1.29 | 5.43 | 41 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R50* | | | *SAKAI AMERICA, INC. (continued)* | | | | | | | | | | |
| | R50SI007 | SV201T (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 4.9 TON, 54" WIDE, 3X2, SOIL COMPACTOR | 60 HP | D-off | | $82,326 | 29.02 | 5.14 | 7.52 | 1.38 | 5.43 | 43 |
| | R50SI022 | SV400D-2 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 7.7 TON, 67" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | | $105,985 | 39.68 | 6.66 | 9.76 | 1.78 | 9.05 | 156 |
| | R50SI026 | TW750 Combo | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 8.7 TON, 66" WIDE, 2X1, ASPHALT COMPACTOR | 104 HP | D-off | | $143,614 | 50.34 | 9.09 | 13.35 | 2.41 | 9.41 | 100 |
| | R50SI023 | SV400TB-2 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 9.6 TON, 67" WIDE, 3X2, SOIL COMPACTOR | 100 HP | D-off | | $117,696 | 42.89 | 7.40 | 10.86 | 1.97 | 9.05 | 72 |
| | R50SI013 | SV510D-3 | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.5 TON, 84" WIDE, 3X2, SOIL COMPACTOR | 148 HP | D-off | | $127,517 | 50.94 | 7.87 | 11.45 | 2.14 | 13.40 | 507 |
| | R50SI016 | SV510T-3 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 11.9 TON, 60" WIDE, 3X2, SOIL COMPACTOR | 148 HP | D-off | | $135,976 | 53.25 | 8.40 | 12.24 | 2.28 | 13.40 | 110 |
| | R50SI017 | SV510TF-3 (PADS) | ROLLER, VIBRATORY, SELF-PROPELLED, SINGLE DRUM, SMOOTH, 14.3 TON, 85" WIDE, 3X2, SOIL COMPACTOR | 148 HP | D-off | | $147,290 | 56.35 | 9.12 | 13.30 | 2.47 | 13.40 | 131 |
| **R55** | **ROOFING EQUIPMENT** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **ROOFING EQUIPMENT** | | | | | | | | | | |
| | | | **AEROIL PRODUCTS COMPANY, INC.** | | | | | | | | | | |
| | R55AE001 | EZ LOAD 270 | ROOFING EQUIPMENT, KETTLE, 270 GAL, W/PUMP, TRAILER MTD | 8 HP | G | | $8,161 | 7.45 | 0.69 | 1.11 | 0.13 | 1.37 | 20 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R55* | | | *AEROIL PRODUCTS COMPANY, INC. (continued)* | | | | | | | | | |
| | R55AE002 | EZ LOAD 410 | ROOFING EQUIPMENT, KETTLE, 410 GAL, W/PUMP, TRAILER MTD | 8 HP G | | $9,930 | 9.73 | 0.84 | 1.36 | 0.16 | 1.37 | 25 |
| | R55AE003 | EZ LOAD 680 | ROOFING EQUIPMENT, KETTLE, 680 GAL, W/PUMP, TRAILER MTD | 8 HP G | | $13,468 | 12.44 | 1.13 | 1.81 | 0.22 | 1.37 | 39 |
| | R55AE004 | EZ LOAD 1000 | ROOFING EQUIPMENT, KETTLE, 1,000 GAL, W/PUMP, TRAILER MTD | 8 HP G | | $17,853 | 14.20 | 1.47 | 2.35 | 0.29 | 1.37 | 54 |
| | R55AE008 | RHINO S PEELER | ROOFING EQUIPMENT, ROOF PEELER, 16" WIDE, WALK BEHIND, POWERED WHEEL 2X2 | 8 HP G | | $5,758 | 3.39 | 0.49 | 0.77 | 0.10 | 1.37 | 6 |
| | R55AE009 | MKI9 | ROOFING EQUIPMENT, 1-BLADE CUTTER, 3.75" DEEP, WALK BEHIND (ADD BLADE COST) | 9 HP G | | $2,087 | 2.40 | 0.18 | 0.30 | 0.03 | 1.54 | 2 |
| | R55AE010 | MK216R | ROOFING EQUIPMENT, 2-BLADE CUTTER, 20" WIDE, 3.75" DEEP, WALK BEHIND (ADD BLADE COST) | 16 HP G | | $3,824 | 4.30 | 0.33 | 0.54 | 0.06 | 2.74 | 3 |
| | R55AE011 | BUFFALO 800 | ROOFING EQUIPMENT, MATERIAL BUGGY, 36" WIDE, WALK BEHIND GRAVEL SPREADER, HOPPER 800 LBS, 8 CF, 4X2 | 5 HP G | | $3,925 | 2.19 | 0.30 | 0.47 | 0.06 | 0.86 | 4 |
| | | | **GARLOCK EQUIPMENT CO.** | | | | | | | | | |
| | R55GL017 | SUPER MINI SAW | ROOFING EQUIPMENT, 1-BLADE CUTTER, 18" HEIGHT & 2" WALL CLEARANCE | 5 HP G | | $2,130 | 1.66 | 0.19 | 0.30 | 0.04 | 0.86 | 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 | | $5,986 | 3.67 | 0.53 | 0.85 | 0.10 | 1.54 | 3 |
| | R55GL011 | ENFORCER TWIN CUTTER | ROOFING EQUIPMENT, 2-BLADE CUTTER, 30" WIDE, SELF PROPELLED (ADD BLADE COST) | 16 HP G | | $6,396 | 5.15 | 0.57 | 0.91 | 0.11 | 2.74 | 4 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *R55* | | | *GARLOCK EQUIPMENT CO. (continued)* | | | | | | | | | |
| | R55GL018 | NO.12 | ROOFING EQUIPMENT, SCRATCHER, 4.5" WIDE | 5 HP G | | $2,197 | 1.68 | 0.20 | 0.31 | 0.04 | 0.86 | 1 |
| | R55GL019 | NO. 30 | ROOFING EQUIPMENT, SCRATCHER, 13" WIDE | 8 HP G | | $4,265 | 2.91 | 0.37 | 0.60 | 0.07 | 1.37 | 3 |
| | R55GL009 | ROTARY PLANER | ROOFING EQUIPMENT, ROTARY PLANER, 12" WIDE | 11 HP G | | $2,622 | 2.86 | 0.23 | 0.37 | 0.04 | 1.80 | 2 |
| | R55GL008 | ROCK MASTER SWEEPER | ROOFING EQUIPMENT, POWER SWEEPER, 48" WIDE | 11 HP G | | $5,534 | 3.86 | 0.44 | 0.70 | 0.09 | 1.88 | 2 |
| | R55GL015 | MODEL 1000 | ROOFING EQUIPMENT, HYDRAULIC HOIST, W/175' CABLE, 1,000 LB CAP | 9 HP G | | $10,782 | 5.24 | 0.95 | 1.53 | 0.18 | 1.54 | 8 |
| | R55GL007 | SUPER MAX HYDR HOIST | ROOFING EQUIPMENT, HYDRAULIC SWING HOIST, W/275' CABLE, 1,400 LB CAP | 18 HP G | | $13,164 | 7.72 | 1.15 | 1.86 | 0.22 | 3.08 | 10 |
| | R55GL013 | MODEL 30 | ROOFING EQUIPMENT, KETTLE, 30 GAL, WHEEL MTD | | | $1,485 | 0.66 | 0.08 | 0.12 | 0.02 | 0.00 | 3 |
| | R55GL014 | MODEL 90 | ROOFING EQUIPMENT, KETTLE, 90 GAL, SKID MTD | | | $3,380 | 1.46 | 0.30 | 0.48 | 0.06 | 0.00 | 7 |
| | R55GL001 | MODEL 115 | ROOFING EQUIPMENT, KETTLE, 115 GAL, TRAILER MTD | | | $3,892 | 1.76 | 0.33 | 0.53 | 0.06 | 0.00 | 8 |
| | R55GL002 | MODEL 175 | ROOFING EQUIPMENT, KETTLE, 175 GAL, W/PUMP, TRAILER MTD | 5 HP G | | $7,610 | 3.91 | 0.65 | 1.03 | 0.13 | 0.86 | 17 |
| | R55GL012 | MODEL 300 | ROOFING EQUIPMENT, KETTLE, 300 GAL, W/PUMP, TRAILER MTD | 9 HP G | | $11,982 | 6.34 | 1.03 | 1.65 | 0.20 | 1.54 | 23 |
| | R55GL003 | MODEL 412 | ROOFING EQUIPMENT, KETTLE, 412 GAL, W/PUMP, TRAILER MTD | 9 HP G | | $15,246 | 7.38 | 1.29 | 2.08 | 0.25 | 1.54 | 30 |
| | R55GL004 | MODEL 612 | ROOFING EQUIPMENT, KETTLE, 612 GAL, W/PUMP, TRAILER MTD | 9 HP G | | $18,323 | 8.66 | 1.58 | 2.56 | 0.30 | 1.54 | 40 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S10** | **SCRAPERS, ELEVATING** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **0 THRU 200 HP** | | | | | | | | | | |
| | | | **CATERPILLAR 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 | | $286,472 | 80.28 | 15.72 | 22.31 | 4.56 | 15.84 | 336 |
| | **SUBCATEGORY 0.02** | | **OVER 200 HP** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | S10CA002 | 615-C SERIES II | SCRAPER, ELEVATING LOADING, 17 CY, 19 TON, 9.5' CUT WIDTH, 4X2 - SINGLE POWERED | 265 HP | D-off | | $440,145 | 110.37 | 18.84 | 23.51 | 7.08 | 23.99 | 526 |
| | S10CA003 | 623-G | SCRAPER, ELEVATING LOADING, 23 CY, 25 TON, 11.5' CUT WIDTH, 4X2 - SINGLE POWERED | 365 HP | D-off | | $652,410 | 153.94 | 28.54 | 36.10 | 10.49 | 33.04 | 810 |
| **S15** | **SCRAPERS, CONVENTIONAL** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **SCRAPERS, CONVENTIONAL** | | | | | | | | | | |
| | | | **CATERPILLAR 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 | | $572,705 | 122.06 | 23.42 | 29.21 | 8.81 | 30.91 | 714 |
| | S15CA002 | 631-G | SCRAPER, CONVENTIONAL, STANDARD LOADING, 34 CY, 37.5 TON, 11.5' CUT WIDTH, 4X2 - SINGLE POWERED | 450 HP | D-off | | $864,148 | 173.24 | 35.41 | 44.24 | 13.29 | 38.11 | 1,020 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S15* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | S15CA003 | 651-E | SCRAPER, CONVENTIONAL, STANDARD LOADING, 44 CY, 52 TON, 12.6' CUT WIDTH, 4X2 - SINGLE POWERED | 550 HP D-off | | $1,071,461 | 212.50 | 44.02 | 55.08 | 16.48 | 46.57 | 1,323 |
| | | | **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 | | $574,029 | 120.81 | 23.87 | 30.07 | 8.83 | 35.73 | 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 | | $594,063 | 123.52 | 24.71 | 31.14 | 9.14 | 35.73 | 953 |
| S20 | SCRAPERS, TANDEM POWERED | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **SCRAPERS, TANDEM POWERED** | | | | | | | | | |
| | | | **CATERPILLAR 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 | $650,343 | 157.21 | 26.69 | 33.35 | 10.01 | 48.62 | 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 | $682,497 | 161.69 | 28.04 | 35.07 | 10.50 | 48.62 | 824 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S20* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | 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 | $1,093,671 | 237.86 | 45.07 | 56.48 | 16.83 | 61.32 | 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 | $1,138,569 | 244.11 | 46.96 | 58.87 | 17.52 | 61.32 | 1,117 |
| | S20CA005 | 657-E | 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 | $1,294,808 | 305.53 | 52.69 | 65.53 | 19.92 | 83.22 | 1,516 |
| | S20CA006 | 657-E 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 | $1,424,504 | 310.53 | 58.88 | 73.91 | 21.92 | 83.22 | 1,550 |
| **S25** | **SCRAPERS, TRACTOR DRAWN** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **SCRAPERS, TRACTOR DRAWN** | | | | | | | | | |
| | | | **DEERE & COMPANY** | | | | | | | | | |
| | S25JD001 | 1510C | SCRAPER, TOWED, STANDARD LOADING, 11 CY, 17 TON, 10' CUT WIDTH (ADD 225 HP TRACTOR) | | | $56,008 | 11.00 | 2.60 | 3.43 | 0.88 | 0.00 | 168 |
| | S25JD002 | 1814C | SCRAPER, TOWED, STANDARD LOADING, 14 CY, 23 TON, 14' CUT WIDTH (ADD 360HP TRACTOR) | | | $70,155 | 13.61 | 3.21 | 4.22 | 1.10 | 0.00 | 213 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **REYNOLDS INTERNATIONAL, L.P.** | | | | | | | | | |
| | S25RI001 | 14CS10 | SCRAPER, TOWED, PIVOT DUMP, 10.7-14 CY, 15 TON, 10' CUT WIDTH (ADD 250 - 300 HP TRACTOR) | | | $46,216 | 8.91 | 2.21 | 2.98 | 0.72 | 0.00 | 138 |
| | S25RI002 | 17C12 (RG) | SCRAPER, TOWED, PIVOT DUMP, 13-17 CY, 17 TON, 12' CUT WIDTH (ADD 350 - 400 HP TRACTOR) | | | $52,217 | 9.98 | 2.49 | 3.33 | 0.82 | 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) | | | $97,539 | 19.56 | 4.38 | 5.69 | 1.53 | 0.00 | 203 |
| | S25RM001 | R67H | SCRAPER, TOWED, 12-17 CY, 17 TON, 9.9' CUT WIDTH (ADD 165-215 HP TRACTOR) | | | $128,960 | 24.43 | 5.92 | 7.79 | 2.02 | 0.00 | 238 |
| | S25RM002 | R89H | SCRAPER, TOWED, 18-26 CY, 25 TON, 10.8' CUT WIDTH (ADD 285-370 HP TRACTOR) | | | $190,255 | 35.75 | 8.64 | 11.31 | 2.98 | 0.00 | 382 |
| S30 | SCREENING & CRUSHING PLANTS | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **CONVEYORS** | | | | | | | | | |
| | | | **KOLBERG - PIONEER, INC** | | | | | | | | | |
| | S30KB034 | 12-3050 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 30" WIDE X 50' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 500 TPH | 15 HP E | | $56,401 | 12.38 | 3.23 | 4.77 | 0.84 | 0.95 | 15 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | |
| | S30KB035 | 12-3070 | SCREENING & CRUSHING PLANTS, FEEDER CONVEYOR, 30" WIDE X 70' LONG, 7 CY HOPPER & 6' FEED, PORTABLE, 500 TPH | 20 HP E | | $64,329 | 14.39 | 3.68 | 5.43 | 0.96 | 1.26 | 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 | | $60,462 | 13.64 | 3.46 | 5.11 | 0.90 | 1.26 | 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 | | $69,196 | 15.34 | 3.95 | 5.83 | 1.03 | 1.26 | 19 |
| | S30KB001 | 13-2480 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 80' LONG, PORTABLE, 250 TPH | 10 HP E | | $37,199 | 8.14 | 2.11 | 3.12 | 0.55 | 0.63 | 14 |
| | S30KB002 | 13-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 24" WIDE X 100' LONG, PORTABLE, 250 TPH | 15 HP E | | $48,007 | 10.75 | 2.74 | 4.04 | 0.72 | 0.95 | 18 |
| | S30KB003 | 13-3080 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 80' LONG, PORTABLE, 500 TPH | 20 HP E | | $39,475 | 9.57 | 2.29 | 3.40 | 0.59 | 1.26 | 20 |
| | S30KB004 | 13-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 30" WIDE X 100' LONG, PORTABLE, 500 TPH | 25 HP E | | $60,172 | 14.08 | 3.37 | 4.93 | 0.90 | 1.58 | 25 |
| | S30KB005 | 13-3680 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 80' LONG, PORTABLE, 750 TPH | 25 HP E | | $46,277 | 11.39 | 2.62 | 3.85 | 0.69 | 1.58 | 30 |
| | S30KB006 | 13-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, STACKING, 36" WIDE X 100' LONG, PORTABLE, 750 TPH | 30 HP E | | $68,379 | 16.14 | 3.84 | 5.64 | 1.02 | 1.89 | 38 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | |
| | S30KB007 | 31-2480 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 80' LONG, WHEEL MTD, 750 TPH | 10 HP E | | $42,834 | 9.23 | 2.46 | 3.63 | 0.64 | 0.63 | 22 |
| | S30KB008 | 31-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 100' LONG, PORTABLE, 250 TPH | 15 HP E | | $52,648 | 11.63 | 3.03 | 4.49 | 0.78 | 0.95 | 27 |
| | S30KB009 | 31-24125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 24" WIDE X 125' LONG, PORTABLE, 250 TPH | 15 HP E | | $72,882 | 15.56 | 4.13 | 6.07 | 1.09 | 0.95 | 33 |
| | S30KB010 | 31-3080 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 80' LONG, PORTABLE, 500 TPH | 20 HP E | | $45,032 | 10.65 | 2.55 | 3.76 | 0.67 | 1.26 | 32 |
| | S30KB011 | 31-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 100' LONG, PORTABLE, 550 TPH | 25 HP E | | $64,238 | 14.85 | 3.69 | 5.46 | 0.96 | 1.58 | 39 |
| | S30KB012 | 31-30125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 30" WIDE X 125' LONG, PORTABLE, 500 TPH | 25 HP E | | $77,696 | 17.47 | 4.40 | 6.47 | 1.16 | 1.58 | 47 |
| | S30KB013 | 31-3680 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 80' LONG, PORTABLE, 750 TPH | 25 HP E | | $52,212 | 12.53 | 2.97 | 4.38 | 0.78 | 1.58 | 42 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | |
| | S30KB014 | 31-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 100' LONG, PORTABLE, 750 TPH | 30 HP E | | $69,779 | 16.41 | 4.01 | 5.93 | 1.04 | 1.89 | 59 |
| | S30KB015 | 31-36125 | SCREENING & CRUSHING PLANTS, CONVEYOR, SIDE FOLDING STACKER, 36" WIDE X 125' LONG, PORTABLE, 750 TPH | 40 HP E | | $94,379 | 22.15 | 5.38 | 7.94 | 1.41 | 2.52 | 70 |
| | S30KB018 | 35-24150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 24" WIDE X 150' LONG, PORTABLE, 750 TPH | 25 HP E | | $107,429 | 23.18 | 6.27 | 9.33 | 1.60 | 1.58 | 39 |
| | S30KB021 | 35-30150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 30" WIDE X 150' LONG, PORTABLE, 1,500 TPH | 40 HP E | | $124,622 | 27.96 | 7.28 | 10.84 | 1.86 | 2.52 | 56 |
| | S30KB024 | 35-36150 | SCREENING & CRUSHING PLANTS, CONVEYOR, FIXED HEIGHT STACKER, 36" WIDE X 150' LONG, PORTABLE, 2,000 TPH | 60 HP E | | $143,017 | 33.46 | 8.36 | 12.46 | 2.13 | 3.78 | 84 |
| | S30KB025 | 36-24100 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 24" WIDE X 100' LONG, PORTABLE, 750 TPH | 20 HP E | | $76,771 | 16.77 | 4.46 | 6.63 | 1.14 | 1.26 | 52 |
| | S30KB026 | 36-24125 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 24" WIDE X 120' LONG, PORTABLE, 750 TPH | 20 HP E | | $91,180 | 19.56 | 5.31 | 7.90 | 1.36 | 1.26 | 57 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | |
| | S30KB027 | 36-24150 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 24" WIDE X 150' LONG, PORTABLE, 750 TPH | 25 HP E | | $115,152 | 24.68 | 6.74 | 10.03 | 1.72 | 1.58 | 65 |
| | S30KB028 | 36-30100 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 30" WIDE X 100' LONG, PORTABLE, 1,500 TPH | 30 HP E | | $87,349 | 19.79 | 5.08 | 7.55 | 1.30 | 1.89 | 64 |
| | S30KB029 | 36-30125 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 30" WIDE X 120' LONG, PORTABLE, 1,500 TPH | 30 HP E | | $105,054 | 23.21 | 6.13 | 9.12 | 1.57 | 1.89 | 71 |
| | S30KB030 | 36-30150 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 30" WIDE X 150' LONG, PORTABLE, 1,500 TPH | 40 HP E | | $131,812 | 29.34 | 7.71 | 11.49 | 1.96 | 2.52 | 82 |
| | S30KB031 | 36-36100 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 36" WIDE X 100' LONG, PORTABLE, 2,000 TPH | 50 HP E | | $113,437 | 26.77 | 6.63 | 9.88 | 1.69 | 3.15 | 82 |
| | S30KB032 | 36-36125 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 36" WIDE X 120' LONG, PORTABLE, 2,000 TPH | 50 HP E | | $133,657 | 30.67 | 7.82 | 11.65 | 1.99 | 3.15 | 93 |
| | S30KB033 | 36-36150 | SCREENING & CRUSHING PLANTS, CONVEYOR, ADJUSTABLE HEIGHT RADIAL STACKER, 36" WIDE X 150' LONG, PORTABLE, 2,000 TPH | 60 HP E | | $154,092 | 35.59 | 9.03 | 13.45 | 2.30 | 3.78 | 110 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | |
| | 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 | | $95,520 | 21.36 | 5.58 | 8.32 | 1.42 | 1.89 | 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 | | $97,765 | 20.35 | 5.72 | 8.52 | 1.46 | 0.95 | 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 | | $98,701 | 22.95 | 5.76 | 8.58 | 1.47 | 2.52 | 20 |
| | S30KB043 | 1936-3 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 40' LONG CONVEYOR, PORTABLE, 2,000 TPH | 15 HP E | | $141,130 | 28.71 | 8.30 | 12.40 | 2.10 | 0.95 | 20 |
| | S30KB044 | 1936-4 | SCREENING & CRUSHING PLANTS, SURGE BIN, 25CY, BELT FEEDER, & 36" WIDE X 40' LONG CONVEYOR, PORTABLE, 2,000 TPH | 15 HP E | | $173,242 | 34.90 | 10.23 | 15.29 | 2.58 | 0.95 | 20 |
| | | | **PUTZMEISTER INC.** | | | | | | | | | |
| | S30PU001 | TELEBELT TB 50 | SCREENING & CRUSHING PLANTS, CONVEYOR, 16" WIDE X 50' LONG, 1 CY HOPPER & TREMIE, 2X4, TRUCK MTD, 80 CY/HR | 215 HP D-off | | $256,201 | 71.64 | 15.22 | 22.79 | 3.82 | 19.46 | 201 |
| | S30PU002 | TELEBELT TB 80 | SCREENING & CRUSHING PLANTS, CONVEYOR, 18" WIDE X 80' LONG, 3 CY HOPPER & TREMIE, 4X6, TRUCK MTD, 360 CY/HR | 350 HP D-off | | $497,613 | 132.19 | 29.59 | 44.34 | 7.42 | 31.68 | 332 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *PUTZMEISTER INC. (continued)* | | | | | | | | | | |
| | S30PU003 | TELEBELT TB 110 | SCREENING & CRUSHING PLANTS, CONVEYOR, 18" WIDE X 106' LONG, 3 CY HOPPER & TREMIE, 4X8, TRUCK MTD, 360 CY/HR | 350 HP | D-off | | $642,209 | 160.08 | 38.23 | 57.31 | 9.57 | 31.68 | 592 |
| | | | **TELSMITH INC.** | | | | | | | | | | |
| | S30TS001 | PTC 24IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 24" WIDE X 50' LONG, WHEEL MTD, 300 TPH | 12 HP | E | | $38,889 | 8.68 | 2.24 | 3.31 | 0.58 | 0.76 | 10 |
| | S30TS002 | PTC 24IN X 70FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 24" WIDE X 70' LONG, WHEEL MTD, 300 TPH | 17 HP | E | | $52,769 | 11.86 | 3.05 | 4.52 | 0.79 | 1.07 | 13 |
| | S30TS003 | PTC 30IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 30" WIDE X 50' LONG, WHEEL MTD, 590 TPH | 17 HP | E | | $40,296 | 9.44 | 2.31 | 3.41 | 0.60 | 1.07 | 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 | | $54,589 | 12.70 | 3.13 | 4.64 | 0.81 | 1.39 | 17 |
| | S30TS005 | PTC 36IN X 50FT | SCREENING & CRUSHING PLANTS, CONVEYOR, TRUSS FRAME, 36" WIDE X 50' LONG, WHEEL MTD, 750 TPH | 22 HP | E | | $42,489 | 10.36 | 2.42 | 3.58 | 0.63 | 1.39 | 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 | | $57,494 | 13.76 | 3.30 | 4.87 | 0.86 | 1.70 | 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 | | $50,843 | 12.96 | 2.92 | 4.31 | 0.76 | 2.02 | 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 | | $85,296 | 20.58 | 4.94 | 7.33 | 1.27 | 2.65 | 25 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.20** | | **CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR** | | | | | | | | | | |
| | | | **HEWITT-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 | | $335,135 | 58.56 | 10.54 | 11.80 | 4.64 | 15.76 | 804 |
| | 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 | E | | $452,022 | 80.16 | 14.24 | 15.95 | 6.26 | 22.07 | 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 | E | | $405,730 | 85.07 | 12.79 | 14.34 | 5.62 | 28.37 | 600 |
| | | | **KOLBERG - 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 | | $578,930 | 95.47 | 18.34 | 20.63 | 8.02 | 32.59 | 548 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **TELSMITH INC.** | | | | | | | | | | |
| | S30TS009 | 4246 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 46'' X 59", 600 TPH | 300 HP | E | | $306,976 | 62.93 | 9.78 | 11.05 | 4.25 | 18.92 | 595 |
| | S30TS010 | 4856 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 56'' X 85", 1,100 TPH | 400 HP | E | | $449,206 | 87.89 | 14.31 | 16.17 | 6.22 | 25.22 | 942 |
| | S30TS011 | 6071 | SCREENING & CRUSHING PLANTS, CRUSHER - SHAFT IMPACTOR, 71'' X 100", 2,100 TPH | 800 HP | E | | $744,482 | 160.38 | 23.71 | 26.80 | 10.31 | 50.44 | 1,950 |
| | **SUBCATEGORY 0.21** | | **CRUSHERS - CONE** | | | | | | | | | | |
| | | | **KOLBERG - PIONEER, INC** | | | | | | | | | | |
| | S30KB046 | 1200 LS | SCREENING & CRUSHING PLANTS, CRUSHERS - CONE, SECONDARY, 120 TPH @ 3/8" -> 250 TPH @ 1", 42" X 50" IMPACT CRUSHER, W/HOPPER/ & 36" X 32' END DELIVERY CONVEYOR, TRAILER MTD (ADD 210KW GENERATOR) | 272 HP | E | | $401,267 | 71.26 | 12.66 | 14.20 | 5.56 | 17.15 | 810 |
| | S30KB047 | 1400 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 | | $504,264 | 86.66 | 15.98 | 17.97 | 6.99 | 19.86 | 741 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.22** | | **CRUSHERS - JAW** | | | | | | | | | | |
| | | | **HEWITT-ROBINS** | | | | | | | | | | |
| | S30HW005 | MODEL 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 | | $182,291 | 19.41 | 5.73 | 6.40 | 2.53 | 2.52 | 86 |
| | 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 | | $303,272 | 35.29 | 9.58 | 10.75 | 4.20 | 6.31 | 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 | | $329,439 | 39.88 | 10.41 | 11.69 | 4.56 | 7.88 | 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 | | $357,118 | 44.84 | 11.25 | 12.60 | 4.95 | 9.46 | 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 | | $426,504 | 55.56 | 13.44 | 15.06 | 5.91 | 12.61 | 168 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *HEWITT-ROBINS (continued)* | | | | | | | | | | |
| | 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 | | $344,126 | 41.10 | 10.88 | 12.22 | 4.77 | 7.88 | 128 |
| | 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 | | $434,829 | 56.20 | 13.71 | 15.37 | 6.02 | 12.61 | 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 | | $503,732 | 62.04 | 15.89 | 17.81 | 6.98 | 12.61 | 168 |
| | | | **KOLBERG - 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 | | $376,748 | 56.79 | 11.92 | 13.39 | 5.22 | 22.18 | 548 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | | |
| | 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 | | $404,883 | 46.57 | 12.82 | 14.42 | 5.61 | 8.20 | 391 |
| | 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 | | $386,207 | 57.57 | 12.22 | 13.73 | 5.35 | 22.18 | 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 | | $632,972 | 82.15 | 20.05 | 22.56 | 8.77 | 18.92 | 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 | | $430,344 | 61.21 | 13.62 | 15.32 | 5.96 | 22.18 | 701 |

# Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 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 | | $132,837 | 28.73 | 7.83 | 11.70 | 1.98 | 0.95 | 101 |
| | 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 | E | | $138,259 | 30.33 | 8.16 | 12.19 | 2.06 | 1.26 | 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 | E | | $146,229 | 32.46 | 8.64 | 12.91 | 2.18 | 1.58 | 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 | E | | $149,091 | 33.04 | 8.80 | 13.16 | 2.22 | 1.58 | 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 | E | | $177,922 | 40.41 | 10.42 | 15.53 | 2.65 | 2.52 | 243 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **KOLBERG - 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 | E | | $180,540 | 45.34 | 10.64 | 15.90 | 2.69 | 5.36 | 280 |
| | 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 | | $212,889 | 52.53 | 12.17 | 17.99 | 3.17 | 5.67 | 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 | | $256,375 | 76.95 | 15.18 | 22.72 | 3.82 | 15.76 | 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 | | $324,885 | 91.00 | 19.20 | 28.71 | 4.84 | 15.76 | 420 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *S30* | | | *KOLBERG - PIONEER, INC (continued)* | | | | | | | | | |
| | S30KB052 | 7208-32 S/P | SCREENING & CRUSHING PLANTS, CLASSIFYING PLANT (SAND SORT) 8'W X 32'L TANK & 44" DIA SCREW | 250 HP E | | $339,258 | 94.00 | 20.24 | 30.36 | 5.06 | 15.76 | 450 |
| | | | **METSO MINERALS** | | | | | | | | | |
| | S30RA002 | CV 50D | SCREENING & CRUSHING PLANTS, GRIZZLY-SINGLE SCREEN, 120 CY/HR, TRAILER MTD | 25 HP D-off | | $75,671 | 18.11 | 4.49 | 6.72 | 1.13 | 2.26 | 130 |
| | S30RA003 | CV 90D | SCREENING & CRUSHING PLANTS, GRIZZLY-SINGLE SCREEN, 200 CY/HR, TRAILER MTD | 49 HP D-off | | $119,610 | 29.58 | 7.07 | 10.57 | 1.78 | 4.44 | 195 |
| S35 | SNOW REMOVAL EQUIPMENT | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **SNOW REMOVAL EQUIPMENT** | | | | | | | | | |
| | | | **AMERICAN ROAD MACHINERY, INC.** | | | | | | | | | |
| | S35AR001 | 112 | SNOW REMOVAL EQUIPMENT, SNOW PLOW, REVERSIBLE (ADD DUMP TRUCK) | | | $5,153 | 1.25 | 0.34 | 0.52 | 0.08 | 0.00 | 15 |
| | S35AR002 | 713 | SNOW REMOVAL EQUIPMENT, SNOW PLOW, 1-WAY TRIP (ADD DUMP TRUCK) | | | $7,307 | 1.77 | 0.49 | 0.73 | 0.12 | 0.00 | 20 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S40 | SOIL & ROAD STABILIZERS | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **SOIL & ROAD STABILIZERS** | | | | | | | | | | |
| | | | **COMPACTION AMERICA (BOMAG)** | | | | | | | | | | |
| | S40BO002 | MPH-362 R-2 RECYCLER | SOIL & ROAD STABILIZER, 12" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP | D-off | | $411,255 | 124.44 | 22.73 | 32.37 | 6.54 | 35.74 | 390 |
| | S40BO003 | MPH-362 S-2 | SOIL & ROAD STABILIZER, 14" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP | D-off | | $402,816 | 122.75 | 22.26 | 31.70 | 6.41 | 35.74 | 390 |
| | S40BO004 | MPH-362 SDM-2 | SOIL & ROAD STABILIZER, 21" DEEP X 79" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 360 HP | D-off | | $395,371 | 121.24 | 21.84 | 31.10 | 6.29 | 35.74 | 390 |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | S40CA001 | RR-250B | SOIL & ROAD STABILIZER, 12" DEEP X 96" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 309 HP | D-off | | $374,522 | 111.43 | 20.75 | 29.57 | 5.96 | 30.68 | 370 |
| | S40CA002 | SS-250B | SOIL & ROAD STABILIZER, 18" DEEP X 96" WIDE, HYDROSTATIC RECLAIMER/ SOIL STABILIZER, 4X2 | 309 HP | D-off | | $358,837 | 107.80 | 19.74 | 28.05 | 5.71 | 30.68 | 308 |
| | S40CA003 | RM-300 | SOIL & ROAD STABILIZER, 18" DEEP X 96" WIDE, HYDROSTATIC ROAD RECLAIMER/ SOIL STABILIZER, 4X4 | 350 HP | D-off | | $301,804 | 107.31 | 15.94 | 22.27 | 4.80 | 34.75 | 518 |
| | S40CA004 | RM-500 | SOIL & ROAD STABILIZER, 16" DEEP X 96" WIDE, HYDROSTATIC ROAD RECLAIMER/ SOIL STABILIZER, 4X4 | 540 HP | D-off | | $500,440 | 166.86 | 27.27 | 38.62 | 7.96 | 53.61 | 599 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S45** | **SPLITTERS, ROCK & CONCRETE** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **SPLITTERS, ROCK & CONCRETE** | | | | | | | | | |
| | | | **ELCO INTERNATIONAL INC.** | | | | | | | | | |
| | S45DA004 | 02-2 | SPLITTER, ROCK & CONCRETE, 220 TON SFORCE, 1.75" DIA, SIZE 2, 5 GAL, 12" DEEP HOLE REQ'D (ADD 80 CFM COMPRESSOR) | 80 CFM A | | $12,566 | 4.77 | 1.05 | 1.68 | 0.21 | 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 | | $15,021 | 5.64 | 1.25 | 2.00 | 0.25 | 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 | | $15,832 | 5.94 | 1.33 | 2.11 | 0.27 | 0.00 | 1 |
| **T10** | **TRACTOR BLADES & ATTACHMENTS (including agricultural)** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **TRACTOR BLADES & ATTACHMENTS (including agricultural)** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | T10CA001 | D3-61-9722 | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D3, 1.65 CY (ADD D3 TRACTOR) | | | $14,008 | 2.83 | 0.78 | 1.12 | 0.22 | 0.00 | 22 |
| | T10CA002 | D3-PA 30B | TRACTOR ATTACHMENTS, POWER WINCH, W/250' CABLE, FOR D3 (ADD D3 TRACTOR) | | | $20,891 | 4.19 | 1.17 | 1.67 | 0.33 | 0.00 | 21 |
| | T10CA004 | D4-104-5683 | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D4, 2.17 CY (ADD D4 TRACTOR) | | | $15,502 | 3.13 | 0.87 | 1.24 | 0.25 | 0.00 | 24 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T10* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | T10CA005 | D4-PA 30B | TRACTOR ATTACHMENTS, POWER WINCH, W/250' CABLE, FOR D4 (ADD D4 TRACTOR) | | | $20,891 | 4.19 | 1.17 | 1.67 | 0.33 | 0.00 | 21 |
| | T10CA007 | D5 N - ANGLE BLADE | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D5, 2.53 CY (ADD D5 TRACTOR) | | | $23,363 | 4.68 | 1.31 | 1.87 | 0.37 | 0.00 | 26 |
| | T10CA008 | D5-PA 55 | TRACTOR ATTACHMENTS, POWER WINCH, FOR D5 (ADD D5 TRACTOR) | | | $31,135 | 6.21 | 1.75 | 2.49 | 0.50 | 0.00 | 26 |
| | T10CA009 | D6-108-3970 | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D6, 5.09 CY (ADD D6 TRACTOR) | | | $28,762 | 5.74 | 1.61 | 2.30 | 0.46 | 0.00 | 57 |
| | T10CA010 | D6-108-3982 | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D6, 4.16 CY (ADD D6 TRACTOR) | | | $31,519 | 6.28 | 1.76 | 2.52 | 0.50 | 0.00 | 69 |
| | T10CA011 | D6-PA56 WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D6 (ADD D6 TRACTOR) | | | $43,269 | 8.60 | 2.42 | 3.46 | 0.69 | 0.00 | 27 |
| | T10CA012 | D7-S | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D7, 6.75 CY (ADD D7 TRACTOR) | | | $42,294 | 8.40 | 2.36 | 3.38 | 0.67 | 0.00 | 77 |
| | T10CA013 | D7-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D7, 10.09 CY (ADD D7 TRACTOR) | | | $46,459 | 9.23 | 2.60 | 3.72 | 0.74 | 0.00 | 86 |
| | T10CA014 | D7-A | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D7, 5.08 CY (ADD D7 TRACTOR) | | | $38,715 | 7.71 | 2.17 | 3.10 | 0.62 | 0.00 | 78 |
| | T10CA015 | D7-PA57 WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D7 (ADD D7 TRACTOR) | | | $56,978 | 11.32 | 3.19 | 4.56 | 0.91 | 0.00 | 45 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T10* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | T10CA016 | D8-SU | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D8, 6.09 CY (ADD D8 TRACTOR) | | | $56,378 | 11.22 | 3.16 | 4.51 | 0.90 | 0.00 | 107 |
| | T10CA017 | D8-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D8, 15.30 CY (ADD D8 TRACTOR) | | | $61,265 | 12.18 | 3.42 | 4.90 | 0.97 | 0.00 | 124 |
| | T10CA018 | D8-A | TRACTOR ATTACHMENTS, BLADE, POWER ANGLE, HYDRAULIC, FOR D8, 6.09 CY (ADD D8 TRACTOR) | | | $54,330 | 10.82 | 3.04 | 4.35 | 0.86 | 0.00 | 123 |
| | T10CA019 | D8-PP | TRACTOR ATTACHMENTS, BLADE, PUSH PLATE, FOR D8 (ADD D8 TRACTOR) | | | $1,577 | 0.37 | 0.10 | 0.13 | 0.03 | 0.00 | 5 |
| | T10CA020 | D8, PA58VS WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D8 (ADD D8 TRACTOR) | | | $56,837 | 11.33 | 3.18 | 4.55 | 0.90 | 0.00 | 50 |
| | T10CA021 | D9-SU | TRACTOR ATTACHMENTS, BLADE, SEMI-U, HYDRAULIC, FOR D9, 17.70 CY (ADD D9 TRACTOR) | | | $76,573 | 15.27 | 4.29 | 6.13 | 1.22 | 0.00 | 143 |
| | T10CA022 | D9-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D9, 21.40 CY (ADD D9 TRACTOR) | | | $82,858 | 16.50 | 4.64 | 6.63 | 1.32 | 0.00 | 137 |
| | T10CA023 | D9, PA59VS WINCH | TRACTOR ATTACHMENTS, POWER WINCH, W/CABLE, FOR D9 (ADD D9 TRACTOR) | | | $76,610 | 15.28 | 4.29 | 6.13 | 1.22 | 0.00 | 86 |
| | T10CA024 | D10-SU ABRASION | TRACTOR ATTACHMENTS, BLADE, SEMI-U, HYDRAULIC, FOR D10, 24.20 CY (ADD D10 TRACTOR) | | | $115,136 | 22.94 | 6.44 | 9.21 | 1.83 | 0.00 | 357 |
| | T10CA025 | D10-U ABRASION | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D10, 28.70 CY (ADD D10 TRACTOR) | | | $121,616 | 24.23 | 6.81 | 9.73 | 1.94 | 0.00 | 251 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T10* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | |
| | T10CA026 | D11-SU | TRACTOR ATTACHMENTS, BLADE, STRAIGHT, HYDRAULIC, FOR D11, 35.50 CY (ADD D11 TRACTOR) | | | $165,832 | 33.04 | 9.28 | 13.27 | 2.64 | 0.00 | 367 |
| | T10CA027 | D11-U | TRACTOR ATTACHMENTS, BLADE, UNIVERSAL, HYDRAULIC, FOR D11, 45.00 CY (ADD D11 TRACTOR) | | | $178,797 | 35.60 | 9.99 | 14.30 | 2.84 | 0.00 | 423 |
| | | | **DEERE & COMPANY** | | | | | | | | | |
| | T10JD001 | 915 V-RIPPER | TRACTOR ATTACHMENTS, DEEP TILLER, 5x7 V SHAPED, 175" WIDE, 7 SHANKS (ADD 200HP TRACTOR W/PTO) | | | $13,839 | 2.99 | 0.75 | 1.06 | 0.22 | 0.00 | 17 |
| T15 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **0 THRU 225 HP** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | T15CA002 | D-3G LGP | TRACTOR, CRAWLER (DOZER), 70 HP, LOW GROUND PRESSURE, W/2.0 CY SEMI-U BLADE (ADD ATTACHMENTS) | 70 HP D-off | | $97,755 | 30.21 | 5.07 | 6.84 | 1.65 | 6.95 | 175 |
| | T15CA020 | D-4G XL | TRACTOR, CRAWLER (DOZER), 80 HP, POWERSHIFT, W/2.18 CY SEMI-U BLADE (ADD ATTACHMENTS) | 80 HP D-off | | $122,903 | 37.05 | 6.38 | 8.60 | 2.08 | 7.94 | 181 |
| | T15CA005 | D-4G LGP | TRACTOR, CRAWLER (DOZER), 80 HP, LOW GROUND PRESSURE, W/2.39 CY SEMI-U BLADE (ADD ATTACHMENTS) | 80 HP D-off | | $120,479 | 36.50 | 6.26 | 8.43 | 2.04 | 7.94 | 184 |
| | T15CA021 | D-5G XL | TRACTOR, CRAWLER (DOZER), 90 HP, POWERSHIFT, W/2.85 CY POWER ANGLE BLADE (ADD ATTACHMENTS) | 90 HP D-off | | $127,297 | 39.22 | 6.61 | 8.91 | 2.15 | 8.94 | 195 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T15* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | | |
| | T15CA022 | D-5G LGP | TRACTOR, CRAWLER (DOZER), 90 HP, LOW GROUND PRESSURE, W/3.04 CY POWER ANGLE BLADE (ADD ATTACHMENTS) | 90 HP | D-off | | $134,748 | 40.90 | 7.00 | 9.43 | 2.28 | 8.94 | 203 |
| | T15CA024 | D-5M XL | TRACTOR, CRAWLER (DOZER), 110 HP, POWERSHIFT, W/3.37 CY SEMI-U BLADE (ADD ATTACHMENTS) | 110 HP | D-off | | $172,209 | 51.67 | 8.94 | 12.05 | 2.91 | 10.92 | 277 |
| | T15CA008 | D-6N PS XL FTC | TRACTOR, CRAWLER (DOZER), 145 HP, POWERSHIFT, W/5.60 CY SEMI-U BLADE (ADD ATTACHMENTS) | 145 HP | D-off | | $239,522 | 70.95 | 12.44 | 16.77 | 4.05 | 14.40 | 321 |
| | T15CA023 | D-6R | TRACTOR, CRAWLER (DOZER), 165 HP, LOW GROUND PRESSURE, POWERSHIFT, W/5.09 CY SEMI-U BLADE (ADD ATTACHMENTS) | 165 HP | D-off | | $340,704 | 96.11 | 17.69 | 23.85 | 5.76 | 16.38 | 519 |
| | T15CA009 | D-6R WHA | TRACTOR, CRAWLER (DOZER), 165 HP, W/14.3 CY BLADE, TRASH/WASTE HANDLING ARRANGEMENT | 165 HP | D-off | | $340,704 | 96.11 | 17.69 | 23.85 | 5.76 | 16.38 | 519 |
| | T15CA011 | D-6R LGP | TRACTOR, CRAWLER (DOZER), 165 HP, LOW GROUND PRESSURE, W/5.09 CY SEMI-U BLADE (ADD ATTACHMENTS) | 185 HP | D-off | | $333,710 | 96.87 | 17.33 | 23.36 | 5.65 | 18.37 | 461 |
| | | | **CASE CORPORATION** | | | | | | | | | | |
| | T15CS004 | 550H WT | TRACTOR, CRAWLER (DOZER), 67 HP, POWERSHIFT, W/1.90 CY UNIVERSAL BLADE (ADD ATTACHMENTS) | 67 HP | D-off | | $109,543 | 32.52 | 5.69 | 7.67 | 1.85 | 6.65 | 146 |
| | T15CS007 | 1150H WT | TRACTOR, CRAWLER (DOZER), 119 HP, POWERSHIFT, W/3.90 CY UNIVERSAL BLADE (ADD ATTACHMENTS) | 119 HP | D-off | | $191,130 | 56.99 | 9.92 | 13.38 | 3.23 | 11.81 | 263 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **DEERE & COMPANY** | | | | | | | | | |
| | T15JD005 | 450H LT | TRACTOR, CRAWLER (DOZER), 70 HP, POWERSHIFT, W/2.00 CY ANGLE BLADE (ADD ATTACHMENTS) | 70 HP D-off | | $87,969 | 28.01 | 4.57 | 6.16 | 1.49 | 6.95 | 155 |
| | T15JD006 | 450H LGP | TRACTOR, CRAWLER (DOZER), 74 HP, LOW GROUND PRESSURE, W/2.15 CY ANGLE BLADE (ADD ATTACHMENTS) | 74 HP D-off | | $104,438 | 32.20 | 5.43 | 7.31 | 1.77 | 7.35 | 165 |
| | T15JD007 | 650H | TRACTOR, CRAWLER (DOZER), 90 HP, POWERSHIFT, W/2.60 CY ANGLE BLADE (ADD ATTACHMENTS) | 90 HP D-off | | $119,949 | 37.57 | 6.23 | 8.40 | 2.03 | 8.94 | 185 |
| | T15JD008 | 750C-II LT | TRACTOR, CRAWLER (DOZER), 140 HP, POWERSHIFT, W/5.60 CY ANGLE BLADE (ADD ATTACHMENTS) | 140 HP D-off | | $211,422 | 64.02 | 10.98 | 14.80 | 3.58 | 13.90 | 317 |
| | T15JD009 | 750C-II LGP | TRACTOR, CRAWLER (DOZER), 140 HP, LOW GROUND PRESSURE, W/4.84 CY ANGLE BLADE (ADD ATTACHMENTS) | 140 HP D-off | | $222,723 | 66.57 | 11.57 | 15.59 | 3.77 | 13.90 | 365 |
| | T15JD010 | 850C | TRACTOR, CRAWLER (DOZER), 185 HP, POWERSHIFT, W/7.44 CY SEMI-U BLADE (ADD ATTACHMENTS) | 185 HP D-off | | $275,408 | 83.71 | 14.30 | 19.28 | 4.66 | 18.37 | 404 |
| | T15JD011 | 850C LGP | TRACTOR, CRAWLER (DOZER), 185 HP, LOW GROUND PRESSURE, W/7.14 CY SEMI-U BLADE (ADD ATTACHMENTS) | 185 HP D-off | | $298,000 | 88.80 | 15.47 | 20.86 | 5.04 | 18.37 | 420 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.02** | | **226 HP THRU 425 HP** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | T15CA012 | D-7R SERIES II | TRACTOR, CRAWLER (DOZER), 240 HP, POWERSHIFT, W/8.98 CY SEMI-U BLADE (ADD ATTACHMENTS) | 240 HP | D-off | | $395,004 | 104.94 | 18.22 | 23.70 | 6.37 | 23.83 | 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 | | $467,980 | 119.33 | 21.59 | 28.08 | 7.55 | 23.83 | 530 |
| | T15CA016 | D-8R II | TRACTOR, CRAWLER (DOZER), 310 HP, POWERSHIFT, W/15.3 CY SEMI-U BLADE (ADD ATTACHMENTS) | 310 HP | D-off | | $515,967 | 136.69 | 23.80 | 30.96 | 8.32 | 30.78 | 898 |
| | T15CA017 | D-9R | TRACTOR, CRAWLER (DOZER), 410 HP, POWERSHIFT, W/17.7 CY SEMI-U BLADE (ADD ATTACHMENTS) | 410 HP | D-off | | $686,248 | 181.52 | 31.66 | 41.17 | 11.07 | 40.70 | 1,033 |
| | | | **Komatsu America International Company** | | | | | | | | | | |
| | T15KM008 | D155AX-5 | TRACTOR, CRAWLER (DOZER), 310 HP, POWERSHIFT, W/11.5 CY SEMI-U BLADE | 310 HP | D-off | | $590,327 | 151.35 | 27.23 | 35.42 | 9.52 | 30.78 | 803 |
| | **SUBCATEGORY 0.03** | | **OVER 425 HP** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | T15CA018 | D-10R | TRACTOR, CRAWLER (DOZER), 580 HP, POWERSHIFT, W/28.7 CY SEMI-U BLADE (ADD ATTACHMENTS) | 580 HP | D-off | | $974,840 | 218.13 | 41.00 | 51.99 | 15.00 | 49.11 | 1,421 |
| | T15CA019 | D-11R | TRACTOR, CRAWLER (DOZER), 850 HP, POWERSHIFT, W/44.0 CY SEMI-U BLADE (ADD ATTACHMENTS) | 850 HP | D-off | | $1,513,653 | 334.10 | 63.66 | 80.73 | 23.29 | 71.98 | 2,029 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **T20** | **TRACTORS, WHEEL TYPE (DOZER)** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **TRACTORS, WHEEL TYPE (DOZER)** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | T20CA001 | 814-F | TRACTOR, WHEEL (DOZER), 240 HP, ARTICULATING, 4X4, W/3.77 CY STRAIGHT BLADE | 240 HP D-off | | $360,623 | 73.64 | 16.08 | 21.39 | 5.38 | 20.32 | 479 |
| | T20CA002 | 824-G II | TRACTOR, WHEEL (DOZER), 339 HP, ARTICULATING, 4X4, W/6.70 CY STRAIGHT BLADE | 339 HP D-off | | $521,373 | 110.47 | 22.85 | 30.13 | 7.78 | 28.71 | 633 |
| | T20CA003 | 834-G | TRACTOR, WHEEL (DOZER), 481 HP, ARTICULATING, 4X4, W/10.33 CY STRAIGHT BLADE | 481 HP D-off | | $779,667 | 160.05 | 33.59 | 43.90 | 11.64 | 40.73 | 902 |
| **T25** | **TRACTORS, AGRICULTURAL** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **CRAWLER** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | T25CA006 | CH 65E | TRACTOR, AGRICULTURAL, CRAWLER-RUBBER TRACK, 267 HP, 3 POINT HITCH | 267 HP D-off | | $209,308 | 71.72 | 12.13 | 17.79 | 3.23 | 24.17 | 331 |
| | T25CA007 | CH 75E | TRACTOR, AGRICULTURAL, CRAWLER-RUBBER TRACK, 292 HP, 3 POINT HITCH | 292 HP D-off | | $229,472 | 78.56 | 13.30 | 19.51 | 3.54 | 26.43 | 341 |
| | T25CA008 | CH 85E | TRACTOR, AGRICULTURAL, CRAWLER-RUBBER TRACK, 353 HP, 3 POINT HITCH | 353 HP D-off | | $248,415 | 88.83 | 14.39 | 21.12 | 3.83 | 31.95 | 350 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.20** | | **WHEEL** | | | | | | | | | |
| | | | **DEERE & COMPANY** | | | | | | | | | |
| | T25JD015 | 5103 | TRACTOR, AGRICULTURAL, WHEEL, 45 HP, 4X2, PTO, 3 POINT HITCH | 45 HP D-off | | $18,732 | 9.13 | 1.21 | 1.81 | 0.30 | 4.07 | 39 |
| | T25JD016 | 5225 | TRACTOR, AGRICULTURAL, WHEEL, 56 HP, 4X2, PTO, 3 POINT HITCH | 56 HP D-off | | $26,956 | 12.21 | 1.77 | 2.68 | 0.43 | 5.07 | 39 |
| | T25JD017 | 5225 W/609 MOWER | TRACTOR, AGRICULTURAL, WHEEL, 56 HP, 4X2, PTO, 3 POINT HITCH, WITH 60" HEAVY DUTY ROTARY MOWER | 56 HP D-off | | $31,103 | 13.18 | 2.05 | 3.12 | 0.49 | 5.07 | 51 |
| | T25JD018 | 5325 | TRACTOR, AGRICULTURAL, WHEEL, 67 HP, 4X2, PTO, 3 POINT HITCH | 67 HP D-off | | $38,279 | 16.01 | 2.56 | 3.89 | 0.61 | 6.06 | 49 |
| | T25JD019 | 5425 | TRACTOR, AGRICULTURAL, WHEEL, 81 HP, 4X2, PTO, 3 POINT HITCH | 81 HP D-off | | $40,835 | 18.08 | 2.70 | 4.10 | 0.65 | 7.33 | 54 |
| | T25JD008 | 7230 | TRACTOR, AGRICULTURAL, WHEEL, 110 HP, 4X4, PTO, 3 POINT HITCH | 110 HP D-off | | $86,638 | 31.93 | 5.82 | 8.89 | 1.37 | 9.96 | 115 |
| | T25JD020 | 5525 | TRACTOR, AGRICULTURAL, WHEEL, 91 HP, 4X2, PTO, 3 POINT HITCH | 91 HP D-off | | $44,203 | 20.17 | 2.71 | 4.01 | 0.70 | 8.24 | 59 |
| | T25JD009 | 7630 | TRACTOR, AGRICULTURAL, WHEEL, 175 HP, 4X4, PTO, 3 POINT HITCH | 175 HP D-off | | $105,519 | 43.08 | 7.12 | 10.90 | 1.67 | 15.84 | 155 |
| | T25JD010 | 8130 | TRACTOR, AGRICULTURAL, WHEEL, 225 HP, 4X4, PTO, 3 POINT HITCH | 225 HP D-off | | $120,803 | 51.98 | 7.98 | 12.14 | 1.91 | 20.37 | 215 |
| | T25JD012 | 9230 | TRACTOR, AGRICULTURAL, WHEEL, 325 HP, 4X4, PTO, 3 POINT HITCH | 325 HP D-off | | $179,690 | 76.46 | 11.35 | 17.00 | 2.85 | 29.42 | 329 |
| | T25JD013 | 9430 | TRACTOR, AGRICULTURAL, WHEEL, 425 HP, 4X4, PTO, 3 POINT HITCH | 425 HP D-off | | $224,900 | 97.42 | 14.46 | 21.80 | 3.56 | 38.47 | 349 |
| | T25JD014 | 8330 | TRACTOR, AGRICULTURAL, WHEEL, 275 HP, 4X4, PTO, 3 POINT HITCH | 275 HP D-off | | $160,843 | 66.60 | 10.75 | 16.40 | 2.55 | 24.89 | 211 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **T30** | **TRENCHERS, CHAIN TYPE CUTTER** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **TRENCHERS, CHAIN TYPE CUTTER** | | | | | | | | | |
| | | | **DITCH WITCH(The Charles Machine Works)I** | | | | | | | | | |
| | T30DW012 | 1230 | TRENCHER, CHAIN TYPE CUTTER, 36" DEEP X 6" WIDE, WALK BEHIND | 13 HP G | | $9,396 | 5.23 | 0.61 | 0.91 | 0.15 | 2.43 | 8 |
| | T30DW013 | 1820 | TRENCHER, CHAIN TYPE CUTTER, 48" DEEP X 16" WIDE, WALK BEHIND | 18 HP G | | $13,248 | 7.32 | 0.85 | 1.26 | 0.22 | 3.37 | 13 |
| | T30DW014 | 3610 | TRENCHER, CHAIN TYPE CUTTER, 60" DEEP X 16" WIDE, 4X4 (W/BLADE) | 35 HP D-off | | $34,765 | 12.77 | 2.20 | 3.26 | 0.57 | 3.17 | 39 |
| | T30DW005 | 3700 | TRENCHER, CHAIN TYPE CUTTER, 63" DEEP X 12" WIDE, 4X4 (W/DBL PIVOT) | 44 HP D-off | | $36,919 | 14.25 | 2.39 | 3.57 | 0.60 | 3.98 | 42 |
| | T30DW016 | 5700 | TRENCHER, CHAIN TYPE CUTTER, 52" DEEP X 12" WIDE, 4X4 (W/BLADE) | 57 HP D-off | | $60,301 | 21.75 | 3.94 | 5.91 | 0.98 | 5.16 | 95 |
| | T30DW017 | RT 70 M | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 24" WIDE, 4X4 (W/BLADE) | 70 HP D-off | | $75,225 | 27.02 | 4.88 | 7.30 | 1.23 | 6.34 | 69 |
| | T30DW018 | RT 90 M | TRENCHER, CHAIN TYPE CUTTER, 96" DEEP X 24" WIDE, 4X4 (W/BLADE) | 78 HP D-off | | $84,218 | 30.20 | 5.47 | 8.20 | 1.37 | 7.06 | 77 |
| | T30DW011 | HT185 (H1812) | TRENCHER, CHAIN TYPE CUTTER, 84" DEEP X 9"-24" WIDE, CRAWLER (W/BLADE) | 185 HP D-off | | $209,063 | 74.10 | 13.87 | 20.91 | 3.41 | 16.75 | 195 |
| | | | **TESMEC USA, INC.** | | | | | | | | | |
| | T30TM001 | TRS 900-A | TRENCHER, CHAIN TYPE CUTTER, 3' DEEP X 4"-8" WIDE, CRAWLER (W/CRUMBSHOE) | 185 HP D-off | | $316,604 | 102.43 | 21.00 | 31.66 | 5.17 | 16.75 | 375 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T30* | | | *TESMEC USA, INC. (continued)* | | | | | | | | | | |
| | T30TM004 | TRS 900-A-SL | TRENCHER, CHAIN TYPE CUTTER, 3' DEEP X 4"-8" WIDE, CRAWLER (W/CRUMBSHOE) SELF LEVEL | 185 HP | D-off | | $341,844 | 109.07 | 22.67 | 34.18 | 5.58 | 16.75 | 400 |
| | T30TM009 | TRS 1000-A | TRENCHER, CHAIN TYPE CUTTER, 4' DEEP X 5"-12" WIDE, CRAWLER (W/CRUMBSHOE) | 270 HP | D-off | | $441,784 | 144.14 | 29.30 | 44.18 | 7.21 | 24.44 | 550 |
| | T30TM007 | TRS 775 | TRENCHER, CHAIN TYPE CUTTER, 4' DEEP X 12" WIDE, CRAWLER (W/CRUMBSHOE) SELF LEVEL, OFFSET | 220 HP | D-off | | $450,523 | 141.29 | 29.88 | 45.05 | 7.35 | 19.91 | 450 |
| | T30TM008 | TRS 775 | TRENCHER, CHAIN TYPE CUTTER, 6' DEEP X 18" WIDE, CRAWLER (W/CRUMBSHOE) SELF LEVEL, OFFSET | 220 HP | D-off | | $453,641 | 142.11 | 30.08 | 45.36 | 7.40 | 19.91 | 470 |
| | T30TM012 | TRS 1100 | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 26" WIDE, CRAWLER (W/CRUMBSHOE) | 385 HP | D-off | | $764,813 | 241.05 | 50.72 | 76.48 | 12.48 | 34.85 | 850 |
| | T30TM014 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 10' DEEP X 26" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | | $1,199,497 | 369.96 | 79.55 | 119.95 | 19.57 | 47.52 | 1,680 |
| | T30TM013 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 14' DEEP X 42" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | | $1,252,964 | 384.05 | 83.10 | 125.30 | 20.45 | 47.52 | 1,680 |
| | T30TM015 | TRS 1475 XHP | TRENCHER, CHAIN TYPE CUTTER, 16' DEEP X 42" WIDE, CRAWLER (W/CRUMBSHOE) | 525 HP | D-off | | $1,279,259 | 390.97 | 84.84 | 127.93 | 20.87 | 47.52 | 1,680 |
| | | | **VERMEER MANUFACTURING CO.** | | | | | | | | | | |
| | T30VE007 | T 455 | TRENCHER, CHAIN TYPE CUTTER, 6' DEEP X 8"-24" WIDE, CRAWLER, HYDROSTATIC | 125 HP | D-off | | $176,254 | 59.29 | 11.70 | 17.63 | 2.88 | 11.32 | 180 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T30* | | | *VERMEER MANUFACTURING CO. (continued)* | | | | | | | | | |
| | T30VE008 | T 555 III | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 8"-24" WIDE, CRAWLER, HYDROSTATIC | 185 HP D-off | | $223,916 | 78.00 | 14.85 | 22.39 | 3.65 | 16.75 | 225 |
| | T30VE009 | T 655 III | TRENCHER, CHAIN TYPE CUTTER, 8' DEEP X 10.5"-26" WIDE, CRAWLER, HYDROSTATIC | 250 HP D-off | | $363,344 | 121.41 | 24.10 | 36.33 | 5.93 | 22.63 | 500 |
| | T30VE010 | T 755 III | TRENCHER, CHAIN TYPE CUTTER, 10' DEEP X 14"-36" WIDE, CRAWLER, HYDROSTATIC | 275 HP D-off | | $437,596 | 143.54 | 29.02 | 43.76 | 7.14 | 24.89 | 660 |
| **T35** | **TRENCHERS, WHEEL TYPE CUTTER** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **TRENCHERS, WHEEL TYPE CUTTER** | | | | | | | | | |
| | | | **CLEVELAND TRENCHER** | | | | | | | | | |
| | T35CT001 | 9624 | TRENCHER, WHEEL TYPE CUTTER, 72" DEEP X 21.5" WIDE, ROUND BUCKET, CRAWLER | 140 HP D-off | | $237,101 | 76.85 | 15.73 | 23.71 | 3.87 | 12.67 | 170 |
| | T35CT002 | 9600-S | TRENCHER, WHEEL TYPE CUTTER, 72" DEEP X 24" WIDE, ROUND BUCKET, CRAWLER | 140 HP D-off | | $292,201 | 91.37 | 19.38 | 29.22 | 4.77 | 12.67 | 228 |
| | T35CT003 | 246-FD | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 24" WIDE, ROUND BUCKET, CRAWLER | 185 HP D-off | | $328,550 | 105.58 | 21.79 | 32.86 | 5.36 | 16.75 | 320 |
| | T35CT005 | 7036 | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-off | | $292,679 | 87.59 | 19.42 | 29.27 | 4.78 | 9.23 | 263 |
| | T35CT006 | 7036 | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-off | | $292,679 | 87.59 | 19.42 | 29.27 | 4.78 | 9.23 | 263 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T35* | | | *CLEVELAND TRENCHER (continued)* | | | | | | | | | |
| | T35CT004 | 7036-HD | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-off | | $309,493 | 92.01 | 20.53 | 30.95 | 5.05 | 9.23 | 286 |
| | T35CT007 | 7036-SD | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 102 HP D-off | | $324,152 | 95.88 | 21.50 | 32.42 | 5.29 | 9.23 | 340 |
| | T35CT008 | 8700 | TRENCHER, WHEEL TYPE CUTTER, 84" DEEP X 36" WIDE, ROUND BUCKET, CRAWLER | 150 HP D-off | | $414,929 | 124.73 | 27.52 | 41.49 | 6.77 | 13.58 | 424 |
| | T35CT009 | 7648-SD | TRENCHER, WHEEL TYPE CUTTER, 90" DEEP X 48" WIDE, ROUND BUCKET, CRAWLER | 150 HP D-off | | $482,506 | 142.53 | 32.00 | 48.25 | 7.87 | 13.58 | 445 |
| | T35CT010 | 7648 | TRENCHER, WHEEL TYPE CUTTER, 90" DEEP X 48" WIDE, ROUND BUCKET, CRAWLER | 150 HP D-off | | $472,737 | 139.95 | 31.35 | 47.27 | 7.71 | 13.58 | 445 |
| | T35CT011 | 400W-HD | TRENCHER, WHEEL TYPE CUTTER, 108" DEEP X 72" WIDE, ROUND BUCKET, CRAWLER | 175 HP D-off | | $565,462 | 166.96 | 37.51 | 56.55 | 9.23 | 15.84 | 700 |
| T40 | TRUCK OPTIONS | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING** | | | | | | | | | |
| | | | **AUTO CRANE CO.** | | | | | | | | | |
| | T40AH001 | AC8-59 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 3.5 TON, 32' BOOM (ADD 21,000 GVW TRUCK & FLATBED) | | | $27,072 | 6.80 | 1.80 | 2.71 | 0.44 | 0.00 | 2 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T40* | | | *AUTO CRANE CO. (continued)* | | | | | | | | | |
| | T40AH003 | AC15-101 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 6.6 TON, 36' BOOM (ADD 32,500 GVW TRUCK & FLATBED) | | | $40,125 | 9.95 | 2.66 | 4.01 | 0.65 | 0.00 | 3 |
| | T40AH004 | AC20-142 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 8.6 TON, 41' BOOM (ADD 46,000 GVW TRUCK & FLATBED) | | | $49,668 | 12.27 | 3.30 | 4.97 | 0.81 | 0.00 | 8 |
| | | | **PALFINGER INC.** | | | | | | | | | |
| | T40PA001 | PC 2300 | TRUCK OPTIONS, CRANE, HYDRAULIC, 2-ARM ARTICULATING, 2.4 TON, 21' BOOM (ADD 25,000 GVW TRUCK & FLATBED) | | | $8,118 | 2.20 | 0.54 | 0.81 | 0.13 | 0.00 | 9 |
| | T40PA002 | PK 12502 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 5.3 TON, 61' BOOM (ADD 28,000 GVW TRUCK & FLATBED) | | | $44,563 | 11.03 | 2.96 | 4.46 | 0.73 | 0.00 | 35 |
| | T40PA003 | PK 20002 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 8.3 TON, 70' BOOM (ADD 30,000 GVW TRUCK & FLATBED) | | | $55,415 | 13.66 | 3.67 | 5.54 | 0.90 | 0.00 | 51 |
| | T40PA004 | PK 26502 | TRUCK OPTIONS, CRANE, HYDRAULIC, 3-ARM ARTICULATING, 9.0 TON, 69' BOOM (ADD 52,000 GVW TRUCK & FLATBED) | | | $64,725 | 15.92 | 4.30 | 6.47 | 1.06 | 0.00 | 61 |
| | T40PA005 | PK 50002 | TRUCK OPTIONS, CRANE, HYDRAULIC, 2-ARM ARTICULATING, 12.5 TON, 82' BOOM (ADD 60,000 GVW TRUCK & FLATBED) | | | $119,398 | 29.16 | 7.92 | 11.94 | 1.95 | 0.00 | 1,072 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T40* | | | *PALFINGER INC. (continued)* | | | | | | | | | |
| | T40PA006 | PK 65002 | TRUCK OPTIONS, CRANE, HYDRAULIC, 2-ARM ARTICULATING, 14.9 TON, 82' BOOM (ADD 62,000 GVW TRUCK & FLATBED) | | | $126,987 | 30.99 | 8.42 | 12.70 | 2.07 | 0.00 | 126 |
| | **SUBCATEGORY 0.20** | | **DUMP BODY, REAR** | | | | | | | | | |
| | | | **GALION DUMP BODIES, INC.** | | | | | | | | | |
| | T40GN001 | PACKAGE 89-F | TRUCK OPTIONS, DUMP BODY, REAR, 16-23.5 CY (W/HOIST) (ADD 36,000 GVW TRUCK) | | | $16,228 | 3.86 | 1.17 | 1.83 | 0.25 | 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) | | | $5,463 | 1.29 | 0.39 | 0.61 | 0.08 | 0.00 | 21 |
| | T40MY003 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 8.9 CY, AIR GATE (W/HOIST) (ADD 27,000 GVW TRUCK) | | | $6,786 | 1.61 | 0.48 | 0.76 | 0.10 | 0.00 | 26 |
| | T40MY004 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 10.0 CY, AIR GATE (W/HOIST) (ADD 35,000 GVW TRUCK) | | | $7,865 | 1.86 | 0.56 | 0.88 | 0.12 | 0.00 | 31 |
| | T40MY005 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 13.6 CY, AIR GATE (W/HOIST) (ADD 35,000 GVW TRUCK) | | | $10,968 | 2.61 | 0.79 | 1.23 | 0.17 | 0.00 | 33 |
| | T40MY006 | KLEENSIDE | TRUCK OPTIONS, DUMP BODY, REAR, 20.0 CY, AIR GATE (W/HOIST) (ADD 50,000 GVW TRUCK) | | | $12,521 | 2.98 | 0.90 | 1.41 | 0.19 | 0.00 | 40 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.30** | | **FLATBEDS, WITH SIDES** | | | | | | | | | |
| | | | **KNAPHEIDE MANUFACTURING CO.** | | | | | | | | | |
| | T40KF011 | 8' X 8' | TRUCK OPTIONS, FLATBED, W/SIDE RACKS, 8' X 8' | | | $2,845 | 0.60 | 0.19 | 0.28 | 0.05 | 0.00 | 11 |
| | T40KF013 | 8' X 10' | TRUCK OPTIONS, FLATBED, W/SIDE RACKS, 8' X 10' | | | $4,216 | 0.89 | 0.28 | 0.42 | 0.07 | 0.00 | 14 |
| | T40KF014 | 8' X 12' | TRUCK OPTIONS, FLATBED, W/SIDE RACKS, 8' X 12' | | | $3,787 | 0.80 | 0.25 | 0.38 | 0.06 | 0.00 | 16 |
| | T40KF016 | 8' X 16' | TRUCK OPTIONS, FLATBED, W/SIDE RACKS, 8' X 16' | | | $5,395 | 1.14 | 0.36 | 0.54 | 0.09 | 0.00 | 16 |
| | T40KF018 | 8' X 20' | TRUCK OPTIONS, FLATBED, W/SIDE RACKS, 8' X 20' | | | $6,484 | 1.37 | 0.44 | 0.65 | 0.11 | 0.00 | 18 |
| | T40KF020 | 8' X 24' | TRUCK OPTIONS, FLATBED, W/SIDE RACKS, 8' X 24' | | | $7,525 | 1.58 | 0.50 | 0.75 | 0.12 | 0.00 | 20 |
| | **SUBCATEGORY 0.41** | | **HOIST, ELECTRIC DRIVE** | | | | | | | | | |
| | | | **KNAPHEIDE MANUFACTURING CO.** | | | | | | | | | |
| | T40KF021 | KH-1416L | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, PTO, 10' TO 14', 7-16 TON | | | $3,056 | 0.80 | 0.21 | 0.31 | 0.05 | 0.00 | 6 |
| | T40KF023 | KH-1416L-EE | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, 10' TO 14', 7-16 TON | | | $4,078 | 0.98 | 0.28 | 0.41 | 0.07 | 0.00 | 6 |
| | T40KF024 | KH-1627L-EE | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, 15' TO 20', 14-37 TON | | | $4,829 | 1.14 | 0.32 | 0.48 | 0.08 | 0.00 | 10 |
| | T40KF022 | KH-2538L | TRUCK OPTIONS, HOIST, ELECTRIC DRIVE, PTO, 20' TO 24', 20-45 TON | | | $6,099 | 1.48 | 0.41 | 0.61 | 0.10 | 0.00 | 15 |

# Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.50** | | **TRANSIT MIXERS** | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T40XX034 | RDTM-8 | TRANSIT MIXER, 8 CY, HYDROSTATIC, 100 GAL, (INCLUDES 60,000 GVW TRUCK) | 235 HP D-on | | $152,086 | 64.21 | 10.49 | 16.16 | 2.41 | 25.06 | 266 |
| | T40XX035 | RDTM-9 | TRANSIT MIXER, 9 CY, HYDROSTATIC, 100 GAL, (INCLUDES 66,000 GVW TRUCK) | 250 HP D-on | | $154,513 | 66.63 | 10.66 | 16.42 | 2.45 | 26.66 | 270 |
| | T40XX036 | RDTM-10 | TRANSIT MIXER, 10 CY, HYDROSTATIC, 100 GAL, (INCLUDES 66,000 GVW TRUCK) | 285 HP D-on | | $184,857 | 77.97 | 12.75 | 19.64 | 2.93 | 30.39 | 274 |
| | T40XX037 | RDTM-11 | TRANSIT MIXER, 11 CY, HYDROSTATIC, 100 GAL, (INCLUDES 70,000 GVW TRUCK) | 285 HP D-on | | $181,611 | 77.22 | 12.53 | 19.30 | 2.88 | 30.39 | 285 |
| | T40XX038 | RDTM-12 | TRANSIT MIXER, 12 CY, HYDROSTATIC, 100 GAL, (INCLUDES 75,000 GVW TRUCK) | 285 HP D-on | | $190,038 | 79.17 | 13.11 | 20.19 | 3.01 | 30.39 | 295 |
| | **SUBCATEGORY 0.60** | | **WATER TANKS** | | | | | | | | | |
| | | | **ROSCO, A LeeBoy COMPANY** | | | | | | | | | |
| | T40RS001 | DS 2000 | TRUCK OPTIONS, WATER TANK, 2,000 GAL (ADD 28,000 GVW TRUCK) | | | $29,881 | 6.12 | 1.90 | 2.80 | 0.50 | 0.00 | 38 |
| | T40RS002 | DS 3000 | TRUCK OPTIONS, WATER TANK, 3,000 GAL (ADD 40,000 GVW TRUCK) | | | $30,918 | 6.33 | 1.97 | 2.90 | 0.52 | 0.00 | 45 |
| | T40RS003 | DS 4000 | TRUCK OPTIONS, WATER TANK, 4,000 GAL (ADD 50,000 GVW TRUCK) | | | $33,309 | 6.82 | 2.12 | 3.12 | 0.56 | 0.00 | 55 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.70** | | **ALL OTHER OPTIONS** | | | | | | | | | |
| | | | **ARROW-MASTER, INC.** | | | | | | | | | |
| | T40AG001 | 1350 | TRUCK OPTIONS, GUILLOTINE CONCRETE BREAKER, W/8'' DIA BREAKING TOOL AND CAB | 80 HP D-off | | $87,760 | 28.25 | 5.71 | 8.55 | 1.43 | 7.24 | 96 |
| T45 | TRUCK TRAILERS | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **BOTTOM DUMP** | | | | | | | | | |
| | | | **MIDLAND MANUFACTURING INC.** | | | | | | | | | |
| | T45MY004 | 40' MC 2000 | TRUCK TRAILER, BOTTOM DUMP, 21 CY, 28 TON, 40' - 2 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | $33,143 | 7.14 | 1.79 | 2.60 | 0.49 | 0.00 | 152 |
| | T45MY005 | 40' TC 3000 | TRUCK TRAILER, BOTTOM DUMP, 21 CY, 30 TON, 40' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | $44,063 | 9.49 | 2.36 | 3.39 | 0.66 | 0.00 | 138 |
| | T45MY006 | 38' MC 3000 | TRUCK TRAILER, BOTTOM DUMP, 23 CY, 30 TON, 38' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | $45,284 | 9.73 | 2.43 | 3.50 | 0.68 | 0.00 | 145 |
| | T45MY007 | 40' MC 3000 | TRUCK TRAILER, BOTTOM DUMP, 23 CY, 30 TON, 40' - 3 AXLE, CLAMSHELL (ADD TOWING TRUCK) | | | $44,025 | 9.49 | 2.36 | 3.39 | 0.66 | 0.00 | 152 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX001 | | TRUCK TRAILER, BOTTOM DUMP, 27 TON (ADD TOWING TRUCK) | | | $40,256 | 8.54 | 2.26 | 3.32 | 0.60 | 0.00 | 122 |
| | T45XX003 | | TRUCK TRAILER, BOTTOM DUMP, 30 TON (ADD TOWING TRUCK) | | | $53,814 | 11.15 | 3.07 | 4.54 | 0.80 | 0.00 | 160 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.20** | | **END DUMP** | | | | | | | | | |
| | | | **MIDLAND MANUFACTURING INC.** | | | | | | | | | |
| | T45MY015 | 28' SK2000 | TRUCK TRAILER, END DUMP, 28 CY, 36 TON, 28' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | $34,953 | 7.40 | 1.91 | 2.77 | 0.52 | 0.00 | 115 |
| | T45MY016 | 32' ST 2400 | TRUCK TRAILER, END DUMP, 28 CY, 36 TON, 32' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | $35,754 | 7.55 | 1.95 | 2.84 | 0.53 | 0.00 | 130 |
| | T45MY017 | 39' SK 2300 | TRUCK TRAILER, END DUMP, 39 CY, 50 TON, 39' - 3 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | $39,916 | 8.57 | 2.10 | 3.02 | 0.59 | 0.00 | 170 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX008 | | TRUCK TRAILER, END DUMP, 20 CY, 24 TON (ADD TOWING TRUCK) | | | $33,910 | 7.13 | 1.89 | 2.75 | 0.51 | 0.00 | 110 |
| | **SUBCATEGORY 0.30** | | **PUP TRAILER** | | | | | | | | | |
| | | | **MIDLAND MANUFACTURING INC.** | | | | | | | | | |
| | T45MY018 | 14' SK 2100 | TRUCK TRAILER, PUP TRAILER, 10 CY, 13 TON, 14' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | $23,543 | 5.96 | 1.45 | 2.17 | 0.36 | 0.00 | 80 |
| | T45MY019 | 14' SL 2100 | TRUCK TRAILER, PUP TRAILER, 12 CY, 15 TON, 14' - 2 AXLE (W/HOIST) (ADD TOWING TRUCK) | | | $23,361 | 5.92 | 1.44 | 2.15 | 0.36 | 0.00 | 80 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX009 | | TRUCK TRAILER, PUP TRAILER, 8 CY, LONG TONGUE (ADD TOWING TRUCK) | | | $34,188 | 8.27 | 2.26 | 3.46 | 0.53 | 0.00 | 86 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T45* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | |
| | T45XX010 | | TRUCK TRAILER, PUP TRAILER, 10 CY, LONG TONGUE (ADD TOWING TRUCK) | | | $34,301 | 8.31 | 2.27 | 3.48 | 0.53 | 0.00 | 86 |
| | T45XX032 | | TRUCK TRAILER, PUP TRAILER, 13 CY, 14.5 TON, 3 AXLE (ADD TOWING TRUCK) | | | $42,813 | 10.21 | 2.93 | 4.53 | 0.66 | 0.00 | 92 |
| | T45XX033 | | TRUCK TRAILER, PUP TRAILER, 16 CY, 18.0 TON, 4 AXLE (ADD TOWING TRUCK) | | | $50,353 | 12.06 | 3.41 | 5.28 | 0.77 | 0.00 | 100 |
| | **SUBCATEGORY 0.41** | | **LOWBOY, RIGID NECK, DROP DECK** | | | | | | | | | |
| | | | **EAGER BEAVER** | | | | | | | | | |
| | T45EA006 | 35GSL-BR | TRUCK TRAILER, LOWBOY, 35 TON, 2 AXLE, DETATCHABLE GOOSENECK (ADD TOWING TRUCK) | | | $45,585 | 8.92 | 2.47 | 3.57 | 0.68 | 0.00 | 150 |
| | T45EA007 | 50GSL/3 | TRUCK TRAILER, LOWBOY, 50 TON, 3 AXLE , DETATCHABLE GOOSENECK (ADD TOWING TRUCK) | | | $67,600 | 13.01 | 3.66 | 5.29 | 1.01 | 0.00 | 205 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX011 | | TRUCK TRAILER, LOWBOY, 25 TON, 2 AXLE (ADD TOWING TRUCK) | | | $33,967 | 6.49 | 1.90 | 2.78 | 0.51 | 0.00 | 95 |
| | T45XX012 | | TRUCK TRAILER, LOWBOY, 30 TON, 2 AXLE (ADD TOWING TRUCK) | | | $36,235 | 6.87 | 2.04 | 2.99 | 0.54 | 0.00 | 115 |
| | T45XX013 | | TRUCK TRAILER, LOWBOY, 35 TON, 2 AXLE (ADD TOWING TRUCK) | | | $37,886 | 7.20 | 2.11 | 3.10 | 0.56 | 0.00 | 110 |
| | T45XX014 | | TRUCK TRAILER, LOWBOY, 35 TON, 3 AXLE (ADD TOWING TRUCK) | | | $46,182 | 8.84 | 2.57 | 3.75 | 0.69 | 0.00 | 127 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *T45* | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | |
| | T45XX015 | TRUCK TRAILER, LOWBOY, 40 TON, 3 AXLE (ADD TOWING TRUCK) | | | $47,347 | 9.04 | 2.64 | 3.85 | 0.71 | 0.00 | 136 |
| | T45XX016 | TRUCK TRAILER, LOWBOY, 50 TON, 3 AXLE (ADD TOWING TRUCK) | | | $52,891 | 10.04 | 2.94 | 4.30 | 0.79 | 0.00 | 145 |
| | T45XX017 | TRUCK TRAILER, LOWBOY, 60 TON, 3 AXLE (ADD TOWING TRUCK) | | | $56,465 | 10.75 | 3.12 | 4.55 | 0.84 | 0.00 | 175 |
| | T45XX018 | TRUCK TRAILER, LOWBOY, 70 TON, 3 AXLE (ADD TOWING TRUCK) | | | $57,374 | 10.91 | 3.18 | 4.63 | 0.86 | 0.00 | 213 |
| | T45XX019 | TRUCK TRAILER, LOWBOY, 75 TON, 3 AXLE (ADD TOWING TRUCK) | | | $65,285 | 12.22 | 3.64 | 5.34 | 0.97 | 0.00 | 220 |
| | T45XX020 | TRUCK TRAILER, LOWBOY, 80 TON, 4 AXLE (ADD TOWING TRUCK) | | | $64,018 | 12.23 | 3.53 | 5.15 | 0.95 | 0.00 | 268 |
| | T45XX021 | TRUCK TRAILER, LOWBOY, 90 TON, 4 AXLE (ADD TOWING TRUCK) | | | $69,545 | 13.16 | 3.87 | 5.65 | 1.04 | 0.00 | 293 |
| | T45XX022 | TRUCK TRAILER, LOWBOY, 100 TON, 4 AXLE (ADD TOWING TRUCK) | | | $77,962 | 14.72 | 4.32 | 6.31 | 1.16 | 0.00 | 312 |
| | T45XX023 | TRUCK TRAILER, LOWBOY, 120 TON, 4 AXLE (ADD TOWING TRUCK) | | | $93,040 | 17.48 | 5.15 | 7.51 | 1.39 | 0.00 | 350 |
| | **SUBCATEGORY 0.50** | **FLATBED TRAILER** | | | | | | | | | |
| | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX025 | TRUCK TRAILER, FLATBED, 25 TON, 2 AXLE (ADD TOWING TRUCK) | | | $32,415 | 5.98 | 1.79 | 2.61 | 0.48 | 0.00 | 110 |
| | T45XX034 32 | TRUCK TRAILER, FLATBED, 40 TON, 2 AXLE (ADD TOWING TRUCK) | | | $31,791 | 6.18 | 1.75 | 2.56 | 0.47 | 0.00 | 103 |
| | T45XX035 40 | TRUCK TRAILER, FLATBED, 40 TON, 2 AXLE (ADD TOWING TRUCK) | | | $33,795 | 6.52 | 1.87 | 2.74 | 0.50 | 0.00 | 110 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.60** | **MISCELLANEOUS / UTILITY** | | | | | | | | | |
| | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX026 | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 12 TON, 2 AXLE (ADD TOWING TRUCK) | | | $18,331 | 3.72 | 1.01 | 1.48 | 0.27 | 0.00 | 62 |
| | T45XX027 | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 16 TON, 2 AXLE (ADD TOWING TRUCK) | | | $20,670 | 4.19 | 1.13 | 1.64 | 0.31 | 0.00 | 65 |
| | T45XX028 | TRUCK TRAILER, MISCELLANEOUS/UTILITY, TILT BED, 20 TON, 2 AXLE (ADD TOWING TRUCK) | | | $23,727 | 4.79 | 1.28 | 1.85 | 0.35 | 0.00 | 67 |
| | T45XX024 | TRUCK TRAILER, MISCELLANEOUS/UTILITY, ATTACHMENT, HELPER DOLLY, 60 TON TRAILER MAX (ADD TOWING TRUCK) | | | $29,528 | 5.49 | 1.62 | 2.35 | 0.44 | 0.00 | 62 |
| | **SUBCATEGORY 0.70** | **WATER TANKER TRAILER** | | | | | | | | | |
| | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | T45XX029 | TRUCK TRAILER, WATER TANKER, 4,000 GAL, W/PUMP (ADD TOWING TRUCK) | 63 HP D-off | | $83,394 | 20.47 | 4.42 | 6.10 | 1.37 | 5.70 | 170 |
| | T45XX030 | TRUCK TRAILER, WATER TANKER, 5,000 GAL, W/PUMP (ADD TOWING TRUCK) | 63 HP D-off | | $83,994 | 20.78 | 4.38 | 5.99 | 1.38 | 5.70 | 240 |
| | T45XX031 | TRUCK TRAILER, WATER TANKER, 6,000 GAL, W/PUMP (ADD TOWING TRUCK) | 63 HP D-off | | $101,371 | 23.68 | 5.31 | 7.30 | 1.66 | 5.70 | 250 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T50 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | |
| | **SUBCATEGORY 0.01** | | **0 THRU 10,000 GVW** | | | | | | | | | | |
| | | | **GMC AND CHEVROLET** | | | | | | | | | | |
| | T50GM001 | S10 | TRUCK, HIGHWAY, 3,500 GVW, 4X2 (COMPACT) | 120 HP | G | | $16,742 | 9.92 | 1.07 | 1.60 | 0.27 | 5.33 | 26 |
| | T50GM004 | R26 | TRUCK, HIGHWAY, 8,600 GVW, 4X2 (SUBURBAN) | 285 HP | G | | $37,156 | 22.87 | 2.43 | 3.64 | 0.61 | 12.65 | 50 |
| | T50GM005 | V26 | TRUCK, HIGHWAY, 8,600 GVW, 4X4 (SUBURBAN) | 285 HP | G | | $39,926 | 23.50 | 2.61 | 3.92 | 0.65 | 12.65 | 52 |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | T50XX001 | 4X2 1/2 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X2 | 130 HP | G | | $16,471 | 10.41 | 1.04 | 1.54 | 0.27 | 5.77 | 45 |
| | T50XX002 | 4X2 3/4 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X2 | 130 HP | G | | $19,516 | 11.07 | 1.26 | 1.87 | 0.32 | 5.77 | 40 |
| | T50XX003 | 4X2 1 180 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X2 | 180 HP | G | | $22,137 | 14.19 | 1.43 | 2.14 | 0.36 | 7.99 | 41 |
| | T50XX004 | 4X4 1/2 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X4 | 130 HP | G | | $19,646 | 11.15 | 1.25 | 1.86 | 0.32 | 5.77 | 43 |
| | T50XX005 | 4X4 3/4 130 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X4 | 130 HP | G | | $22,989 | 11.88 | 1.49 | 2.22 | 0.38 | 5.77 | 45 |
| | T50XX006 | 4X4 1 180 CONV GAS | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X4 | 180 HP | G | | $23,687 | 14.55 | 1.54 | 2.29 | 0.39 | 7.99 | 41 |
| | T50XX007 | 4X2 1/2 130 CREW GAS | TRUCK, HIGHWAY, CREW, 1/2 TON PICKUP, 4X2 | 130 HP | G | | $17,355 | 10.60 | 1.10 | 1.63 | 0.28 | 5.77 | 45 |
| | T50XX008 | 4X2 3/4 130 CREW GAS | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X2 | 130 HP | G | | $20,779 | 11.36 | 1.34 | 2.00 | 0.34 | 5.77 | 47 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T50* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | | |
| | T50XX009 | 4X2 1 180 CREW GAS | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X2 | 180 HP | G | | $25,329 | 14.92 | 1.64 | 2.46 | 0.41 | 7.99 | 45 |
| | T50XX010 | 4X4 1/2 130 CREW GAS | TRUCK, HIGHWAY, CREW, 1/2 TON PICKUP, 4X4 | 130 HP | G | | $23,285 | 11.97 | 1.49 | 2.22 | 0.38 | 5.77 | 48 |
| | T50XX011 | 4X4 3/4 180 CREW GAS | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X4 | 180 HP | G | | $25,058 | 14.87 | 1.63 | 2.43 | 0.41 | 7.99 | 55 |
| | T50XX012 | 4X4 1 180 CREW GAS | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X4 | 180 HP | G | | $26,049 | 15.09 | 1.70 | 2.53 | 0.43 | 7.99 | 45 |
| | T50XX013 | 4X2 1/2 75 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X2 | 75 HP | D-on | | $21,067 | 6.91 | 1.34 | 2.00 | 0.34 | 1.81 | 39 |
| | T50XX014 | 4X2 3/4 75 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X2 | 75 HP | D-on | | $23,308 | 7.40 | 1.51 | 2.25 | 0.38 | 1.81 | 40 |
| | T50XX015 | 4X2 1 130 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X2 | 130 HP | D-on | | $26,818 | 9.67 | 1.74 | 2.60 | 0.44 | 3.13 | 43 |
| | T50XX016 | 4X4 1/2 130 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 1/2 TON PICKUP, 4X4 | 130 HP | D-on | | $25,044 | 9.31 | 1.61 | 2.40 | 0.41 | 3.13 | 43 |
| | T50XX017 | 4X4 3/4 130 CONV DSL | TRUCK, HIGHWAY, CONVENTIONAL, 3/4 TON PICKUP, 4X4 | 130 HP | D-on | | $25,307 | 9.33 | 1.64 | 2.45 | 0.41 | 3.13 | 45 |
| | T50XX018 | CONV DSL 4X4 1 130 | TRUCK, HIGHWAY, CONVENTIONAL, 1 TON PICKUP, 4X4 | 130 HP | D-on | | $30,199 | 10.43 | 1.96 | 2.94 | 0.49 | 3.13 | 49 |
| | T50XX019 | 4X2 3/4 130 CREW DSL | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP, 4X2 | 130 HP | D-on | | $24,256 | 9.10 | 1.58 | 2.35 | 0.40 | 3.13 | 47 |
| | T50XX020 | 4X4 3/4 130 CREW DSL | TRUCK, HIGHWAY, CREW, 3/4 TON PICKUP 4X4 | 130 HP | D-on | | $29,304 | 10.24 | 1.91 | 2.85 | 0.48 | 3.13 | 55 |
| | T50XX021 | 4X2 1 130 CREW DSL | TRUCK, HIGHWAY, CREW, 1 TON PICKUP, 4X2 | 130 HP | D-on | | $26,574 | 9.61 | 1.72 | 2.58 | 0.43 | 3.13 | 48 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.02** | | **OVER 10,000 THRU 30,000 GVW (Chassis only - Add options)** | | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | T50XX023 | 4X2 20KGVW GAS | TRUCK, HIGHWAY, 20,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 210 HP | G | | $41,675 | 31.99 | 2.26 | 3.20 | 0.66 | 21.30 | 70 |
| | T50XX024 | 4X2 25KGVW GAS | TRUCK, HIGHWAY, 25,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 210 HP | G | | $36,407 | 31.06 | 1.97 | 2.78 | 0.58 | 21.30 | 72 |
| | T50XX022 | 4X2 25KGVW DSL | TRUCK, HIGHWAY, 25,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 180 HP | D-on | | $52,876 | 21.45 | 2.89 | 4.09 | 0.84 | 10.53 | 88 |
| | T50XX025 | 4X4 30KGVW DSL | TRUCK, HIGHWAY, 30,000 LBS GVW, 2 AXLE, 4X4 (CHASSIS ONLY-ADD OPTIONS) | 170 HP | D-on | | $69,398 | 23.88 | 3.77 | 5.34 | 1.10 | 9.94 | 97 |
| | T50XX026 | 4X2 30KGVW DSL | TRUCK, HIGHWAY, 30,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 210 HP | D-on | | $70,634 | 26.70 | 3.84 | 5.44 | 1.12 | 12.28 | 105 |
| | 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 | | $97,901 | 31.56 | 5.37 | 7.62 | 1.56 | 12.28 | 135 |
| | **SUBCATEGORY 0.03** | | **OVER 30,000 GVW (Chassis only - Add options)** | | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | T50XX027 | 4X2 35KGVW DSL | TRUCK, HIGHWAY, 35,000 LBS GVW, 2 AXLE, 4X2 (CHASSIS ONLY-ADD OPTIONS) | 265 HP | D-on | | $111,621 | 41.98 | 5.39 | 7.27 | 1.75 | 21.88 | 126 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T50* | | | *NO SPECIFIC MANUFACTURER (continued)* | | | | | | | | | | |
| | 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 | | $121,436 | 43.45 | 5.86 | 7.92 | 1.90 | 21.88 | 160 |
| | T50XX028 | 6X4 45KGVW DSL | TRUCK, HIGHWAY, 45,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | 230 HP | D-on | | $111,963 | 38.91 | 5.35 | 7.20 | 1.75 | 18.99 | 135 |
| | T50XX029 | 6X4 55KGVW DSL | TRUCK, HIGHWAY, 50,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | 310 HP | D-on | | $103,487 | 45.15 | 4.94 | 6.64 | 1.62 | 25.59 | 144 |
| | T50XX030 | 6X6 70KGVW DSL | TRUCK, HIGHWAY, 70,000 LBS GVW, 3 AXLE, 6X6 (CHASSIS ONLY-ADD OPTIONS) | 350 HP | D-on | | $131,766 | 53.15 | 6.32 | 8.52 | 2.06 | 28.90 | 180 |
| | T50XX031 | 6X4 75KGVW DSL | TRUCK, HIGHWAY, 75,000 LBS GVW, 3 AXLE, 6X4 (CHASSIS ONLY-ADD OPTIONS) | 400 HP | D-on | | $121,734 | 56.28 | 5.84 | 7.88 | 1.90 | 33.02 | 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 | | $132,996 | 57.98 | 6.40 | 8.63 | 2.08 | 33.02 | 240 |
| **T55** | **TRUCKS, OFF-HIGHWAY** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **RIGID FRAME** | | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | |
| | T55CA007 | 769D | TRUCK, OFF-HIGHWAY, RIGID FRAME, 31.7 CY, 41.6 TON, 4X4, REAR DUMP | 487 HP | D-off | | $663,779 | 112.23 | 23.25 | 27.11 | 9.69 | 24.17 | 668 |
| | T55CA002 | 773D | TRUCK, OFF-HIGHWAY, RIGID FRAME, 46.9 CY, 57.7 TON, 4X4, REAR DUMP | 650 HP | D-off | | $887,160 | 144.76 | 30.86 | 35.82 | 12.95 | 32.27 | 872 |
| | T55CA003 | 777D | TRUCK, OFF-HIGHWAY, RIGID FRAME, 78.6 CY, 100 TON, 4X4, REAR DUMP | 938 HP | D-off | | $1,225,767 | 205.82 | 42.18 | 48.57 | 17.89 | 46.56 | 1,419 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Komatsu America International Company** | | | | | | | | | | | | |
| | T55KM009 | HD325-6 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 31.4 CY, 44 TON, 4X4, REAR DUMP | 488 HP | D-off | | $664,954 | 112.42 | 23.29 | 27.16 | 9.71 | 24.22 | 707 |
| | T55KM012 | HD785-5 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 78.7 CY, 100 TON, 4X4, REAR DUMP | 1,042 HP | D-off | | $970,639 | 183.06 | 33.03 | 37.72 | 14.17 | 51.72 | 1,542 |
| | T55KM013 | HD1500-5 | TRUCK, OFF-HIGHWAY, RIGID FRAME, 102 CY, 165 TON, 4X4, REAR DUMP | 1,486 HP | D-off | | $2,240,850 | 359.77 | 77.54 | 89.65 | 32.71 | 73.77 | 5,500 |
| | T55KM014 | 730E | TRUCK, OFF-HIGHWAY, RIGID FRAME, 145 CY, 205 TON, 4X4, REAR DUMP | 2,000 HP | D-off | | $2,646,463 | 457.80 | 89.10 | 100.93 | 38.63 | 99.28 | 7,150 |
| | **SUBCATEGORY 0.20** | | **ARTICULATED FRAME** | | | | | | | | | | |
| | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | | | | |
| | T55CA008 | D25D | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 4X4, REAR DUMP | 260 HP | D-off | | $420,683 | 92.16 | 19.40 | 26.15 | 6.32 | 18.22 | 429 |
| | T55CA009 | D30D | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 30 TON, 4X4, REAR DUMP | 285 HP | D-off | | $498,048 | 108.63 | 22.82 | 30.68 | 7.48 | 19.97 | 473 |
| | T55CA010 | D250D SERIES II | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 6X6, REAR DUMP | 214 HP | D-off | | $419,204 | 85.44 | 19.65 | 26.70 | 6.30 | 15.00 | 424 |
| | T55CA011 | D300E SERIES II | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 30 TON, 6X6, REAR DUMP | 260 HP | D-off | | $495,433 | 102.29 | 23.14 | 31.40 | 7.44 | 18.22 | 488 |
| | T55CA012 | D350E SERIES II | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 25 CY, 35 TON, 6X6, REAR DUMP | 355 HP | D-off | | $606,797 | 132.09 | 27.94 | 37.64 | 9.12 | 24.88 | 666 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T55* | | | *CATERPILLAR INC. ( MACHINE DIVISION) (continued)* | | | | | | | | | | |
| | T55CA013 | D400E SERIES II | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 28 CY, 40 TON, 6X6, REAR DUMP | 405 HP | D-off | | $668,033 | 148.20 | 30.60 | 41.12 | 10.04 | 28.38 | 698 |
| | | | **DEERE & COMPANY** | | | | | | | | | | |
| | T55JD001 | 250D | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 18 CY, 25 TON, 6X6, REAR DUMP | 265 HP | D-off | | $328,563 | 76.55 | 15.19 | 20.49 | 4.94 | 18.57 | 355 |
| | T55JD002 | 300D | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 22 CY, 29 TON, 6X6, REAR DUMP | 285 HP | D-off | | $378,232 | 85.85 | 17.55 | 23.74 | 5.68 | 19.97 | 401 |
| | T55JD003 | 350D | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 25 CY, 35 TON, 6X6, REAR DUMP | 380 HP | D-off | | $486,696 | 116.01 | 22.12 | 29.61 | 7.31 | 26.63 | 571 |
| | T55JD004 | 400D | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 29 CY, 40 TON, 6X6, REAR DUMP | 413 HP | D-off | | $546,229 | 129.95 | 24.75 | 33.08 | 8.21 | 28.94 | 635 |
| | | | **Komatsu America International Company** | | | | | | | | | | |
| | T55KM015 | HM350-1 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 19.1-25.9 CY, 35.7 TON, 6 X 6 X 2, REAR DUMP | 389 HP | D-off | | $593,388 | 133.41 | 27.22 | 36.59 | 8.92 | 27.26 | 630 |
| | T55KM016 | HM400-1 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 21.6-29.2 CY, 40.3 TON, 6 X 6 X 2, REAR DUMP | 430 HP | D-off | | $677,747 | 151.83 | 31.02 | 41.68 | 10.18 | 30.13 | 668 |
| | | | **VOLVO CONSTRUCTION EQUIPMENT GROUP** | | | | | | | | | | |
| | T55VO002 | A-25E 4X4 | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 14-18 CY, 25 TON, 4X4, REAR DUMP | 299 HP | D-off | | $358,894 | 85.42 | 16.48 | 22.17 | 5.39 | 20.95 | 429 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T55* | | | *VOLVO CONSTRUCTION EQUIPMENT GROUP (continued)* | | | | | | | | | |
| | T55VO003 | A-25E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 14-18 CY, 25 TON, 6X6, REAR DUMP | 299 HP D-off | | $379,207 | 87.40 | 17.57 | 23.73 | 5.70 | 20.95 | 475 |
| | T55VO005 | A-30E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 17-22 CY, 30 TON, 6X6, REAR DUMP | 336 HP D-off | | $438,300 | 97.15 | 20.57 | 27.95 | 6.59 | 23.55 | 508 |
| | T55VO004 | A-35E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 19-25 CY, 35 TON, 6X6, REAR DUMP | 414 HP D-off | | $538,729 | 125.93 | 24.68 | 33.18 | 8.09 | 29.01 | 620 |
| | T55VO006 | A-40E | TRUCK, OFF-HIGHWAY, ARTICULATED FRAME, 21-29 CY, 40 TON, 6X6, REAR DUMP | 464 HP D-off | | $605,731 | 144.08 | 27.50 | 36.79 | 9.10 | 32.52 | 666 |
| **T56** | **TRUCKS,OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **PRIME MOVER TRACTORS** | | | | | | | | | |
| | | | **CATERPILLAR INC. ( MACHINE DIVISION)** | | | | | | | | | |
| | T56CA006 | 776D | TRUCK, OFF-HIGHWAY, RIGID FRAME, PRIME MOVER TRACTOR, 4X4 | 938 HP D-off | | $1,364,273 | 229.85 | 47.14 | 54.45 | 19.91 | 52.04 | 1,164 |
| **T57** | **TRUCKS, VACUUM** | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **TRUCKS, VACUUM** | | | | | | | | | |
| | | | **WASTEQUIP CUSCO INDUSTRIES** | | | | | | | | | |
| | T57CU001 | INDUSTRIAL VAC 130 | TRAILER, VACUUM, 5,500 GAL, 750 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM | 76 HP D-off | | $101,827 | 28.15 | 5.67 | 8.10 | 1.62 | 6.88 | 76 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *T57* | | | *WASTEQUIP CUSCO INDUSTRIES (continued)* | | | | | | | | | | |
| | T57CU002 | SS INDUST. VAC 130 | TRAILER, VACUUM, 5,500 GAL, 750 CFM, STAINLESS STEEL, REAR DOOR & HYDRAULIC DUMP SYSTEM | 76 HP | D-off | | $140,651 | 35.77 | 7.84 | 11.20 | 2.24 | 6.88 | 76 |
| | T57CU003 | 2127 | TRUCK, VACUUM, 3,500 GAL, 2,100 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM | 115 HP | D-off | | $149,680 | 41.55 | 8.35 | 11.93 | 2.38 | 10.41 | 115 |
| | T57CU004 | 3827 | TRUCK, VACUUM, 3,500 GAL, 3,170 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM | 177 HP | D-off | | $161,237 | 50.20 | 9.00 | 12.85 | 2.57 | 16.02 | 177 |
| | T57CU005 | 5327 | TRUCK, VACUUM, 3,500 GAL, 4,550 CFM, REAR DOOR & HYDRAULIC DUMP SYSTEM | 335 HP | D-off | | $183,891 | 70.88 | 10.26 | 14.66 | 2.93 | 30.32 | 335 |
| **T60** | **TRUCKS, WATER, OFF-HIGHWAY** | | | | | | | | | | | | |
| | **SUBCATEGORY 0.00** | | **TRUCKS, WATER, OFF-HIGHWAY** | | | | | | | | | | |
| | | | **KLEIN PRODUCTS, INC.** | | | | | | | | | | |
| | T60KI001 | KT-50 | TRUCK, WATER, OFF-HIGHWAY, 5,000 GAL, W/CAT 613C TRACTOR | 175 HP | D-off | | $272,816 | 62.58 | 13.06 | 17.57 | 4.27 | 15.84 | 320 |
| | T60KI002 | KT-60 | TRUCK, WATER, OFF-HIGHWAY, 6,000 GAL, W/CAT 621E TRACTOR | 330 HP | D-off | | $420,666 | 106.66 | 19.72 | 26.27 | 6.58 | 29.87 | 580 |
| | T60KI003 | KT-80 | TRUCK, WATER, OFF-HIGHWAY, 8,000 GAL, W/CAT 631E TRACTOR | 450 HP | D-off | | $677,803 | 159.07 | 32.30 | 43.38 | 10.61 | 40.73 | 751 |
| | T60KI004 | KT-100 | TRUCK, WATER, OFF-HIGHWAY, 10,000 GAL, W/CAT 631E TRACTOR | 450 HP | D-off | | $144,307 | 76.65 | 6.17 | 7.81 | 2.26 | 40.73 | 811 |
| | T60KI006 | KT-120 | TRUCK, WATER, OFF-HIGHWAY, 12,000 GAL, W/CAT 651E TRACTOR | 550 HP | D-off | | $821,638 | 202.31 | 38.04 | 50.36 | 12.86 | 49.79 | 1,097 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SOUTHWEST CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | | | |
| | T60SO001 | STT-60 | TRUCK, WATER, OFF-HIGHWAY, 6,000 GAL, W/CAT 621E TRACTOR | 330 HP | D-off | | | $486,970 | 116.91 | 22.97 | 30.69 | 7.62 | 29.87 | 610 |
| | T60SO002 | STT-80 | TRUCK, WATER, OFF-HIGHWAY, 8,000 GAL, W/CAT 631E TRACTOR | 450 HP | D-off | | | $672,579 | 165.42 | 31.16 | 41.27 | 10.52 | 40.73 | 812 |
| | T60SO003 | STT-100 | TRUCK, WATER, OFF-HIGHWAY, 10,000 GAL, W/CAT 631E TRACTOR | 450 HP | D-off | | | $682,873 | 167.02 | 31.67 | 41.95 | 10.69 | 40.73 | 897 |
| | T60SO004 | STT-120 | TRUCK, WATER, OFF-HIGHWAY, 12,000 GAL, W/CAT 651E TRACTOR | 550 HP | D-off | | | $848,701 | 199.07 | 40.28 | 54.00 | 13.28 | 49.79 | 1,149 |
| | T60SO005 | STT-140 | TRUCK, WATER, OFF-HIGHWAY, 14,000 GAL, W/CAT 651E TRACTOR | 550 HP | D-off | | | $862,941 | 201.27 | 40.98 | 54.95 | 13.50 | 49.79 | 1,184 |
| T65 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **DRIFTING & TUNNELING DRILLS** | | | | | | | | | | | |
| | | | **ATLAS 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 | $1,559,098 | 276.66 | 70.41 | 94.25 | 23.28 | 14.99 | 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 | $2,343,577 | 403.81 | 105.93 | 141.88 | 34.99 | 14.99 | 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 | $2,552,867 | 466.70 | 115.40 | 154.58 | 38.11 | 33.41 | 1,058 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W25 | WATER & CO2 BLASTERS | | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **LOW PRESSURE, (< 5,000 PSI)** | | | | | | | | | | |
| | | | **SIOUX STEAM CLEANER CORPORATION** | | | | | | | | | | |
| | W25SD006 | S1.7 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 100 GPH, 250 PSI, 1.7 GPM | 1 HP | E | | $5,676 | 7.33 | 0.67 | 1.14 | 0.10 | 0.09 | 4 |
| | W25SD007 | S2 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 120 GPH, 250 PS, 2.0 GPM | 1 HP | E | | $6,057 | 8.54 | 0.72 | 1.21 | 0.11 | 0.09 | 5 |
| | W25SD008 | S2.7 D250 | WATER BLASTER, LOW PRESSURE, STEAM CLEANER, 160 GPH, 250 PSI, 2.7 GPM | 1 HP | E | | $6,595 | 9.85 | 0.78 | 1.32 | 0.12 | 0.09 | 6 |
| | W25SD001 | C-4-E 2000 | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,000 PSI, 4 GPM | 5 HP | E | | $5,330 | 3.69 | 0.64 | 1.07 | 0.10 | 0.46 | 4 |
| | W25SD005 | C-4-G 2800 | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,800 PSI, 4 GPM | 12 HP | G | | $6,231 | 7.16 | 0.74 | 1.25 | 0.11 | 3.27 | 4 |
| | W25SD003 | C-5-G 3400 | WATER BLASTER, LOW PRESSURE, COLD WATER, 3,400 PSI, 5 GPM | 18 HP | G | | $8,253 | 10.13 | 0.98 | 1.65 | 0.15 | 4.91 | 5 |
| | W25SD004 | H3.5*3000 | WATER BLASTER, LOW PRESSURE, HOT WATER, 3,000 PSI, 3.5 GPM, TRAILER MTD | 8 HP | G | | $12,076 | 9.16 | 1.40 | 2.36 | 0.22 | 2.18 | 6 |
| | W25SD009 | SF11 | WATER BLASTER, LOW PRESSURE, STEAM GENERATOR, 15 PSI, 355 LB/HR STEAM, 55 GAL BOILER | 11 HP | E | | $14,568 | 15.71 | 1.73 | 2.91 | 0.27 | 1.01 | 9 |
| | W25SD002 | EN-140-H4-1800 | WATER BLASTER, LOW PRESSURE, HOT WATER, 1,800 PSI, 2.3 GPM | 3 HP | E | | $13,725 | 8.16 | 1.63 | 2.75 | 0.25 | 0.28 | 7 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | | |
| | W25XX005 | COLD 3/1000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 700 PSI, 3 GPM | 5 HP | G | | $2,019 | 2.66 | 0.24 | 0.40 | 0.04 | 1.36 | 4 |
| | W25XX006 | COLD 4/1000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 1,200 PSI, 3 GPM | 5 HP | G | | $2,806 | 3.10 | 0.33 | 0.56 | 0.05 | 1.36 | 4 |
| | W25XX007 | COLD 4/2000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 2,000 PSI, 4 GPM | 8 HP | G | | $3,725 | 4.54 | 0.45 | 0.75 | 0.07 | 2.18 | 2 |
| | W25XX008 | COLD 4/3000G | WATER BLASTER, LOW PRESSURE, COLD WATER, 3,000 PSI, 4 GPM | 11 HP | G | | $3,918 | 5.55 | 0.46 | 0.78 | 0.07 | 3.00 | 6 |
| | W25XX009 | HOT 4/1000G | WATER BLASTER, LOW PRESSURE, HOT WATER/STEAM, 1,000 PSI, 4 GPM | 8 HP | G | | $7,806 | 6.83 | 0.92 | 1.56 | 0.14 | 2.18 | 6 |
| | W25XX010 | HOT 6/3000G | WATER BLASTER, LOW PRESSURE, HOT WATER/STEAM, 3,000 PSI, 6 GPM | 24 HP | G | | $11,965 | 14.04 | 1.42 | 2.39 | 0.22 | 6.54 | 10 |
| | **SUBCATEGORY 0.20** | | **HIGH PRESSURE, (>= 5,000 PSI)** | | | | | | | | | | |
| | | | **NLB CORPORATION** | | | | | | | | | | |
| | W25NL001 | 6200E | WATER BLASTER, HIGH PRESSURE, 6,000 PSI, 50 GPM, SKID MTD, W/MODEL 10200 PUMP | 200 HP | E | | $73,856 | 71.30 | 8.74 | 14.77 | 1.35 | 18.43 | 118 |
| | W25NL003 | 201536D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 13.2 GPM, SKID MTD, W/50 LF HOSE & CLEANING LANCE | 150 HP | D-off | | $79,212 | 69.53 | 9.37 | 15.84 | 1.45 | 19.71 | 78 |
| | W25NL002 | 20253D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 22 GPM, SKID MTD (ADD TRUCK, FLATBED TRAILER & WATER TANKER) | 335 HP | D-off | | $123,789 | 123.67 | 14.64 | 24.76 | 2.26 | 44.02 | 140 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *W25* | | | *NLB CORPORATION (continued)* | | | | | | | | | | |
| | W25NL005 | 20600D | WATER BLASTER, HIGH PRESSURE, 20,000 PSI, 53 GPM, SKID MTD (ADD TRUCK, FLATBED TRAILER & WATER TANKER) | 700 HP | D-off | | $302,310 | 284.39 | 35.75 | 60.46 | 5.52 | 91.98 | 200 |
| | W25NL004 | 4400 | WATER BLASTER, HIGH PRESSURE, HYDRODEMOLITION UNIT, CONCRETE BUSTER, SELF PROPELLED (ADD MODEL 20600D WATER BLASTER) | 34 HP | D-off | | $161,690 | 100.65 | 18.88 | 31.86 | 2.95 | 4.47 | 80 |
| | **SUBCATEGORY 0.30** | | **STEAM CLEANERS** | | | | | | | | | | |
| | | | **ALKOTA CLEANING SYSTEMS, INC.** | | | | | | | | | | |
| | W25AO002 | 122 | WATER BLASTER, STEAM CLEANER, 400 PSI, 1.7 GPM | 1 HP | E | | $4,272 | 3.29 | 0.51 | 0.85 | 0.08 | 0.09 | 4 |
| | W25AO003 | 181 | WATER BLASTER, STEAM CLEANER, 250 PSI, 3.0 GPM | 1 HP | E | | $6,220 | 4.38 | 0.73 | 1.24 | 0.11 | 0.09 | 6 |
| | W25AO004 | 240 | WATER BLASTER, STEAM CLEANER, 350 PSI, 4.0 GPM | 2 HP | E | | $6,133 | 4.73 | 0.73 | 1.23 | 0.11 | 0.18 | 7 |
| | W25AO005 | 301 | WATER BLASTER, STEAM CLEANER, 400 PSI, 5.0 GPM | 4 HP | E | | $12,410 | 9.05 | 1.47 | 2.48 | 0.23 | 0.37 | 14 |
| | W25AO006 | 246 | WATER BLASTER, STEAM GENERATOR, 100 PSI, 1.0 GPM | 1 HP | E | | $9,551 | 6.26 | 1.13 | 1.91 | 0.17 | 0.09 | 7 |
| | **SUBCATEGORY 0.40** | | **CO2 BLASTERS** | | | | | | | | | | |
| | | | **COLD JET** | | | | | | | | | | |
| | W25CJ001 | P750B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 600 LBS/HR, SINGLE HOSE DELIVERY (ADD 65-100 CFM COMPRESSOR) | 20 HP | E | | $74,946 | 29.13 | 6.27 | 9.99 | 1.27 | 1.36 | 34 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *W25* | | | *COLD JET (continued)* | | | | | | | | | |
| | W25CJ002 | P1500B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 1,200 LBS/HR, SINGLE HOSE DELIVERY (ADD 65-150 CFM COMPRESSOR) | 24 HP E | | $116,180 | 44.39 | 9.72 | 15.49 | 1.97 | 1.63 | 37 |
| | W25CJ003 | P3000B | CARBON DIOXIDE (CO2) BLASTER/PELLETIZER, 1,200 LBS/HR, DUAL HOSE DELIVERY (ADD 65-200 CFM COMPRESSOR) | 24 HP E | | $183,722 | 68.69 | 15.37 | 24.50 | 3.12 | 1.63 | 66 |
| | **SUBCATEGORY 0.50** | | **WET ABRASIVE BLASTING SYSTEM (TORBO)** | | | | | | | | | |
| | | | **KEIZER TECHNOLOGIES AMERICAS, INC** | | | | | | | | | |
| | W25KZ001 | TORBO M120 | WATER BLASTER, WET ABRASIVE BLASTER, 4.2 CF TANK CAP, 170 PSI, (INCLUDES HOSES & NOZZLE, ADD 350 CFM AIR COMPRESSOR) | 350 CFM A | | $21,055 | 2.80 | 1.06 | 1.37 | 0.37 | 0.00 | 4 |
| | 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 | | $23,305 | 3.09 | 1.17 | 1.51 | 0.41 | 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 | | $23,825 | 3.16 | 1.19 | 1.55 | 0.41 | 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 | | $33,916 | 4.50 | 1.69 | 2.20 | 0.59 | 0.00 | 8 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *W25* | | | *KEIZER TECHNOLOGIES AMERICAS, INC (continued)* | | | | | | | | | |
| | 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 A | | $40,033 | 5.31 | 2.00 | 2.60 | 0.70 | 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 A | | $40,810 | 5.41 | 2.04 | 2.65 | 0.71 | 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 | | $43,522 | 5.78 | 2.18 | 2.83 | 0.76 | 0.00 | 9 |
| **W30** | **WATER TANKS** | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **PORTABLE WITH WHEELS** | | | | | | | | | |
| | | | **SOUTHWEST CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | W30SO001 | EWT-8C | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 8,000 GAL, 10" PIPE | 8 HP G | | $55,521 | 9.91 | 2.67 | 3.59 | 0.87 | 1.50 | 130 |
| | W30SO002 | EWT-10C | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 10,000 GAL, 10" PIPE | 8 HP G | | $66,401 | 11.47 | 3.20 | 4.31 | 1.04 | 1.50 | 170 |
| | W30SO003 | EWT-12C | WATER TANK, PORTABLE, TRAILER MTD, SELF ELEVATING, 12,000 GAL, 10" PIPE | 8 HP G | | $72,259 | 12.31 | 3.48 | 4.70 | 1.13 | 1.50 | 185 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.20** | | **SKID MOUNTED** | | | | | | | | | |
| | | | **SOUTHWEST CONSTRUCTION EQUIPMENT CO.** | | | | | | | | | |
| | W30SO004 | WST-8 | WATER TANK, PORTABLE, SKID MTD, 8,000 GAL, 10" PIPE | | | $35,769 | 4.79 | 1.75 | 2.38 | 0.56 | 0.00 | 107 |
| | W30SO005 | WST-10 | WATER TANK, PORTABLE, SKID MTD, 10,000 GAL, 10" PIPE | | | $39,968 | 5.36 | 1.96 | 2.66 | 0.63 | 0.00 | 122 |
| | W30SO006 | WST-12 | WATER TANK, PORTABLE, SKID MTD, 12,000 GAL, 10" PIPE | | | $46,119 | 6.18 | 2.26 | 3.07 | 0.72 | 0.00 | 142 |
| W35 | WELDERS | | | | | | | | | | | |
| | **SUBCATEGORY 0.10** | | **ENGINE DRIVEN** | | | | | | | | | |
| | | | **NO SPECIFIC MANUFACTURER** | | | | | | | | | |
| | W35XX020 | GAS 150 AC | WELDER, ENGINE DRIVEN, GAS, AC, 150 AMP, 4.5 KW, PORTABLE, SKID MTD | 11 HP G | | $2,475 | 3.36 | 0.16 | 0.23 | 0.04 | 2.51 | 2 |
| | W35XX021 | GAS 225 AC/DC-CC | WELDER, ENGINE DRIVEN, GAS, AC/DC-CC, 225 AMP, 5-8 KW, TRAILER MTD | 17 HP G | | $6,546 | 5.83 | 0.41 | 0.60 | 0.11 | 3.88 | 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 | | $6,743 | 6.13 | 0.42 | 0.61 | 0.11 | 4.11 | 6 |
| | W35XX023 | GAS 300 DC-CC | WELDER, ENGINE DRIVEN, GAS, DC-CC, 300 AMP, 3 KW, TRAILER MTD | 45 HP G | | $11,694 | 14.14 | 0.74 | 1.08 | 0.20 | 10.27 | 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 | | $17,272 | 9.90 | 1.09 | 1.60 | 0.29 | 5.33 | 21 |
| | W35XX025 | DIESEL 500 DC-CC/CV | WELDER, ENGINE DRIVEN, DIESEL, DC-CC/CV, 500 AMP, 4 KW, TRAILER MTD | 42 HP D-off | | $16,544 | 8.98 | 1.05 | 1.53 | 0.28 | 4.66 | 18 |

## Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

| CAT | REGION 7 ID.NO. | MODEL | EQUIPMENT DESCRIPTION | ENGINE HORSEPOWER AND FUEL TYPE MAIN | | CARRIER | VALUE (TEV) 2006 ($) | TOTAL HOURLY RATES ($/HR) AVERAGE | STANDBY | ADJUSTABLE ELEMENTS DEPR | FCCM | FUEL | CWT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBCATEGORY 0.20** | | **ELECTRIC DRIVEN** | | | | | | | | | | |
| | | | **LINCOLN ELECTRIC COMPANY** | | | | | | | | | | |
| | W35LC018 | SP-180T | WELDER, ELECTRIC DRIVEN, 30-180 AMP, WIRE FEEDER | 5 HP | E | | $898 | 0.45 | 0.08 | 0.12 | 0.02 | 0.15 | 1 |
| | W35LC010 | LINCWELD 225/125 | WELDER, ELECTRIC DRIVEN, 225 AMP, STICK | 15 HP | E | | $637 | 0.81 | 0.05 | 0.08 | 0.01 | 0.44 | 1 |
| | W35LC011 | IDEAL ARC R3R-300 | WELDER, ELECTRIC DRIVEN, 300 AMP, STICK | 27 HP | E | | $3,172 | 1.97 | 0.26 | 0.42 | 0.05 | 0.79 | 4 |
| | W35LC012 | IDEAL ARC R3R-400 | WELDER, ELECTRIC DRIVEN, 400 AMP, STICK | 35 HP | E | | $4,064 | 2.55 | 0.34 | 0.54 | 0.07 | 1.02 | 5 |
| | W35LC013 | IDEAL ARC R3R-500 | WELDER, ELECTRIC DRIVEN, 500 AMP, STICK | 41 HP | E | | $4,352 | 2.88 | 0.36 | 0.58 | 0.07 | 1.19 | 5 |
| | W35LC020 | PROCUT 80 | WELDER, ELECTRIC DRIVEN, 85 AMP, PLASMA CUTTING TORCH | 26 HP | E | | $3,946 | 2.14 | 0.34 | 0.53 | 0.07 | 0.76 | 1 |

**Table 2-2. Hourly Rate Elements**

This Table Contains All Hourly Rate Elements as

Described in Chapter 2

For

Average and Severe Operating Conditions.

Refer to Chapter 2, Section II. Operating Condition

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| A10 | | | | | | | | | | | | | | | | | |
| | A10AR001 | 0.42 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.87 | | | | | | | | |
| | A10AR002 | 2.03 | 0.26 | 0.00 | 0.20 | 0.00 | 0.00 | 1.92 | 4.41 | | | | | | | | |
| | A10RS003 | 11.01 | 1.83 | 15.09 | 1.75 | 0.47 | 0.08 | 13.07 | 43.30 | | | | | | | | |
| | A10RS004 | 11.08 | 1.84 | 15.09 | 1.75 | 0.47 | 0.08 | 13.15 | 43.46 | | | | | | | | |
| | A10RS005 | 11.14 | 1.85 | 15.09 | 1.75 | 0.47 | 0.08 | 13.22 | 43.60 | | | | | | | | |
| | A10RS006 | 11.16 | 1.86 | 15.09 | 1.75 | 0.47 | 0.08 | 13.25 | 43.66 | | | | | | | | |
| | A10RS007 | 11.30 | 1.88 | 15.09 | 1.75 | 0.47 | 0.08 | 13.41 | 43.98 | | | | | | | | |
| | A10RS008 | 21.74 | 3.60 | 20.35 | 2.36 | 0.71 | 0.12 | 25.79 | 74.67 | | | | | | | | |
| | A10SE001 | 1.75 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 3.63 | | | | | | | | |
| | A10SE002 | 2.06 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 4.27 | | | | | | | | |
| A15 | | | | | | | | | | | | | | | | | |
| | A15IA001 | 1.80 | 0.36 | 5.89 | 0.80 | 0.08 | 0.01 | 2.25 | 11.19 | | | | | | | | |
| | A15IA002 | 3.90 | 0.78 | 11.56 | 1.57 | 0.08 | 0.01 | 4.87 | 22.77 | | | | | | | | |
| | A15IA003 | 4.67 | 0.94 | 18.29 | 2.48 | 0.14 | 0.02 | 5.82 | 32.36 | | | | | | | | |
| | A15IA004 | 4.67 | 0.94 | 18.29 | 2.48 | 0.14 | 0.02 | 5.82 | 32.36 | | | | | | | | |
| | A15IA005 | 4.67 | 0.94 | 18.29 | 2.48 | 0.14 | 0.02 | 5.82 | 32.36 | | | | | | | | |
| | A15IA006 | 10.33 | 2.08 | 31.54 | 4.27 | 0.29 | 0.05 | 12.89 | 61.45 | | | | | | | | |
| | A15IA007 | 10.83 | 2.18 | 31.54 | 4.27 | 0.29 | 0.05 | 13.52 | 62.68 | | | | | | | | |
| | A15IA008 | 8.15 | 1.64 | 35.22 | 4.77 | 0.29 | 0.05 | 10.18 | 60.30 | | | | | | | | |
| | A15IA009 | 8.17 | 1.65 | 32.59 | 4.41 | 0.29 | 0.05 | 10.20 | 57.36 | | | | | | | | |
| | A15IA010 | 14.61 | 2.93 | 42.05 | 5.69 | 0.29 | 0.05 | 18.21 | 83.83 | | | | | | | | |
| | A15SR002 | 15.44 | 3.10 | 46.25 | 6.26 | 0.43 | 0.07 | 19.26 | 90.81 | | | | | | | | |
| | A15SR004 | 1.31 | 0.27 | 8.20 | 1.11 | 0.08 | 0.01 | 1.63 | 12.61 | | | | | | | | |
| | A15SR005 | 1.89 | 0.38 | 8.41 | 1.14 | 0.08 | 0.01 | 2.36 | 14.27 | | | | | | | | |
| | A15SR006 | 1.31 | 0.27 | 7.99 | 1.08 | 0.08 | 0.01 | 1.63 | 12.37 | | | | | | | | |
| | A15SR007 | 1.31 | 0.27 | 8.09 | 1.10 | 0.08 | 0.01 | 1.64 | 12.50 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***A15*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | A15SR008 | 3.19 | 0.64 | 12.93 | 1.75 | 0.14 | 0.02 | 3.98 | 22.65 | | | | | | | | |
| | A15SR009 | 3.19 | 0.64 | 13.03 | 1.76 | 0.14 | 0.02 | 3.98 | 22.76 | | | | | | | | |
| | A15SR010 | 6.63 | 1.34 | 24.18 | 3.27 | 0.29 | 0.05 | 8.29 | 44.05 | | | | | | | | |
| | A15SR011 | 7.82 | 1.58 | 31.54 | 4.27 | 0.29 | 0.05 | 9.76 | 55.31 | | | | | | | | |
| | A15SR012 | 7.70 | 1.55 | 31.54 | 4.27 | 0.29 | 0.05 | 9.61 | 55.01 | | | | | | | | |
| | A15SR013 | 13.51 | 2.71 | 47.30 | 6.41 | 0.29 | 0.05 | 16.84 | 87.11 | | | | | | | | |
| | A15SR014 | 14.60 | 2.95 | 47.30 | 6.41 | 0.56 | 0.10 | 18.23 | 90.15 | | | | | | | | |
| | A15SR015 | 10.92 | 2.21 | 55.19 | 7.47 | 0.56 | 0.10 | 13.65 | 90.10 | | | | | | | | |
| | A15XX019 | 0.75 | 0.16 | 6.47 | 1.00 | 0.08 | 0.01 | 0.95 | 9.42 | | | | | | | | |
| | A15XX020 | 1.46 | 0.30 | 3.15 | 0.43 | 0.08 | 0.01 | 1.83 | 7.26 | | | | | | | | |
| | A15XX021 | 1.01 | 0.21 | 10.78 | 1.67 | 0.08 | 0.01 | 1.27 | 15.03 | | | | | | | | |
| | A15XX022 | 1.49 | 0.30 | 3.68 | 0.50 | 0.08 | 0.01 | 1.87 | 7.93 | | | | | | | | |
| | A15XX023 | 1.07 | 0.22 | 14.01 | 2.17 | 0.08 | 0.01 | 1.34 | 18.90 | | | | | | | | |
| | A15XX024 | 1.68 | 0.34 | 5.26 | 0.71 | 0.08 | 0.01 | 2.10 | 10.18 | | | | | | | | |
| | A15XX025 | 1.17 | 0.24 | 12.93 | 2.00 | 0.08 | 0.01 | 1.46 | 17.89 | | | | | | | | |
| | A15XX026 | 1.90 | 0.38 | 7.36 | 1.00 | 0.08 | 0.01 | 2.37 | 13.10 | | | | | | | | |
| | A15XX027 | 1.22 | 0.25 | 19.40 | 3.00 | 0.08 | 0.01 | 1.52 | 25.48 | | | | | | | | |
| | A15XX028 | 1.94 | 0.39 | 8.41 | 1.14 | 0.08 | 0.01 | 2.42 | 14.39 | | | | | | | | |
| | A15XX029 | 1.32 | 0.27 | 15.09 | 2.33 | 0.08 | 0.01 | 1.65 | 20.75 | | | | | | | | |
| | A15XX030 | 2.57 | 0.52 | 8.94 | 1.21 | 0.08 | 0.01 | 3.21 | 16.54 | | | | | | | | |
| | A15XX031 | 3.76 | 0.75 | 11.56 | 1.57 | 0.08 | 0.01 | 4.68 | 22.41 | | | | | | | | |
| | A15XX032 | 3.40 | 0.69 | 12.09 | 1.64 | 0.14 | 0.02 | 4.25 | 22.23 | | | | | | | | |
| | A15XX033 | 4.55 | 0.93 | 17.87 | 2.42 | 0.29 | 0.05 | 5.69 | 31.80 | | | | | | | | |
| | A15XX034 | 6.32 | 1.28 | 26.28 | 3.56 | 0.29 | 0.05 | 7.90 | 45.68 | | | | | | | | |
| | A15XX035 | 6.73 | 1.36 | 28.91 | 3.92 | 0.29 | 0.05 | 8.40 | 49.66 | | | | | | | | |
| | A15XX036 | 7.26 | 1.47 | 28.91 | 3.92 | 0.29 | 0.05 | 9.07 | 50.97 | | | | | | | | |
| | A15XX037 | 7.75 | 1.56 | 32.59 | 4.41 | 0.29 | 0.05 | 9.67 | 56.32 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***A15*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | A15XX038 | 11.83 | 2.37 | 37.84 | 5.12 | 0.29 | 0.05 | 14.75 | 72.25 | | | | | | | | |
| | A15XX039 | 12.37 | 2.49 | 48.36 | 6.55 | 0.38 | 0.06 | 15.44 | 85.65 | | | | | | | | |
| | A15XX040 | 13.29 | 2.67 | 52.56 | 7.12 | 0.38 | 0.06 | 16.58 | 92.66 | | | | | | | | |
| | A15XX041 | 0.17 | 0.04 | 0.36 | 0.20 | 0.00 | 0.00 | 0.18 | 0.95 | | | | | | | | |
| | A15XX042 | 0.23 | 0.05 | 0.51 | 0.28 | 0.00 | 0.00 | 0.23 | 1.30 | | | | | | | | |
| | A15XX043 | 0.35 | 0.07 | 0.73 | 0.40 | 0.00 | 0.00 | 0.35 | 1.90 | | | | | | | | |
| | A15XX044 | 0.41 | 0.09 | 1.09 | 0.59 | 0.00 | 0.00 | 0.41 | 2.59 | | | | | | | | |
| | A15XX045 | 0.58 | 0.12 | 1.82 | 0.99 | 0.00 | 0.00 | 0.59 | 4.10 | | | | | | | | |
| | A15XX046 | 0.71 | 0.15 | 2.18 | 1.19 | 0.00 | 0.00 | 0.72 | 4.95 | | | | | | | | |
| **A20** | | | | | | | | | | | | | | | | | |
| | A20CK001 | 0.24 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 0.80 | | | | | | | | |
| | A20CK002 | 0.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.48 | | | | | | | | |
| | A20CK003 | 0.25 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 0.84 | | | | | | | | |
| | A20CK005 | 0.31 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 1.03 | | | | | | | | |
| | A20CK006 | 0.17 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.57 | | | | | | | | |
| | A20CK008 | 0.18 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.60 | | | | | | | | |
| | A20CK010 | 0.19 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.63 | | | | | | | | |
| | A20CM010 | 0.60 | 0.06 | 0.00 | 0.06 | 0.00 | 0.00 | 1.33 | 2.05 | | | | | | | | |
| | A20CM011 | 0.77 | 0.08 | 0.00 | 0.06 | 0.00 | 0.00 | 1.71 | 2.62 | | | | | | | | |
| | A20CM012 | 0.87 | 0.09 | 0.00 | 0.13 | 0.00 | 0.00 | 1.92 | 3.01 | | | | | | | | |
| | A20CM013 | 2.56 | 0.28 | 0.00 | 0.28 | 0.11 | 0.02 | 5.68 | 8.93 | | | | | | | | |
| | A20CM014 | 3.01 | 0.36 | 0.00 | 0.41 | 0.39 | 0.07 | 6.74 | 10.98 | | | | | | | | |
| | A20CM015 | 3.58 | 0.41 | 0.00 | 0.50 | 0.26 | 0.04 | 7.97 | 12.76 | | | | | | | | |
| | A20CM016 | 2.36 | 0.25 | 0.00 | 0.30 | 0.00 | 0.00 | 5.22 | 8.13 | | | | | | | | |
| | A20CM017 | 0.10 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.34 | | | | | | | | |
| | A20CM018 | 0.11 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.38 | | | | | | | | |
| | A20CM019 | 0.14 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.48 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***A20*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | A20CM020 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.40 | | | | | | | | |
| | A20WC002 | 0.17 | 0.02 | 0.13 | 0.21 | 0.00 | 0.00 | 0.38 | 0.91 | | | | | | | | |
| | A20WC004 | 0.49 | 0.05 | 0.75 | 0.12 | 0.00 | 0.00 | 1.08 | 2.49 | | | | | | | | |
| | A20XX001 | 0.37 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 1.16 | | | | | | | | |
| | A20XX002 | 0.42 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.89 | 1.34 | | | | | | | | |
| | A20XX003 | 0.53 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 1.66 | | | | | | | | |
| | A20XX004 | 0.68 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 2.17 | | | | | | | | |
| | A20XX005 | 0.97 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | 3.07 | | | | | | | | |
| | A20XX006 | 1.19 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 3.77 | | | | | | | | |
| | A20XX007 | 1.47 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 4.66 | | | | | | | | |
| | A20XX008 | 1.97 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 4.13 | 6.23 | | | | | | | | |
| | A20XX021 | 0.19 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.63 | | | | | | | | |
| | A20XX022 | 0.22 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.72 | | | | | | | | |
| | A20XX023 | 0.26 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.87 | | | | | | | | |
| | A20XX024 | 0.27 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.90 | | | | | | | | |
| | A20XX025 | 0.38 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 1.26 | | | | | | | | |
| **A25** | | | | | | | | | | | | | | | | | |
| | A25RS006 | 9.23 | 0.99 | 0.00 | 1.16 | 0.00 | 0.00 | 11.01 | 22.39 | | | | | | | | |
| | A25RS008 | 10.61 | 1.14 | 0.00 | 1.80 | 0.00 | 0.00 | 12.65 | 26.20 | | | | | | | | |
| | A25XX001 | 7.80 | 0.84 | 0.00 | 0.64 | 0.00 | 0.00 | 9.30 | 18.58 | | | | | | | | |
| | A25XX002 | 9.11 | 0.98 | 0.00 | 1.51 | 0.00 | 0.00 | 10.86 | 22.46 | | | | | | | | |
| | A25XX003 | 9.97 | 1.07 | 0.00 | 2.09 | 0.00 | 0.00 | 11.89 | 25.02 | | | | | | | | |
| **A30** | | | | | | | | | | | | | | | | | |
| | A30BG003 | 40.84 | 6.40 | 15.69 | 3.62 | 3.80 | 0.65 | 61.09 | 132.09 | | | | | | | | |
| | A30BG004 | 37.07 | 5.53 | 11.12 | 3.01 | 0.00 | 0.00 | 55.04 | 111.77 | | | | | | | | |
| | A30BG005 | 42.98 | 6.41 | 15.69 | 3.62 | 0.00 | 0.00 | 63.81 | 132.51 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***A30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | A30BG007 | 31.89 | 4.91 | 9.73 | 2.82 | 2.17 | 0.37 | 47.58 | 99.47 | | | | | | | | |
| | A30BG009 | 34.54 | 5.33 | 13.80 | 1.87 | 2.56 | 0.44 | 51.55 | 110.09 | | | | | | | | |
| | A30BK010 | 16.40 | 2.55 | 4.67 | 0.63 | 1.67 | 0.29 | 24.49 | 50.70 | | | | | | | | |
| | A30BK011 | 28.97 | 4.47 | 10.62 | 1.44 | 2.17 | 0.37 | 43.24 | 91.28 | | | | | | | | |
| | A30BK013 | 30.75 | 4.73 | 14.40 | 1.95 | 1.95 | 0.33 | 45.87 | 99.98 | | | | | | | | |
| | A30BK015 | 35.23 | 5.43 | 18.27 | 2.47 | 2.56 | 0.44 | 52.57 | 116.97 | | | | | | | | |
| | A30BK017 | 38.44 | 5.73 | 18.27 | 2.47 | 0.00 | 0.00 | 57.08 | 121.99 | | | | | | | | |
| | A30BK018 | 39.55 | 5.90 | 18.27 | 2.47 | 0.00 | 0.00 | 58.72 | 124.91 | | | | | | | | |
| | A30BK019 | 23.07 | 3.49 | 10.42 | 1.41 | 0.58 | 0.10 | 34.33 | 73.40 | | | | | | | | |
| | A30BK020 | 29.81 | 4.49 | 17.18 | 2.33 | 0.70 | 0.12 | 44.32 | 98.95 | | | | | | | | |
| | A30BK021 | 39.00 | 5.81 | 17.47 | 2.37 | 0.00 | 0.00 | 57.90 | 122.55 | | | | | | | | |
| | A30BK022 | 28.71 | 4.42 | 14.40 | 1.95 | 1.95 | 0.33 | 42.85 | 94.61 | | | | | | | | |
| | A30BK023 | 33.43 | 4.98 | 14.40 | 1.95 | 0.00 | 0.00 | 49.63 | 104.39 | | | | | | | | |
| | A30BK024 | 27.91 | 5.68 | 16.66 | 2.26 | 1.41 | 0.24 | 35.39 | 89.55 | | | | | | | | |
| | A30CA002 | 30.05 | 4.63 | 10.62 | 1.44 | 1.95 | 0.33 | 44.83 | 93.85 | | | | | | | | |
| | A30CA007 | 9.67 | 1.98 | 9.69 | 1.31 | 0.65 | 0.11 | 12.28 | 35.69 | | | | | | | | |
| | A30CA008 | 35.04 | 5.39 | 17.27 | 2.34 | 2.45 | 0.42 | 52.27 | 115.18 | | | | | | | | |
| | A30CA009 | 44.30 | 6.60 | 17.18 | 2.33 | 0.00 | 0.00 | 65.77 | 136.18 | | | | | | | | |
| | A30CA013 | 31.35 | 4.67 | 12.01 | 1.63 | 0.00 | 0.00 | 46.55 | 96.21 | | | | | | | | |
| | A30CA014 | 31.50 | 4.88 | 15.19 | 2.06 | 2.56 | 0.44 | 47.05 | 103.68 | | | | | | | | |
| | A30CA015 | 52.31 | 7.80 | 17.27 | 2.34 | 0.00 | 0.00 | 77.66 | 157.38 | | | | | | | | |
| | A30CA016 | 40.63 | 6.06 | 17.18 | 2.33 | 0.00 | 0.00 | 60.32 | 126.52 | | | | | | | | |
| | A30CH001 | 27.85 | 4.30 | 10.92 | 1.48 | 2.17 | 0.37 | 41.57 | 88.66 | | | | | | | | |
| | A30CH002 | 30.51 | 4.69 | 15.09 | 2.04 | 1.95 | 0.33 | 45.52 | 100.13 | | | | | | | | |
| | A30CH003 | 31.70 | 4.73 | 15.09 | 2.04 | 0.00 | 0.00 | 47.07 | 100.63 | | | | | | | | |
| | A30CH004 | 32.09 | 4.94 | 15.09 | 2.04 | 2.07 | 0.35 | 47.88 | 104.46 | | | | | | | | |
| | A30CH005 | 35.05 | 5.39 | 17.18 | 2.33 | 2.45 | 0.42 | 52.29 | 115.11 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***A30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | A30CH006 | 42.16 | 6.28 | 19.86 | 2.69 | 0.00 | 0.00 | 62.59 | 133.58 | | | | | | | | |
| | A30GC002 | 4.11 | 0.63 | 2.48 | 0.34 | 0.17 | 0.03 | 6.13 | 13.89 | | | | | | | | |
| | A30GC004 | 6.02 | 0.90 | 4.07 | 0.55 | 0.00 | 0.00 | 8.94 | 20.48 | | | | | | | | |
| | A30LD001 | 11.13 | 2.31 | 9.96 | 1.35 | 1.23 | 0.21 | 14.18 | 40.37 | | | | | | | | |
| | A30MP001 | 10.93 | 2.17 | 7.24 | 0.98 | 0.00 | 0.00 | 13.80 | 35.12 | | | | | | | | |
| | A30MP002 | 14.21 | 2.83 | 9.05 | 1.23 | 0.00 | 0.00 | 17.95 | 45.27 | | | | | | | | |
| | A30RT001 | 40.83 | 8.13 | 24.89 | 3.37 | 0.08 | 0.01 | 51.56 | 128.87 | | | | | | | | |
| | A30RT002 | 42.79 | 8.53 | 24.89 | 3.37 | 0.17 | 0.03 | 54.04 | 133.82 | | | | | | | | |
| | A30XX001 | 9.77 | 2.33 | 9.31 | 1.06 | 0.63 | 0.11 | 8.50 | 31.71 | | | | | | | | |
| | A30XX002 | 12.15 | 2.85 | 9.31 | 1.06 | 0.00 | 0.00 | 10.54 | 35.91 | | | | | | | | |
| **A35** | | | | | | | | | | | | | | | | | |
| | A35AE001 | 1.32 | 0.18 | 0.94 | 2.10 | 0.07 | 0.01 | 1.68 | 6.30 | | | | | | | | |
| | A35AE002 | 1.37 | 0.18 | 0.94 | 2.80 | 0.07 | 0.01 | 1.75 | 7.12 | | | | | | | | |
| | A35AE003 | 1.50 | 0.20 | 0.94 | 3.15 | 0.05 | 0.01 | 1.91 | 7.76 | | | | | | | | |
| | A35AE004 | 1.65 | 0.22 | 0.94 | 4.05 | 0.05 | 0.01 | 2.10 | 9.02 | | | | | | | | |
| | A35AE005 | 1.77 | 0.24 | 0.94 | 6.25 | 0.09 | 0.02 | 2.26 | 11.57 | | | | | | | | |
| **A40** | | | | | | | | | | | | | | | | | |
| | A40CA008 | 65.37 | 8.32 | 65.70 | 8.90 | 0.00 | 0.00 | 103.11 | 251.40 | | | | | | | | |
| | A40CA009 | 91.86 | 11.69 | 82.13 | 11.12 | 0.00 | 0.00 | 144.92 | 341.72 | | | | | | | | |
| | A40CW001 | 107.58 | 13.69 | 124.83 | 16.91 | 0.00 | 0.00 | 169.71 | 432.72 | | | | | | | | |
| | A40RT001 | 43.29 | 5.70 | 30.22 | 4.09 | 1.81 | 0.31 | 68.76 | 154.18 | | | | | | | | |
| | A40RT002 | 58.48 | 7.44 | 32.85 | 4.45 | 0.00 | 0.00 | 92.25 | 195.47 | | | | | | | | |
| | A40RT003 | 71.71 | 9.12 | 60.44 | 8.19 | 0.00 | 0.00 | 113.12 | 262.58 | | | | | | | | |
| | A40RT005 | 97.67 | 12.43 | 105.12 | 14.24 | 0.00 | 0.00 | 154.08 | 383.54 | | | | | | | | |
| | A40RT006 | 108.18 | 13.76 | 105.12 | 14.24 | 0.00 | 0.00 | 170.65 | 411.95 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **A45** | | | | | | | | | | | | | | | | | |
| | A45AE001 | 1.44 | 0.16 | 0.00 | 7.10 | 0.04 | 0.01 | 2.05 | 10.80 | | | | | | | | |
| | A45AE002 | 2.84 | 0.32 | 0.00 | 14.25 | 0.04 | 0.01 | 4.05 | 21.51 | | | | | | | | |
| | A45AE003 | 3.35 | 0.37 | 0.00 | 16.85 | 0.04 | 0.01 | 4.77 | 25.39 | | | | | | | | |
| | A45RS001 | 7.69 | 0.85 | 7.24 | 1.48 | 0.07 | 0.01 | 10.94 | 28.28 | | | | | | | | |
| | A45RS002 | 24.93 | 2.72 | 22.39 | 3.53 | 0.00 | 0.00 | 35.40 | 88.97 | | | | | | | | |
| | A45SE003 | 6.03 | 0.67 | 2.72 | 2.37 | 0.11 | 0.02 | 8.59 | 20.51 | | | | | | | | |
| | A45SE004 | 3.77 | 0.43 | 2.43 | 0.88 | 0.14 | 0.02 | 5.40 | 13.07 | | | | | | | | |
| **B10** | | | | | | | | | | | | | | | | | |
| | B10CC007 | 4.74 | 0.79 | 3.37 | 3.52 | 0.13 | 0.02 | 7.50 | 20.07 | | | | | | | | |
| | B10CC008 | 12.81 | 2.14 | 30.49 | 8.21 | 0.64 | 0.11 | 20.32 | 74.72 | | | | | | | | |
| | B10CC009 | 14.30 | 2.42 | 37.41 | 9.53 | 1.12 | 0.19 | 22.73 | 87.70 | | | | | | | | |
| | B10CC010 | 15.45 | 2.61 | 37.41 | 9.78 | 1.12 | 0.19 | 24.54 | 91.10 | | | | | | | | |
| | B10CC011 | 2.25 | 0.37 | 1.26 | 1.69 | 0.00 | 0.00 | 3.55 | 9.12 | | | | | | | | |
| | B10CC012 | 2.21 | 0.36 | 3.37 | 1.27 | 0.00 | 0.00 | 3.48 | 10.69 | | | | | | | | |
| | B10CC013 | 2.67 | 0.44 | 3.37 | 1.32 | 0.00 | 0.00 | 4.21 | 12.01 | | | | | | | | |
| | B10CC014 | 0.69 | 0.11 | 0.32 | 0.67 | 0.00 | 0.00 | 1.09 | 2.88 | | | | | | | | |
| | B10CL005 | 30.10 | 5.00 | 7.57 | 6.12 | 0.75 | 0.13 | 47.66 | 97.33 | | | | | | | | |
| | B10CL006 | 30.61 | 5.09 | 7.57 | 6.12 | 0.75 | 0.13 | 48.47 | 98.74 | | | | | | | | |
| | B10CL015 | 15.98 | 2.69 | 1.89 | 3.53 | 0.70 | 0.12 | 25.38 | 50.29 | | | | | | | | |
| | B10CL021 | 8.54 | 1.44 | 2.21 | 1.20 | 0.41 | 0.07 | 13.56 | 27.43 | | | | | | | | |
| | B10CL025 | 27.95 | 4.59 | 12.61 | 6.86 | 0.22 | 0.04 | 44.14 | 96.41 | | | | | | | | |
| | B10CL027 | 2.30 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 3.63 | 6.31 | | | | | | | | |
| | B10CL032 | 0.44 | 0.07 | 0.63 | 0.34 | 0.00 | 0.00 | 0.69 | 2.17 | | | | | | | | |
| | B10CL034 | 0.88 | 0.14 | 1.26 | 0.69 | 0.00 | 0.00 | 1.38 | 4.35 | | | | | | | | |
| | B10CL036 | 0.37 | 0.06 | 0.50 | 0.27 | 0.00 | 0.00 | 0.58 | 1.78 | | | | | | | | |
| | B10CL040 | 0.51 | 0.08 | 1.26 | 0.69 | 0.00 | 0.00 | 0.81 | 3.35 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B10CL042 | 0.33 | 0.05 | 0.32 | 0.17 | 0.00 | 0.00 | 0.52 | 1.39 | | | | | | | | |
| | B10CL045 | 0.43 | 0.07 | 0.63 | 0.34 | 0.00 | 0.00 | 0.68 | 2.15 | | | | | | | | |
| | B10EM001 | 42.96 | 7.16 | 4.68 | 3.22 | 1.24 | 0.21 | 68.06 | 127.53 | | | | | | | | |
| | B10EM002 | 2.81 | 0.50 | 0.63 | 1.34 | 0.35 | 0.06 | 4.51 | 10.20 | | | | | | | | |
| | B10EM003 | 3.03 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 4.79 | 8.32 | | | | | | | | |
| | B10KB001 | 13.82 | 2.80 | 5.99 | 3.26 | 0.45 | 0.08 | 21.89 | 48.29 | | | | | | | | |
| | B10KB002 | 24.69 | 4.97 | 13.87 | 7.54 | 0.50 | 0.09 | 39.05 | 90.71 | | | | | | | | |
| | B10RC006 | 19.43 | 3.27 | 2.87 | 6.06 | 0.77 | 0.13 | 30.84 | 63.37 | | | | | | | | |
| | B10RC007 | 13.93 | 2.33 | 0.95 | 3.02 | 0.47 | 0.08 | 22.08 | 42.86 | | | | | | | | |
| | B10RC008 | 16.33 | 2.72 | 1.89 | 3.53 | 0.47 | 0.08 | 25.88 | 50.90 | | | | | | | | |
| | B10RC016 | 23.87 | 3.99 | 4.73 | 8.07 | 0.77 | 0.13 | 37.84 | 79.40 | | | | | | | | |
| | B10RC027 | 14.95 | 2.44 | 2.52 | 3.37 | 0.00 | 0.00 | 23.58 | 46.86 | | | | | | | | |
| | B10RC028 | 16.80 | 2.74 | 3.78 | 4.31 | 0.00 | 0.00 | 26.50 | 54.13 | | | | | | | | |
| | B10RC029 | 19.00 | 3.10 | 5.04 | 5.24 | 0.00 | 0.00 | 29.97 | 62.35 | | | | | | | | |
| | B10RC030 | 20.71 | 3.38 | 6.31 | 7.18 | 0.00 | 0.00 | 32.67 | 70.25 | | | | | | | | |
| | B10RC031 | 21.88 | 3.57 | 7.57 | 8.12 | 0.00 | 0.00 | 34.51 | 75.65 | | | | | | | | |
| | B10RC032 | 20.82 | 3.49 | 3.15 | 6.21 | 0.77 | 0.13 | 33.03 | 67.60 | | | | | | | | |
| | B10SN031 | 7.36 | 1.31 | 1.58 | 2.21 | 0.85 | 0.15 | 11.82 | 25.28 | | | | | | | | |
| | B10SN032 | 11.46 | 1.98 | 1.89 | 2.78 | 0.86 | 0.15 | 18.29 | 37.41 | | | | | | | | |
| | B10SN033 | 14.08 | 2.40 | 1.89 | 2.53 | 0.84 | 0.14 | 22.42 | 44.30 | | | | | | | | |
| | B10SN034 | 15.31 | 2.61 | 1.26 | 2.19 | 0.86 | 0.15 | 24.36 | 46.74 | | | | | | | | |
| | B10SN035 | 16.05 | 2.73 | 1.89 | 2.68 | 0.86 | 0.15 | 25.53 | 49.89 | | | | | | | | |
| | B10SN036 | 15.13 | 2.58 | 2.84 | 3.29 | 0.86 | 0.15 | 24.07 | 48.92 | | | | | | | | |
| **B15** | | | | | | | | | | | | | | | | | |
| | B15BM001 | 5.16 | 0.71 | 7.24 | 0.98 | 0.00 | 0.00 | 5.77 | 19.86 | | | | | | | | |
| | B15EC001 | 21.25 | 2.94 | 7.95 | 1.08 | 0.62 | 0.11 | 23.76 | 57.71 | | | | | | | | |
| | B15EC002 | 14.12 | 1.95 | 9.05 | 1.23 | 0.32 | 0.05 | 15.78 | 42.50 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B15*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B15EC003 | 20.25 | 2.77 | 20.82 | 2.82 | 0.10 | 0.02 | 22.62 | 69.40 | | | | | | | | |
| | B15MB001 | 0.92 | 0.13 | 0.00 | 0.10 | 0.00 | 0.00 | 1.02 | 2.17 | | | | | | | | |
| | B15MB002 | 1.11 | 0.15 | 0.00 | 0.14 | 0.00 | 0.00 | 1.24 | 2.64 | | | | | | | | |
| | B15MB003 | 1.56 | 0.22 | 0.00 | 0.24 | 0.08 | 0.01 | 1.75 | 3.86 | | | | | | | | |
| | B15MB004 | 1.80 | 0.25 | 3.37 | 0.39 | 0.08 | 0.01 | 2.02 | 7.92 | | | | | | | | |
| | B15RS001 | 4.52 | 0.62 | 7.24 | 0.98 | 0.11 | 0.02 | 5.05 | 18.54 | | | | | | | | |
| | B15RS005 | 5.87 | 0.81 | 7.24 | 0.98 | 0.17 | 0.03 | 6.57 | 21.67 | | | | | | | | |
| | B15TB001 | 2.56 | 0.36 | 3.35 | 0.45 | 0.12 | 0.02 | 2.86 | 9.72 | | | | | | | | |
| | B15TB002 | 2.58 | 0.36 | 3.35 | 0.45 | 0.12 | 0.02 | 2.88 | 9.76 | | | | | | | | |
| | B15WD001 | 4.05 | 0.56 | 7.24 | 0.98 | 0.11 | 0.02 | 4.53 | 17.49 | | | | | | | | |
| | B15WD002 | 4.20 | 0.58 | 7.24 | 0.98 | 0.11 | 0.02 | 4.69 | 17.82 | | | | | | | | |
| **B20** | | | | | | | | | | | | | | | | | |
| | B20BN001 | 1.28 | 0.18 | 4.68 | 0.72 | 0.03 | 0.01 | 1.61 | 8.51 | | | | | | | | |
| | B20BN002 | 2.03 | 0.28 | 13.28 | 2.05 | 0.06 | 0.01 | 2.55 | 20.26 | | | | | | | | |
| | B20BN003 | 2.59 | 0.36 | 26.18 | 4.05 | 0.07 | 0.01 | 3.26 | 36.52 | | | | | | | | |
| | B20BN005 | 2.22 | 0.31 | 13.09 | 2.02 | 0.07 | 0.01 | 2.80 | 20.52 | | | | | | | | |
| | B20BN006 | 2.46 | 0.34 | 22.26 | 3.44 | 0.07 | 0.01 | 3.10 | 31.68 | | | | | | | | |
| | B20BN007 | 4.44 | 0.62 | 11.32 | 1.53 | 0.20 | 0.03 | 5.59 | 23.73 | | | | | | | | |
| | B20MQ001 | 2.54 | 0.35 | 7.78 | 1.05 | 0.02 | 0.00 | 3.19 | 14.93 | | | | | | | | |
| | B20MQ003 | 3.52 | 0.49 | 12.67 | 1.72 | 0.07 | 0.01 | 4.43 | 22.91 | | | | | | | | |
| | B20MQ004 | 4.05 | 0.57 | 22.63 | 3.06 | 0.23 | 0.04 | 5.10 | 35.68 | | | | | | | | |
| | B20MQ005 | 43.72 | 6.02 | 58.84 | 9.47 | 0.57 | 0.10 | 54.98 | 173.70 | | | | | | | | |
| **B25** | | | | | | | | | | | | | | | | | |
| | B25HB001 | 2.19 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 2.05 | 4.54 | 2.69 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 5.88 |
| | B25HB003 | 3.51 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 7.28 | 4.32 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 4.62 | 9.44 |
| | B25HB005 | 4.57 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 4.27 | 9.46 | 5.62 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 12.27 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B25HB007 | 5.39 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 11.17 | 6.63 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 7.09 | 14.48 |
| | B25HB008 | 6.28 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 5.88 | 13.02 | 7.73 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 8.26 | 16.88 |
| | B25HB009 | 6.92 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 6.48 | 14.35 | 8.52 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 9.11 | 18.61 |
| | B25HB010 | 7.32 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 | 15.17 | 9.01 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 9.63 | 19.67 |
| | B25HB011 | 7.53 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 7.04 | 15.60 | 9.27 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 9.90 | 20.23 |
| | B25HB012 | 7.98 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 7.46 | 16.53 | 9.82 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 10.49 | 21.43 |
| | B25HB013 | 8.24 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 7.71 | 17.08 | 10.14 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 10.84 | 22.14 |
| | B25HB014 | 8.61 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 8.05 | 17.84 | 10.59 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 11.32 | 23.12 |
| | B25HB015 | 8.93 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 8.36 | 18.51 | 10.99 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 11.75 | 24.00 |
| | B25XX001 | 0.99 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 2.04 | 1.22 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 2.66 |
| | B25XX002 | 1.47 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 1.38 | 3.05 | 1.81 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 1.94 | 3.96 |
| | B25XX003 | 1.82 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 1.70 | 3.77 | 2.24 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 4.89 |
| | B25XX004 | 1.99 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 1.87 | 4.13 | 2.46 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 5.36 |
| | B25XX005 | 2.32 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 4.81 | 2.86 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 6.25 |
| | B25XX006 | 2.62 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 2.46 | 5.44 | 3.23 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 | 7.05 |
| | B25XX007 | 2.80 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 5.80 | 3.45 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 3.69 | 7.54 |
| | B25XX008 | 3.27 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 6.78 | 4.03 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 4.30 | 8.79 |
| | B25XX009 | 3.45 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 7.15 | 4.25 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.54 | 9.28 |
| | B25XX010 | 3.67 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 3.44 | 7.61 | 4.52 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 4.83 | 9.87 |
| | B25XX011 | 3.86 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.61 | 8.00 | 4.75 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 10.36 |
| | B25XX012 | 4.31 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.03 | 8.93 | 5.30 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 11.57 |
| | B25XX013 | 5.78 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 5.41 | 11.98 | 7.11 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 7.60 | 15.52 |
| | B25XX014 | 6.16 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 5.77 | 12.77 | 7.59 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 8.11 | 16.57 |
| | B25XX015 | 7.42 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 6.94 | 15.37 | 9.13 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 9.76 | 19.94 |
| | B25XX016 | 7.49 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 15.51 | 9.21 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 9.85 | 20.12 |
| | B25XX017 | 8.08 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 7.56 | 16.74 | 9.95 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 10.63 | 21.72 |
| | B25XX018 | 7.69 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 7.19 | 15.93 | 9.46 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 10.11 | 20.65 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B25XX019 | 8.59 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 8.03 | 17.79 | 10.57 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 11.29 | 23.07 |
| **B30** | | | | | | | | | | | | | | | | | |
| | B30CR001 | 0.58 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.59 | 1.24 | | | | | | | | |
| | B30CR002 | 0.62 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 1.33 | | | | | | | | |
| | B30CR003 | 0.68 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.68 | 1.44 | | | | | | | | |
| | B30CR004 | 0.70 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 1.50 | | | | | | | | |
| | B30CR005 | 0.82 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 1.76 | | | | | | | | |
| | B30CR006 | 0.97 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 2.07 | | | | | | | | |
| | B30CR009 | 0.87 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.88 | 1.86 | | | | | | | | |
| | B30CR010 | 1.01 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.02 | 2.16 | | | | | | | | |
| | B30CR011 | 1.20 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 2.56 | | | | | | | | |
| | B30CR012 | 1.38 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 1.40 | 2.95 | | | | | | | | |
| | B30GB001 | 0.49 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.99 | | | | | | | | |
| | B30GB002 | 0.65 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 1.30 | | | | | | | | |
| | B30GB003 | 0.80 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 1.61 | | | | | | | | |
| | B30GB004 | 1.15 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.02 | 2.31 | | | | | | | | |
| | B30GB005 | 1.38 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 2.77 | | | | | | | | |
| | B30GB006 | 2.54 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 2.41 | 5.27 | | | | | | | | |
| | B30GB007 | 2.75 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 5.72 | | | | | | | | |
| | B30GB008 | 3.06 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 6.34 | | | | | | | | |
| | B30GB009 | 3.50 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 3.32 | 7.26 | | | | | | | | |
| | B30GB010 | 4.33 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 8.99 | | | | | | | | |
| | B30GB011 | 2.01 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 4.29 | | | | | | | | |
| | B30GB012 | 2.08 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 2.11 | 4.45 | | | | | | | | |
| | B30GB013 | 2.16 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 4.62 | | | | | | | | |
| | B30GB014 | 2.86 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 6.12 | | | | | | | | |
| | B30GB015 | 2.97 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 6.34 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B30GB016 | 4.27 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 9.12 | | | | | | | | |
| | B30GB017 | 5.13 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.19 | 10.96 | | | | | | | | |
| | B30GB018 | 0.39 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.79 | | | | | | | | |
| **B35** | | | | | | | | | | | | | | | | | |
| | B35HE001 | 0.90 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 1.86 | 1.11 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.19 | 2.43 |
| | B35HE002 | 1.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 2.19 | 1.30 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.39 | 2.84 |
| | B35HE003 | 1.50 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 1.40 | 3.10 | 1.85 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 1.97 | 4.03 |
| | B35HE004 | 1.81 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 3.75 | 2.23 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 4.87 |
| | B35HE005 | 2.08 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 1.94 | 4.30 | 2.55 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 2.73 | 5.57 |
| | B35HE006 | 2.59 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.42 | 5.36 | 3.18 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 6.94 |
| | B35HE007 | 2.81 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 2.63 | 5.82 | 3.46 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 3.70 | 7.56 |
| | B35HE008 | 3.69 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 7.65 | 4.55 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 4.86 | 9.93 |
| | B35HE009 | 3.88 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.63 | 8.04 | 4.77 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 5.10 | 10.42 |
| | B35HE010 | 4.49 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 4.20 | 9.30 | 5.52 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.90 | 12.05 |
| | B35HE011 | 4.86 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 10.07 | 5.98 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 6.39 | 13.06 |
| | B35HE012 | 5.32 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 4.97 | 11.02 | 6.54 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 6.99 | 14.28 |
| | B35HE013 | 5.89 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 5.51 | 12.20 | 7.25 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 15.83 |
| | B35HE014 | 6.74 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 6.31 | 13.97 | 8.29 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 8.87 | 18.11 |
| | B35HE015 | 7.33 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 | 15.18 | 9.02 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 9.64 | 19.69 |
| | B35HE016 | 8.75 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 8.19 | 18.13 | 10.77 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 11.51 | 23.51 |
| | B35HE017 | 10.07 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 9.42 | 20.86 | 12.39 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 13.24 | 27.05 |
| | B35HE018 | 0.87 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 1.81 | 1.12 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.19 | 2.45 |
| | B35HE019 | 0.99 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 2.07 | 1.28 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.37 | 2.81 |
| | B35HE020 | 1.42 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 | 2.96 | 1.82 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 3.99 |
| | B35HE021 | 1.79 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 3.74 | 2.30 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 2.46 | 5.04 |
| | B35HE022 | 2.07 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 1.93 | 4.31 | 2.66 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 2.84 | 5.82 |
| | B35HE023 | 2.47 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 2.31 | 5.15 | 3.17 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 3.39 | 6.95 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B35*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B35HE024 | 2.72 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 5.68 | 3.50 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 3.74 | 7.67 |
| | B35HE025 | 3.53 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.30 | 7.36 | 4.54 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 4.85 | 9.94 |
| | B35HE026 | 3.60 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.37 | 7.51 | 4.63 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 4.95 | 10.14 |
| | B35HE027 | 4.37 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 4.09 | 9.12 | 5.62 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 12.32 |
| | B35HE028 | 4.52 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 4.23 | 9.43 | 5.81 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 6.21 | 12.73 |
| | B35HE029 | 5.21 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 4.88 | 10.88 | 6.70 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 7.16 | 14.68 |
| | B35HE030 | 5.74 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 5.37 | 11.98 | 7.38 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 7.89 | 16.17 |
| | B35HE031 | 6.99 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.54 | 14.59 | 8.99 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 9.61 | 19.70 |
| | B35HE032 | 7.45 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 6.97 | 15.55 | 9.58 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 10.24 | 20.99 |
| | B35HE033 | 9.49 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 8.88 | 19.80 | 12.20 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 13.04 | 26.73 |
| | B35HE034 | 10.57 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 9.89 | 22.06 | 13.60 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 14.53 | 29.79 |
| | B35HE035 | 2.92 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 2.73 | 6.13 | 3.65 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 3.90 | 8.05 |
| | B35HE036 | 3.05 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 2.85 | 6.41 | 3.81 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 4.07 | 8.40 |
| | B35HE037 | 3.43 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 3.21 | 7.21 | 4.29 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.58 | 9.46 |
| | B35HE038 | 4.66 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 4.36 | 9.79 | 5.82 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 6.22 | 12.84 |
| | B35HE039 | 5.21 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 4.87 | 10.94 | 6.51 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 6.96 | 14.36 |
| | B35HE040 | 5.38 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 11.30 | 6.72 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 7.19 | 14.83 |
| | B35HE041 | 5.76 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 5.39 | 12.10 | 7.20 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 7.69 | 15.87 |
| | B35HE042 | 7.41 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 6.93 | 15.57 | 9.26 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 9.90 | 20.42 |
| | B35HE043 | 7.62 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 7.13 | 16.01 | 9.53 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 10.18 | 21.01 |
| | B35HE044 | 9.91 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 9.27 | 20.82 | 12.39 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 13.24 | 27.32 |
| | B35HE045 | 10.25 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 9.59 | 21.54 | 12.81 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 13.70 | 28.26 |
| | B35HE046 | 12.19 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 11.41 | 25.62 | 15.24 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 16.29 | 33.61 |
| | B35HE047 | 12.96 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 12.13 | 27.24 | 16.20 | 2.21 | 0.00 | 0.00 | 0.00 | 0.00 | 17.32 | 35.73 |
| | B35SA001 | 2.24 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 2.09 | 4.64 | 2.75 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 6.01 |
| | B35SA003 | 3.36 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 6.96 | 4.13 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 4.42 | 9.02 |
| | B35SA004 | 4.61 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 4.31 | 9.55 | 5.67 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.06 | 12.38 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B35*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B35SA005 | 5.78 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 5.41 | 11.98 | 7.11 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 7.60 | 15.52 |
| | B35SA006 | 6.81 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 6.37 | 14.11 | 8.38 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 8.96 | 18.30 |
| | B35SA007 | 7.66 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 7.17 | 15.88 | 9.43 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 10.08 | 20.59 |
| | B35SA008 | 9.05 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 8.47 | 18.76 | 11.14 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 11.91 | 24.33 |
| | B35SA009 | 11.48 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 10.74 | 23.79 | 14.13 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 15.10 | 30.85 |
| | B35SA010 | 14.02 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 13.11 | 29.04 | 17.25 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 18.44 | 37.67 |
| | B35XX001 | 3.62 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 3.39 | 7.50 | 4.46 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.77 | 9.74 |
| | B35XX002 | 4.07 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 8.44 | 5.01 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 5.36 | 10.94 |
| | B35XX003 | 4.50 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 4.21 | 9.32 | 5.54 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.93 | 12.11 |
| | B35XX004 | 5.14 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 4.81 | 10.65 | 6.32 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 6.76 | 13.80 |
| | B35XX005 | 5.77 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 5.39 | 11.95 | 7.10 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 7.59 | 15.50 |
| | B35XX006 | 7.09 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 6.63 | 14.69 | 8.73 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.33 | 19.06 |
| | B35XX007 | 3.63 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 7.58 | 4.67 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 10.24 |
| | B35XX008 | 4.16 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 3.89 | 8.68 | 5.35 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 5.71 | 11.71 |
| | B35XX009 | 4.48 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 9.35 | 5.76 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 6.15 | 12.61 |
| | B35XX010 | 5.33 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 4.98 | 11.12 | 6.85 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 7.32 | 15.00 |
| | B35XX011 | 5.89 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 5.51 | 12.29 | 7.58 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 8.10 | 16.60 |
| | B35XX012 | 7.46 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 6.98 | 15.57 | 9.60 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 10.26 | 21.03 |
| | B35XX013 | 0.82 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 1.73 | 1.02 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 2.26 |
| | B35XX014 | 0.92 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 1.93 | 1.15 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.23 | 2.54 |
| | B35XX015 | 1.37 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 2.88 | 1.71 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 1.83 | 3.77 |
| | B35XX016 | 1.57 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 1.47 | 3.30 | 1.96 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 2.09 | 4.32 |
| | B35XX017 | 1.71 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 3.59 | 2.14 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 2.29 | 4.72 |
| | B35XX018 | 3.67 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 3.44 | 7.72 | 4.59 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 4.91 | 10.13 |
| | B35XX019 | 3.93 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 3.67 | 8.25 | 4.91 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 5.24 | 10.82 |
| | B35XX020 | 4.42 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 4.14 | 9.29 | 5.53 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 5.91 | 12.20 |
| | B35XX021 | 4.83 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 4.52 | 10.15 | 6.03 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 6.45 | 13.30 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***B35*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | B35XX022 | 6.07 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 5.68 | 12.76 | 7.59 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 8.11 | 16.74 |
| | B35XX023 | 6.51 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 6.09 | 13.68 | 8.14 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 8.70 | 17.95 |
| **C05** | | | | | | | | | | | | | | | | | |
| | C05OL001 | 0.16 | 0.01 | 0.59 | 0.09 | 0.00 | 0.00 | 0.56 | 1.41 | | | | | | | | |
| | C05OL002 | 0.25 | 0.01 | 1.21 | 0.19 | 0.00 | 0.00 | 0.88 | 2.54 | | | | | | | | |
| | C05OL003 | 0.30 | 0.01 | 1.34 | 0.21 | 0.00 | 0.00 | 1.06 | 2.92 | | | | | | | | |
| | C05OL004 | 0.33 | 0.02 | 1.46 | 0.23 | 0.00 | 0.00 | 1.15 | 3.19 | | | | | | | | |
| **C10** | | | | | | | | | | | | | | | | | |
| | C10BO001 | 1.11 | 0.08 | 0.77 | 0.09 | 0.00 | 0.00 | 1.77 | 3.82 | | | | | | | | |
| | C10BO003 | 0.61 | 0.04 | 1.03 | 0.12 | 0.00 | 0.00 | 0.97 | 2.77 | | | | | | | | |
| | C10BO004 | 0.68 | 0.05 | 1.54 | 0.18 | 0.00 | 0.00 | 1.07 | 3.52 | | | | | | | | |
| | C10BO007 | 2.76 | 0.20 | 0.50 | 0.06 | 0.00 | 0.00 | 4.38 | 7.90 | | | | | | | | |
| | C10BO008 | 3.76 | 0.27 | 1.13 | 0.13 | 0.00 | 0.00 | 5.97 | 11.26 | | | | | | | | |
| | C10BO009 | 1.41 | 0.12 | 1.03 | 0.12 | 0.00 | 0.00 | 2.50 | 5.18 | | | | | | | | |
| | C10BO011 | 3.78 | 0.32 | 1.00 | 0.12 | 0.00 | 0.00 | 6.71 | 11.93 | | | | | | | | |
| | C10BO013 | 10.00 | 0.84 | 2.39 | 0.28 | 0.00 | 0.00 | 17.74 | 31.25 | | | | | | | | |
| | C10BO015 | 3.25 | 0.27 | 0.63 | 0.07 | 0.00 | 0.00 | 5.77 | 9.99 | | | | | | | | |
| | C10BO016 | 4.75 | 0.40 | 1.13 | 0.13 | 0.00 | 0.00 | 8.42 | 14.83 | | | | | | | | |
| | C10RX001 | 6.55 | 0.55 | 1.00 | 0.12 | 0.00 | 0.00 | 11.62 | 19.84 | | | | | | | | |
| | C10RX002 | 9.06 | 0.76 | 1.76 | 0.20 | 0.00 | 0.00 | 16.08 | 27.86 | | | | | | | | |
| | C10RX003 | 15.20 | 1.28 | 4.14 | 0.48 | 0.00 | 0.00 | 26.97 | 48.07 | | | | | | | | |
| | C10WC003 | 0.92 | 0.07 | 0.50 | 0.06 | 0.00 | 0.00 | 1.46 | 3.01 | | | | | | | | |
| | C10WC006 | 1.13 | 0.08 | 1.41 | 0.16 | 0.00 | 0.00 | 1.79 | 4.57 | | | | | | | | |
| | C10WC007 | 1.73 | 0.13 | 2.31 | 0.27 | 0.00 | 0.00 | 2.75 | 7.19 | | | | | | | | |
| | C10WC008 | 3.11 | 0.23 | 1.13 | 0.13 | 0.00 | 0.00 | 4.94 | 9.54 | | | | | | | | |
| | C10WC010 | 2.11 | 0.18 | 2.82 | 0.33 | 0.00 | 0.00 | 3.75 | 9.19 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C10WC015 | 6.22 | 0.45 | 1.76 | 0.20 | 0.00 | 0.00 | 9.88 | 18.51 | | | | | | | | |
| | C10WC016 | 6.92 | 0.58 | 2.51 | 0.29 | 0.00 | 0.00 | 12.28 | 22.58 | | | | | | | | |
| | C10WC017 | 2.80 | 0.24 | 1.13 | 0.13 | 0.00 | 0.00 | 4.97 | 9.27 | | | | | | | | |
| | C10WC019 | 6.56 | 0.55 | 2.51 | 0.29 | 0.00 | 0.00 | 11.64 | 21.55 | | | | | | | | |
| **C15** | | | | | | | | | | | | | | | | | |
| | C15BL001 | 2.04 | 0.19 | 0.14 | 0.58 | 0.00 | 0.00 | 2.88 | 5.83 | | | | | | | | |
| | C15BL003 | 9.75 | 0.89 | 0.68 | 1.91 | 0.00 | 0.00 | 13.78 | 27.01 | | | | | | | | |
| | C15BL004 | 11.41 | 1.04 | 1.02 | 2.37 | 0.00 | 0.00 | 16.12 | 31.96 | | | | | | | | |
| | C15BL005 | 16.72 | 1.53 | 2.04 | 3.23 | 0.00 | 0.00 | 23.64 | 47.16 | | | | | | | | |
| | C15BL006 | 0.64 | 0.10 | 45.99 | 6.23 | 0.00 | 0.00 | 0.91 | 53.87 | | | | | | | | |
| | C15ED001 | 1.49 | 0.14 | 2.20 | 0.34 | 0.00 | 0.00 | 2.10 | 6.27 | | | | | | | | |
| | C15ED002 | 0.92 | 0.08 | 1.80 | 0.28 | 0.00 | 0.00 | 1.30 | 4.38 | | | | | | | | |
| | C15XX001 | 13.51 | 2.23 | 25.92 | 3.51 | 0.38 | 0.06 | 19.15 | 64.76 | | | | | | | | |
| **C20** | | | | | | | | | | | | | | | | | |
| | C20WC002 | 2.18 | 0.22 | 2.60 | 0.40 | 0.18 | 0.03 | 2.43 | 8.04 | | | | | | | | |
| | C20XX001 | 1.53 | 0.15 | 1.60 | 0.25 | 0.13 | 0.02 | 1.71 | 5.39 | | | | | | | | |
| **C25** | | | | | | | | | | | | | | | | | |
| | C25AJ001 | 0.76 | 0.08 | 1.20 | 0.19 | 0.00 | 0.00 | 0.95 | 3.18 | | | | | | | | |
| | C25AJ003 | 1.07 | 0.12 | 1.20 | 0.19 | 0.00 | 0.00 | 1.35 | 3.93 | | | | | | | | |
| | C25AJ004 | 1.53 | 0.17 | 1.60 | 0.25 | 0.00 | 0.00 | 1.92 | 5.47 | | | | | | | | |
| | C25AJ005 | 1.80 | 0.20 | 2.20 | 0.34 | 0.00 | 0.00 | 2.26 | 6.80 | | | | | | | | |
| | C25AJ006 | 2.14 | 0.23 | 2.20 | 0.34 | 0.00 | 0.00 | 2.69 | 7.60 | | | | | | | | |
| | C25AJ007 | 2.28 | 0.25 | 2.20 | 0.34 | 0.00 | 0.00 | 2.86 | 7.93 | | | | | | | | |
| | C25AJ008 | 1.41 | 0.28 | 1.03 | 0.21 | 0.00 | 0.00 | 1.52 | 4.45 | | | | | | | | |
| | C25AJ009 | 1.50 | 0.30 | 1.03 | 0.21 | 0.00 | 0.00 | 1.61 | 4.65 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C25AJ010 | 1.60 | 0.32 | 1.03 | 0.21 | 0.00 | 0.00 | 1.72 | 4.88 | | | | | | | | |
| | C25AJ011 | 1.72 | 0.34 | 1.03 | 0.21 | 0.00 | 0.00 | 1.85 | 5.15 | | | | | | | | |
| | C25AJ012 | 1.82 | 0.36 | 1.03 | 0.21 | 0.00 | 0.00 | 1.96 | 5.38 | | | | | | | | |
| | C25AJ013 | 1.93 | 0.38 | 1.03 | 0.21 | 0.00 | 0.00 | 2.08 | 5.63 | | | | | | | | |
| | C25AJ015 | 2.01 | 0.22 | 3.99 | 0.62 | 0.00 | 0.00 | 2.53 | 9.37 | | | | | | | | |
| | C25AJ016 | 2.11 | 0.23 | 3.99 | 0.62 | 0.00 | 0.00 | 2.65 | 9.60 | | | | | | | | |
| | C25AJ018 | 2.45 | 0.27 | 4.99 | 0.77 | 0.00 | 0.00 | 3.08 | 11.56 | | | | | | | | |
| | C25AJ019 | 3.55 | 0.39 | 5.59 | 0.86 | 0.00 | 0.00 | 4.46 | 14.85 | | | | | | | | |
| | C25ST001 | 0.42 | 0.05 | 1.60 | 0.25 | 0.00 | 0.00 | 0.53 | 2.85 | | | | | | | | |
| | C25ST002 | 0.43 | 0.05 | 1.80 | 0.28 | 0.00 | 0.00 | 0.54 | 3.10 | | | | | | | | |
| | C25SV001 | 27.02 | 5.37 | 5.88 | 1.07 | 0.41 | 0.07 | 29.18 | 69.00 | | | | | | | | |
| | C25SV002 | 25.42 | 5.04 | 5.88 | 1.07 | 0.31 | 0.05 | 27.43 | 65.20 | | | | | | | | |
| | C25SV003 | 12.71 | 2.54 | 2.72 | 0.50 | 0.28 | 0.05 | 13.74 | 32.54 | | | | | | | | |
| | C25WC002 | 0.52 | 0.06 | 1.60 | 0.25 | 0.00 | 0.00 | 0.65 | 3.08 | | | | | | | | |
| **C35** | | | | | | | | | | | | | | | | | |
| | C35AF001 | 2.90 | 0.46 | 0.00 | 0.30 | 0.03 | 0.01 | 4.38 | 8.08 | | | | | | | | |
| | C35AF002 | 1.56 | 0.25 | 0.00 | 2.00 | 0.03 | 0.01 | 2.37 | 6.22 | | | | | | | | |
| | C35AF004 | 4.65 | 0.75 | 3.15 | 2.43 | 0.05 | 0.01 | 7.03 | 18.07 | | | | | | | | |
| | C35AF005 | 6.92 | 1.12 | 5.68 | 2.77 | 0.12 | 0.02 | 10.47 | 27.10 | | | | | | | | |
| | C35AL002 | 4.58 | 0.75 | 3.15 | 1.43 | 0.20 | 0.03 | 6.97 | 17.11 | | | | | | | | |
| | C35AL003 | 1.52 | 0.27 | 0.36 | 0.39 | 0.20 | 0.03 | 2.36 | 5.13 | | | | | | | | |
| | C35AL008 | 2.74 | 0.44 | 0.00 | 0.30 | 0.00 | 0.00 | 4.14 | 7.62 | | | | | | | | |
| | C35AL013 | 1.35 | 0.23 | 0.00 | 0.40 | 0.10 | 0.02 | 2.07 | 4.17 | | | | | | | | |
| | C35AL014 | 7.15 | 1.14 | 6.41 | 1.37 | 0.05 | 0.01 | 10.80 | 26.93 | | | | | | | | |
| | C35AV006 | 10.20 | 1.63 | 1.46 | 2.79 | 0.11 | 0.02 | 15.41 | 31.62 | | | | | | | | |
| | C35AV008 | 3.06 | 0.49 | 0.51 | 2.28 | 0.00 | 0.00 | 4.61 | 10.95 | | | | | | | | |
| | C35AV009 | 3.73 | 0.59 | 1.16 | 2.63 | 0.00 | 0.00 | 5.63 | 13.74 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C35*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C35AV010 | 6.73 | 1.07 | 1.89 | 3.03 | 0.00 | 0.00 | 10.15 | 22.87 | | | | | | | | |
| | C35AV011 | 5.21 | 0.83 | 0.87 | 2.47 | 0.00 | 0.00 | 7.85 | 17.23 | | | | | | | | |
| | C35AV012 | 15.43 | 2.45 | 1.46 | 3.29 | 0.00 | 0.00 | 23.27 | 45.90 | | | | | | | | |
| **C40** | | | | | | | | | | | | | | | | | |
| | C40CC001 | 4.28 | 0.47 | 0.68 | 0.41 | 0.00 | 0.00 | 5.37 | 11.21 | | | | | | | | |
| | C40MU001 | 0.50 | 0.06 | 1.60 | 0.25 | 0.03 | 0.01 | 0.64 | 3.09 | | | | | | | | |
| | C40MU002 | 1.04 | 0.12 | 2.60 | 0.40 | 0.03 | 0.01 | 1.31 | 5.51 | | | | | | | | |
| | C40MU003 | 0.50 | 0.06 | 1.60 | 0.25 | 0.03 | 0.01 | 0.64 | 3.09 | | | | | | | | |
| | C40MU004 | 0.58 | 0.07 | 1.60 | 0.25 | 0.03 | 0.01 | 0.74 | 3.28 | | | | | | | | |
| | C40ST001 | 0.33 | 0.04 | 0.03 | 0.22 | 0.03 | 0.01 | 0.42 | 1.08 | | | | | | | | |
| | C40ST002 | 0.36 | 0.04 | 1.10 | 0.17 | 0.03 | 0.01 | 0.46 | 2.17 | | | | | | | | |
| | C40ST003 | 0.43 | 0.05 | 0.14 | 0.33 | 0.03 | 0.01 | 0.55 | 1.54 | | | | | | | | |
| | C40ST005 | 0.57 | 0.07 | 0.10 | 0.36 | 0.03 | 0.01 | 0.72 | 1.86 | | | | | | | | |
| | C40XX001 | 0.58 | 0.06 | 0.14 | 0.28 | 0.00 | 0.00 | 0.72 | 1.78 | | | | | | | | |
| | C40XX002 | 0.61 | 0.07 | 1.40 | 0.22 | 0.00 | 0.00 | 0.77 | 3.07 | | | | | | | | |
| | C40XX003 | 0.87 | 0.10 | 0.20 | 0.32 | 0.00 | 0.00 | 1.10 | 2.59 | | | | | | | | |
| | C40XX004 | 0.88 | 0.10 | 1.60 | 0.25 | 0.00 | 0.00 | 1.11 | 3.94 | | | | | | | | |
| | C40XX005 | 1.15 | 0.13 | 0.34 | 0.46 | 0.00 | 0.00 | 1.44 | 3.52 | | | | | | | | |
| | C40XX006 | 1.59 | 0.17 | 0.34 | 0.46 | 0.00 | 0.00 | 2.00 | 4.56 | | | | | | | | |
| | C40XX007 | 1.49 | 0.16 | 1.80 | 0.28 | 0.00 | 0.00 | 1.87 | 5.60 | | | | | | | | |
| **C45** | | | | | | | | | | | | | | | | | |
| | C45GO010 | 20.99 | 2.67 | 9.67 | 1.31 | 0.00 | 0.00 | 33.11 | 67.75 | | | | | | | | |
| | C45GO011 | 32.30 | 4.11 | 19.45 | 2.63 | 0.00 | 0.00 | 50.96 | 109.45 | | | | | | | | |
| | C45GO012 | 43.19 | 5.49 | 17.77 | 2.41 | 0.00 | 0.00 | 68.13 | 136.99 | | | | | | | | |
| | C45GO013 | 17.37 | 2.21 | 9.67 | 1.31 | 0.00 | 0.00 | 27.40 | 57.96 | | | | | | | | |
| | C45GO014 | 23.99 | 3.05 | 10.30 | 1.39 | 0.00 | 0.00 | 37.84 | 76.57 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C45*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C45GO016 | 46.96 | 5.97 | 24.18 | 3.27 | 0.00 | 0.00 | 74.08 | 154.46 | | | | | | | | |
| | C45GO018 | 58.57 | 7.45 | 35.22 | 4.77 | 0.00 | 0.00 | 92.39 | 198.40 | | | | | | | | |
| | C45GO020 | 69.30 | 8.82 | 47.30 | 6.41 | 0.00 | 0.00 | 109.33 | 241.16 | | | | | | | | |
| | C45GO026 | 7.51 | 0.96 | 7.76 | 1.20 | 0.00 | 0.00 | 11.84 | 29.27 | | | | | | | | |
| | C45GO027 | 9.56 | 1.22 | 5.26 | 0.71 | 0.00 | 0.00 | 15.07 | 31.82 | | | | | | | | |
| | C45GO028 | 15.18 | 1.93 | 5.26 | 0.71 | 0.00 | 0.00 | 23.94 | 47.02 | | | | | | | | |
| | C45GO029 | 10.10 | 1.29 | 7.76 | 1.20 | 0.00 | 0.00 | 15.93 | 36.28 | | | | | | | | |
| | C45GO031 | 56.81 | 7.23 | 40.47 | 5.48 | 0.00 | 0.00 | 89.62 | 199.61 | | | | | | | | |
| | C45MJ001 | 1.02 | 0.13 | 3.23 | 0.50 | 0.00 | 0.00 | 1.61 | 6.49 | | | | | | | | |
| | C45MW002 | 6.19 | 0.80 | 2.73 | 0.37 | 0.09 | 0.02 | 9.79 | 19.99 | | | | | | | | |
| | C45MW003 | 7.86 | 1.01 | 2.73 | 0.37 | 0.12 | 0.02 | 12.42 | 24.53 | | | | | | | | |
| **C55** | | | | | | | | | | | | | | | | | |
| | C55M3001 | 2.66 | 0.37 | 9.19 | 1.42 | 0.05 | 0.01 | 3.72 | 17.42 | | | | | | | | |
| | C55M3002 | 6.03 | 0.82 | 5.96 | 0.81 | 0.00 | 0.00 | 8.42 | 22.04 | | | | | | | | |
| | C55M3003 | 7.09 | 0.97 | 10.52 | 1.42 | 0.00 | 0.00 | 9.90 | 29.90 | | | | | | | | |
| | C55OE001 | 30.12 | 4.11 | 0.00 | 0.00 | 0.00 | 0.00 | 42.03 | 76.26 | | | | | | | | |
| | C55OE002 | 38.64 | 5.28 | 0.00 | 0.00 | 0.00 | 0.00 | 53.92 | 97.84 | | | | | | | | |
| | C55OE003 | 58.77 | 8.03 | 0.00 | 0.00 | 0.00 | 0.00 | 82.02 | 148.82 | | | | | | | | |
| | C55OE006 | 5.64 | 0.78 | 7.35 | 1.00 | 0.10 | 0.02 | 7.88 | 22.77 | | | | | | | | |
| | C55OE009 | 10.64 | 1.47 | 12.61 | 1.71 | 0.19 | 0.03 | 14.86 | 41.51 | | | | | | | | |
| | C55OE011 | 9.84 | 1.36 | 17.97 | 2.43 | 0.19 | 0.03 | 13.74 | 45.56 | | | | | | | | |
| | C55OE012 | 12.51 | 1.73 | 17.97 | 2.43 | 0.19 | 0.03 | 17.48 | 52.34 | | | | | | | | |
| | C55SC001 | 8.15 | 1.12 | 7.94 | 1.08 | 0.05 | 0.01 | 11.39 | 29.74 | | | | | | | | |
| | C55SC002 | 19.88 | 2.73 | 17.57 | 2.38 | 0.20 | 0.03 | 27.77 | 70.56 | | | | | | | | |
| | C55SC005 | 41.72 | 5.76 | 24.56 | 3.33 | 0.76 | 0.13 | 58.28 | 134.54 | | | | | | | | |
| | C55SC006 | 49.90 | 6.87 | 24.56 | 3.33 | 0.76 | 0.13 | 69.70 | 155.25 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **C60** | | | | | | | | | | | | | | | | | |
| | C60CQ001 | 1.95 | 0.21 | 8.99 | 1.39 | 0.00 | 0.00 | 2.72 | 15.26 | | | | | | | | |
| | C60CQ002 | 0.44 | 0.05 | 2.31 | 0.36 | 0.00 | 0.00 | 0.61 | 3.77 | | | | | | | | |
| | C60CQ003 | 0.47 | 0.05 | 3.34 | 0.52 | 0.00 | 0.00 | 0.66 | 5.04 | | | | | | | | |
| | C60CQ010 | 2.02 | 0.22 | 8.99 | 1.39 | 0.00 | 0.00 | 2.82 | 15.44 | | | | | | | | |
| | C60CQ011 | 3.37 | 0.36 | 8.29 | 1.52 | 0.00 | 0.00 | 4.70 | 18.24 | | | | | | | | |
| | C60CQ012 | 3.38 | 0.36 | 8.29 | 1.52 | 0.00 | 0.00 | 4.71 | 18.26 | | | | | | | | |
| | C60CQ013 | 3.41 | 0.37 | 8.29 | 1.52 | 0.00 | 0.00 | 4.75 | 18.34 | | | | | | | | |
| | C60CQ014 | 2.09 | 0.22 | 2.62 | 1.42 | 0.00 | 0.00 | 2.92 | 9.27 | | | | | | | | |
| | C60CQ016 | 4.29 | 0.46 | 10.55 | 1.94 | 0.00 | 0.00 | 5.99 | 23.23 | | | | | | | | |
| | C60FE002 | 0.23 | 0.02 | 0.51 | 0.08 | 0.00 | 0.00 | 0.32 | 1.16 | | | | | | | | |
| | C60FE006 | 0.47 | 0.05 | 2.31 | 0.36 | 0.00 | 0.00 | 0.66 | 3.85 | | | | | | | | |
| | C60FE007 | 0.50 | 0.05 | 3.34 | 0.52 | 0.00 | 0.00 | 0.69 | 5.10 | | | | | | | | |
| | C60FE009 | 1.59 | 0.17 | 5.14 | 0.79 | 0.00 | 0.00 | 2.21 | 9.90 | | | | | | | | |
| | C60LY001 | 4.03 | 0.43 | 2.57 | 0.40 | 0.00 | 0.00 | 5.63 | 13.06 | | | | | | | | |
| | C60LY002 | 5.96 | 0.64 | 8.99 | 1.39 | 0.00 | 0.00 | 8.32 | 25.30 | | | | | | | | |
| | C60LY005 | 0.47 | 0.05 | 3.34 | 0.52 | 0.00 | 0.00 | 0.65 | 5.03 | | | | | | | | |
| | C60LY011 | 11.55 | 1.24 | 4.02 | 0.74 | 0.00 | 0.00 | 16.11 | 33.66 | | | | | | | | |
| **C65** | | | | | | | | | | | | | | | | | |
| | C65ST007 | 0.21 | 0.02 | 0.06 | 0.03 | 0.00 | 0.00 | 0.77 | 1.09 | | | | | | | | |
| | C65ST008 | 0.22 | 0.02 | 0.13 | 0.07 | 0.00 | 0.00 | 0.80 | 1.24 | | | | | | | | |
| | C65ST009 | 0.26 | 0.02 | 0.19 | 0.10 | 0.00 | 0.00 | 0.94 | 1.51 | | | | | | | | |
| | C65ST013 | 0.47 | 0.04 | 1.03 | 0.16 | 0.00 | 0.00 | 1.74 | 3.44 | | | | | | | | |
| | C65WC003 | 0.35 | 0.03 | 0.13 | 0.21 | 0.00 | 0.00 | 1.30 | 2.02 | | | | | | | | |
| | C65WC004 | 0.23 | 0.02 | 0.19 | 0.24 | 0.00 | 0.00 | 0.83 | 1.51 | | | | | | | | |
| | C65WC005 | 0.43 | 0.03 | 0.94 | 0.15 | 0.00 | 0.00 | 1.58 | 3.13 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| C75 | | | | | | | | | | | | | | | | | |
| | C75BD004 | 5.19 | 1.29 | 9.05 | 1.40 | 0.34 | 0.06 | 5.89 | 23.22 | | | | | | | | |
| | C75BD005 | 6.55 | 1.64 | 14.87 | 2.30 | 0.44 | 0.08 | 7.43 | 33.31 | | | | | | | | |
| | C75BD006 | 9.56 | 2.39 | 23.71 | 3.67 | 0.74 | 0.13 | 10.85 | 51.05 | | | | | | | | |
| | C75BD007 | 3.77 | 0.94 | 8.19 | 1.27 | 0.17 | 0.03 | 4.27 | 18.64 | | | | | | | | |
| | C75BD008 | 5.02 | 1.24 | 9.05 | 1.40 | 0.17 | 0.03 | 5.68 | 22.59 | | | | | | | | |
| | C75BD009 | 6.77 | 1.69 | 14.87 | 2.30 | 0.44 | 0.08 | 7.68 | 33.83 | | | | | | | | |
| | C75BD010 | 11.34 | 2.83 | 8.94 | 1.30 | 0.74 | 0.13 | 12.87 | 38.15 | | | | | | | | |
| | C75BD011 | 15.03 | 3.75 | 13.67 | 1.98 | 1.59 | 0.27 | 17.04 | 53.33 | | | | | | | | |
| | C75GV014 | 30.32 | 7.89 | 25.23 | 3.66 | 14.25 | 2.44 | 34.61 | 118.40 | | | | | | | | |
| | C75GV016 | 71.55 | 17.97 | 31.54 | 4.57 | 12.65 | 2.16 | 81.24 | 221.68 | | | | | | | | |
| | C75GV019 | 30.31 | 7.88 | 25.23 | 3.66 | 14.25 | 2.44 | 34.60 | 118.37 | | | | | | | | |
| | C75GV020 | 49.74 | 12.61 | 26.28 | 3.81 | 12.65 | 2.16 | 56.55 | 163.80 | | | | | | | | |
| | C75GV021 | 7.56 | 1.88 | 13.36 | 2.07 | 0.47 | 0.08 | 8.58 | 34.00 | | | | | | | | |
| | C75GV022 | 9.36 | 2.34 | 11.56 | 1.68 | 0.77 | 0.13 | 10.63 | 36.47 | | | | | | | | |
| | C75GV023 | 17.28 | 4.53 | 15.98 | 2.32 | 9.17 | 1.57 | 19.75 | 70.60 | | | | | | | | |
| | C75GV024 | 26.95 | 6.90 | 18.19 | 2.64 | 9.17 | 1.57 | 30.69 | 96.11 | | | | | | | | |
| | C75GV025 | 49.24 | 12.54 | 26.28 | 3.81 | 13.50 | 2.31 | 56.02 | 163.70 | | | | | | | | |
| | C75GV028 | 17.50 | 4.39 | 15.98 | 2.32 | 2.55 | 0.44 | 19.87 | 63.05 | | | | | | | | |
| | C75PB002 | 29.20 | 7.31 | 19.45 | 2.82 | 2.47 | 0.42 | 33.13 | 94.80 | | | | | | | | |
| | C75TD003 | 23.40 | 5.86 | 18.92 | 2.74 | 3.54 | 0.61 | 26.56 | 81.63 | | | | | | | | |
| | C75TD007 | 43.36 | 11.04 | 25.96 | 3.76 | 6.96 | 1.19 | 49.34 | 141.61 | | | | | | | | |
| | C75TD008 | 40.09 | 10.23 | 25.96 | 3.76 | 12.42 | 2.12 | 45.63 | 140.21 | | | | | | | | |
| | C75TE001 | 22.17 | 5.52 | 13.67 | 1.98 | 1.90 | 0.32 | 25.14 | 70.70 | | | | | | | | |
| | C75TE002 | 30.39 | 7.58 | 15.98 | 2.32 | 3.11 | 0.53 | 34.47 | 94.38 | | | | | | | | |
| C80 | | | | | | | | | | | | | | | | | |
| | C80GV006 | 37.69 | 10.56 | 36.21 | 4.56 | 1.28 | 0.22 | 37.37 | 127.89 | 43.07 | 10.66 | 47.89 | 6.03 | 4.98 | 0.85 | 45.75 | 159.23 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C80*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C80GV013 | 89.15 | 30.88 | 26.07 | 3.28 | 8.87 | 1.52 | 113.63 | 273.40 | 99.06 | 31.03 | 33.21 | 4.18 | 35.98 | 6.15 | 133.38 | 342.99 |
| | C80GV014 | 89.39 | 30.96 | 26.07 | 3.28 | 8.87 | 1.52 | 113.94 | 274.03 | 99.32 | 31.11 | 33.21 | 4.18 | 35.98 | 6.15 | 133.73 | 343.68 |
| | C80GV015 | 89.77 | 31.09 | 26.07 | 3.28 | 8.87 | 1.52 | 114.42 | 275.02 | 99.74 | 31.24 | 33.21 | 4.18 | 35.98 | 6.15 | 134.30 | 344.80 |
| | C80GV016 | 126.58 | 43.78 | 23.97 | 3.02 | 10.46 | 1.79 | 161.30 | 370.90 | 140.64 | 44.00 | 30.59 | 3.85 | 41.83 | 7.15 | 189.32 | 457.38 |
| | C80GV020 | 40.91 | 12.80 | 36.21 | 4.56 | 1.76 | 0.30 | 46.35 | 142.89 | 46.02 | 12.91 | 47.89 | 6.03 | 6.88 | 1.18 | 55.40 | 176.31 |
| | C80GV025 | 24.60 | 6.90 | 27.16 | 3.42 | 1.03 | 0.18 | 24.39 | 87.68 | 28.11 | 6.97 | 35.92 | 4.52 | 4.03 | 0.69 | 29.87 | 110.11 |
| | C80GV026 | 37.04 | 10.41 | 31.50 | 3.96 | 1.88 | 0.32 | 36.74 | 121.85 | 42.33 | 10.51 | 41.66 | 5.24 | 7.36 | 1.26 | 44.98 | 153.34 |
| | C80GV029 | 37.47 | 10.55 | 36.21 | 4.56 | 2.25 | 0.38 | 37.18 | 128.60 | 42.82 | 10.65 | 47.89 | 6.03 | 8.90 | 1.52 | 45.52 | 163.33 |
| | C80GV030 | 37.53 | 10.57 | 36.21 | 4.56 | 2.25 | 0.38 | 37.24 | 128.74 | 42.89 | 10.67 | 47.89 | 6.03 | 8.90 | 1.52 | 45.60 | 163.50 |
| | C80GV031 | 37.83 | 11.87 | 36.21 | 4.56 | 2.25 | 0.38 | 42.88 | 135.98 | 42.56 | 11.97 | 47.89 | 6.03 | 8.90 | 1.52 | 51.25 | 170.12 |
| | C80GV032 | 50.26 | 15.82 | 38.20 | 4.81 | 6.83 | 1.17 | 56.99 | 174.08 | 56.54 | 15.95 | 50.52 | 6.36 | 26.77 | 4.58 | 68.12 | 228.84 |
| | C80LI009 | 30.21 | 8.50 | 31.68 | 3.99 | 1.64 | 0.28 | 29.97 | 106.27 | 34.52 | 8.58 | 41.90 | 5.27 | 6.59 | 1.13 | 36.69 | 134.68 |
| | C80LI010 | 26.83 | 7.57 | 28.51 | 3.59 | 1.95 | 0.33 | 26.63 | 95.41 | 30.66 | 7.65 | 37.71 | 4.75 | 7.70 | 1.32 | 32.60 | 122.39 |
| | C80LI011 | 30.68 | 8.66 | 33.04 | 4.16 | 2.25 | 0.38 | 30.46 | 109.63 | 35.07 | 8.75 | 43.70 | 5.50 | 8.91 | 1.52 | 37.29 | 140.74 |
| | C80TD001 | 34.82 | 11.03 | 16.95 | 2.14 | 3.94 | 0.67 | 39.52 | 109.07 | 39.17 | 11.12 | 21.69 | 2.73 | 15.93 | 2.72 | 47.24 | 140.60 |
| | C80TD002 | 43.61 | 13.76 | 20.75 | 2.61 | 3.83 | 0.65 | 49.47 | 134.68 | 49.06 | 13.87 | 26.66 | 3.35 | 14.99 | 2.56 | 59.12 | 169.61 |
| | C80TD005 | 47.08 | 16.43 | 56.90 | 7.16 | 4.84 | 0.83 | 60.07 | 193.31 | 52.31 | 16.51 | 74.19 | 9.34 | 19.21 | 3.28 | 70.51 | 245.35 |
| | C80TE002 | 19.79 | 5.58 | 22.63 | 2.85 | 1.42 | 0.24 | 19.64 | 72.15 | 22.61 | 5.64 | 29.93 | 3.77 | 5.68 | 0.97 | 24.05 | 92.65 |
| | C80TE003 | 25.83 | 7.31 | 33.49 | 4.21 | 2.15 | 0.37 | 25.65 | 99.01 | 29.53 | 7.38 | 44.30 | 5.58 | 8.53 | 1.46 | 31.41 | 128.19 |
| | C80TE008 | 17.21 | 4.34 | 11.77 | 2.05 | 3.42 | 0.58 | 14.67 | 54.04 | 20.07 | 4.40 | 15.56 | 2.71 | 13.39 | 2.29 | 18.54 | 76.96 |
| | C80XX001 | 8.87 | 2.24 | 22.18 | 3.86 | 0.99 | 0.17 | 7.56 | 45.87 | 10.35 | 2.27 | 29.33 | 5.11 | 3.95 | 0.68 | 9.56 | 61.25 |
| | C80XX002 | 11.53 | 2.92 | 27.16 | 4.73 | 1.56 | 0.27 | 9.84 | 58.01 | 13.45 | 2.96 | 35.92 | 6.26 | 6.27 | 1.07 | 12.43 | 78.36 |
| **C85** | | | | | | | | | | | | | | | | | |
| | C85KC003 | 44.69 | 15.35 | 14.70 | 1.56 | 0.00 | 0.00 | 53.73 | 130.03 | 55.86 | 15.55 | 19.35 | 2.06 | 0.00 | 0.00 | 71.11 | 163.93 |
| | C85KC004 | 28.21 | 9.69 | 9.88 | 1.05 | 0.00 | 0.00 | 33.92 | 82.75 | 35.27 | 9.82 | 12.99 | 1.38 | 0.00 | 0.00 | 44.89 | 104.35 |
| | C85KC005 | 32.54 | 11.17 | 11.82 | 1.26 | 0.00 | 0.00 | 39.13 | 95.92 | 40.68 | 11.32 | 15.55 | 1.65 | 0.00 | 0.00 | 51.78 | 120.98 |
| | C85KC006 | 75.92 | 28.49 | 15.48 | 1.79 | 0.00 | 0.00 | 102.08 | 223.76 | 92.79 | 28.82 | 20.37 | 2.36 | 0.00 | 0.00 | 131.32 | 275.66 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C85*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C85KC007 | 27.30 | 9.35 | 9.88 | 0.96 | 0.00 | 0.00 | 30.78 | 78.27 | 32.76 | 9.45 | 12.99 | 1.26 | 0.00 | 0.00 | 39.40 | 95.86 |
| | C85KC008 | 53.88 | 20.22 | 17.53 | 2.03 | 0.00 | 0.00 | 72.45 | 166.11 | 65.85 | 20.45 | 23.07 | 2.67 | 0.00 | 0.00 | 93.20 | 205.24 |
| | C85LB013 | 36.01 | 12.37 | 14.59 | 1.55 | 0.00 | 0.00 | 43.30 | 107.82 | 45.02 | 12.53 | 19.20 | 2.04 | 0.00 | 0.00 | 57.30 | 136.09 |
| | C85LB014 | 41.02 | 14.09 | 15.76 | 1.67 | 0.00 | 0.00 | 49.32 | 121.86 | 51.28 | 14.27 | 20.73 | 2.20 | 0.00 | 0.00 | 65.28 | 153.76 |
| | C85LB015 | 56.78 | 19.50 | 15.76 | 1.67 | 0.00 | 0.00 | 68.27 | 161.98 | 70.97 | 19.75 | 20.73 | 2.20 | 0.00 | 0.00 | 90.34 | 203.99 |
| | C85LB016 | 65.21 | 24.47 | 15.76 | 1.83 | 0.00 | 0.00 | 87.68 | 194.95 | 79.70 | 24.75 | 20.73 | 2.40 | 0.00 | 0.00 | 112.80 | 240.38 |
| | C85LB017 | 73.60 | 27.62 | 24.41 | 2.83 | 0.00 | 0.00 | 98.98 | 227.44 | 89.96 | 27.94 | 32.12 | 3.72 | 0.00 | 0.00 | 127.32 | 281.06 |
| | C85LB019 | 41.19 | 12.63 | 19.97 | 3.28 | 0.00 | 0.00 | 52.62 | 129.69 | 50.69 | 12.81 | 26.11 | 4.29 | 0.00 | 0.00 | 72.42 | 166.32 |
| | C85LB021 | 59.37 | 20.33 | 21.56 | 2.29 | 0.00 | 0.00 | 84.83 | 188.38 | 71.25 | 20.55 | 28.20 | 3.00 | 0.00 | 0.00 | 112.48 | 235.48 |
| | C85LB022 | 68.66 | 23.51 | 17.99 | 1.91 | 0.00 | 0.00 | 98.09 | 210.16 | 82.39 | 23.77 | 23.53 | 2.50 | 0.00 | 0.00 | 130.07 | 262.26 |
| | C85LB023 | 72.80 | 27.56 | 33.40 | 3.87 | 0.00 | 0.00 | 114.93 | 252.56 | 90.99 | 27.91 | 43.68 | 5.06 | 0.00 | 0.00 | 157.31 | 324.95 |
| | C85LI001 | 29.45 | 10.11 | 11.48 | 1.22 | 0.00 | 0.00 | 35.41 | 87.67 | 36.82 | 10.25 | 15.11 | 1.61 | 0.00 | 0.00 | 46.87 | 110.66 |
| | C85MA001 | 47.07 | 16.12 | 26.57 | 2.82 | 0.00 | 0.00 | 67.25 | 159.83 | 56.48 | 16.29 | 34.75 | 3.69 | 0.00 | 0.00 | 89.17 | 200.38 |
| | C85MA002 | 57.65 | 19.74 | 25.81 | 2.74 | 0.00 | 0.00 | 82.36 | 188.30 | 69.17 | 19.95 | 33.76 | 3.59 | 0.00 | 0.00 | 109.21 | 235.68 |
| | C85MA003 | 77.29 | 29.26 | 28.47 | 3.30 | 0.00 | 0.00 | 122.02 | 260.34 | 96.61 | 29.63 | 37.23 | 4.31 | 0.00 | 0.00 | 167.01 | 334.79 |
| | C85MA004 | 44.50 | 15.28 | 19.42 | 2.06 | 0.00 | 0.00 | 53.50 | 134.76 | 55.62 | 15.48 | 25.55 | 2.71 | 0.00 | 0.00 | 70.80 | 170.16 |
| | C85MA005 | 41.68 | 14.31 | 18.59 | 1.98 | 0.00 | 0.00 | 50.11 | 126.67 | 52.10 | 14.50 | 24.46 | 2.60 | 0.00 | 0.00 | 66.32 | 159.98 |
| | C85MA006 | 52.66 | 19.76 | 18.86 | 2.18 | 0.00 | 0.00 | 70.82 | 164.28 | 64.37 | 19.99 | 24.82 | 2.87 | 0.00 | 0.00 | 91.10 | 203.15 |
| | C85MA007 | 74.31 | 27.89 | 20.81 | 2.41 | 0.00 | 0.00 | 99.92 | 225.34 | 90.82 | 28.21 | 27.38 | 3.17 | 0.00 | 0.00 | 128.54 | 278.12 |
| | C85MA008 | 44.12 | 15.15 | 18.59 | 1.98 | 0.00 | 0.00 | 53.05 | 132.89 | 55.15 | 15.35 | 24.46 | 2.60 | 0.00 | 0.00 | 70.21 | 167.77 |
| | C85MA009 | 67.94 | 25.72 | 25.81 | 2.99 | 0.00 | 0.00 | 107.26 | 229.72 | 84.93 | 26.05 | 33.76 | 3.91 | 0.00 | 0.00 | 146.82 | 295.47 |
| | C85MA010 | 67.25 | 25.24 | 18.86 | 2.18 | 0.00 | 0.00 | 90.44 | 203.97 | 82.20 | 25.53 | 24.82 | 2.87 | 0.00 | 0.00 | 116.33 | 251.75 |
| | C85TE001 | 33.44 | 10.26 | 11.39 | 1.87 | 0.00 | 0.00 | 42.72 | 99.68 | 41.15 | 10.40 | 14.89 | 2.44 | 0.00 | 0.00 | 58.80 | 127.68 |
| | C85TE002 | 46.52 | 14.27 | 18.98 | 3.12 | 0.00 | 0.00 | 59.42 | 142.31 | 57.25 | 14.47 | 24.82 | 4.07 | 0.00 | 0.00 | 81.79 | 182.40 |
| | C85TE003 | 52.08 | 17.83 | 25.43 | 2.70 | 0.00 | 0.00 | 74.41 | 172.45 | 62.49 | 18.03 | 33.26 | 3.53 | 0.00 | 0.00 | 98.66 | 215.97 |
| | C85TE008 | 29.84 | 10.25 | 10.21 | 1.08 | 0.00 | 0.00 | 35.88 | 87.26 | 37.30 | 10.38 | 13.43 | 1.43 | 0.00 | 0.00 | 47.49 | 110.03 |
| | C85TE009 | 36.78 | 12.63 | 12.76 | 1.36 | 0.00 | 0.00 | 44.23 | 107.76 | 45.98 | 12.80 | 16.79 | 1.78 | 0.00 | 0.00 | 58.53 | 135.88 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C85*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C85TE010 | 48.82 | 16.77 | 13.32 | 1.42 | 0.00 | 0.00 | 58.70 | 139.03 | 61.03 | 16.99 | 17.52 | 1.86 | 0.00 | 0.00 | 77.69 | 175.09 |
| | C85TE011 | 65.51 | 24.59 | 17.48 | 2.02 | 0.00 | 0.00 | 88.09 | 197.69 | 80.07 | 24.87 | 23.00 | 2.66 | 0.00 | 0.00 | 113.32 | 243.92 |
| **C90** | | | | | | | | | | | | | | | | | |
| | C90LB001 | 60.55 | 23.16 | 21.21 | 2.67 | 7.98 | 1.36 | 82.06 | 198.99 | 67.27 | 23.27 | 26.71 | 3.36 | 31.90 | 5.45 | 96.32 | 254.28 |
| | C90LB002 | 68.42 | 26.14 | 24.78 | 3.12 | 7.98 | 1.36 | 92.71 | 224.51 | 76.02 | 26.27 | 31.33 | 3.95 | 31.90 | 5.45 | 108.81 | 283.73 |
| | C90LB003 | 110.00 | 42.01 | 37.53 | 4.72 | 11.97 | 2.05 | 149.03 | 357.31 | 122.23 | 42.21 | 47.80 | 6.02 | 47.86 | 8.18 | 174.93 | 449.23 |
| **C95** | | | | | | | | | | | | | | | | | |
| | C95AP004 | 23.89 | 8.18 | 8.07 | 8.88 | 0.00 | 0.00 | 30.52 | 79.54 | | | | | | | | |
| | C95AP005 | 0.77 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 2.01 | | | | | | | | |
| | C95AP006 | 1.48 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 1.89 | 3.88 | | | | | | | | |
| | C95AP007 | 37.73 | 12.92 | 13.43 | 13.11 | 0.00 | 0.00 | 48.21 | 125.40 | | | | | | | | |
| | C95AP008 | 5.93 | 2.03 | 0.00 | 0.50 | 0.00 | 0.00 | 7.57 | 16.03 | | | | | | | | |
| | C95AP009 | 1.98 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 5.19 | | | | | | | | |
| | C95AP010 | 50.41 | 17.26 | 13.68 | 13.27 | 0.00 | 0.00 | 64.39 | 159.01 | | | | | | | | |
| | C95AP011 | 1.86 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 4.87 | | | | | | | | |
| | C95AP012 | 7.37 | 2.52 | 0.00 | 0.50 | 0.00 | 0.00 | 9.41 | 19.80 | | | | | | | | |
| | C95AP013 | 48.14 | 16.48 | 22.32 | 18.49 | 0.00 | 0.00 | 61.50 | 166.93 | | | | | | | | |
| | C95AP014 | 1.69 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 4.43 | | | | | | | | |
| | C95AP015 | 6.44 | 2.20 | 0.00 | 0.50 | 0.00 | 0.00 | 8.22 | 17.36 | | | | | | | | |
| | C95AP016 | 2.26 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 5.91 | | | | | | | | |
| | C95AP017 | 20.35 | 6.97 | 7.88 | 7.76 | 0.00 | 0.00 | 26.00 | 68.96 | | | | | | | | |
| | C95AP018 | 0.71 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.91 | 1.86 | | | | | | | | |
| | C95AP019 | 4.01 | 1.37 | 0.00 | 0.50 | 0.00 | 0.00 | 5.12 | 11.00 | | | | | | | | |
| | C95AP020 | 22.46 | 7.69 | 14.06 | 11.50 | 0.00 | 0.00 | 28.69 | 84.40 | | | | | | | | |
| | C95AP021 | 35.16 | 12.04 | 16.27 | 13.83 | 0.00 | 0.00 | 44.91 | 122.21 | | | | | | | | |
| | C95AP022 | 5.40 | 1.85 | 1.51 | 1.91 | 0.00 | 0.00 | 6.89 | 17.56 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***C95*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | C95AP023 | 0.13 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.33 | | | | | | | | |
| | C95LH003 | 20.83 | 7.13 | 6.87 | 7.15 | 0.00 | 0.00 | 26.61 | 68.59 | | | | | | | | |
| | C95LH005 | 27.11 | 9.28 | 9.33 | 9.64 | 0.00 | 0.00 | 34.63 | 89.99 | | | | | | | | |
| | C95LH011 | 50.63 | 17.34 | 14.06 | 13.50 | 0.00 | 0.00 | 64.69 | 160.22 | | | | | | | | |
| | C95LH013 | 64.66 | 22.14 | 14.06 | 13.50 | 0.00 | 0.00 | 82.60 | 196.96 | | | | | | | | |
| | C95LH015 | 86.17 | 29.50 | 19.99 | 19.08 | 0.00 | 0.00 | 110.08 | 264.82 | | | | | | | | |
| | C95LH022 | 18.33 | 6.33 | 2.21 | 3.34 | 0.57 | 0.10 | 23.46 | 54.34 | | | | | | | | |
| | C95LH023 | 25.64 | 8.84 | 4.10 | 5.48 | 0.67 | 0.11 | 32.80 | 77.64 | | | | | | | | |
| **D10** | | | | | | | | | | | | | | | | | |
| | D10IR003 | 8.93 | 2.67 | 0.00 | 0.79 | 0.00 | 0.00 | 15.99 | 28.38 | | | | | | | | |
| | D10IR005 | 33.53 | 7.34 | 23.86 | 3.23 | 0.00 | 0.00 | 60.08 | 128.04 | | | | | | | | |
| | D10SU002 | 10.99 | 3.28 | 0.00 | 0.80 | 0.00 | 0.00 | 19.69 | 34.76 | | | | | | | | |
| | D10SU003 | 11.29 | 3.37 | 0.00 | 0.80 | 0.00 | 0.00 | 20.22 | 35.68 | | | | | | | | |
| | D10SU005 | 17.19 | 3.76 | 28.85 | 3.91 | 0.00 | 0.00 | 30.81 | 84.52 | | | | | | | | |
| | D10SU006 | 17.40 | 3.81 | 28.85 | 3.91 | 0.00 | 0.00 | 31.17 | 85.14 | | | | | | | | |
| **D15** | | | | | | | | | | | | | | | | | |
| | D15BI001 | 1.16 | 0.25 | 2.74 | 0.42 | 0.00 | 0.00 | 1.88 | 6.45 | | | | | | | | |
| | D15BI002 | 2.07 | 0.45 | 2.22 | 0.30 | 0.00 | 0.00 | 3.34 | 8.38 | | | | | | | | |
| | D15BI003 | 3.15 | 0.69 | 3.33 | 0.45 | 0.00 | 0.00 | 5.08 | 12.70 | | | | | | | | |
| | D15BI004 | 4.91 | 1.08 | 4.99 | 0.68 | 0.00 | 0.00 | 7.93 | 19.59 | | | | | | | | |
| | D15BI005 | 6.32 | 1.38 | 6.88 | 0.93 | 0.00 | 0.00 | 10.19 | 25.70 | | | | | | | | |
| | D15BI006 | 10.61 | 2.32 | 13.20 | 1.79 | 0.00 | 0.00 | 17.13 | 45.05 | | | | | | | | |
| | D15BI007 | 14.08 | 3.08 | 20.97 | 2.84 | 0.00 | 0.00 | 22.71 | 63.68 | | | | | | | | |
| | D15BI008 | 13.14 | 2.87 | 20.97 | 2.84 | 0.00 | 0.00 | 21.19 | 61.01 | | | | | | | | |
| | D15XX001 | 0.64 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 1.81 | | | | | | | | |
| | D15XX002 | 0.96 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 2.72 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| D20 | | | | | | | | | | | | | | | | | |
| | D20AD002 | 0.56 | 0.10 | 0.16 | 0.34 | 0.00 | 0.00 | 0.85 | 2.01 | | | | | | | | |
| | D20AD005 | 0.55 | 0.10 | 0.16 | 0.34 | 0.00 | 0.00 | 0.83 | 1.98 | | | | | | | | |
| | D20AD006 | 0.90 | 0.16 | 0.31 | 0.57 | 0.00 | 0.00 | 1.37 | 3.31 | | | | | | | | |
| | D20AD007 | 1.49 | 0.27 | 0.62 | 1.14 | 0.00 | 0.00 | 2.27 | 5.79 | | | | | | | | |
| | D20CQ001 | 1.34 | 0.24 | 3.65 | 1.78 | 0.00 | 0.00 | 2.04 | 9.05 | | | | | | | | |
| | D20LY001 | 0.80 | 0.14 | 0.23 | 0.63 | 0.00 | 0.00 | 1.22 | 3.02 | | | | | | | | |
| | D20LY002 | 0.83 | 0.15 | 0.00 | 0.60 | 0.00 | 0.00 | 1.27 | 2.85 | | | | | | | | |
| D25 | | | | | | | | | | | | | | | | | |
| | D25AD003 | 7.80 | 1.71 | 7.66 | 0.89 | 0.00 | 0.00 | 13.99 | 32.05 | | | | | | | | |
| | D25AD004 | 6.23 | 1.36 | 3.11 | 0.36 | 0.00 | 0.00 | 11.16 | 22.22 | | | | | | | | |
| | D25EZ001 | 0.59 | 0.13 | 0.00 | 0.50 | 0.00 | 0.00 | 1.06 | 2.28 | | | | | | | | |
| | D25EZ002 | 0.47 | 0.11 | 0.00 | 0.50 | 0.09 | 0.02 | 0.87 | 2.06 | | | | | | | | |
| | D25EZ003 | 0.52 | 0.12 | 0.00 | 0.50 | 0.06 | 0.01 | 0.95 | 2.16 | | | | | | | | |
| | D25EZ005 | 1.97 | 0.44 | 0.00 | 1.25 | 0.12 | 0.02 | 3.56 | 7.36 | | | | | | | | |
| D30 | | | | | | | | | | | | | | | | | |
| | D30HD001 | 6.00 | 1.31 | 23.30 | 5.16 | 0.00 | 0.00 | 10.75 | 46.52 | | | | | | | | |
| | D30HD002 | 8.98 | 1.96 | 29.96 | 7.06 | 0.00 | 0.00 | 16.09 | 64.05 | | | | | | | | |
| | D30HD003 | 11.68 | 2.56 | 37.17 | 9.03 | 0.00 | 0.00 | 20.94 | 81.38 | | | | | | | | |
| | D30MR001 | 0.96 | 0.21 | 1.83 | 0.28 | 0.00 | 0.00 | 1.72 | 5.00 | | | | | | | | |
| | D30MR003 | 6.45 | 1.43 | 6.44 | 0.87 | 0.12 | 0.02 | 11.59 | 26.92 | | | | | | | | |
| | D30MR005 | 15.51 | 3.44 | 15.06 | 2.04 | 0.45 | 0.08 | 27.89 | 64.47 | | | | | | | | |
| | D30MR006 | 15.99 | 3.54 | 17.23 | 2.34 | 0.45 | 0.08 | 28.75 | 68.38 | | | | | | | | |
| | D30MR007 | 20.29 | 4.49 | 17.23 | 2.34 | 0.45 | 0.08 | 36.45 | 81.33 | | | | | | | | |
| D35 | | | | | | | | | | | | | | | | | |
| | D35DT001 | 34.75 | 9.41 | 49.93 | 9.18 | 0.00 | 0.00 | 58.37 | 161.64 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***D35*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | D35DT002 | 35.68 | 9.67 | 49.93 | 9.18 | 0.00 | 0.00 | 59.95 | 164.41 | | | | | | | | |
| | D35DT003 | 40.11 | 10.87 | 49.93 | 9.18 | 0.00 | 0.00 | 67.39 | 177.48 | | | | | | | | |
| | D35DT004 | 42.61 | 11.54 | 58.25 | 10.70 | 0.00 | 0.00 | 71.58 | 194.68 | | | | | | | | |
| | D35DT005 | 66.49 | 18.01 | 84.33 | 15.50 | 0.00 | 0.00 | 111.70 | 296.03 | | | | | | | | |
| | D35DT006 | 45.76 | 15.67 | 84.33 | 13.04 | 0.00 | 0.00 | 76.87 | 235.67 | | | | | | | | |
| | D35IB003 | 29.90 | 10.30 | 59.25 | 9.16 | 0.76 | 0.13 | 50.29 | 159.79 | | | | | | | | |
| | D35IB004 | 28.46 | 9.83 | 58.14 | 8.99 | 0.93 | 0.16 | 47.90 | 154.41 | | | | | | | | |
| | D35IB005 | 33.02 | 11.39 | 70.34 | 10.87 | 0.93 | 0.16 | 55.56 | 182.27 | | | | | | | | |
| | D35IB006 | 34.73 | 11.97 | 71.83 | 11.10 | 0.93 | 0.16 | 58.42 | 189.14 | | | | | | | | |
| | D35RD001 | 26.23 | 7.11 | 50.40 | 9.27 | 0.00 | 0.00 | 44.07 | 137.08 | | | | | | | | |
| **F10** | | | | | | | | | | | | | | | | | |
| | F10JC001 | 5.76 | 1.18 | 6.79 | 0.79 | 0.59 | 0.10 | 6.82 | 22.03 | | | | | | | | |
| | F10JC002 | 6.28 | 1.28 | 6.79 | 0.79 | 0.59 | 0.10 | 7.43 | 23.26 | | | | | | | | |
| **G10** | | | | | | | | | | | | | | | | | |
| | G10CA012 | 3.18 | 0.53 | 28.42 | 3.29 | 0.00 | 0.00 | 3.21 | 38.63 | 3.97 | 0.54 | 37.59 | 4.35 | 0.00 | 0.00 | 4.60 | 51.05 |
| | G10CA013 | 4.10 | 0.68 | 36.66 | 4.25 | 0.00 | 0.00 | 4.15 | 49.84 | 5.12 | 0.70 | 48.49 | 5.62 | 0.00 | 0.00 | 5.93 | 65.86 |
| | G10CA014 | 5.36 | 0.89 | 48.52 | 5.62 | 0.00 | 0.00 | 5.43 | 65.82 | 6.70 | 0.92 | 64.17 | 7.43 | 0.00 | 0.00 | 7.76 | 86.98 |
| | G10CA015 | 7.42 | 1.23 | 62.19 | 7.20 | 0.00 | 0.00 | 7.51 | 85.55 | 9.28 | 1.27 | 82.25 | 9.53 | 0.00 | 0.00 | 10.74 | 113.07 |
| | G10CA016 | 9.06 | 1.50 | 73.95 | 8.57 | 0.00 | 0.00 | 9.17 | 102.25 | 11.33 | 1.55 | 97.81 | 11.33 | 0.00 | 0.00 | 13.11 | 135.13 |
| | G10CA017 | 14.25 | 2.36 | 98.58 | 11.42 | 0.00 | 0.00 | 14.43 | 141.04 | 17.82 | 2.43 | 130.38 | 15.10 | 0.00 | 0.00 | 20.63 | 186.36 |
| | G10CA018 | 18.11 | 3.00 | 130.62 | 15.13 | 0.00 | 0.00 | 18.33 | 185.19 | 22.64 | 3.09 | 172.76 | 20.01 | 0.00 | 0.00 | 26.21 | 244.71 |
| | G10CA019 | 30.25 | 5.01 | 208.56 | 24.16 | 0.00 | 0.00 | 30.62 | 298.60 | 37.81 | 5.16 | 275.83 | 31.95 | 0.00 | 0.00 | 43.78 | 394.53 |
| | G10CA020 | 2.53 | 0.42 | 15.75 | 1.82 | 0.00 | 0.00 | 2.56 | 23.08 | 3.17 | 0.43 | 20.83 | 2.41 | 0.00 | 0.00 | 3.66 | 30.50 |
| | G10WC001 | 0.25 | 0.03 | 1.50 | 0.17 | 0.00 | 0.00 | 0.22 | 2.17 | 0.29 | 0.04 | 1.95 | 0.23 | 0.00 | 0.00 | 0.29 | 2.80 |
| | G10WC002 | 0.29 | 0.04 | 2.06 | 0.24 | 0.00 | 0.00 | 0.25 | 2.88 | 0.33 | 0.04 | 2.68 | 0.31 | 0.00 | 0.00 | 0.34 | 3.70 |
| | G10WC003 | 0.54 | 0.07 | 2.99 | 0.35 | 0.00 | 0.00 | 0.47 | 4.42 | 0.62 | 0.08 | 3.91 | 0.45 | 0.00 | 0.00 | 0.63 | 5.69 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***G10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | G10WC004 | 0.44 | 0.06 | 3.37 | 0.39 | 0.00 | 0.00 | 0.38 | 4.64 | 0.50 | 0.06 | 4.39 | 0.51 | 0.00 | 0.00 | 0.51 | 5.97 |
| | G10XX001 | 0.12 | 0.02 | 0.19 | 0.02 | 0.00 | 0.00 | 0.10 | 0.45 | 0.13 | 0.02 | 0.24 | 0.03 | 0.00 | 0.00 | 0.13 | 0.55 |
| | G10XX002 | 0.56 | 0.08 | 3.55 | 0.41 | 0.00 | 0.00 | 0.49 | 5.09 | 0.64 | 0.08 | 4.64 | 0.54 | 0.00 | 0.00 | 0.65 | 6.55 |
| | G10XX003 | 1.28 | 0.17 | 2.08 | 0.24 | 0.00 | 0.00 | 1.11 | 4.88 | 1.46 | 0.18 | 2.75 | 0.32 | 0.00 | 0.00 | 1.48 | 6.19 |
| | G10XX004 | 0.66 | 0.09 | 0.81 | 0.09 | 0.00 | 0.00 | 0.57 | 2.22 | 0.75 | 0.09 | 1.08 | 0.13 | 0.00 | 0.00 | 0.76 | 2.81 |
| | G10XX005 | 1.62 | 0.27 | 6.73 | 0.78 | 0.00 | 0.00 | 1.63 | 11.03 | 2.02 | 0.28 | 8.79 | 1.02 | 0.00 | 0.00 | 2.34 | 14.45 |
| | G10XX006 | 1.42 | 0.24 | 9.35 | 1.08 | 0.00 | 0.00 | 1.44 | 13.53 | 1.78 | 0.24 | 12.20 | 1.41 | 0.00 | 0.00 | 2.06 | 17.69 |
| | G10XX007 | 2.15 | 0.36 | 13.09 | 1.52 | 0.00 | 0.00 | 2.17 | 19.29 | 2.68 | 0.37 | 17.09 | 1.98 | 0.00 | 0.00 | 3.11 | 25.23 |
| | G10XX008 | 2.63 | 0.44 | 9.69 | 1.12 | 0.00 | 0.00 | 2.67 | 16.55 | 3.29 | 0.45 | 12.81 | 1.48 | 0.00 | 0.00 | 3.81 | 21.84 |
| | G10XX009 | 2.27 | 0.38 | 12.94 | 1.50 | 0.00 | 0.00 | 2.30 | 19.39 | 2.84 | 0.39 | 17.12 | 1.98 | 0.00 | 0.00 | 3.29 | 25.62 |
| | G10XX010 | 3.36 | 0.56 | 18.10 | 2.10 | 0.00 | 0.00 | 3.40 | 27.52 | 4.20 | 0.57 | 23.94 | 2.77 | 0.00 | 0.00 | 4.86 | 36.34 |
| | G10XX011 | 3.71 | 0.61 | 33.95 | 3.93 | 0.00 | 0.00 | 3.75 | 45.95 | 4.63 | 0.63 | 44.90 | 5.20 | 0.00 | 0.00 | 5.36 | 60.72 |
| | G10XX012 | 4.42 | 0.73 | 38.74 | 4.49 | 0.00 | 0.00 | 4.48 | 52.86 | 5.53 | 0.76 | 51.24 | 5.93 | 0.00 | 0.00 | 6.40 | 69.86 |
| | G10XX013 | 5.55 | 0.92 | 51.60 | 5.98 | 0.00 | 0.00 | 5.62 | 69.67 | 6.94 | 0.95 | 68.24 | 7.90 | 0.00 | 0.00 | 8.03 | 92.06 |
| | G10XX014 | 7.94 | 1.31 | 64.54 | 7.48 | 0.00 | 0.00 | 8.04 | 89.31 | 9.92 | 1.35 | 85.36 | 9.89 | 0.00 | 0.00 | 11.49 | 118.01 |
| | G10XX015 | 13.03 | 2.16 | 95.05 | 11.01 | 0.00 | 0.00 | 13.19 | 134.44 | 16.29 | 2.22 | 125.71 | 14.56 | 0.00 | 0.00 | 18.86 | 177.64 |
| | G10XX016 | 18.36 | 3.04 | 128.99 | 14.94 | 0.00 | 0.00 | 18.59 | 183.92 | 22.95 | 3.13 | 170.60 | 19.76 | 0.00 | 0.00 | 26.58 | 243.02 |
| **G15** | | | | | | | | | | | | | | | | | |
| | G15CA001 | 11.71 | 3.65 | 10.59 | 1.74 | 0.87 | 0.15 | 14.62 | 43.33 | 12.58 | 3.67 | 13.51 | 2.22 | 2.88 | 0.49 | 17.79 | 53.14 |
| | G15CA003 | 13.75 | 4.28 | 11.86 | 1.95 | 0.87 | 0.15 | 17.16 | 50.02 | 14.76 | 4.30 | 15.13 | 2.48 | 2.88 | 0.49 | 20.87 | 60.91 |
| | G15CA004 | 14.69 | 4.57 | 13.97 | 2.29 | 0.97 | 0.17 | 18.33 | 54.99 | 15.77 | 4.59 | 17.83 | 2.93 | 3.21 | 0.55 | 22.30 | 67.18 |
| | G15CA005 | 19.86 | 6.27 | 18.21 | 2.99 | 3.35 | 0.57 | 24.88 | 76.13 | 21.33 | 6.30 | 23.23 | 3.81 | 11.07 | 1.89 | 30.27 | 97.90 |
| | G15CA006 | 28.54 | 8.98 | 23.29 | 3.82 | 4.69 | 0.80 | 35.72 | 105.84 | 30.65 | 9.02 | 29.71 | 4.88 | 15.47 | 2.65 | 43.46 | 135.84 |
| | G15CA007 | 12.41 | 3.87 | 11.43 | 1.88 | 0.87 | 0.15 | 15.49 | 46.10 | 13.33 | 3.88 | 14.59 | 2.40 | 2.88 | 0.49 | 18.85 | 56.42 |
| | G15CA008 | 17.02 | 5.29 | 15.67 | 2.57 | 1.10 | 0.19 | 21.24 | 63.08 | 18.28 | 5.32 | 19.99 | 3.28 | 3.72 | 0.64 | 25.84 | 77.07 |
| | G15CA009 | 15.92 | 4.95 | 15.67 | 2.57 | 0.97 | 0.17 | 19.86 | 60.11 | 17.09 | 4.97 | 19.99 | 3.28 | 3.21 | 0.55 | 24.17 | 73.26 |
| | G15CA010 | 18.42 | 5.72 | 16.94 | 2.78 | 1.10 | 0.19 | 22.98 | 68.13 | 19.78 | 5.75 | 21.61 | 3.55 | 3.72 | 0.64 | 27.96 | 83.01 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***G15*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | G15JD008 | 12.60 | 3.98 | 12.79 | 2.10 | 2.12 | 0.36 | 15.78 | 49.73 | 13.53 | 4.00 | 16.31 | 2.68 | 6.99 | 1.20 | 19.20 | 63.91 |
| | G15JD009 | 14.54 | 4.58 | 13.21 | 2.17 | 2.40 | 0.41 | 18.20 | 55.51 | 15.62 | 4.60 | 16.85 | 2.77 | 8.09 | 1.38 | 22.14 | 71.45 |
| | G15JD010 | 14.59 | 4.59 | 15.67 | 2.57 | 2.12 | 0.36 | 18.26 | 58.16 | 15.67 | 4.61 | 19.99 | 3.28 | 6.99 | 1.20 | 22.22 | 73.96 |
| | G15JD011 | 16.50 | 5.18 | 17.36 | 2.85 | 2.40 | 0.41 | 20.65 | 65.35 | 17.73 | 5.21 | 22.15 | 3.64 | 8.09 | 1.38 | 25.12 | 83.32 |
| **H10** | | | | | | | | | | | | | | | | | |
| | H10NP001 | 1.00 | 0.13 | 0.00 | 0.50 | 0.00 | 0.00 | 1.57 | 3.20 | | | | | | | | |
| | H10NP002 | 1.11 | 0.14 | 0.00 | 0.50 | 0.00 | 0.00 | 1.74 | 3.49 | | | | | | | | |
| | H10NP003 | 1.66 | 0.21 | 0.00 | 0.75 | 0.00 | 0.00 | 2.61 | 5.23 | | | | | | | | |
| | H10NP004 | 2.14 | 0.27 | 0.00 | 0.75 | 0.00 | 0.00 | 3.36 | 6.52 | | | | | | | | |
| | H10NP005 | 2.84 | 0.36 | 0.00 | 1.00 | 0.00 | 0.00 | 4.45 | 8.65 | | | | | | | | |
| | H10NP006 | 3.81 | 0.49 | 0.00 | 1.00 | 0.00 | 0.00 | 5.99 | 11.29 | | | | | | | | |
| | H10NP008 | 5.79 | 0.74 | 0.00 | 1.25 | 0.00 | 0.00 | 9.09 | 16.87 | | | | | | | | |
| | H10NP009 | 7.40 | 0.94 | 0.00 | 1.25 | 0.00 | 0.00 | 11.61 | 21.20 | | | | | | | | |
| | H10NP015 | 9.01 | 1.15 | 0.00 | 1.25 | 0.00 | 0.00 | 14.15 | 25.56 | | | | | | | | |
| | H10NP016 | 12.43 | 1.58 | 0.00 | 1.25 | 0.00 | 0.00 | 19.52 | 34.78 | | | | | | | | |
| | H10NP017 | 16.23 | 2.06 | 0.00 | 1.25 | 0.00 | 0.00 | 25.47 | 45.01 | | | | | | | | |
| | H10NP018 | 37.68 | 4.79 | 0.00 | 1.25 | 0.00 | 0.00 | 59.16 | 102.88 | | | | | | | | |
| **H13** | | | | | | | | | | | | | | | | | |
| | H13AY007 | 14.79 | 2.94 | 0.00 | 0.00 | 0.00 | 0.00 | 20.91 | 38.64 | | | | | | | | |
| | H13AY008 | 7.34 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 10.38 | 19.18 | | | | | | | | |
| | H13AY009 | 13.16 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 18.61 | 34.39 | | | | | | | | |
| | H13AY010 | 6.78 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 9.58 | 17.71 | | | | | | | | |
| | H13AY011 | 11.03 | 2.19 | 0.00 | 0.00 | 0.00 | 0.00 | 15.59 | 28.81 | | | | | | | | |
| | H13AY012 | 5.71 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 8.07 | 14.92 | | | | | | | | |
| | H13AY013 | 8.86 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 12.53 | 23.15 | | | | | | | | |
| | H13AY014 | 4.82 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 6.81 | 12.59 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H13*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H13AY015 | 5.23 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 7.39 | 13.66 | | | | | | | | |
| | H13AY016 | 3.42 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 4.83 | 8.93 | | | | | | | | |
| | H13AY017 | 16.42 | 3.27 | 0.00 | 0.00 | 0.00 | 0.00 | 23.21 | 42.90 | | | | | | | | |
| | H13AY018 | 8.44 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 11.93 | 22.05 | | | | | | | | |
| | H13AY019 | 1.07 | 0.21 | 0.06 | 0.29 | 0.00 | 0.00 | 1.51 | 3.14 | | | | | | | | |
| | H13AY020 | 1.38 | 0.27 | 0.06 | 0.29 | 0.00 | 0.00 | 1.95 | 3.95 | | | | | | | | |
| | H13AY021 | 18.60 | 3.40 | 0.00 | 0.00 | 0.47 | 0.08 | 22.03 | 44.58 | | | | | | | | |
| | H13AY022 | 10.13 | 1.87 | 0.00 | 0.00 | 0.47 | 0.08 | 12.00 | 24.55 | | | | | | | | |
| | H13AY023 | 16.91 | 3.10 | 0.00 | 0.00 | 0.47 | 0.08 | 20.02 | 40.58 | | | | | | | | |
| | H13AY024 | 9.00 | 1.66 | 0.00 | 0.00 | 0.47 | 0.08 | 10.67 | 21.88 | | | | | | | | |
| | H13AY025 | 15.07 | 2.76 | 0.00 | 0.00 | 0.47 | 0.08 | 17.85 | 36.23 | | | | | | | | |
| | H13AY026 | 8.29 | 1.53 | 0.00 | 0.00 | 0.47 | 0.08 | 9.83 | 20.20 | | | | | | | | |
| | H13AY027 | 12.69 | 2.33 | 0.00 | 0.00 | 0.47 | 0.08 | 15.04 | 30.61 | | | | | | | | |
| | H13AY028 | 7.04 | 1.31 | 0.00 | 0.00 | 0.47 | 0.08 | 8.36 | 17.26 | | | | | | | | |
| | H13AY029 | 10.28 | 1.90 | 0.00 | 0.00 | 0.47 | 0.08 | 12.19 | 24.92 | | | | | | | | |
| | H13AY030 | 5.99 | 1.12 | 0.00 | 0.00 | 0.47 | 0.08 | 7.11 | 14.77 | | | | | | | | |
| | H13AY031 | 6.71 | 1.25 | 0.00 | 0.00 | 0.47 | 0.08 | 7.97 | 16.48 | | | | | | | | |
| | H13AY032 | 4.45 | 0.84 | 0.00 | 0.00 | 0.47 | 0.08 | 5.30 | 11.14 | | | | | | | | |
| | H13BB001 | 4.51 | 0.38 | 0.63 | 1.09 | 0.00 | 0.00 | 6.66 | 13.27 | | | | | | | | |
| | H13BB002 | 4.04 | 0.34 | 0.95 | 1.52 | 0.00 | 0.00 | 5.96 | 12.81 | | | | | | | | |
| | H13BC003 | 4.65 | 0.42 | 0.32 | 0.19 | 0.00 | 0.00 | 5.11 | 10.69 | | | | | | | | |
| | H13BC006 | 4.34 | 0.40 | 0.19 | 0.11 | 0.00 | 0.00 | 4.76 | 9.80 | | | | | | | | |
| | H13BC007 | 6.71 | 0.61 | 0.19 | 0.11 | 0.00 | 0.00 | 7.38 | 15.00 | | | | | | | | |
| | H13BC008 | 8.21 | 0.75 | 0.32 | 0.19 | 0.00 | 0.00 | 9.03 | 18.50 | | | | | | | | |
| | H13BC009 | 5.63 | 0.51 | 0.19 | 0.11 | 0.00 | 0.00 | 6.18 | 12.62 | | | | | | | | |
| | H13BC010 | 3.32 | 0.30 | 0.19 | 0.11 | 0.00 | 0.00 | 3.64 | 7.56 | | | | | | | | |
| | H13BC011 | 4.23 | 0.39 | 0.32 | 0.19 | 0.00 | 0.00 | 4.65 | 9.78 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H13*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H13BC012 | 3.46 | 0.32 | 0.19 | 0.11 | 0.00 | 0.00 | 3.80 | 7.88 | | | | | | | | |
| | H13BC013 | 3.13 | 0.29 | 0.19 | 0.11 | 0.00 | 0.00 | 3.44 | 7.16 | | | | | | | | |
| | H13CB001 | 2.10 | 0.38 | 0.32 | 0.44 | 0.00 | 0.00 | 2.49 | 5.73 | | | | | | | | |
| | H13CB002 | 2.27 | 0.41 | 0.63 | 0.63 | 0.00 | 0.00 | 2.69 | 6.63 | | | | | | | | |
| | H13CO002 | 1.11 | 0.20 | 0.32 | 0.44 | 0.00 | 0.00 | 1.32 | 3.39 | | | | | | | | |
| | H13CO003 | 1.80 | 0.42 | 0.19 | 0.36 | 0.00 | 0.00 | 2.54 | 5.31 | | | | | | | | |
| | H13CO004 | 2.58 | 0.61 | 0.19 | 0.61 | 0.00 | 0.00 | 3.65 | 7.64 | | | | | | | | |
| | H13CO005 | 4.35 | 1.02 | 0.19 | 0.61 | 0.00 | 0.00 | 6.15 | 12.32 | | | | | | | | |
| | H13CO006 | 3.69 | 0.87 | 0.19 | 0.46 | 0.00 | 0.00 | 5.22 | 10.43 | | | | | | | | |
| | H13EP001 | 2.08 | 0.38 | 0.32 | 0.44 | 0.00 | 0.00 | 2.46 | 5.68 | | | | | | | | |
| | H13EP002 | 2.71 | 0.64 | 0.47 | 0.58 | 0.00 | 0.00 | 3.83 | 8.23 | | | | | | | | |
| | H13KP001 | 7.12 | 1.30 | 0.79 | 0.48 | 0.13 | 0.02 | 8.43 | 18.27 | | | | | | | | |
| | H13KP002 | 8.09 | 1.47 | 0.98 | 0.59 | 0.13 | 0.02 | 9.57 | 20.85 | | | | | | | | |
| | H13KP003 | 9.52 | 1.73 | 1.39 | 0.84 | 0.13 | 0.02 | 11.26 | 24.89 | | | | | | | | |
| | H13KP004 | 10.96 | 1.99 | 1.77 | 1.07 | 0.13 | 0.02 | 12.96 | 28.90 | | | | | | | | |
| | H13MN001 | 29.99 | 5.49 | 9.46 | 8.14 | 0.53 | 0.09 | 39.96 | 93.66 | | | | | | | | |
| | H13MN002 | 35.10 | 6.44 | 12.61 | 10.86 | 0.69 | 0.12 | 46.79 | 112.61 | | | | | | | | |
| | H13MN003 | 39.79 | 7.29 | 12.61 | 11.86 | 0.69 | 0.12 | 53.04 | 125.40 | | | | | | | | |
| | H13MN004 | 45.49 | 8.32 | 18.92 | 16.29 | 0.69 | 0.12 | 60.61 | 150.44 | | | | | | | | |
| | H13PR001 | 8.23 | 1.64 | 0.19 | 0.11 | 0.00 | 0.00 | 11.63 | 21.80 | | | | | | | | |
| | H13PR002 | 24.25 | 4.43 | 0.19 | 1.61 | 0.47 | 0.08 | 28.70 | 59.73 | | | | | | | | |
| | H13PR003 | 14.69 | 2.92 | 0.32 | 0.19 | 0.00 | 0.00 | 20.77 | 38.89 | | | | | | | | |
| | H13PR005 | 19.16 | 3.81 | 0.32 | 0.19 | 0.00 | 0.00 | 27.09 | 50.57 | | | | | | | | |
| | H13PR006 | 21.42 | 3.92 | 0.32 | 1.69 | 0.47 | 0.08 | 25.36 | 53.26 | | | | | | | | |
| | H13PR007 | 23.12 | 4.60 | 0.63 | 0.38 | 0.00 | 0.00 | 32.69 | 61.42 | | | | | | | | |
| | H13PR011 | 33.58 | 6.12 | 0.13 | 1.58 | 0.47 | 0.08 | 39.74 | 81.70 | | | | | | | | |
| | H13PR012 | 36.12 | 6.58 | 0.19 | 1.61 | 0.47 | 0.08 | 42.74 | 87.79 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H13*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H13PR013 | 38.35 | 6.98 | 0.32 | 1.69 | 0.47 | 0.08 | 45.37 | 93.26 | | | | | | | | |
| | H13PR014 | 42.93 | 7.81 | 0.50 | 1.80 | 0.47 | 0.08 | 50.79 | 104.38 | | | | | | | | |
| | H13PR015 | 48.93 | 8.90 | 0.50 | 1.80 | 0.47 | 0.08 | 57.89 | 118.57 | | | | | | | | |
| | H13PR022 | 16.97 | 3.37 | 0.13 | 0.08 | 0.00 | 0.00 | 23.98 | 44.53 | | | | | | | | |
| | H13PR023 | 19.43 | 3.86 | 0.19 | 0.11 | 0.00 | 0.00 | 27.46 | 51.05 | | | | | | | | |
| | H13PR024 | 21.54 | 4.28 | 0.19 | 0.11 | 0.00 | 0.00 | 30.46 | 56.58 | | | | | | | | |
| | H13PR025 | 25.86 | 5.14 | 0.19 | 0.11 | 0.00 | 0.00 | 36.55 | 67.85 | | | | | | | | |
| | H13PR026 | 31.51 | 6.27 | 0.25 | 0.15 | 0.00 | 0.00 | 44.55 | 82.73 | | | | | | | | |
| | H13S5001 | 4.85 | 0.88 | 0.19 | 0.11 | 0.00 | 0.00 | 5.73 | 11.76 | | | | | | | | |
| | H13S5002 | 7.61 | 1.38 | 0.32 | 0.19 | 0.00 | 0.00 | 9.00 | 18.50 | | | | | | | | |
| | H13S5003 | 9.04 | 1.64 | 0.32 | 0.19 | 0.00 | 0.00 | 10.69 | 21.88 | | | | | | | | |
| | H13SH001 | 4.72 | 0.86 | 1.26 | 0.69 | 0.00 | 0.00 | 6.28 | 13.81 | | | | | | | | |
| | H13SH002 | 4.43 | 0.80 | 1.26 | 0.69 | 0.00 | 0.00 | 5.90 | 13.08 | | | | | | | | |
| | H13SH003 | 7.63 | 1.38 | 2.52 | 1.37 | 0.00 | 0.00 | 10.16 | 23.06 | | | | | | | | |
| | H13SH004 | 7.97 | 1.44 | 2.52 | 1.37 | 0.00 | 0.00 | 10.60 | 23.90 | | | | | | | | |
| | H13SH005 | 12.86 | 2.33 | 6.31 | 3.43 | 0.00 | 0.00 | 17.12 | 42.05 | | | | | | | | |
| | H13SH006 | 41.08 | 7.45 | 18.92 | 10.29 | 0.00 | 0.00 | 54.66 | 132.40 | | | | | | | | |
| | H13SH007 | 53.42 | 9.68 | 37.83 | 20.57 | 0.00 | 0.00 | 71.08 | 192.58 | | | | | | | | |
| | H13TH001 | 1.18 | 0.21 | 0.32 | 0.19 | 0.00 | 0.00 | 1.40 | 3.30 | | | | | | | | |
| | H13TH002 | 2.19 | 0.40 | 0.81 | 0.09 | 0.06 | 0.01 | 2.59 | 6.15 | | | | | | | | |
| | H13TH003 | 2.49 | 0.46 | 0.81 | 0.09 | 0.06 | 0.01 | 2.95 | 6.87 | | | | | | | | |
| | H13YB001 | 32.19 | 5.84 | 3.15 | 1.90 | 0.00 | 0.00 | 38.06 | 81.14 | | | | | | | | |
| | H13YB002 | 32.19 | 5.84 | 3.15 | 1.90 | 0.00 | 0.00 | 38.06 | 81.14 | | | | | | | | |
| | H13YB003 | 32.19 | 5.84 | 3.15 | 1.90 | 0.00 | 0.00 | 38.06 | 81.14 | | | | | | | | |
| **H20** | | | | | | | | | | | | | | | | | |
| | H20BE002 | 3.51 | 0.63 | 0.00 | 0.20 | 0.00 | 0.00 | 4.41 | 8.75 | | | | | | | | |
| | H20BE003 | 4.35 | 0.79 | 0.00 | 0.30 | 0.00 | 0.00 | 5.47 | 10.91 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H20*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H20BE004 | 4.80 | 0.87 | 0.00 | 0.40 | 0.00 | 0.00 | 6.03 | 12.10 | | | | | | | | |
| **H25** | | | | | | | | | | | | | | | | | |
| | H25AU001 | 1.08 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 2.81 | | | | | | | | |
| | H25AU002 | 1.25 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 3.25 | | | | | | | | |
| | H25AU003 | 1.75 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 | 4.54 | | | | | | | | |
| | H25AU004 | 2.73 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4.03 | 7.08 | | | | | | | | |
| | H25AU005 | 2.73 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 4.04 | 7.09 | | | | | | | | |
| | H25AX001 | 1.13 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 2.93 | | | | | | | | |
| | H25AX002 | 1.33 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.97 | 3.46 | | | | | | | | |
| | H25AX003 | 1.36 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 2.01 | 3.53 | | | | | | | | |
| | H25AX004 | 1.65 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 2.44 | 4.28 | | | | | | | | |
| | H25AX005 | 1.54 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 4.00 | | | | | | | | |
| | H25AX006 | 1.91 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 2.82 | 4.95 | | | | | | | | |
| | H25BS001 | 0.72 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 1.71 | | | | | | | | |
| | H25BS002 | 0.83 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.05 | 1.99 | | | | | | | | |
| | H25BS003 | 0.92 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.16 | 2.20 | | | | | | | | |
| | H25BS004 | 1.12 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.41 | 2.67 | | | | | | | | |
| | H25BS005 | 1.76 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 4.19 | | | | | | | | |
| | H25CA020 | 11.89 | 2.25 | 7.15 | 1.21 | 0.00 | 0.00 | 13.35 | 35.85 | 14.43 | 2.30 | 9.46 | 1.61 | 0.00 | 0.00 | 19.67 | 47.47 |
| | H25CA021 | 11.98 | 2.26 | 7.60 | 1.29 | 0.00 | 0.00 | 13.45 | 36.58 | 14.55 | 2.31 | 10.06 | 1.71 | 0.00 | 0.00 | 19.82 | 48.45 |
| | H25CA022 | 13.62 | 3.52 | 11.59 | 1.97 | 0.00 | 0.00 | 17.47 | 48.17 | 16.34 | 3.58 | 15.32 | 2.60 | 0.00 | 0.00 | 24.90 | 62.74 |
| | H25CA023 | 19.48 | 5.04 | 11.59 | 1.97 | 0.00 | 0.00 | 24.98 | 63.06 | 23.37 | 5.12 | 15.32 | 2.60 | 0.00 | 0.00 | 35.62 | 82.03 |
| | H25CA034 | 3.62 | 0.65 | 1.63 | 0.28 | 0.00 | 0.00 | 4.06 | 10.24 | 4.13 | 0.66 | 2.15 | 0.37 | 0.00 | 0.00 | 5.30 | 12.61 |
| | H25CA035 | 4.26 | 0.76 | 2.72 | 0.46 | 0.00 | 0.00 | 4.78 | 12.98 | 4.87 | 0.77 | 3.59 | 0.61 | 0.00 | 0.00 | 6.24 | 16.08 |
| | H25CA036 | 6.84 | 1.22 | 4.25 | 0.72 | 0.00 | 0.00 | 7.68 | 20.71 | 7.82 | 1.24 | 5.63 | 0.96 | 0.00 | 0.00 | 10.02 | 25.67 |
| | H25CA038 | 9.26 | 1.75 | 4.89 | 0.83 | 0.00 | 0.00 | 10.39 | 27.12 | 11.24 | 1.79 | 6.46 | 1.10 | 0.00 | 0.00 | 15.32 | 35.91 |
| | H25CA040 | 9.15 | 2.37 | 11.32 | 1.92 | 0.00 | 0.00 | 11.74 | 36.50 | 10.98 | 2.40 | 14.97 | 2.54 | 0.00 | 0.00 | 16.74 | 47.63 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H25CA052 | 14.96 | 1.74 | 0.00 | 1.50 | 0.00 | 0.00 | 19.91 | 38.11 | | | | | | | | |
| | H25CA053 | 20.37 | 2.37 | 0.00 | 1.60 | 0.00 | 0.00 | 27.10 | 51.44 | | | | | | | | |
| | H25CA054 | 26.17 | 3.05 | 0.00 | 3.00 | 0.00 | 0.00 | 34.82 | 67.04 | | | | | | | | |
| | H25CA055 | 2.84 | 0.33 | 0.00 | 0.40 | 0.00 | 0.00 | 3.78 | 7.35 | | | | | | | | |
| | H25CA056 | 42.62 | 4.97 | 0.00 | 3.00 | 0.00 | 0.00 | 56.70 | 107.29 | | | | | | | | |
| | H25CA057 | 11.90 | 1.39 | 0.00 | 0.80 | 0.00 | 0.00 | 15.83 | 29.92 | | | | | | | | |
| | H25CA058 | 3.15 | 0.37 | 0.00 | 0.50 | 0.00 | 0.00 | 4.66 | 8.68 | | | | | | | | |
| | H25CA059 | 11.55 | 1.35 | 0.00 | 0.60 | 0.00 | 0.00 | 17.06 | 30.56 | | | | | | | | |
| | H25CA060 | 17.02 | 1.98 | 0.00 | 0.75 | 0.00 | 0.00 | 25.15 | 44.90 | | | | | | | | |
| | H25CA061 | 14.86 | 1.73 | 0.00 | 0.75 | 0.00 | 0.00 | 21.96 | 39.30 | | | | | | | | |
| | H25CA062 | 27.30 | 3.18 | 0.00 | 0.90 | 0.00 | 0.00 | 40.34 | 71.72 | | | | | | | | |
| | H25CA063 | 19.47 | 2.27 | 0.00 | 0.90 | 0.00 | 0.00 | 28.77 | 51.41 | | | | | | | | |
| | H25CA064 | 23.71 | 2.76 | 0.00 | 1.00 | 0.00 | 0.00 | 35.04 | 62.51 | | | | | | | | |
| | H25KC016 | 14.44 | 2.73 | 8.51 | 1.45 | 0.00 | 0.00 | 16.21 | 43.34 | 17.53 | 2.79 | 11.25 | 1.91 | 0.00 | 0.00 | 23.89 | 57.37 |
| | H25KC017 | 10.15 | 1.92 | 4.89 | 0.83 | 0.00 | 0.00 | 11.39 | 29.18 | 12.32 | 1.96 | 6.46 | 1.10 | 0.00 | 0.00 | 16.79 | 38.63 |
| | H25KC019 | 15.90 | 4.12 | 12.94 | 2.20 | 0.00 | 0.00 | 20.40 | 55.56 | 19.08 | 4.18 | 17.12 | 2.91 | 0.00 | 0.00 | 29.08 | 72.37 |
| | H25KC020 | 17.30 | 4.48 | 12.94 | 2.20 | 0.00 | 0.00 | 22.20 | 59.12 | 20.77 | 4.54 | 17.12 | 2.91 | 0.00 | 0.00 | 31.65 | 76.99 |
| | H25KC021 | 18.30 | 4.74 | 15.93 | 2.71 | 0.00 | 0.00 | 23.48 | 65.16 | 21.96 | 4.81 | 21.07 | 3.58 | 0.00 | 0.00 | 33.47 | 84.89 |
| | H25KC022 | 20.72 | 5.36 | 15.93 | 2.71 | 0.00 | 0.00 | 26.58 | 71.30 | 24.87 | 5.44 | 21.07 | 3.58 | 0.00 | 0.00 | 37.90 | 92.86 |
| | H25KC023 | 25.77 | 6.67 | 21.54 | 3.66 | 0.00 | 0.00 | 33.05 | 90.69 | 30.92 | 6.77 | 28.49 | 4.84 | 0.00 | 0.00 | 47.13 | 118.15 |
| | H25KC024 | 24.36 | 8.24 | 27.70 | 1.48 | 0.00 | 0.00 | 39.07 | 100.85 | 28.87 | 8.33 | 36.63 | 1.96 | 0.00 | 0.00 | 50.93 | 126.72 |
| | H25KC026 | 25.52 | 8.64 | 28.51 | 1.53 | 0.00 | 0.00 | 40.94 | 105.14 | 30.25 | 8.73 | 37.71 | 2.02 | 0.00 | 0.00 | 53.36 | 132.07 |
| | H25KM001 | 12.75 | 2.41 | 8.06 | 1.37 | 0.00 | 0.00 | 14.31 | 38.90 | 15.48 | 2.46 | 10.66 | 1.81 | 0.00 | 0.00 | 21.09 | 51.50 |
| | H25KM003 | 19.67 | 3.72 | 9.96 | 1.69 | 0.00 | 0.00 | 22.08 | 57.12 | 23.88 | 3.80 | 13.17 | 2.24 | 0.00 | 0.00 | 32.54 | 75.63 |
| | H25KM009 | 44.20 | 17.60 | 41.10 | 2.39 | 0.00 | 0.00 | 77.96 | 183.25 | 55.98 | 17.84 | 54.35 | 3.16 | 0.00 | 0.00 | 112.19 | 243.52 |
| | H25KM015 | 43.81 | 14.83 | 34.76 | 1.86 | 0.00 | 0.00 | 70.27 | 165.53 | 51.92 | 14.98 | 45.97 | 2.46 | 0.00 | 0.00 | 91.59 | 206.92 |
| | H25KM018 | 4.62 | 0.83 | 1.81 | 0.31 | 0.00 | 0.00 | 5.18 | 12.75 | 5.27 | 0.84 | 2.39 | 0.41 | 0.00 | 0.00 | 6.77 | 15.68 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H25KM021 | 6.24 | 1.12 | 3.53 | 0.60 | 0.00 | 0.00 | 7.01 | 18.50 | 7.14 | 1.13 | 4.67 | 0.79 | 0.00 | 0.00 | 9.15 | 22.88 |
| | H25KM022 | 7.96 | 1.42 | 3.62 | 0.61 | 0.00 | 0.00 | 8.94 | 22.55 | 9.10 | 1.45 | 4.79 | 0.81 | 0.00 | 0.00 | 11.67 | 27.82 |
| | H25KM023 | 9.83 | 1.76 | 4.89 | 0.83 | 0.00 | 0.00 | 11.04 | 28.35 | 11.24 | 1.79 | 6.46 | 1.10 | 0.00 | 0.00 | 14.41 | 35.00 |
| | H25KM027 | 17.95 | 3.39 | 7.78 | 1.32 | 0.00 | 0.00 | 20.16 | 50.60 | 21.80 | 3.47 | 10.30 | 1.75 | 0.00 | 0.00 | 29.71 | 67.03 |
| | H25KM033 | 88.49 | 35.24 | 82.19 | 4.78 | 0.00 | 0.00 | 156.10 | 366.80 | 112.09 | 35.72 | 108.71 | 6.32 | 0.00 | 0.00 | 224.63 | 487.47 |
| | H25KN001 | 4.18 | 0.49 | 0.00 | 0.50 | 0.00 | 0.00 | 6.18 | 11.35 | | | | | | | | |
| | H25KN002 | 5.81 | 0.68 | 0.00 | 0.50 | 0.00 | 0.00 | 8.58 | 15.57 | | | | | | | | |
| | H25KN003 | 7.08 | 0.82 | 0.00 | 0.50 | 0.00 | 0.00 | 10.46 | 18.86 | | | | | | | | |
| | H25KN004 | 8.14 | 0.95 | 0.00 | 0.50 | 0.00 | 0.00 | 12.02 | 21.61 | | | | | | | | |
| | H25KN006 | 16.45 | 1.92 | 0.00 | 1.00 | 0.00 | 0.00 | 24.30 | 43.67 | | | | | | | | |
| | H25KN007 | 0.84 | 0.10 | 0.00 | 0.15 | 0.00 | 0.00 | 1.24 | 2.33 | | | | | | | | |
| | H25KN009 | 1.76 | 0.20 | 0.00 | 0.15 | 0.00 | 0.00 | 2.60 | 4.71 | | | | | | | | |
| | H25KN010 | 2.43 | 0.28 | 0.00 | 0.15 | 0.00 | 0.00 | 3.59 | 6.45 | | | | | | | | |
| | H25LI003 | 13.21 | 2.50 | 8.06 | 1.37 | 0.00 | 0.00 | 14.83 | 39.97 | 16.04 | 2.55 | 10.66 | 1.81 | 0.00 | 0.00 | 21.86 | 52.92 |
| | H25LI005 | 15.47 | 2.92 | 9.14 | 1.55 | 0.00 | 0.00 | 17.36 | 46.44 | 18.78 | 2.99 | 12.09 | 2.05 | 0.00 | 0.00 | 25.59 | 61.50 |
| | H25LU001 | 3.79 | 0.44 | 0.00 | 0.40 | 0.00 | 0.00 | 5.05 | 9.68 | | | | | | | | |
| | H25LU002 | 4.27 | 0.50 | 0.00 | 0.50 | 0.00 | 0.00 | 5.69 | 10.96 | | | | | | | | |
| | H25LU003 | 6.62 | 0.77 | 0.00 | 0.80 | 0.00 | 0.00 | 8.80 | 16.99 | | | | | | | | |
| | H25LU004 | 7.69 | 0.90 | 0.00 | 0.90 | 0.00 | 0.00 | 10.23 | 19.72 | | | | | | | | |
| | H25LU005 | 9.65 | 1.12 | 0.00 | 1.10 | 0.00 | 0.00 | 12.84 | 24.71 | | | | | | | | |
| | H25LU006 | 13.52 | 1.58 | 0.00 | 1.50 | 0.00 | 0.00 | 17.99 | 34.59 | | | | | | | | |
| | H25LU007 | 11.55 | 1.35 | 0.00 | 1.40 | 0.00 | 0.00 | 15.37 | 29.67 | | | | | | | | |
| | H25LU008 | 15.10 | 1.76 | 0.00 | 1.60 | 0.00 | 0.00 | 20.09 | 38.55 | | | | | | | | |
| | H25LU009 | 16.59 | 1.93 | 0.00 | 1.70 | 0.00 | 0.00 | 22.07 | 42.29 | | | | | | | | |
| | H25LU010 | 19.94 | 2.32 | 0.00 | 2.00 | 0.00 | 0.00 | 26.53 | 50.79 | | | | | | | | |
| | H25LU011 | 19.74 | 2.30 | 0.00 | 2.00 | 0.00 | 0.00 | 26.27 | 50.31 | | | | | | | | |
| | H25LU012 | 24.18 | 2.82 | 0.00 | 2.50 | 0.00 | 0.00 | 32.17 | 61.67 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H25LU013 | 24.95 | 2.91 | 0.00 | 2.60 | 0.00 | 0.00 | 33.20 | 63.66 | | | | | | | | |
| | H25LU014 | 29.05 | 3.39 | 0.00 | 3.00 | 0.00 | 0.00 | 38.65 | 74.09 | | | | | | | | |
| | H25LU023 | 4.92 | 0.63 | 0.00 | 0.25 | 0.00 | 0.00 | 6.18 | 11.98 | | | | | | | | |
| | H25LU024 | 2.48 | 0.32 | 0.00 | 0.30 | 0.00 | 0.00 | 3.11 | 6.21 | | | | | | | | |
| | H25LU025 | 3.04 | 0.39 | 0.00 | 0.40 | 0.00 | 0.00 | 3.82 | 7.65 | | | | | | | | |
| | H25LU026 | 3.47 | 0.44 | 0.00 | 0.50 | 0.00 | 0.00 | 4.36 | 8.77 | | | | | | | | |
| | H25LU027 | 3.89 | 0.49 | 0.00 | 0.60 | 0.00 | 0.00 | 4.88 | 9.86 | | | | | | | | |
| | H25LU028 | 6.40 | 0.81 | 0.00 | 0.70 | 0.00 | 0.00 | 8.04 | 15.95 | | | | | | | | |
| | H25LU034 | 9.23 | 1.17 | 0.00 | 0.80 | 0.00 | 0.00 | 11.60 | 22.80 | | | | | | | | |
| | H25LU035 | 11.09 | 1.41 | 0.00 | 0.90 | 0.00 | 0.00 | 13.93 | 27.33 | | | | | | | | |
| | H25LU036 | 12.80 | 1.63 | 0.00 | 1.00 | 0.00 | 0.00 | 16.08 | 31.51 | | | | | | | | |
| | H25LU040 | 20.57 | 2.40 | 0.00 | 0.75 | 0.00 | 0.00 | 30.40 | 54.12 | | | | | | | | |
| | H25LU041 | 25.23 | 2.94 | 0.00 | 0.75 | 0.00 | 0.00 | 37.29 | 66.21 | | | | | | | | |
| | H25LU042 | 30.46 | 3.55 | 0.00 | 1.50 | 0.00 | 0.00 | 45.01 | 80.52 | | | | | | | | |
| | H25LU046 | 4.90 | 0.57 | 0.00 | 0.50 | 0.00 | 0.00 | 7.24 | 13.21 | | | | | | | | |
| | H25LU047 | 5.63 | 0.66 | 0.00 | 0.60 | 0.00 | 0.00 | 8.32 | 15.21 | | | | | | | | |
| | H25LU048 | 6.05 | 0.71 | 0.00 | 0.70 | 0.00 | 0.00 | 8.94 | 16.40 | | | | | | | | |
| | H25LU049 | 7.32 | 0.85 | 0.00 | 0.80 | 0.00 | 0.00 | 10.82 | 19.79 | | | | | | | | |
| | H25LU050 | 11.09 | 1.29 | 0.00 | 0.90 | 0.00 | 0.00 | 16.39 | 29.67 | | | | | | | | |
| | H25LU053 | 21.64 | 2.52 | 0.00 | 0.75 | 0.00 | 0.00 | 31.98 | 56.89 | | | | | | | | |
| | H25LU054 | 26.64 | 3.10 | 0.00 | 0.75 | 0.00 | 0.00 | 39.37 | 69.86 | | | | | | | | |
| | H25ME001 | 2.83 | 0.51 | 1.20 | 0.20 | 0.00 | 0.00 | 3.18 | 7.92 | 3.24 | 0.52 | 1.59 | 0.27 | 0.00 | 0.00 | 4.15 | 9.77 |
| | H25ME002 | 4.08 | 0.73 | 3.62 | 0.61 | 0.00 | 0.00 | 4.58 | 13.62 | 4.66 | 0.74 | 4.79 | 0.81 | 0.00 | 0.00 | 5.98 | 16.98 |
| | H25ME003 | 5.68 | 1.02 | 4.34 | 0.74 | 0.00 | 0.00 | 6.38 | 18.16 | 6.49 | 1.03 | 5.75 | 0.98 | 0.00 | 0.00 | 8.33 | 22.58 |
| | H25WN001 | 1.02 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 | 2.44 | | | | | | | | |
| | H25WN002 | 1.17 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.72 | 3.03 | | | | | | | | |
| | H25WN003 | 1.28 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.89 | 3.32 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***H25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | H25WN004 | 1.41 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 2.08 | 3.65 | | | | | | | | |
| | H25WN005 | 1.60 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 4.16 | | | | | | | | |
| **H30** | | | | | | | | | | | | | | | | | |
| | H30CA005 | 18.83 | 3.46 | 12.79 | 2.06 | 1.45 | 0.25 | 15.19 | 54.03 | 23.18 | 3.55 | 16.31 | 2.62 | 5.22 | 0.89 | 20.57 | 72.34 |
| | H30CA007 | 15.68 | 2.93 | 10.25 | 1.65 | 1.99 | 0.34 | 12.71 | 45.55 | 19.30 | 3.01 | 13.07 | 2.10 | 7.17 | 1.23 | 17.20 | 63.08 |
| | H30GA006 | 27.50 | 5.02 | 19.73 | 3.17 | 1.36 | 0.23 | 22.15 | 79.16 | 33.85 | 5.14 | 25.17 | 4.05 | 4.83 | 0.83 | 29.98 | 103.85 |
| | H30GA007 | 19.41 | 3.53 | 11.69 | 1.88 | 0.84 | 0.14 | 15.62 | 53.11 | 23.89 | 3.62 | 14.91 | 2.40 | 2.97 | 0.51 | 21.15 | 69.45 |
| | H30GA008 | 24.09 | 5.47 | 17.76 | 2.86 | 5.03 | 0.86 | 23.41 | 79.48 | 30.12 | 5.59 | 22.36 | 3.59 | 17.79 | 3.04 | 31.69 | 114.18 |
| | H30KM001 | 18.66 | 4.14 | 10.42 | 1.67 | 0.90 | 0.15 | 18.02 | 53.96 | 23.32 | 4.23 | 13.29 | 2.14 | 3.23 | 0.55 | 24.40 | 71.16 |
| **H35** | | | | | | | | | | | | | | | | | |
| | H35HI006 | 68.86 | 21.12 | 58.02 | 3.37 | 0.00 | 0.00 | 124.20 | 275.57 | 78.69 | 21.32 | 76.74 | 4.46 | 0.00 | 0.00 | 153.85 | 335.06 |
| | H35OK001 | 43.65 | 13.39 | 54.95 | 3.19 | 0.00 | 0.00 | 78.73 | 193.91 | 49.88 | 13.51 | 72.67 | 4.23 | 0.00 | 0.00 | 97.52 | 237.81 |
| | H35OK003 | 88.63 | 27.19 | 92.15 | 5.36 | 0.00 | 0.00 | 159.86 | 373.19 | 101.29 | 27.44 | 121.87 | 7.09 | 0.00 | 0.00 | 198.02 | 455.71 |
| | H35OK004 | 141.40 | 43.37 | 115.87 | 6.74 | 0.00 | 0.00 | 255.04 | 562.42 | 161.59 | 43.78 | 153.24 | 8.91 | 0.00 | 0.00 | 315.92 | 683.44 |
| | H35OK005 | 266.59 | 81.77 | 203.67 | 11.84 | 0.00 | 0.00 | 480.85 | 1,044.72 | 304.67 | 82.54 | 269.37 | 15.66 | 0.00 | 0.00 | 595.63 | 1,267.87 |
| **L10** | | | | | | | | | | | | | | | | | |
| | L10BS002 | 2.42 | 0.48 | 0.00 | 0.30 | 0.00 | 0.00 | 3.43 | 6.63 | 3.46 | 0.50 | 0.00 | 0.30 | 0.00 | 0.00 | 5.45 | 9.71 |
| | L10BS004 | 0.84 | 0.17 | 0.00 | 0.25 | 0.00 | 0.00 | 1.19 | 2.45 | 1.19 | 0.17 | 0.00 | 0.25 | 0.00 | 0.00 | 1.88 | 3.49 |
| | L10BS005 | 2.22 | 0.44 | 0.00 | 0.30 | 0.00 | 0.00 | 3.15 | 6.11 | 3.17 | 0.46 | 0.00 | 0.30 | 0.00 | 0.00 | 5.00 | 8.93 |
| | L10BS007 | 3.11 | 0.62 | 0.00 | 0.50 | 0.00 | 0.00 | 4.42 | 8.65 | 4.45 | 0.65 | 0.00 | 0.50 | 0.00 | 0.00 | 7.01 | 12.61 |
| | L10BU005 | 0.79 | 0.16 | 0.00 | 1.10 | 0.00 | 0.00 | 1.11 | 3.16 | 1.12 | 0.16 | 0.00 | 1.10 | 0.00 | 0.00 | 1.77 | 4.15 |
| | L10BU009 | 0.42 | 0.08 | 0.00 | 0.90 | 0.00 | 0.00 | 0.59 | 1.99 | 0.60 | 0.09 | 0.00 | 0.90 | 0.00 | 0.00 | 0.94 | 2.53 |
| | L10BU010 | 0.40 | 0.08 | 0.00 | 0.80 | 0.00 | 0.00 | 0.57 | 1.85 | 0.57 | 0.08 | 0.00 | 0.80 | 0.00 | 0.00 | 0.90 | 2.35 |
| | L10BU011 | 0.86 | 0.17 | 0.00 | 1.50 | 0.00 | 0.00 | 1.22 | 3.75 | 1.23 | 0.18 | 0.00 | 1.50 | 0.00 | 0.00 | 1.94 | 4.85 |
| | L10BU012 | 1.77 | 0.35 | 0.00 | 2.00 | 0.00 | 0.00 | 2.51 | 6.63 | 2.53 | 0.37 | 0.00 | 2.00 | 0.00 | 0.00 | 3.98 | 8.88 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***L10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | L10BU013 | 1.84 | 0.37 | 0.00 | 2.50 | 0.00 | 0.00 | 2.61 | 7.32 | 2.62 | 0.38 | 0.00 | 2.50 | 0.00 | 0.00 | 4.14 | 9.64 |
| | L10RM001 | 4.31 | 0.86 | 0.00 | 0.40 | 0.00 | 0.00 | 6.12 | 11.69 | 6.16 | 0.89 | 0.00 | 0.40 | 0.00 | 0.00 | 9.71 | 17.16 |
| | L10RM002 | 3.91 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 5.55 | 10.24 | 5.59 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 8.81 | 15.21 |
| | L10VE002 | 1.87 | 0.38 | 5.99 | 0.87 | 0.07 | 0.01 | 2.66 | 11.85 | 2.67 | 0.39 | 7.77 | 1.13 | 0.23 | 0.04 | 4.22 | 16.45 |
| | L10VE005 | 1.00 | 0.21 | 2.23 | 0.32 | 0.06 | 0.01 | 1.43 | 5.26 | 1.43 | 0.21 | 2.88 | 0.42 | 0.20 | 0.03 | 2.27 | 7.44 |
| | L10VE006 | 2.65 | 0.53 | 3.42 | 0.50 | 0.06 | 0.01 | 3.76 | 10.93 | 3.78 | 0.55 | 4.44 | 0.64 | 0.20 | 0.03 | 5.97 | 15.61 |
| | L10VE007 | 2.32 | 0.46 | 0.00 | 1.50 | 0.00 | 0.00 | 3.29 | 7.57 | 3.32 | 0.48 | 0.00 | 1.50 | 0.00 | 0.00 | 5.23 | 10.53 |
| | L10VE009 | 2.96 | 0.59 | 6.61 | 0.83 | 0.06 | 0.01 | 4.21 | 15.27 | 4.23 | 0.62 | 8.43 | 1.06 | 0.20 | 0.03 | 6.68 | 21.25 |
| | L10VE010 | 1.02 | 0.21 | 4.62 | 0.67 | 0.03 | 0.01 | 1.46 | 8.02 | 1.46 | 0.22 | 5.99 | 0.87 | 0.10 | 0.02 | 2.31 | 10.97 |
| **L15** | | | | | | | | | | | | | | | | | |
| | L15BW001 | 3.56 | 0.31 | 5.71 | 0.66 | 0.08 | 0.01 | 3.69 | 14.02 | | | | | | | | |
| | L15BW002 | 6.41 | 0.55 | 7.99 | 0.93 | 0.17 | 0.03 | 6.65 | 22.73 | | | | | | | | |
| | L15BW003 | 7.40 | 0.63 | 11.41 | 1.32 | 0.17 | 0.03 | 7.67 | 28.63 | | | | | | | | |
| | L15BW004 | 10.73 | 0.90 | 9.99 | 1.16 | 0.00 | 0.00 | 11.10 | 33.88 | | | | | | | | |
| | L15FG001 | 40.57 | 3.42 | 18.19 | 2.11 | 0.00 | 0.00 | 41.96 | 106.25 | | | | | | | | |
| | L15FG002 | 9.26 | 0.79 | 12.76 | 1.48 | 0.12 | 0.02 | 9.59 | 34.02 | | | | | | | | |
| | L15HZ001 | 0.18 | 0.01 | 0.68 | 0.08 | 0.00 | 0.00 | 0.18 | 1.13 | | | | | | | | |
| | L15JD001 | 1.69 | 0.20 | 4.56 | 0.53 | 1.54 | 0.26 | 1.86 | 10.64 | | | | | | | | |
| | L15JD005 | 0.50 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 1.05 | | | | | | | | |
| | L15JD006 | 0.91 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.94 | 1.93 | | | | | | | | |
| | L15TO001 | 0.29 | 0.02 | 1.37 | 0.16 | 0.00 | 0.00 | 0.30 | 2.14 | | | | | | | | |
| | L15TO002 | 0.78 | 0.07 | 3.42 | 0.40 | 0.18 | 0.03 | 0.83 | 5.71 | | | | | | | | |
| | L15TO003 | 1.59 | 0.14 | 4.79 | 0.55 | 0.18 | 0.03 | 1.66 | 8.94 | | | | | | | | |
| | L15TO004 | 1.72 | 0.15 | 4.79 | 0.55 | 0.16 | 0.03 | 1.79 | 9.19 | | | | | | | | |
| | L15TO006 | 3.17 | 0.28 | 6.62 | 0.77 | 0.30 | 0.05 | 3.30 | 14.49 | | | | | | | | |
| | L15TO007 | 3.28 | 0.29 | 6.62 | 0.77 | 0.30 | 0.05 | 3.41 | 14.72 | | | | | | | | |
| | L15WI001 | 1.71 | 0.15 | 0.00 | 0.05 | 0.10 | 0.02 | 1.79 | 3.82 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **L20** | | | | | | | | | | | | | | | | | |
| | L20AB017 | 1.37 | 0.23 | 1.60 | 0.19 | 0.06 | 0.01 | 3.24 | 6.70 | | | | | | | | |
| | L20AB018 | 1.53 | 0.25 | 1.71 | 0.20 | 0.06 | 0.01 | 3.61 | 7.37 | | | | | | | | |
| | L20AB019 | 1.79 | 0.30 | 1.71 | 0.20 | 0.06 | 0.01 | 4.23 | 8.30 | | | | | | | | |
| | L20AB020 | 1.15 | 0.19 | 1.38 | 0.16 | 0.06 | 0.01 | 2.73 | 5.68 | | | | | | | | |
| | L20AB021 | 1.22 | 0.20 | 1.71 | 0.20 | 0.06 | 0.01 | 2.89 | 6.29 | | | | | | | | |
| | L20AB022 | 1.38 | 0.23 | 1.60 | 0.19 | 0.06 | 0.01 | 3.26 | 6.73 | | | | | | | | |
| | L20AB023 | 0.56 | 0.09 | 0.00 | 0.00 | 0.04 | 0.01 | 1.34 | 2.04 | | | | | | | | |
| | L20AB024 | 0.60 | 0.10 | 0.00 | 0.00 | 0.04 | 0.01 | 1.43 | 2.18 | | | | | | | | |
| **L25** | | | | | | | | | | | | | | | | | |
| | L25JE001 | 1.20 | 0.20 | 3.17 | 0.37 | 0.00 | 0.00 | 2.26 | 7.20 | | | | | | | | |
| | L25JE002 | 10.07 | 1.66 | 27.54 | 3.19 | 0.32 | 0.05 | 19.03 | 61.86 | | | | | | | | |
| | L25MB002 | 0.51 | 0.10 | 1.22 | 1.14 | 0.31 | 0.05 | 1.01 | 4.34 | | | | | | | | |
| | L25MB004 | 15.63 | 2.57 | 46.38 | 6.87 | 0.32 | 0.05 | 29.51 | 101.33 | | | | | | | | |
| | L25MB005 | 1.03 | 0.19 | 2.44 | 1.28 | 0.31 | 0.05 | 1.98 | 7.28 | | | | | | | | |
| | L25MB006 | 9.54 | 1.56 | 14.65 | 2.95 | 0.00 | 0.00 | 17.98 | 46.68 | | | | | | | | |
| | L25MB007 | 5.36 | 0.87 | 5.61 | 1.65 | 0.00 | 0.00 | 10.10 | 23.59 | | | | | | | | |
| | L25MB008 | 16.80 | 2.80 | 22.75 | 4.14 | 0.91 | 0.16 | 31.80 | 79.36 | | | | | | | | |
| **L30** | | | | | | | | | | | | | | | | | |
| | L30HW015 | 11.44 | 2.33 | 1.58 | 0.86 | 0.69 | 0.12 | 18.05 | 35.07 | 14.30 | 2.39 | 2.06 | 1.12 | 2.21 | 0.38 | 24.82 | 47.28 |
| | L30KB001 | 2.71 | 0.56 | 0.95 | 0.52 | 0.23 | 0.04 | 4.28 | 9.29 | 3.39 | 0.57 | 1.24 | 0.67 | 0.74 | 0.13 | 5.89 | 12.63 |
| | L30KB002 | 2.86 | 0.59 | 0.95 | 0.52 | 0.23 | 0.04 | 4.52 | 9.71 | 3.58 | 0.60 | 1.24 | 0.67 | 0.74 | 0.13 | 6.22 | 13.18 |
| | L30RA001 | 5.96 | 1.20 | 2.26 | 0.31 | 0.25 | 0.04 | 9.38 | 19.40 | 7.45 | 1.23 | 2.99 | 0.40 | 0.80 | 0.14 | 12.91 | 25.92 |
| | L30S4001 | 1.54 | 0.31 | 0.95 | 0.52 | 0.00 | 0.00 | 2.41 | 5.73 | 1.92 | 0.31 | 1.24 | 0.67 | 0.00 | 0.00 | 3.32 | 7.46 |
| | L30S4002 | 1.75 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.75 | 4.85 | 2.19 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.78 | 6.33 |
| | L30S4003 | 0.13 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.37 | 0.17 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.49 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***L30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | L30S4004 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.61 | 0.28 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.81 |
| | L30TS001 | 2.92 | 0.62 | 0.76 | 0.41 | 0.53 | 0.09 | 4.65 | 9.98 | 3.65 | 0.63 | 0.99 | 0.54 | 1.67 | 0.29 | 6.39 | 14.16 |
| **L35** | | | | | | | | | | | | | | | | | |
| | L35CA005 | 16.84 | 3.35 | 14.69 | 1.69 | 0.00 | 0.00 | 29.20 | 65.77 | 21.05 | 3.44 | 19.02 | 2.19 | 0.00 | 0.00 | 41.48 | 87.18 |
| | L35CA007 | 31.51 | 6.27 | 24.03 | 2.77 | 0.00 | 0.00 | 54.63 | 119.21 | 39.39 | 6.43 | 31.09 | 3.58 | 0.00 | 0.00 | 77.60 | 158.09 |
| | L35CA013 | 10.26 | 2.04 | 8.94 | 1.03 | 0.00 | 0.00 | 17.80 | 40.07 | 12.83 | 2.09 | 11.56 | 1.33 | 0.00 | 0.00 | 25.28 | 53.09 |
| | L35CA014 | 22.96 | 4.57 | 15.88 | 1.83 | 0.00 | 0.00 | 39.80 | 85.04 | 28.70 | 4.68 | 20.56 | 2.37 | 0.00 | 0.00 | 56.53 | 112.84 |
| | L35KM006 | 37.23 | 7.41 | 19.86 | 2.29 | 0.00 | 0.00 | 64.55 | 131.34 | 46.54 | 7.59 | 25.70 | 2.96 | 0.00 | 0.00 | 91.68 | 174.47 |
| **L40** | | | | | | | | | | | | | | | | | |
| | L40CA007 | 26.99 | 7.47 | 27.16 | 2.48 | 11.88 | 2.03 | 30.13 | 108.14 | 30.36 | 7.54 | 35.92 | 3.28 | 42.75 | 7.31 | 36.32 | 163.48 |
| | L40CA009 | 91.30 | 25.71 | 72.42 | 6.60 | 20.94 | 3.58 | 102.31 | 322.86 | 102.71 | 25.95 | 95.78 | 8.74 | 75.39 | 12.89 | 123.31 | 444.77 |
| | L40CA012 | 14.33 | 3.18 | 13.13 | 1.66 | 1.04 | 0.18 | 20.55 | 54.07 | 15.50 | 3.20 | 17.36 | 2.20 | 3.75 | 0.64 | 23.53 | 66.18 |
| | L40CA013 | 8.94 | 2.00 | 8.15 | 1.03 | 1.00 | 0.17 | 12.84 | 34.13 | 9.66 | 2.01 | 10.77 | 1.36 | 3.58 | 0.61 | 14.70 | 42.69 |
| | L40CA014 | 19.97 | 4.42 | 18.10 | 2.29 | 1.35 | 0.23 | 28.63 | 74.99 | 21.59 | 4.46 | 23.94 | 3.03 | 4.85 | 0.83 | 32.77 | 91.47 |
| | L40CA015 | 11.43 | 2.37 | 13.49 | 1.71 | 1.04 | 0.18 | 13.51 | 43.73 | 12.08 | 2.39 | 17.84 | 2.26 | 3.75 | 0.64 | 16.33 | 55.29 |
| | L40CA018 | 66.86 | 18.59 | 55.94 | 5.10 | 12.60 | 2.15 | 74.72 | 235.96 | 75.21 | 18.76 | 73.99 | 6.75 | 45.35 | 7.75 | 90.05 | 317.86 |
| | L40CA019 | 8.25 | 1.72 | 8.60 | 1.09 | 1.00 | 0.17 | 9.76 | 30.59 | 8.72 | 1.73 | 11.37 | 1.44 | 3.58 | 0.61 | 11.80 | 39.25 |
| | L40CA022 | 11.50 | 2.39 | 11.59 | 1.47 | 1.04 | 0.18 | 13.60 | 41.77 | 12.16 | 2.40 | 15.32 | 1.94 | 3.75 | 0.64 | 16.43 | 52.64 |
| | L40CA023 | 13.77 | 2.92 | 16.29 | 2.06 | 2.71 | 0.46 | 16.37 | 54.58 | 14.56 | 2.93 | 21.55 | 2.73 | 9.76 | 1.67 | 19.77 | 72.97 |
| | L40CA024 | 17.23 | 3.67 | 17.83 | 2.26 | 3.96 | 0.68 | 20.51 | 66.14 | 18.21 | 3.69 | 23.58 | 2.98 | 14.26 | 2.44 | 24.77 | 89.93 |
| | L40CA025 | 18.33 | 3.90 | 19.10 | 2.42 | 3.96 | 0.68 | 21.81 | 70.20 | 19.38 | 3.92 | 25.26 | 3.20 | 14.26 | 2.44 | 26.35 | 94.81 |
| | L40CA028 | 3.05 | 0.52 | 4.86 | 0.62 | 0.86 | 0.15 | 3.89 | 13.95 | | | | | | | | |
| | L40CA029 | 3.39 | 0.58 | 5.36 | 0.68 | 0.86 | 0.15 | 4.32 | 15.34 | | | | | | | | |
| | L40CA030 | 3.81 | 0.66 | 5.86 | 0.74 | 1.19 | 0.20 | 4.87 | 17.33 | | | | | | | | |
| | L40CA031 | 3.71 | 0.64 | 7.35 | 0.93 | 1.19 | 0.20 | 4.74 | 18.76 | | | | | | | | |
| | L40CA032 | 3.76 | 0.80 | 4.71 | 0.60 | 0.57 | 0.10 | 4.48 | 15.02 | 3.97 | 0.81 | 6.23 | 0.79 | 2.06 | 0.35 | 5.41 | 19.62 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***L40*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | L40CA033 | 4.97 | 1.05 | 6.16 | 0.78 | 0.57 | 0.10 | 5.91 | 19.54 | 5.26 | 1.06 | 8.14 | 1.03 | 2.06 | 0.35 | 7.14 | 25.04 |
| | L40CA034 | 5.58 | 1.23 | 6.88 | 0.87 | 2.98 | 0.51 | 6.70 | 24.75 | 5.90 | 1.24 | 9.10 | 1.15 | 10.72 | 1.83 | 8.09 | 38.03 |
| | L40CS009 | 12.74 | 2.67 | 12.31 | 1.56 | 1.92 | 0.33 | 15.11 | 46.64 | 13.47 | 2.69 | 16.28 | 2.06 | 6.92 | 1.18 | 18.25 | 60.85 |
| | L40CS010 | 15.24 | 3.18 | 16.38 | 2.07 | 1.92 | 0.33 | 18.05 | 57.17 | 16.11 | 3.20 | 21.67 | 2.74 | 6.92 | 1.18 | 21.80 | 73.62 |
| | L40CS011 | 18.94 | 4.02 | 16.93 | 2.14 | 3.96 | 0.68 | 22.52 | 69.19 | 20.02 | 4.04 | 22.39 | 2.83 | 14.26 | 2.44 | 27.21 | 93.19 |
| | L40KM003 | 12.28 | 2.55 | 12.58 | 1.59 | 1.26 | 0.22 | 14.53 | 45.01 | 12.98 | 2.57 | 16.64 | 2.11 | 4.53 | 0.77 | 17.55 | 57.15 |
| | L40KM008 | 26.97 | 7.47 | 30.32 | 2.77 | 7.60 | 1.30 | 30.12 | 106.55 | 30.34 | 7.54 | 40.11 | 3.66 | 27.36 | 4.68 | 36.30 | 149.99 |
| | L40KM009 | 38.04 | 10.67 | 44.35 | 4.04 | 8.28 | 1.42 | 42.60 | 149.40 | 42.80 | 10.77 | 58.66 | 5.35 | 29.80 | 5.10 | 51.34 | 203.82 |
| | L40KM010 | 62.15 | 17.36 | 61.92 | 5.65 | 12.60 | 2.15 | 69.52 | 231.35 | 69.92 | 17.52 | 81.89 | 7.47 | 45.35 | 7.75 | 83.79 | 313.69 |
| | L40KM011 | 78.21 | 22.28 | 77.21 | 7.04 | 20.94 | 3.58 | 87.86 | 297.12 | 87.99 | 22.49 | 102.12 | 9.31 | 75.39 | 12.89 | 105.90 | 416.09 |
| | L40KM015 | 7.07 | 1.50 | 6.79 | 0.86 | 0.95 | 0.16 | 8.40 | 25.73 | 7.47 | 1.51 | 8.98 | 1.14 | 3.42 | 0.58 | 10.15 | 33.25 |
| | L40ME012 | 2.72 | 0.45 | 4.57 | 0.58 | 0.38 | 0.06 | 3.44 | 12.20 | | | | | | | | |
| | L40ME016 | 1.64 | 0.28 | 2.33 | 0.29 | 0.31 | 0.05 | 2.09 | 6.99 | | | | | | | | |
| | L40ME017 | 2.03 | 0.35 | 3.52 | 0.45 | 0.50 | 0.09 | 2.59 | 9.53 | | | | | | | | |
| | L40ME021 | 2.28 | 0.40 | 4.86 | 0.62 | 0.84 | 0.14 | 2.91 | 12.05 | | | | | | | | |
| | L40ME022 | 3.41 | 0.58 | 7.45 | 0.94 | 0.84 | 0.14 | 4.34 | 17.70 | | | | | | | | |
| | L40ME023 | 3.81 | 0.65 | 8.04 | 1.02 | 0.84 | 0.14 | 4.84 | 19.34 | | | | | | | | |
| **L50** | | | | | | | | | | | | | | | | | |
| | L50CA001 | 4.62 | 1.06 | 5.47 | 2.75 | 0.72 | 0.12 | 6.30 | 21.04 | 7.71 | 1.12 | 7.74 | 3.89 | 2.57 | 0.44 | 11.15 | 34.62 |
| | L50CA004 | 11.07 | 2.51 | 7.71 | 3.88 | 1.29 | 0.22 | 15.04 | 41.72 | 18.45 | 2.66 | 10.92 | 5.49 | 4.57 | 0.78 | 26.62 | 69.49 |
| | L50CS005 | 6.99 | 1.59 | 6.31 | 3.17 | 0.93 | 0.16 | 9.51 | 28.66 | 11.66 | 1.69 | 8.94 | 4.49 | 3.31 | 0.57 | 16.83 | 47.49 |
| | L50CS006 | 8.41 | 1.91 | 6.87 | 3.45 | 1.10 | 0.19 | 11.42 | 33.35 | 14.01 | 2.03 | 9.73 | 4.89 | 3.92 | 0.67 | 20.22 | 55.47 |
| | L50JC001 | 5.38 | 1.21 | 4.70 | 2.36 | 0.45 | 0.08 | 7.28 | 21.46 | 8.97 | 1.28 | 6.65 | 3.34 | 1.63 | 0.28 | 12.90 | 35.05 |
| | L50JC002 | 6.02 | 1.38 | 6.45 | 3.24 | 0.92 | 0.16 | 8.20 | 26.37 | 10.04 | 1.46 | 9.13 | 4.59 | 3.27 | 0.56 | 14.52 | 43.57 |
| | L50JC003 | 7.28 | 1.67 | 7.01 | 3.52 | 1.24 | 0.21 | 9.91 | 30.84 | 12.14 | 1.77 | 9.93 | 4.99 | 4.47 | 0.76 | 17.55 | 51.61 |
| | L50JC005 | 8.48 | 1.93 | 7.01 | 3.52 | 1.24 | 0.21 | 11.53 | 33.92 | 14.13 | 2.05 | 9.93 | 4.99 | 4.47 | 0.76 | 20.41 | 56.74 |
| | L50JC007 | 10.87 | 2.46 | 7.01 | 3.52 | 1.39 | 0.24 | 14.75 | 40.24 | 18.11 | 2.61 | 9.93 | 4.99 | 4.99 | 0.85 | 26.12 | 67.60 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **L55** | | | | | | | | | | | | | | | | | |
| | L55KN001 | 0.95 | 0.12 | 0.00 | 0.52 | 0.00 | 0.00 | 1.48 | 3.07 | | | | | | | | |
| | L55KN002 | 1.93 | 0.25 | 0.00 | 1.06 | 0.00 | 0.00 | 3.03 | 6.27 | | | | | | | | |
| | L55KN004 | 1.79 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.81 | 4.83 | | | | | | | | |
| | L55KN005 | 2.64 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 4.14 | 7.12 | | | | | | | | |
| | L55KN006 | 3.94 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 10.62 | | | | | | | | |
| **L60** | | | | | | | | | | | | | | | | | |
| | L60CA010 | 28.79 | 5.22 | 13.58 | 1.84 | 0.00 | 0.00 | 31.00 | 80.43 | 35.99 | 5.37 | 17.96 | 2.43 | 0.00 | 0.00 | 44.29 | 106.04 |
| | L60CA011 | 34.43 | 6.24 | 13.58 | 1.84 | 0.00 | 0.00 | 37.06 | 93.15 | 43.04 | 6.42 | 17.96 | 2.43 | 0.00 | 0.00 | 52.96 | 122.81 |
| | L60CA013 | 19.38 | 3.65 | 14.48 | 1.96 | 2.25 | 0.38 | 20.98 | 63.08 | 24.22 | 3.75 | 19.16 | 2.59 | 7.86 | 1.34 | 29.98 | 88.90 |
| | L60CA014 | 25.12 | 4.55 | 10.86 | 1.47 | 0.00 | 0.00 | 27.04 | 69.04 | 31.40 | 4.68 | 14.37 | 1.95 | 0.00 | 0.00 | 38.65 | 91.05 |
| | L60JD001 | 12.76 | 2.46 | 10.77 | 1.46 | 2.89 | 0.49 | 13.87 | 44.70 | 15.96 | 2.53 | 14.25 | 1.93 | 10.39 | 1.78 | 19.82 | 66.66 |
| | L60JD002 | 15.26 | 2.91 | 13.67 | 1.85 | 2.89 | 0.49 | 16.56 | 53.63 | 19.08 | 3.00 | 18.08 | 2.45 | 10.39 | 1.78 | 23.67 | 78.45 |
| | L60JD003 | 12.44 | 2.40 | 10.77 | 1.46 | 2.89 | 0.49 | 13.52 | 43.97 | 15.55 | 2.47 | 14.25 | 1.93 | 10.39 | 1.78 | 19.32 | 65.69 |
| | L60JD004 | 16.27 | 3.18 | 14.48 | 1.96 | 4.52 | 0.77 | 17.71 | 58.89 | 20.33 | 3.27 | 19.16 | 2.59 | 16.29 | 2.79 | 25.31 | 89.74 |
| | L60JD006 | 20.09 | 3.84 | 15.39 | 2.08 | 3.85 | 0.66 | 21.80 | 67.71 | 25.11 | 3.94 | 20.35 | 2.76 | 13.86 | 2.37 | 31.14 | 99.53 |
| | L60JD007 | 22.05 | 4.19 | 18.10 | 2.45 | 3.85 | 0.66 | 23.91 | 75.21 | 27.56 | 4.31 | 23.94 | 3.24 | 13.86 | 2.37 | 34.17 | 109.45 |
| | L60JD008 | 30.36 | 5.50 | 15.39 | 2.08 | 0.00 | 0.00 | 32.68 | 86.01 | 37.95 | 5.66 | 20.35 | 2.76 | 0.00 | 0.00 | 46.70 | 113.42 |
| **M10** | | | | | | | | | | | | | | | | | |
| | M10MZ001 | 3.03 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 5.51 | | | | | | | | |
| | M10MZ003 | 3.72 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 2.65 | 6.77 | | | | | | | | |
| | M10MZ005 | 0.85 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.73 | 1.97 | | | | | | | | |
| | M10MZ007 | 0.89 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 2.06 | | | | | | | | |
| | M10MZ010 | 2.67 | 0.74 | 12.67 | 2.33 | 0.00 | 0.00 | 2.82 | 21.23 | 3.29 | 0.76 | 16.76 | 3.08 | 0.00 | 0.00 | 3.72 | 27.61 |
| | M10MZ011 | 3.85 | 1.07 | 19.01 | 3.49 | 0.00 | 0.00 | 4.06 | 31.48 | 4.74 | 1.09 | 25.14 | 4.62 | 0.00 | 0.00 | 5.36 | 40.95 |
| | M10SM001 | 3.12 | 0.87 | 28.05 | 4.34 | 0.00 | 0.00 | 3.30 | 39.68 | 3.84 | 0.88 | 36.61 | 5.66 | 0.00 | 0.00 | 4.35 | 51.34 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***M10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | M10SM003 | 3.88 | 1.08 | 37.41 | 5.78 | 0.00 | 0.00 | 4.09 | 52.24 | 4.77 | 1.10 | 48.82 | 7.55 | 0.00 | 0.00 | 5.39 | 67.63 |
| | M10SM004 | 4.17 | 1.16 | 46.76 | 7.23 | 0.00 | 0.00 | 4.40 | 63.72 | 5.13 | 1.18 | 61.02 | 9.43 | 0.00 | 0.00 | 5.80 | 82.56 |
| | M10SM005 | 1.44 | 0.40 | 21.51 | 3.33 | 0.00 | 0.00 | 1.52 | 28.20 | 1.78 | 0.41 | 28.07 | 4.34 | 0.00 | 0.00 | 2.01 | 36.61 |
| | M10SM008 | 2.62 | 0.73 | 37.41 | 5.78 | 0.00 | 0.00 | 2.76 | 49.30 | 3.22 | 0.74 | 48.82 | 7.55 | 0.00 | 0.00 | 3.64 | 63.97 |
| | M10XX001 | 0.19 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.44 | | | | | | | | |
| | M10XX002 | 0.59 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 1.36 | | | | | | | | |
| | M10XX003 | 0.71 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.61 | 1.64 | | | | | | | | |
| | M10XX004 | 1.15 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 2.66 | | | | | | | | |
| | M10XX005 | 1.74 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.41 | 5.26 | | | | | | | | |
| | M10XX006 | 2.45 | 2.97 | 0.00 | 0.00 | 0.00 | 0.00 | 1.99 | 7.41 | | | | | | | | |
| | M10XX007 | 3.12 | 3.78 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 9.43 | | | | | | | | |
| | M10XX008 | 4.33 | 5.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.51 | 13.08 | | | | | | | | |
| | M10XX009 | 0.79 | 0.22 | 9.35 | 1.45 | 0.00 | 0.00 | 0.84 | 12.65 | 0.98 | 0.22 | 12.20 | 1.89 | 0.00 | 0.00 | 1.10 | 16.39 |
| | M10XX010 | 2.63 | 0.73 | 6.79 | 1.25 | 0.00 | 0.00 | 2.77 | 14.17 | 3.23 | 0.74 | 8.98 | 1.65 | 0.00 | 0.00 | 3.65 | 18.25 |
| | M10XX011 | 3.02 | 0.84 | 9.05 | 1.66 | 0.00 | 0.00 | 3.19 | 17.76 | 3.72 | 0.86 | 11.97 | 2.20 | 0.00 | 0.00 | 4.21 | 22.96 |
| | M10XX012 | 3.08 | 0.86 | 9.05 | 1.66 | 0.00 | 0.00 | 3.25 | 17.90 | 3.79 | 0.87 | 11.97 | 2.20 | 0.00 | 0.00 | 4.29 | 23.12 |
| | M10XX013 | 3.99 | 1.11 | 10.41 | 1.91 | 0.00 | 0.00 | 4.22 | 21.64 | 4.92 | 1.13 | 13.77 | 2.53 | 0.00 | 0.00 | 5.56 | 27.91 |
| | M10XX014 | 5.51 | 1.53 | 15.84 | 2.91 | 0.00 | 0.00 | 5.81 | 31.60 | 6.78 | 1.56 | 20.95 | 3.85 | 0.00 | 0.00 | 7.67 | 40.81 |
| | M10XX015 | 6.92 | 1.92 | 22.63 | 4.16 | 0.00 | 0.00 | 7.30 | 42.93 | 8.51 | 1.96 | 29.93 | 5.50 | 0.00 | 0.00 | 9.62 | 55.52 |
| | M10XX016 | 7.81 | 3.25 | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 | 18.44 | | | | | | | | |
| | M10XX017 | 8.26 | 3.44 | 0.00 | 0.00 | 0.00 | 0.00 | 7.80 | 19.50 | | | | | | | | |
| | M10XX018 | 10.29 | 4.28 | 0.00 | 0.00 | 0.00 | 0.00 | 9.72 | 24.29 | | | | | | | | |
| | M10XX019 | 10.51 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 | 9.93 | 24.82 | | | | | | | | |
| | M10XX021 | 17.20 | 4.86 | 34.40 | 6.32 | 0.00 | 0.00 | 19.59 | 82.37 | 20.64 | 4.93 | 45.49 | 8.36 | 0.00 | 0.00 | 24.97 | 104.39 |
| | M10XX022 | 19.57 | 5.53 | 39.38 | 7.24 | 0.00 | 0.00 | 22.28 | 94.00 | 23.48 | 5.61 | 52.08 | 9.57 | 0.00 | 0.00 | 28.41 | 119.15 |
| | M10XX023 | 26.19 | 7.41 | 36.21 | 6.65 | 0.00 | 0.00 | 29.82 | 106.28 | 31.42 | 7.51 | 47.89 | 8.80 | 0.00 | 0.00 | 38.02 | 133.64 |
| | M10XX024 | 37.34 | 10.56 | 39.38 | 7.24 | 0.00 | 0.00 | 42.52 | 137.04 | 44.80 | 10.70 | 52.08 | 9.57 | 0.00 | 0.00 | 54.21 | 171.36 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **P10** | | | | | | | | | | | | | | | | | |
| | P10IC001 | 12.22 | 2.06 | 15.84 | 2.45 | 0.00 | 0.00 | 18.90 | 51.47 | | | | | | | | |
| | P10IC002 | 19.24 | 3.24 | 27.16 | 4.20 | 0.00 | 0.00 | 29.75 | 83.59 | | | | | | | | |
| | P10IC005 | 50.98 | 8.59 | 72.42 | 11.20 | 0.00 | 0.00 | 78.82 | 222.01 | | | | | | | | |
| | P10IC010 | 1.89 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 5.14 | | | | | | | | |
| | P10IC011 | 3.66 | 0.62 | 1.18 | 0.18 | 0.00 | 0.00 | 5.66 | 11.30 | | | | | | | | |
| | P10IC012 | 2.68 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 4.15 | 7.28 | | | | | | | | |
| | P10IC013 | 4.57 | 0.77 | 2.43 | 0.38 | 0.00 | 0.00 | 7.06 | 15.21 | | | | | | | | |
| **P20** | | | | | | | | | | | | | | | | | |
| | P20IC002 | 12.81 | 1.78 | 0.00 | 1.90 | 0.00 | 0.00 | 23.60 | 40.09 | | | | | | | | |
| | P20IC003 | 13.06 | 1.82 | 0.00 | 2.50 | 0.00 | 0.00 | 24.06 | 41.44 | | | | | | | | |
| | P20IC004 | 13.96 | 1.94 | 0.00 | 3.15 | 0.00 | 0.00 | 25.73 | 44.78 | | | | | | | | |
| | P20MK001 | 7.78 | 1.08 | 0.00 | 1.25 | 0.00 | 0.00 | 14.34 | 24.45 | | | | | | | | |
| | P20MK002 | 2.47 | 0.31 | 0.00 | 0.50 | 0.00 | 0.00 | 4.27 | 7.55 | | | | | | | | |
| | P20MK003 | 3.13 | 0.40 | 0.00 | 1.00 | 0.00 | 0.00 | 5.41 | 9.94 | | | | | | | | |
| | P20MK004 | 3.90 | 0.50 | 0.00 | 1.25 | 0.00 | 0.00 | 6.73 | 12.38 | | | | | | | | |
| | P20MK005 | 6.54 | 0.83 | 0.00 | 1.25 | 0.00 | 0.00 | 11.30 | 19.92 | | | | | | | | |
| | P20MK006 | 7.29 | 0.93 | 0.00 | 2.50 | 0.00 | 0.00 | 12.59 | 23.31 | | | | | | | | |
| | P20MK007 | 8.01 | 1.02 | 0.00 | 2.50 | 0.00 | 0.00 | 13.84 | 25.37 | | | | | | | | |
| **P25** | | | | | | | | | | | | | | | | | |
| | P25DL001 | 7.46 | 0.95 | 0.00 | 0.95 | 0.00 | 0.00 | 11.72 | 21.08 | | | | | | | | |
| | P25DL003 | 8.97 | 1.14 | 0.00 | 1.20 | 0.00 | 0.00 | 14.08 | 25.39 | | | | | | | | |
| | P25DL004 | 10.27 | 1.31 | 0.00 | 1.80 | 0.00 | 0.00 | 16.13 | 29.51 | | | | | | | | |
| | P25DL005 | 14.15 | 1.80 | 0.00 | 2.65 | 0.00 | 0.00 | 22.22 | 40.82 | | | | | | | | |
| | P25DL006 | 14.67 | 1.87 | 0.00 | 3.30 | 0.00 | 0.00 | 23.03 | 42.87 | | | | | | | | |
| | P25DL008 | 18.09 | 2.30 | 0.00 | 5.30 | 0.00 | 0.00 | 28.41 | 54.10 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***P25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | P25DL009 | 27.20 | 3.46 | 0.00 | 6.60 | 0.00 | 0.00 | 42.71 | 79.97 | | | | | | | | |
| | P25DL010 | 39.59 | 5.04 | 0.00 | 8.25 | 0.00 | 0.00 | 62.16 | 115.04 | | | | | | | | |
| | P25DL011 | 42.32 | 5.38 | 0.00 | 9.90 | 0.00 | 0.00 | 66.44 | 124.04 | | | | | | | | |
| | P25IC001 | 9.33 | 1.19 | 0.00 | 2.20 | 0.00 | 0.00 | 14.65 | 27.37 | | | | | | | | |
| | P25IC002 | 10.40 | 1.32 | 0.00 | 3.45 | 0.00 | 0.00 | 16.33 | 31.50 | | | | | | | | |
| | P25IC003 | 15.01 | 1.91 | 0.00 | 4.40 | 0.00 | 0.00 | 23.57 | 44.89 | | | | | | | | |
| | P25IC004 | 16.74 | 2.13 | 0.00 | 5.30 | 0.00 | 0.00 | 26.28 | 50.45 | | | | | | | | |
| | P25IC005 | 20.75 | 2.64 | 0.00 | 6.25 | 0.00 | 0.00 | 32.58 | 62.22 | | | | | | | | |
| | P25IC006 | 25.62 | 3.26 | 0.00 | 7.20 | 0.00 | 0.00 | 40.22 | 76.30 | | | | | | | | |
| | P25MK001 | 9.18 | 1.17 | 0.00 | 2.50 | 0.00 | 0.00 | 14.41 | 27.26 | | | | | | | | |
| | P25MK003 | 15.25 | 1.94 | 0.00 | 4.15 | 0.00 | 0.00 | 23.94 | 45.28 | | | | | | | | |
| | P25VU002 | 10.41 | 1.21 | 0.00 | 2.50 | 0.00 | 0.00 | 15.38 | 29.50 | | | | | | | | |
| | P25VU003 | 12.76 | 1.49 | 0.00 | 2.50 | 0.00 | 0.00 | 18.86 | 35.61 | | | | | | | | |
| | P25VU004 | 13.06 | 1.52 | 0.00 | 2.50 | 0.00 | 0.00 | 19.30 | 36.38 | | | | | | | | |
| | P25VU005 | 17.58 | 2.05 | 0.00 | 2.50 | 0.00 | 0.00 | 25.98 | 48.11 | | | | | | | | |
| | P25VU010 | 18.09 | 2.11 | 0.00 | 0.95 | 0.00 | 0.00 | 26.74 | 47.89 | | | | | | | | |
| | P25VU011 | 18.33 | 2.14 | 0.00 | 1.17 | 0.00 | 0.00 | 27.09 | 48.73 | | | | | | | | |
| **P30** | | | | | | | | | | | | | | | | | |
| | P30MK001 | 13.05 | 1.66 | 16.75 | 2.59 | 0.00 | 0.00 | 20.49 | 54.54 | | | | | | | | |
| | P30MK003 | 22.54 | 2.87 | 29.42 | 4.55 | 0.00 | 0.00 | 35.39 | 94.77 | | | | | | | | |
| | P30MK004 | 38.01 | 4.84 | 57.03 | 8.82 | 0.00 | 0.00 | 59.67 | 168.37 | | | | | | | | |
| **P35** | | | | | | | | | | | | | | | | | |
| | P35CA001 | 13.09 | 3.54 | 5.46 | 1.06 | 0.00 | 0.00 | 19.60 | 42.75 | 15.93 | 3.60 | 7.07 | 1.37 | 0.00 | 0.00 | 27.62 | 55.59 |
| | P35CA006 | 40.09 | 10.86 | 20.85 | 4.04 | 0.00 | 0.00 | 60.04 | 135.88 | 48.81 | 11.03 | 26.98 | 5.23 | 0.00 | 0.00 | 84.63 | 176.68 |
| | P35CA008 | 24.02 | 6.51 | 11.42 | 2.21 | 0.00 | 0.00 | 35.98 | 80.14 | 29.25 | 6.61 | 14.78 | 2.86 | 0.00 | 0.00 | 50.71 | 104.21 |
| | P35CA009 | 30.89 | 8.37 | 15.14 | 2.93 | 0.00 | 0.00 | 46.26 | 103.59 | 37.61 | 8.50 | 19.59 | 3.80 | 0.00 | 0.00 | 65.21 | 134.71 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| P40 | | | | | | | | | | | | | | | | | |
| | P40BX001 | 1.54 | 0.21 | 0.00 | 0.05 | 0.00 | 0.00 | 1.65 | 3.45 | | | | | | | | |
| | P40TE003 | 10.19 | 1.43 | 2.24 | 0.30 | 1.25 | 0.21 | 10.92 | 26.54 | | | | | | | | |
| | P40TE004 | 11.87 | 1.65 | 3.08 | 0.42 | 1.03 | 0.18 | 12.71 | 30.94 | | | | | | | | |
| | P40TE005 | 8.94 | 1.26 | 4.63 | 0.63 | 1.25 | 0.21 | 9.58 | 26.50 | | | | | | | | |
| | P40TE006 | 12.16 | 1.69 | 4.63 | 0.63 | 1.12 | 0.19 | 13.02 | 33.44 | | | | | | | | |
| | P40TE007 | 20.40 | 2.82 | 4.63 | 0.63 | 1.12 | 0.19 | 21.83 | 51.62 | | | | | | | | |
| | P40TE008 | 22.70 | 3.13 | 5.33 | 0.72 | 1.12 | 0.19 | 24.29 | 57.48 | | | | | | | | |
| | P40TE009 | 25.29 | 3.49 | 5.33 | 0.72 | 1.12 | 0.19 | 27.06 | 63.20 | | | | | | | | |
| | P40TE010 | 8.59 | 1.19 | 14.72 | 1.99 | 0.61 | 0.10 | 9.20 | 36.40 | | | | | | | | |
| | P40TE011 | 9.36 | 1.32 | 14.72 | 1.99 | 1.06 | 0.18 | 10.04 | 38.67 | | | | | | | | |
| | P40TE012 | 14.23 | 1.98 | 14.72 | 1.99 | 1.06 | 0.18 | 15.24 | 49.40 | | | | | | | | |
| | P40TE013 | 12.98 | 1.81 | 14.72 | 1.99 | 1.06 | 0.18 | 13.91 | 46.65 | | | | | | | | |
| | P40TE014 | 13.26 | 1.85 | 14.72 | 1.99 | 1.06 | 0.18 | 14.20 | 47.26 | | | | | | | | |
| | P40TE015 | 15.05 | 2.09 | 14.72 | 1.99 | 1.06 | 0.18 | 16.12 | 51.21 | | | | | | | | |
| P45 | | | | | | | | | | | | | | | | | |
| | P45AF002 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.24 | | | | | | | | |
| | P45AF003 | 0.13 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.34 | | | | | | | | |
| | P45AF005 | 1.25 | 0.19 | 3.00 | 0.46 | 0.08 | 0.01 | 1.86 | 6.85 | | | | | | | | |
| | P45AF006 | 1.63 | 0.25 | 3.00 | 0.46 | 0.08 | 0.01 | 2.42 | 7.85 | | | | | | | | |
| | P45AF007 | 3.61 | 0.54 | 3.94 | 0.53 | 0.06 | 0.01 | 5.34 | 14.03 | | | | | | | | |
| | P45AF008 | 0.84 | 0.12 | 0.00 | 0.10 | 0.00 | 0.00 | 1.24 | 2.30 | | | | | | | | |
| | P45AF009 | 2.79 | 0.42 | 0.00 | 0.10 | 0.00 | 0.00 | 4.12 | 7.43 | | | | | | | | |
| | P45AF010 | 3.27 | 0.49 | 4.91 | 0.76 | 0.08 | 0.01 | 4.83 | 14.35 | | | | | | | | |
| | P45AF011 | 5.85 | 0.88 | 9.54 | 1.47 | 0.08 | 0.01 | 8.65 | 26.48 | | | | | | | | |
| | P45AL015 | 6.50 | 0.97 | 6.04 | 0.82 | 0.08 | 0.01 | 9.61 | 24.03 | | | | | | | | |
| | P45CG001 | 0.44 | 0.07 | 0.00 | 0.05 | 0.00 | 0.00 | 0.66 | 1.22 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***P45*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | P45CG002 | 0.72 | 0.11 | 0.00 | 0.10 | 0.00 | 0.00 | 1.07 | 2.00 | | | | | | | | |
| | P45CG003 | 1.68 | 0.25 | 0.00 | 0.15 | 0.00 | 0.00 | 2.48 | 4.56 | | | | | | | | |
| | P45CG006 | 3.02 | 0.46 | 4.36 | 0.67 | 0.08 | 0.01 | 4.47 | 13.07 | | | | | | | | |
| | P45CG007 | 2.45 | 0.37 | 4.36 | 0.67 | 0.00 | 0.00 | 3.62 | 11.47 | | | | | | | | |
| | P45OE002 | 3.73 | 0.57 | 7.23 | 0.98 | 0.14 | 0.02 | 5.53 | 18.20 | | | | | | | | |
| | P45OE003 | 4.86 | 0.73 | 11.04 | 1.50 | 0.14 | 0.02 | 7.20 | 25.49 | | | | | | | | |
| | P45OE004 | 5.82 | 0.88 | 15.77 | 2.14 | 0.14 | 0.02 | 8.62 | 33.39 | | | | | | | | |
| | P45OE005 | 7.83 | 1.19 | 23.78 | 3.22 | 0.28 | 0.05 | 11.60 | 47.95 | | | | | | | | |
| **P50** | | | | | | | | | | | | | | | | | |
| | P50GR001 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.15 | | | | | | | | |
| | P50GR002 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.27 | | | | | | | | |
| | P50GR003 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.37 | | | | | | | | |
| | P50GR004 | 0.26 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.82 | | | | | | | | |
| | P50GR005 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.28 | | | | | | | | |
| | P50GR006 | 0.17 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.53 | | | | | | | | |
| | P50GR007 | 0.27 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.86 | | | | | | | | |
| | P50GR008 | 0.58 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.84 | | | | | | | | |
| | P50WC001 | 0.14 | 0.02 | 2.57 | 0.40 | 0.00 | 0.00 | 0.20 | 3.33 | | | | | | | | |
| | P50WC002 | 0.16 | 0.03 | 1.88 | 0.35 | 0.00 | 0.00 | 0.23 | 2.65 | | | | | | | | |
| | P50WC003 | 0.38 | 0.06 | 2.01 | 0.37 | 0.00 | 0.00 | 0.54 | 3.36 | | | | | | | | |
| | P50WC004 | 1.76 | 0.29 | 4.14 | 0.76 | 0.04 | 0.01 | 2.49 | 9.49 | | | | | | | | |
| | P50XX001 | 2.48 | 0.41 | 7.53 | 1.38 | 0.00 | 0.00 | 3.51 | 15.31 | | | | | | | | |
| | P50XX002 | 4.58 | 0.75 | 8.79 | 1.62 | 0.00 | 0.00 | 6.48 | 22.22 | | | | | | | | |
| | P50XX003 | 4.92 | 0.80 | 10.67 | 1.96 | 0.00 | 0.00 | 6.96 | 25.31 | | | | | | | | |
| **P55** | | | | | | | | | | | | | | | | | |
| | P55GF001 | 2.16 | 0.35 | 2.64 | 0.49 | 0.00 | 0.00 | 3.39 | 9.03 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***P55*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | P55GF002 | 2.41 | 0.39 | 9.04 | 1.66 | 0.00 | 0.00 | 3.78 | 17.28 | | | | | | | | |
| | P55GR001 | 0.42 | 0.06 | 0.17 | 0.09 | 0.00 | 0.00 | 0.37 | 1.11 | | | | | | | | |
| | P55GR002 | 0.52 | 0.08 | 0.44 | 0.24 | 0.00 | 0.00 | 0.46 | 1.74 | | | | | | | | |
| | P55GR003 | 1.66 | 0.25 | 2.18 | 1.19 | 0.00 | 0.00 | 1.47 | 6.75 | | | | | | | | |
| | P55GR004 | 2.49 | 0.37 | 5.24 | 2.85 | 0.00 | 0.00 | 2.21 | 13.16 | | | | | | | | |
| | P55WC001 | 0.04 | 0.01 | 0.09 | 0.05 | 0.00 | 0.00 | 0.04 | 0.23 | | | | | | | | |
| | P55WC002 | 0.06 | 0.01 | 0.09 | 0.05 | 0.00 | 0.00 | 0.05 | 0.26 | | | | | | | | |
| **P60** | | | | | | | | | | | | | | | | | |
| | P60GF003 | 2.40 | 0.40 | 2.64 | 0.49 | 0.08 | 0.01 | 3.41 | 9.43 | | | | | | | | |
| | P60GF004 | 2.65 | 0.44 | 9.04 | 1.66 | 0.08 | 0.01 | 3.76 | 17.64 | | | | | | | | |
| | P60GF005 | 3.06 | 0.51 | 14.19 | 2.61 | 0.08 | 0.01 | 4.34 | 24.80 | | | | | | | | |
| | P60GF006 | 4.76 | 0.78 | 17.58 | 3.23 | 0.09 | 0.02 | 6.73 | 33.19 | | | | | | | | |
| | P60GF008 | 2.65 | 0.44 | 9.04 | 1.66 | 0.08 | 0.01 | 3.76 | 17.64 | | | | | | | | |
| | P60GR001 | 2.51 | 0.42 | 5.90 | 1.08 | 0.07 | 0.01 | 3.56 | 13.55 | | | | | | | | |
| | P60GR002 | 2.93 | 0.48 | 25.93 | 4.01 | 0.07 | 0.01 | 4.15 | 37.58 | | | | | | | | |
| | P60HO002 | 0.10 | 0.02 | 0.90 | 0.14 | 0.00 | 0.00 | 0.13 | 1.29 | | | | | | | | |
| | P60HO003 | 0.17 | 0.03 | 2.05 | 0.32 | 0.00 | 0.00 | 0.24 | 2.81 | | | | | | | | |
| | P60WC001 | 0.07 | 0.01 | 1.03 | 0.16 | 0.00 | 0.00 | 0.10 | 1.37 | | | | | | | | |
| | P60WC002 | 0.09 | 0.01 | 1.54 | 0.24 | 0.00 | 0.00 | 0.13 | 2.01 | | | | | | | | |
| **P65** | | | | | | | | | | | | | | | | | |
| | P65GR001 | 0.37 | 0.07 | 1.28 | 0.20 | 0.17 | 0.03 | 0.48 | 2.60 | | | | | | | | |
| | P65GR002 | 0.45 | 0.09 | 0.39 | 0.06 | 0.17 | 0.03 | 0.58 | 1.77 | | | | | | | | |
| | P65GR003 | 1.20 | 0.21 | 0.77 | 0.12 | 0.14 | 0.02 | 1.53 | 3.99 | | | | | | | | |
| | P65HO001 | 0.17 | 0.03 | 0.90 | 0.14 | 0.00 | 0.00 | 0.24 | 1.48 | | | | | | | | |
| | P65HO002 | 0.20 | 0.03 | 0.90 | 0.14 | 0.00 | 0.00 | 0.28 | 1.55 | | | | | | | | |
| | P65WC001 | 0.18 | 0.03 | 1.03 | 0.16 | 0.00 | 0.00 | 0.23 | 1.63 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***P65*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | P65WC002 | 0.19 | 0.03 | 1.03 | 0.16 | 0.00 | 0.00 | 0.24 | 1.65 | | | | | | | | |
| **P70** | | | | | | | | | | | | | | | | | |
| | P70XX001 | 0.32 | 0.06 | 0.51 | 0.08 | 0.00 | 0.00 | 0.44 | 1.41 | | | | | | | | |
| | P70XX002 | 0.85 | 0.15 | 1.54 | 0.24 | 0.00 | 0.00 | 1.13 | 3.91 | | | | | | | | |
| **R10** | | | | | | | | | | | | | | | | | |
| | R10CA001 | 1.09 | 0.18 | 0.00 | 0.08 | 0.00 | 0.00 | 1.54 | 2.89 | 1.34 | 0.18 | 0.00 | 0.08 | 0.00 | 0.00 | 2.11 | 3.71 |
| | R10CA003 | 1.09 | 0.18 | 0.00 | 0.08 | 0.00 | 0.00 | 1.54 | 2.89 | 1.34 | 0.18 | 0.00 | 0.08 | 0.00 | 0.00 | 2.11 | 3.71 |
| | R10CA005 | 1.09 | 0.18 | 0.00 | 0.08 | 0.00 | 0.00 | 1.54 | 2.89 | 1.34 | 0.18 | 0.00 | 0.08 | 0.00 | 0.00 | 2.11 | 3.71 |
| | 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 | 2.51 | 0.41 | 0.00 | 0.08 | 0.00 | 0.00 | 3.56 | 6.56 | 3.09 | 0.42 | 0.00 | 0.08 | 0.00 | 0.00 | 4.87 | 8.46 |
| | R10CA009 | 4.68 | 0.76 | 0.00 | 0.08 | 0.00 | 0.00 | 6.64 | 12.16 | 5.76 | 0.78 | 0.00 | 0.08 | 0.00 | 0.00 | 9.07 | 15.69 |
| | R10CA010 | 0.19 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.49 | 0.23 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.62 |
| | R10CA011 | 5.09 | 0.83 | 0.00 | 0.10 | 0.00 | 0.00 | 7.22 | 13.24 | 6.26 | 0.85 | 0.00 | 0.10 | 0.00 | 0.00 | 9.87 | 17.08 |
| | R10CA012 | 6.00 | 0.98 | 0.00 | 0.10 | 0.00 | 0.00 | 8.52 | 15.60 | 7.39 | 1.01 | 0.00 | 0.10 | 0.00 | 0.00 | 11.64 | 20.14 |
| | R10CA013 | 0.42 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.59 | 1.08 | 0.51 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 1.39 |
| | R10CA014 | 6.53 | 1.07 | 0.00 | 0.16 | 0.00 | 0.00 | 9.27 | 17.03 | 8.04 | 1.09 | 0.00 | 0.16 | 0.00 | 0.00 | 12.67 | 21.96 |
| | R10CA015 | 7.42 | 1.21 | 0.00 | 0.16 | 0.00 | 0.00 | 10.52 | 19.31 | 9.13 | 1.24 | 0.00 | 0.16 | 0.00 | 0.00 | 14.39 | 24.92 |
| | R10CA016 | 0.42 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 1.09 | 0.52 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 1.41 |
| | R10CA017 | 9.96 | 1.62 | 0.00 | 0.21 | 0.00 | 0.00 | 14.13 | 25.92 | 12.25 | 1.67 | 0.00 | 0.21 | 0.00 | 0.00 | 19.32 | 33.45 |
| | R10CA018 | 11.87 | 1.94 | 0.00 | 0.22 | 0.00 | 0.00 | 16.84 | 30.87 | 14.61 | 1.99 | 0.00 | 0.22 | 0.00 | 0.00 | 23.03 | 39.85 |
| | R10CA019 | 0.68 | 0.11 | 0.00 | 0.24 | 0.00 | 0.00 | 0.97 | 2.00 | 0.84 | 0.11 | 0.00 | 0.24 | 0.00 | 0.00 | 1.33 | 2.52 |
| | R10CA020 | 11.92 | 1.95 | 0.00 | 0.23 | 0.00 | 0.00 | 16.92 | 31.02 | 14.68 | 2.00 | 0.00 | 0.23 | 0.00 | 0.00 | 23.13 | 40.04 |
| | R10CA021 | 12.34 | 2.01 | 0.00 | 0.25 | 0.00 | 0.00 | 17.50 | 32.10 | 15.18 | 2.07 | 0.00 | 0.25 | 0.00 | 0.00 | 23.93 | 41.43 |
| | R10CA022 | 0.12 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.30 | 0.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.38 |
| | R10CA023 | 0.12 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.30 | 0.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.39 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **R15** | | | | | | | | | | | | | | | | | |
| | R15SO001 | 10.15 | 2.22 | 0.00 | 0.40 | 1.33 | 0.23 | 11.84 | 26.17 | | | | | | | | |
| | R15SO002 | 10.06 | 2.45 | 0.00 | 0.45 | 2.96 | 0.51 | 12.03 | 28.46 | | | | | | | | |
| | R15SO003 | 14.71 | 3.38 | 0.00 | 0.67 | 2.96 | 0.51 | 17.35 | 39.58 | | | | | | | | |
| **R20** | | | | | | | | | | | | | | | | | |
| | R20RI002 | 2.89 | 0.57 | 0.00 | 0.25 | 0.00 | 0.00 | 3.77 | 7.48 | | | | | | | | |
| | R20SO001 | 6.23 | 1.24 | 0.00 | 0.25 | 0.00 | 0.00 | 8.15 | 15.87 | | | | | | | | |
| **R30** | | | | | | | | | | | | | | | | | |
| | R30BO003 | 15.12 | 2.36 | 12.21 | 1.41 | 1.65 | 0.28 | 16.39 | 49.42 | | | | | | | | |
| | R30BO004 | 8.81 | 1.42 | 9.43 | 1.09 | 1.78 | 0.30 | 9.60 | 32.43 | | | | | | | | |
| | R30BO005 | 6.85 | 1.24 | 5.22 | 0.60 | 0.00 | 0.00 | 8.43 | 22.34 | | | | | | | | |
| | R30BO006 | 8.14 | 1.47 | 9.21 | 1.07 | 0.00 | 0.00 | 10.01 | 29.90 | | | | | | | | |
| | R30BO007 | 9.62 | 1.74 | 8.65 | 1.00 | 0.00 | 0.00 | 11.83 | 32.84 | | | | | | | | |
| | R30BO008 | 42.93 | 10.08 | 49.04 | 5.68 | 0.00 | 0.00 | 56.13 | 163.86 | | | | | | | | |
| | R30BO009 | 40.62 | 9.53 | 49.04 | 5.68 | 0.00 | 0.00 | 53.11 | 157.98 | | | | | | | | |
| | R30CA003 | 24.96 | 5.86 | 26.63 | 3.08 | 0.00 | 0.00 | 32.64 | 93.17 | | | | | | | | |
| | R30CA006 | 37.57 | 8.82 | 34.95 | 4.05 | 0.00 | 0.00 | 49.12 | 134.51 | | | | | | | | |
| | R30CA009 | 51.64 | 12.12 | 52.48 | 6.08 | 0.00 | 0.00 | 67.52 | 189.84 | | | | | | | | |
| | R30CA010 | 8.88 | 1.35 | 7.77 | 0.90 | 0.48 | 0.08 | 9.59 | 29.05 | | | | | | | | |
| | R30CA011 | 10.17 | 1.55 | 11.65 | 1.35 | 0.67 | 0.11 | 10.98 | 36.48 | | | | | | | | |
| | R30CA012 | 25.30 | 5.94 | 24.41 | 2.83 | 0.00 | 0.00 | 33.08 | 91.56 | | | | | | | | |
| | R30CA013 | 39.10 | 9.18 | 34.95 | 4.05 | 0.00 | 0.00 | 51.12 | 138.40 | | | | | | | | |
| | R30CA014 | 17.17 | 2.62 | 11.65 | 1.35 | 2.09 | 0.36 | 18.55 | 53.79 | | | | | | | | |
| | R30RS001 | 1.29 | 0.23 | 3.65 | 0.42 | 0.00 | 0.00 | 1.59 | 7.18 | | | | | | | | |
| | R30RS002 | 2.56 | 0.46 | 4.44 | 0.51 | 0.00 | 0.00 | 3.15 | 11.12 | | | | | | | | |
| | R30RS003 | 6.89 | 1.07 | 8.88 | 1.03 | 0.60 | 0.10 | 7.46 | 26.03 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***R30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | R30SI002 | 11.41 | 1.78 | 10.10 | 1.17 | 1.29 | 0.22 | 12.37 | 38.34 | | | | | | | | |
| | R30SI003 | 14.24 | 2.20 | 10.54 | 1.22 | 1.29 | 0.22 | 15.41 | 45.12 | | | | | | | | |
| | R30SI004 | 19.13 | 2.92 | 11.98 | 1.39 | 1.15 | 0.20 | 20.67 | 57.44 | | | | | | | | |
| | R30SI005 | 10.29 | 1.86 | 8.32 | 0.96 | 0.00 | 0.00 | 12.66 | 34.09 | | | | | | | | |
| **R40** | | | | | | | | | | | | | | | | | |
| | R40BO001 | 8.28 | 1.35 | 6.28 | 0.97 | 0.00 | 0.00 | 10.83 | 27.71 | | | | | | | | |
| | R40BO002 | 9.26 | 1.51 | 6.28 | 0.97 | 0.00 | 0.00 | 12.11 | 30.13 | | | | | | | | |
| **R45** | | | | | | | | | | | | | | | | | |
| | R45BO004 | 5.58 | 0.91 | 4.14 | 0.64 | 0.00 | 0.00 | 10.03 | 21.30 | | | | | | | | |
| | R45BO005 | 6.85 | 1.12 | 5.78 | 0.89 | 0.00 | 0.00 | 12.31 | 26.95 | | | | | | | | |
| | R45BO006 | 14.17 | 2.31 | 13.56 | 2.10 | 0.00 | 0.00 | 25.48 | 57.62 | | | | | | | | |
| | R45BO007 | 16.41 | 2.68 | 16.45 | 2.54 | 0.00 | 0.00 | 29.49 | 67.57 | | | | | | | | |
| | R45BO008 | 17.14 | 2.80 | 25.74 | 3.98 | 0.00 | 0.00 | 30.80 | 80.46 | | | | | | | | |
| | R45CA001 | 4.85 | 0.79 | 4.02 | 0.62 | 0.00 | 0.00 | 8.72 | 19.00 | | | | | | | | |
| | R45CA002 | 5.52 | 0.90 | 4.02 | 0.62 | 0.00 | 0.00 | 9.92 | 20.98 | | | | | | | | |
| | R45CA005 | 13.35 | 2.18 | 8.79 | 1.36 | 0.00 | 0.00 | 24.00 | 49.68 | | | | | | | | |
| | R45CA007 | 16.36 | 2.67 | 13.18 | 2.04 | 0.00 | 0.00 | 29.41 | 63.66 | | | | | | | | |
| | R45CA010 | 20.32 | 3.32 | 18.21 | 2.82 | 0.00 | 0.00 | 36.53 | 81.20 | | | | | | | | |
| | R45RS001 | 1.94 | 0.32 | 2.51 | 0.39 | 0.00 | 0.00 | 3.48 | 8.64 | | | | | | | | |
| | R45SI008 | 3.73 | 0.61 | 4.39 | 0.68 | 0.00 | 0.00 | 6.71 | 16.12 | | | | | | | | |
| | R45SI009 | 10.25 | 1.67 | 9.79 | 1.51 | 0.00 | 0.00 | 18.43 | 41.65 | | | | | | | | |
| | R45SI010 | 13.65 | 2.23 | 15.95 | 2.47 | 0.00 | 0.00 | 24.54 | 58.84 | | | | | | | | |
| **R50** | | | | | | | | | | | | | | | | | |
| | R50BO005 | 5.93 | 1.15 | 4.53 | 0.70 | 1.44 | 0.25 | 10.57 | 24.57 | | | | | | | | |
| | R50BO006 | 8.69 | 1.56 | 6.79 | 1.05 | 0.14 | 0.02 | 15.18 | 33.43 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***R50*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | R50BO007 | 11.91 | 2.16 | 6.79 | 1.05 | 0.45 | 0.08 | 20.83 | 43.27 | | | | | | | | |
| | R50BO008 | 15.46 | 2.86 | 14.03 | 2.17 | 1.44 | 0.25 | 27.19 | 63.40 | | | | | | | | |
| | R50BO009 | 22.07 | 4.04 | 17.65 | 2.73 | 1.44 | 0.25 | 38.71 | 86.89 | | | | | | | | |
| | R50BO010 | 6.50 | 1.19 | 4.53 | 0.70 | 0.38 | 0.06 | 11.40 | 24.76 | | | | | | | | |
| | R50BO011 | 9.35 | 1.68 | 6.79 | 1.05 | 0.14 | 0.02 | 16.33 | 35.36 | | | | | | | | |
| | R50BO012 | 13.44 | 2.43 | 9.14 | 1.41 | 0.45 | 0.08 | 23.51 | 50.46 | | | | | | | | |
| | R50BO013 | 16.61 | 3.06 | 11.86 | 1.83 | 1.44 | 0.25 | 29.19 | 64.24 | | | | | | | | |
| | R50CA001 | 8.20 | 1.49 | 6.34 | 0.98 | 0.28 | 0.05 | 14.35 | 31.69 | | | | | | | | |
| | R50CA002 | 9.56 | 1.73 | 6.34 | 0.98 | 0.28 | 0.05 | 16.72 | 35.66 | | | | | | | | |
| | R50CA003 | 11.03 | 2.00 | 8.78 | 1.36 | 0.48 | 0.08 | 19.31 | 43.04 | | | | | | | | |
| | R50CA004 | 13.22 | 2.40 | 9.05 | 1.40 | 0.48 | 0.08 | 23.13 | 49.76 | | | | | | | | |
| | R50CA005 | 11.98 | 2.17 | 9.05 | 1.40 | 0.48 | 0.08 | 20.97 | 46.13 | | | | | | | | |
| | R50CA009 | 14.96 | 2.76 | 13.58 | 2.10 | 1.36 | 0.23 | 26.30 | 61.29 | | | | | | | | |
| | R50CA010 | 17.97 | 3.30 | 13.58 | 2.10 | 1.36 | 0.23 | 31.54 | 70.08 | | | | | | | | |
| | R50CA011 | 18.50 | 3.40 | 13.58 | 2.10 | 1.36 | 0.23 | 32.48 | 71.65 | | | | | | | | |
| | R50CA012 | 18.00 | 3.31 | 13.58 | 2.10 | 1.36 | 0.23 | 31.59 | 70.17 | | | | | | | | |
| | R50IP001 | 8.38 | 1.54 | 7.24 | 1.12 | 0.58 | 0.10 | 14.71 | 33.67 | | | | | | | | |
| | R50SI006 | 7.01 | 1.29 | 5.43 | 0.84 | 0.55 | 0.09 | 12.32 | 27.53 | | | | | | | | |
| | R50SI007 | 7.52 | 1.38 | 5.43 | 0.84 | 0.55 | 0.09 | 13.21 | 29.02 | | | | | | | | |
| | R50SI013 | 11.45 | 2.14 | 13.40 | 2.07 | 1.44 | 0.25 | 20.19 | 50.94 | | | | | | | | |
| | R50SI016 | 12.24 | 2.28 | 13.40 | 2.07 | 1.44 | 0.25 | 21.57 | 53.25 | | | | | | | | |
| | R50SI017 | 13.30 | 2.47 | 13.40 | 2.07 | 1.44 | 0.25 | 23.42 | 56.35 | | | | | | | | |
| | R50SI022 | 9.76 | 1.78 | 9.05 | 1.40 | 0.50 | 0.09 | 17.10 | 39.68 | | | | | | | | |
| | R50SI023 | 10.86 | 1.97 | 9.05 | 1.40 | 0.50 | 0.09 | 19.02 | 42.89 | | | | | | | | |
| | R50SI024 | 5.35 | 0.98 | 2.53 | 0.39 | 0.33 | 0.06 | 9.38 | 19.02 | | | | | | | | |
| | R50SI025 | 6.64 | 1.21 | 2.72 | 0.42 | 0.33 | 0.06 | 11.63 | 23.01 | | | | | | | | |
| | R50SI026 | 13.35 | 2.41 | 9.41 | 1.45 | 0.33 | 0.06 | 23.33 | 50.34 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| R55 | | | | | | | | | | | | | | | | | |
| | R55AE001 | 1.11 | 0.13 | 1.37 | 3.46 | 0.05 | 0.01 | 1.32 | 7.45 | | | | | | | | |
| | R55AE002 | 1.36 | 0.16 | 1.37 | 5.16 | 0.05 | 0.01 | 1.62 | 9.73 | | | | | | | | |
| | R55AE003 | 1.81 | 0.22 | 1.37 | 6.76 | 0.10 | 0.02 | 2.16 | 12.44 | | | | | | | | |
| | R55AE004 | 2.35 | 0.29 | 1.37 | 7.16 | 0.19 | 0.03 | 2.81 | 14.20 | | | | | | | | |
| | R55AE008 | 0.77 | 0.10 | 1.37 | 0.16 | 0.06 | 0.01 | 0.92 | 3.39 | | | | | | | | |
| | R55AE009 | 0.30 | 0.03 | 1.54 | 0.18 | 0.00 | 0.00 | 0.35 | 2.40 | | | | | | | | |
| | R55AE010 | 0.54 | 0.06 | 2.74 | 0.32 | 0.00 | 0.00 | 0.64 | 4.30 | | | | | | | | |
| | R55AE011 | 0.47 | 0.06 | 0.86 | 0.10 | 0.11 | 0.02 | 0.57 | 2.19 | | | | | | | | |
| | R55GL001 | 0.53 | 0.06 | 0.00 | 0.50 | 0.03 | 0.01 | 0.63 | 1.76 | | | | | | | | |
| | R55GL002 | 1.03 | 0.13 | 0.86 | 0.60 | 0.05 | 0.01 | 1.23 | 3.91 | | | | | | | | |
| | R55GL003 | 2.08 | 0.25 | 1.54 | 0.93 | 0.09 | 0.02 | 2.47 | 7.38 | | | | | | | | |
| | R55GL004 | 2.56 | 0.30 | 1.54 | 1.18 | 0.04 | 0.01 | 3.03 | 8.66 | | | | | | | | |
| | R55GL007 | 1.86 | 0.22 | 3.08 | 0.36 | 0.00 | 0.00 | 2.20 | 7.72 | | | | | | | | |
| | R55GL008 | 0.70 | 0.09 | 1.88 | 0.22 | 0.11 | 0.02 | 0.84 | 3.86 | | | | | | | | |
| | R55GL009 | 0.37 | 0.04 | 1.80 | 0.21 | 0.00 | 0.00 | 0.44 | 2.86 | | | | | | | | |
| | R55GL011 | 0.91 | 0.11 | 2.74 | 0.32 | 0.00 | 0.00 | 1.07 | 5.15 | | | | | | | | |
| | R55GL012 | 1.65 | 0.20 | 1.54 | 0.93 | 0.05 | 0.01 | 1.96 | 6.34 | | | | | | | | |
| | R55GL013 | 0.12 | 0.02 | 0.00 | 0.25 | 0.09 | 0.02 | 0.16 | 0.66 | | | | | | | | |
| | R55GL014 | 0.48 | 0.06 | 0.00 | 0.35 | 0.00 | 0.00 | 0.57 | 1.46 | | | | | | | | |
| | R55GL015 | 1.53 | 0.18 | 1.54 | 0.18 | 0.00 | 0.00 | 1.81 | 5.24 | | | | | | | | |
| | R55GL016 | 0.85 | 0.10 | 1.54 | 0.18 | 0.00 | 0.00 | 1.00 | 3.67 | | | | | | | | |
| | R55GL017 | 0.30 | 0.04 | 0.86 | 0.10 | 0.00 | 0.00 | 0.36 | 1.66 | | | | | | | | |
| | R55GL018 | 0.31 | 0.04 | 0.86 | 0.10 | 0.00 | 0.00 | 0.37 | 1.68 | | | | | | | | |
| | R55GL019 | 0.60 | 0.07 | 1.37 | 0.16 | 0.00 | 0.00 | 0.71 | 2.91 | | | | | | | | |
| S10 | | | | | | | | | | | | | | | | | |
| | S10CA001 | 22.31 | 4.56 | 15.84 | 3.06 | 2.66 | 0.45 | 31.40 | 80.28 | 27.88 | 4.67 | 20.95 | 4.05 | 10.75 | 1.84 | 43.63 | 113.77 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***S10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | S10CA002 | 23.51 | 7.08 | 23.99 | 3.71 | 12.17 | 2.08 | 37.83 | 110.37 | 26.58 | 7.14 | 31.73 | 4.91 | 49.16 | 8.41 | 45.00 | 172.93 |
| | S10CA003 | 36.10 | 10.49 | 33.04 | 5.11 | 9.95 | 1.70 | 57.55 | 153.94 | 40.81 | 10.58 | 43.70 | 6.76 | 40.22 | 6.88 | 68.47 | 217.42 |
| **S15** | | | | | | | | | | | | | | | | | |
| | S15CA001 | 29.21 | 8.81 | 30.91 | 4.78 | 9.95 | 1.70 | 36.70 | 122.06 | 35.05 | 8.93 | 39.43 | 6.10 | 40.22 | 6.88 | 46.78 | 183.39 |
| | S15CA002 | 44.24 | 13.29 | 38.11 | 5.89 | 13.81 | 2.36 | 55.54 | 173.24 | 53.09 | 13.48 | 48.62 | 7.52 | 55.82 | 9.55 | 70.79 | 258.87 |
| | S15CA003 | 55.08 | 16.48 | 46.57 | 7.20 | 15.44 | 2.64 | 69.09 | 212.50 | 66.09 | 16.71 | 59.42 | 9.19 | 62.37 | 10.67 | 88.06 | 312.51 |
| | S15JU001 | 30.07 | 8.83 | 35.73 | 5.52 | 2.63 | 0.45 | 37.58 | 120.81 | 36.09 | 8.95 | 45.59 | 7.05 | 9.77 | 1.67 | 47.90 | 157.02 |
| | S15JU002 | 31.14 | 9.14 | 35.73 | 5.52 | 2.63 | 0.45 | 38.91 | 123.52 | 37.37 | 9.27 | 45.59 | 7.05 | 9.77 | 1.67 | 49.59 | 160.31 |
| **S20** | | | | | | | | | | | | | | | | | |
| | S20CA001 | 33.35 | 10.01 | 48.62 | 6.12 | 12.51 | 2.14 | 44.46 | 157.21 | 37.06 | 10.08 | 63.20 | 7.95 | 52.91 | 9.05 | 52.30 | 232.55 |
| | S20CA002 | 35.07 | 10.50 | 48.62 | 6.12 | 12.51 | 2.14 | 46.73 | 161.69 | 38.96 | 10.58 | 63.20 | 7.95 | 52.91 | 9.05 | 54.96 | 237.61 |
| | S20CA003 | 56.48 | 16.83 | 61.32 | 7.72 | 17.36 | 2.97 | 75.18 | 237.86 | 62.75 | 16.96 | 79.72 | 10.03 | 73.44 | 12.56 | 88.43 | 343.89 |
| | S20CA004 | 58.87 | 17.52 | 61.32 | 7.72 | 17.36 | 2.97 | 78.35 | 244.11 | 65.42 | 17.65 | 79.72 | 10.03 | 73.44 | 12.56 | 92.16 | 350.98 |
| | S20CA005 | 65.53 | 19.92 | 83.22 | 10.47 | 33.13 | 5.67 | 87.59 | 305.53 | 72.81 | 20.08 | 108.18 | 13.61 | 140.16 | 23.97 | 103.03 | 481.84 |
| | S20CA006 | 73.91 | 21.92 | 83.22 | 10.47 | 19.40 | 3.32 | 98.29 | 310.53 | 82.12 | 22.09 | 108.18 | 13.61 | 82.06 | 14.03 | 115.61 | 437.70 |
| **S25** | | | | | | | | | | | | | | | | | |
| | S25JD001 | 3.43 | 0.88 | 0.00 | 1.50 | 1.19 | 0.20 | 3.80 | 11.00 | 4.11 | 0.89 | 0.00 | 1.50 | 4.44 | 0.76 | 4.89 | 16.59 |
| | S25JD002 | 4.22 | 1.10 | 0.00 | 1.50 | 1.79 | 0.31 | 4.69 | 13.61 | 5.06 | 1.12 | 0.00 | 1.50 | 6.66 | 1.14 | 6.04 | 21.52 |
| | S25RI001 | 2.98 | 0.72 | 0.00 | 1.50 | 0.38 | 0.06 | 3.27 | 8.91 | 3.58 | 0.74 | 0.00 | 1.50 | 1.42 | 0.24 | 4.21 | 11.69 |
| | S25RI002 | 3.33 | 0.82 | 0.00 | 1.50 | 0.57 | 0.10 | 3.66 | 9.98 | 4.00 | 0.83 | 0.00 | 1.50 | 2.13 | 0.36 | 4.71 | 13.53 |
| | S25RM001 | 7.79 | 2.02 | 0.00 | 1.50 | 3.82 | 0.65 | 8.65 | 24.43 | 9.34 | 2.05 | 0.00 | 1.50 | 14.05 | 2.40 | 11.13 | 40.47 |
| | S25RM002 | 11.31 | 2.98 | 0.00 | 1.50 | 6.28 | 1.07 | 12.61 | 35.75 | 13.57 | 3.03 | 0.00 | 1.50 | 23.26 | 3.98 | 16.23 | 61.57 |
| | S25RM003 | 5.69 | 1.53 | 0.00 | 1.50 | 3.82 | 0.65 | 6.37 | 19.56 | 6.83 | 1.55 | 0.00 | 1.50 | 14.05 | 2.40 | 8.20 | 34.53 |
| **S30** | | | | | | | | | | | | | | | | | |
| | S30HW001 | 11.80 | 4.64 | 15.76 | 8.57 | 1.10 | 0.19 | 16.50 | 58.56 | 19.66 | 4.80 | 18.92 | 12.45 | 1.24 | 0.21 | 34.38 | 91.66 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***S30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | S30HW002 | 15.95 | 6.26 | 22.07 | 12.00 | 1.35 | 0.23 | 22.30 | 80.16 | 26.58 | 6.48 | 26.48 | 17.42 | 1.51 | 0.26 | 46.47 | 125.20 |
| | S30HW005 | 6.40 | 2.53 | 2.52 | 1.37 | 0.66 | 0.11 | 5.82 | 19.41 | 10.67 | 2.61 | 3.03 | 1.99 | 0.74 | 0.13 | 12.69 | 31.86 |
| | S30HW006 | 10.75 | 4.20 | 6.31 | 3.43 | 0.71 | 0.12 | 9.77 | 35.29 | 17.91 | 4.35 | 7.57 | 4.98 | 0.79 | 0.14 | 21.29 | 57.03 |
| | S30HW007 | 11.69 | 4.56 | 7.88 | 4.29 | 0.71 | 0.12 | 10.63 | 39.88 | 19.48 | 4.72 | 9.46 | 6.22 | 0.79 | 0.14 | 23.15 | 63.96 |
| | S30HW008 | 12.22 | 4.77 | 7.88 | 4.29 | 0.71 | 0.12 | 11.11 | 41.10 | 20.36 | 4.93 | 9.46 | 6.22 | 0.79 | 0.14 | 24.19 | 66.09 |
| | S30HW009 | 12.60 | 4.95 | 9.46 | 5.14 | 1.05 | 0.18 | 11.46 | 44.84 | 21.00 | 5.12 | 11.35 | 7.47 | 1.17 | 0.20 | 24.97 | 71.28 |
| | S30HW010 | 15.37 | 6.02 | 12.61 | 6.86 | 1.16 | 0.20 | 13.98 | 56.20 | 25.62 | 6.23 | 15.13 | 9.95 | 1.30 | 0.22 | 30.46 | 88.91 |
| | S30HW011 | 15.06 | 5.91 | 12.61 | 6.86 | 1.21 | 0.21 | 13.70 | 55.56 | 25.10 | 6.11 | 15.13 | 9.95 | 1.36 | 0.23 | 29.85 | 87.73 |
| | S30HW012 | 17.81 | 6.98 | 12.61 | 6.86 | 1.35 | 0.23 | 16.20 | 62.04 | 29.69 | 7.22 | 15.13 | 9.95 | 1.51 | 0.26 | 35.29 | 99.05 |
| | S30HW013 | 14.34 | 5.62 | 28.37 | 15.43 | 1.08 | 0.18 | 20.05 | 85.07 | 23.91 | 5.81 | 34.05 | 22.40 | 1.20 | 0.21 | 41.78 | 129.36 |
| | S30HW014 | 11.70 | 1.98 | 0.95 | 0.52 | 0.42 | 0.07 | 13.09 | 28.73 | 14.63 | 2.04 | 1.13 | 0.74 | 0.48 | 0.08 | 20.45 | 39.55 |
| | S30HW015 | 12.91 | 2.18 | 1.58 | 0.86 | 0.42 | 0.07 | 14.44 | 32.46 | 16.13 | 2.25 | 1.89 | 1.24 | 0.48 | 0.08 | 22.56 | 44.63 |
| | S30HW016 | 12.19 | 2.06 | 1.26 | 0.69 | 0.42 | 0.07 | 13.64 | 30.33 | 15.24 | 2.12 | 1.51 | 0.99 | 0.48 | 0.08 | 21.31 | 41.73 |
| | S30HW017 | 13.16 | 2.22 | 1.58 | 0.86 | 0.42 | 0.07 | 14.73 | 33.04 | 16.45 | 2.29 | 1.89 | 1.24 | 0.48 | 0.08 | 23.01 | 45.44 |
| | S30HW018 | 15.53 | 2.65 | 2.52 | 1.37 | 0.80 | 0.14 | 17.40 | 40.41 | 19.42 | 2.73 | 3.03 | 1.99 | 0.88 | 0.15 | 27.18 | 55.38 |
| | S30KB001 | 3.12 | 0.55 | 0.63 | 0.34 | 0.37 | 0.06 | 3.07 | 8.14 | 3.90 | 0.57 | 0.76 | 0.50 | 0.43 | 0.07 | 4.66 | 10.89 |
| | S30KB002 | 4.04 | 0.72 | 0.95 | 0.52 | 0.47 | 0.08 | 3.97 | 10.75 | 5.05 | 0.74 | 1.13 | 0.74 | 0.53 | 0.09 | 6.03 | 14.31 |
| | S30KB003 | 3.40 | 0.59 | 1.26 | 0.69 | 0.26 | 0.04 | 3.33 | 9.57 | 4.25 | 0.61 | 1.51 | 0.99 | 0.29 | 0.05 | 5.06 | 12.76 |
| | S30KB004 | 4.93 | 0.90 | 1.58 | 0.86 | 0.81 | 0.14 | 4.86 | 14.08 | 6.16 | 0.92 | 1.89 | 1.24 | 0.89 | 0.15 | 7.39 | 18.64 |
| | S30KB005 | 3.85 | 0.69 | 1.58 | 0.86 | 0.53 | 0.09 | 3.79 | 11.39 | 4.81 | 0.71 | 1.89 | 1.24 | 0.61 | 0.10 | 5.75 | 15.11 |
| | S30KB006 | 5.64 | 1.02 | 1.89 | 1.03 | 0.85 | 0.15 | 5.56 | 16.14 | 7.05 | 1.05 | 2.27 | 1.49 | 0.95 | 0.16 | 8.45 | 21.42 |
| | S30KB007 | 3.63 | 0.64 | 0.63 | 0.34 | 0.37 | 0.06 | 3.56 | 9.23 | 4.53 | 0.66 | 0.76 | 0.50 | 0.43 | 0.07 | 5.41 | 12.36 |
| | S30KB008 | 4.49 | 0.78 | 0.95 | 0.52 | 0.41 | 0.07 | 4.41 | 11.63 | 5.61 | 0.81 | 1.13 | 0.74 | 0.47 | 0.08 | 6.69 | 15.53 |
| | S30KB009 | 6.07 | 1.09 | 0.95 | 0.52 | 0.81 | 0.14 | 5.98 | 15.56 | 7.59 | 1.12 | 1.13 | 0.74 | 0.91 | 0.16 | 9.08 | 20.73 |
| | S30KB010 | 3.76 | 0.67 | 1.26 | 0.69 | 0.49 | 0.08 | 3.70 | 10.65 | 4.70 | 0.69 | 1.51 | 0.99 | 0.56 | 0.10 | 5.62 | 14.17 |
| | S30KB011 | 5.46 | 0.96 | 1.58 | 0.86 | 0.54 | 0.09 | 5.36 | 14.85 | 6.83 | 0.99 | 1.89 | 1.24 | 0.61 | 0.10 | 8.15 | 19.81 |
| | S30KB012 | 6.47 | 1.16 | 1.58 | 0.86 | 0.88 | 0.15 | 6.37 | 17.47 | 8.09 | 1.19 | 1.89 | 1.24 | 0.97 | 0.17 | 9.67 | 23.22 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***S30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | S30KB013 | 4.38 | 0.78 | 1.58 | 0.86 | 0.53 | 0.09 | 4.31 | 12.53 | 5.48 | 0.80 | 1.89 | 1.24 | 0.61 | 0.10 | 6.55 | 16.67 |
| | S30KB014 | 5.93 | 1.04 | 1.89 | 1.03 | 0.59 | 0.10 | 5.83 | 16.41 | 7.41 | 1.07 | 2.27 | 1.49 | 0.67 | 0.11 | 8.85 | 21.87 |
| | S30KB015 | 7.94 | 1.41 | 2.52 | 1.37 | 0.94 | 0.16 | 7.81 | 22.15 | 9.92 | 1.45 | 3.03 | 1.99 | 1.04 | 0.18 | 11.85 | 29.46 |
| | S30KB018 | 9.33 | 1.60 | 1.58 | 0.86 | 0.56 | 0.10 | 9.15 | 23.18 | 11.67 | 1.65 | 1.89 | 1.24 | 0.64 | 0.11 | 13.90 | 31.10 |
| | S30KB021 | 10.84 | 1.86 | 2.52 | 1.37 | 0.63 | 0.11 | 10.63 | 27.96 | 13.55 | 1.91 | 3.03 | 1.99 | 0.72 | 0.12 | 16.14 | 37.46 |
| | S30KB024 | 12.46 | 2.13 | 3.78 | 2.06 | 0.70 | 0.12 | 12.21 | 33.46 | 15.57 | 2.20 | 4.54 | 2.99 | 0.80 | 0.14 | 18.54 | 44.78 |
| | S30KB025 | 6.63 | 1.14 | 1.26 | 0.69 | 0.47 | 0.08 | 6.50 | 16.77 | 8.28 | 1.18 | 1.51 | 0.99 | 0.53 | 0.09 | 9.87 | 22.45 |
| | S30KB026 | 7.90 | 1.36 | 1.26 | 0.69 | 0.51 | 0.09 | 7.75 | 19.56 | 9.88 | 1.40 | 1.51 | 0.99 | 0.57 | 0.10 | 11.77 | 26.22 |
| | S30KB027 | 10.03 | 1.72 | 1.58 | 0.86 | 0.56 | 0.10 | 9.83 | 24.68 | 12.54 | 1.77 | 1.89 | 1.24 | 0.64 | 0.11 | 14.93 | 33.12 |
| | S30KB028 | 7.55 | 1.30 | 1.89 | 1.03 | 0.52 | 0.09 | 7.41 | 19.79 | 9.44 | 1.34 | 2.27 | 1.49 | 0.58 | 0.10 | 11.25 | 26.47 |
| | S30KB029 | 9.12 | 1.57 | 1.89 | 1.03 | 0.56 | 0.10 | 8.94 | 23.21 | 11.40 | 1.61 | 2.27 | 1.49 | 0.64 | 0.11 | 13.58 | 31.10 |
| | S30KB030 | 11.49 | 1.96 | 2.52 | 1.37 | 0.63 | 0.11 | 11.26 | 29.34 | 14.36 | 2.02 | 3.03 | 1.99 | 0.72 | 0.12 | 17.10 | 39.34 |
| | S30KB031 | 9.88 | 1.69 | 3.15 | 1.71 | 0.56 | 0.10 | 9.68 | 26.77 | 12.34 | 1.74 | 3.78 | 2.49 | 0.64 | 0.11 | 14.70 | 35.80 |
| | S30KB032 | 11.65 | 1.99 | 3.15 | 1.71 | 0.65 | 0.11 | 11.41 | 30.67 | 14.56 | 2.05 | 3.78 | 2.49 | 0.72 | 0.12 | 17.34 | 41.06 |
| | S30KB033 | 13.45 | 2.30 | 3.78 | 2.06 | 0.70 | 0.12 | 13.18 | 35.59 | 16.82 | 2.37 | 4.54 | 2.99 | 0.80 | 0.14 | 20.02 | 47.68 |
| | S30KB034 | 4.77 | 0.84 | 0.95 | 0.52 | 0.52 | 0.09 | 4.69 | 12.38 | 5.96 | 0.87 | 1.13 | 0.74 | 0.58 | 0.10 | 7.12 | 16.50 |
| | S30KB035 | 5.43 | 0.96 | 1.26 | 0.69 | 0.61 | 0.10 | 5.34 | 14.39 | 6.79 | 0.99 | 1.51 | 0.99 | 0.69 | 0.12 | 8.11 | 19.20 |
| | S30KB036 | 5.11 | 0.90 | 1.26 | 0.69 | 0.56 | 0.10 | 5.02 | 13.64 | 6.38 | 0.93 | 1.51 | 0.99 | 0.64 | 0.11 | 7.63 | 18.19 |
| | S30KB041 | 5.83 | 1.03 | 1.26 | 0.69 | 0.68 | 0.12 | 5.73 | 15.34 | 7.29 | 1.06 | 1.51 | 0.99 | 0.76 | 0.13 | 8.71 | 20.45 |
| | S30KB042 | 8.32 | 1.42 | 1.89 | 1.03 | 0.47 | 0.08 | 8.15 | 21.36 | 10.39 | 1.47 | 2.27 | 1.49 | 0.53 | 0.09 | 12.38 | 28.62 |
| | S30KB043 | 12.40 | 2.10 | 0.95 | 0.52 | 0.51 | 0.09 | 12.14 | 28.71 | 15.50 | 2.17 | 1.13 | 0.74 | 0.57 | 0.10 | 18.44 | 38.65 |
| | S30KB044 | 15.29 | 2.58 | 0.95 | 0.52 | 0.51 | 0.09 | 14.96 | 34.90 | 19.11 | 2.66 | 1.13 | 0.74 | 0.57 | 0.10 | 22.72 | 47.03 |
| | S30KB045 | 20.63 | 8.02 | 32.59 | 4.41 | 0.85 | 0.15 | 28.82 | 95.47 | 34.38 | 8.30 | 38.89 | 6.31 | 0.95 | 0.16 | 60.04 | 149.03 |
| | S30KB046 | 14.20 | 5.56 | 17.15 | 9.33 | 1.02 | 0.17 | 23.83 | 71.26 | 23.66 | 5.75 | 20.58 | 13.54 | 1.14 | 0.19 | 52.93 | 117.79 |
| | S30KB047 | 17.97 | 6.99 | 19.86 | 10.80 | 0.77 | 0.13 | 30.14 | 86.66 | 29.95 | 7.23 | 23.83 | 15.67 | 0.85 | 0.15 | 66.95 | 144.63 |
| | S30KB048 | 15.90 | 2.69 | 5.36 | 2.91 | 0.59 | 0.10 | 17.79 | 45.34 | 19.88 | 2.77 | 6.43 | 4.23 | 0.66 | 0.11 | 27.80 | 61.88 |
| | S30KB049 | 17.99 | 3.17 | 5.67 | 3.08 | 2.05 | 0.35 | 20.22 | 52.53 | 22.49 | 3.27 | 6.81 | 4.48 | 2.31 | 0.40 | 31.59 | 71.35 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***S30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | S30KB050 | 22.72 | 3.82 | 15.76 | 8.57 | 0.57 | 0.10 | 25.41 | 76.95 | 28.40 | 3.94 | 18.92 | 12.45 | 0.63 | 0.11 | 39.70 | 104.15 |
| | S30KB051 | 28.71 | 4.84 | 15.76 | 8.57 | 0.85 | 0.15 | 32.12 | 91.00 | 35.89 | 4.99 | 18.92 | 12.45 | 0.95 | 0.16 | 50.18 | 123.54 |
| | S30KB052 | 30.36 | 5.06 | 15.76 | 8.57 | 0.28 | 0.05 | 33.92 | 94.00 | 37.95 | 5.21 | 18.92 | 12.45 | 0.32 | 0.05 | 52.99 | 127.89 |
| | S30KB053 | 8.58 | 1.47 | 2.52 | 1.37 | 0.51 | 0.09 | 8.41 | 22.95 | 10.73 | 1.52 | 3.03 | 1.99 | 0.57 | 0.10 | 12.77 | 30.71 |
| | S30KB054 | 8.52 | 1.46 | 0.95 | 0.52 | 0.47 | 0.08 | 8.35 | 20.35 | 10.65 | 1.50 | 1.13 | 0.74 | 0.53 | 0.09 | 12.68 | 27.32 |
| | S30KB055 | 13.39 | 5.22 | 22.18 | 3.00 | 0.71 | 0.12 | 12.17 | 56.79 | 22.32 | 5.40 | 26.47 | 4.30 | 0.79 | 0.14 | 26.52 | 85.94 |
| | S30KB056 | 13.73 | 5.35 | 22.18 | 3.00 | 0.71 | 0.12 | 12.48 | 57.57 | 22.88 | 5.54 | 26.47 | 4.30 | 0.79 | 0.14 | 27.19 | 87.31 |
| | S30KB057 | 15.32 | 5.96 | 22.18 | 3.00 | 0.71 | 0.12 | 13.92 | 61.21 | 25.53 | 6.17 | 26.47 | 4.30 | 0.79 | 0.14 | 30.33 | 93.73 |
| | S30KB058 | 14.42 | 5.61 | 8.20 | 4.46 | 0.66 | 0.11 | 13.11 | 46.57 | 24.03 | 5.80 | 9.84 | 6.47 | 0.74 | 0.13 | 28.55 | 75.56 |
| | S30KB059 | 22.56 | 8.77 | 18.92 | 10.29 | 0.95 | 0.16 | 20.50 | 82.15 | 37.60 | 9.07 | 22.70 | 14.93 | 1.05 | 0.18 | 44.67 | 130.20 |
| | S30PU001 | 22.79 | 3.82 | 19.46 | 2.64 | 0.55 | 0.09 | 22.29 | 71.64 | 28.49 | 3.94 | 23.23 | 3.77 | 0.65 | 0.11 | 33.85 | 94.04 |
| | S30PU002 | 44.34 | 7.42 | 31.68 | 4.29 | 0.95 | 0.16 | 43.35 | 132.19 | 55.43 | 7.64 | 37.81 | 6.14 | 1.12 | 0.19 | 65.84 | 174.17 |
| | S30PU003 | 57.31 | 9.57 | 31.68 | 4.29 | 1.03 | 0.18 | 56.02 | 160.08 | 71.63 | 9.86 | 37.81 | 6.14 | 1.21 | 0.21 | 85.08 | 211.94 |
| | S30RA002 | 6.72 | 1.13 | 2.26 | 0.31 | 0.15 | 0.03 | 7.51 | 18.11 | 8.39 | 1.16 | 2.70 | 0.44 | 0.17 | 0.03 | 11.73 | 24.62 |
| | S30RA003 | 10.57 | 1.78 | 4.44 | 0.60 | 0.31 | 0.05 | 11.83 | 29.58 | 13.22 | 1.84 | 5.29 | 0.86 | 0.34 | 0.06 | 18.48 | 40.09 |
| | S30TS001 | 3.31 | 0.58 | 0.76 | 0.41 | 0.32 | 0.05 | 3.25 | 8.68 | 4.14 | 0.60 | 0.91 | 0.60 | 0.36 | 0.06 | 4.94 | 11.61 |
| | S30TS002 | 4.52 | 0.79 | 1.07 | 0.58 | 0.39 | 0.07 | 4.44 | 11.86 | 5.65 | 0.81 | 1.29 | 0.85 | 0.45 | 0.08 | 6.74 | 15.87 |
| | S30TS003 | 3.41 | 0.60 | 1.07 | 0.58 | 0.37 | 0.06 | 3.35 | 9.44 | 4.26 | 0.62 | 1.29 | 0.85 | 0.41 | 0.07 | 5.09 | 12.59 |
| | S30TS004 | 4.64 | 0.81 | 1.39 | 0.76 | 0.46 | 0.08 | 4.56 | 12.70 | 5.81 | 0.84 | 1.66 | 1.09 | 0.52 | 0.09 | 6.93 | 16.94 |
| | S30TS005 | 3.58 | 0.63 | 1.39 | 0.76 | 0.41 | 0.07 | 3.52 | 10.36 | 4.48 | 0.65 | 1.66 | 1.09 | 0.47 | 0.08 | 5.35 | 13.78 |
| | S30TS006 | 4.87 | 0.86 | 1.70 | 0.92 | 0.53 | 0.09 | 4.79 | 13.76 | 6.09 | 0.88 | 2.04 | 1.34 | 0.59 | 0.10 | 7.27 | 18.31 |
| | S30TS007 | 4.31 | 0.76 | 2.02 | 1.10 | 0.46 | 0.08 | 4.23 | 12.96 | 5.38 | 0.78 | 2.42 | 1.59 | 0.52 | 0.09 | 6.43 | 17.21 |
| | S30TS008 | 7.33 | 1.27 | 2.65 | 1.44 | 0.59 | 0.10 | 7.20 | 20.58 | 9.17 | 1.31 | 3.18 | 2.09 | 0.67 | 0.11 | 10.93 | 27.46 |
| | S30TS009 | 11.05 | 4.25 | 18.92 | 13.29 | 0.00 | 0.00 | 15.42 | 62.93 | 18.42 | 4.40 | 22.70 | 17.93 | 0.00 | 0.00 | 32.13 | 95.58 |
| | S30TS010 | 16.17 | 6.22 | 25.22 | 17.71 | 0.00 | 0.00 | 22.57 | 87.89 | 26.95 | 6.44 | 30.26 | 23.90 | 0.00 | 0.00 | 47.02 | 134.57 |
| | S30TS011 | 26.80 | 10.31 | 50.44 | 35.43 | 0.00 | 0.00 | 37.40 | 160.38 | 44.67 | 10.67 | 60.53 | 47.82 | 0.00 | 0.00 | 77.92 | 241.61 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **S35** | | | | | | | | | | | | | | | | | |
| | S35AR001 | 0.52 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.65 | 1.25 | | | | | | | | |
| | S35AR002 | 0.73 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 1.77 | | | | | | | | |
| **S40** | | | | | | | | | | | | | | | | | |
| | S40BO002 | 32.37 | 6.54 | 35.74 | 4.84 | 1.71 | 0.29 | 42.95 | 124.44 | 40.46 | 6.71 | 46.25 | 6.26 | 7.03 | 1.20 | 60.03 | 167.94 |
| | S40BO003 | 31.70 | 6.41 | 35.74 | 4.84 | 1.71 | 0.29 | 42.06 | 122.75 | 39.62 | 6.57 | 46.25 | 6.26 | 7.03 | 1.20 | 58.78 | 165.71 |
| | S40BO004 | 31.10 | 6.29 | 35.74 | 4.84 | 1.71 | 0.29 | 41.27 | 121.24 | 38.88 | 6.45 | 46.25 | 6.26 | 7.03 | 1.20 | 57.68 | 163.75 |
| | S40CA001 | 29.57 | 5.96 | 30.68 | 4.16 | 1.58 | 0.27 | 39.21 | 111.43 | 36.96 | 6.11 | 39.70 | 5.38 | 6.06 | 1.04 | 54.80 | 150.05 |
| | S40CA002 | 28.05 | 5.71 | 30.68 | 4.16 | 1.65 | 0.28 | 37.27 | 107.80 | 35.07 | 5.86 | 39.70 | 5.38 | 6.28 | 1.07 | 52.10 | 145.46 |
| | S40CA003 | 22.27 | 4.80 | 34.75 | 4.71 | 9.25 | 1.58 | 29.95 | 107.31 | 27.84 | 4.92 | 44.97 | 6.09 | 36.45 | 6.23 | 41.86 | 168.36 |
| | S40CA004 | 38.62 | 7.96 | 53.61 | 7.26 | 6.80 | 1.16 | 51.45 | 166.86 | 48.27 | 8.17 | 69.38 | 9.40 | 26.48 | 4.53 | 71.91 | 238.14 |
| **S45** | | | | | | | | | | | | | | | | | |
| | S45DA004 | 1.68 | 0.21 | 0.00 | 0.25 | 0.00 | 0.00 | 2.63 | 4.77 | | | | | | | | |
| | S45DA005 | 2.00 | 0.25 | 0.00 | 0.25 | 0.00 | 0.00 | 3.14 | 5.64 | | | | | | | | |
| | S45DA007 | 2.11 | 0.27 | 0.00 | 0.25 | 0.00 | 0.00 | 3.31 | 5.94 | | | | | | | | |
| **T10** | | | | | | | | | | | | | | | | | |
| | T10CA001 | 1.12 | 0.22 | 0.00 | 0.08 | 0.00 | 0.00 | 1.41 | 2.83 | 1.40 | 0.23 | 0.00 | 0.08 | 0.00 | 0.00 | 1.99 | 3.70 |
| | T10CA002 | 1.67 | 0.33 | 0.00 | 0.08 | 0.00 | 0.00 | 2.11 | 4.19 | 2.09 | 0.34 | 0.00 | 0.08 | 0.00 | 0.00 | 2.96 | 5.47 |
| | T10CA004 | 1.24 | 0.25 | 0.00 | 0.08 | 0.00 | 0.00 | 1.56 | 3.13 | 1.55 | 0.25 | 0.00 | 0.08 | 0.00 | 0.00 | 2.20 | 4.08 |
| | T10CA005 | 1.67 | 0.33 | 0.00 | 0.08 | 0.00 | 0.00 | 2.11 | 4.19 | 2.09 | 0.34 | 0.00 | 0.08 | 0.00 | 0.00 | 2.96 | 5.47 |
| | T10CA007 | 1.87 | 0.37 | 0.00 | 0.08 | 0.00 | 0.00 | 2.36 | 4.68 | 2.34 | 0.38 | 0.00 | 0.08 | 0.00 | 0.00 | 3.31 | 6.11 |
| | T10CA008 | 2.49 | 0.50 | 0.00 | 0.08 | 0.00 | 0.00 | 3.14 | 6.21 | 3.11 | 0.51 | 0.00 | 0.08 | 0.00 | 0.00 | 4.42 | 8.12 |
| | T10CA009 | 2.30 | 0.46 | 0.00 | 0.08 | 0.00 | 0.00 | 2.90 | 5.74 | 2.88 | 0.47 | 0.00 | 0.08 | 0.00 | 0.00 | 4.08 | 7.51 |
| | T10CA010 | 2.52 | 0.50 | 0.00 | 0.08 | 0.00 | 0.00 | 3.18 | 6.28 | 3.15 | 0.51 | 0.00 | 0.08 | 0.00 | 0.00 | 4.47 | 8.21 |
| | T10CA011 | 3.46 | 0.69 | 0.00 | 0.08 | 0.00 | 0.00 | 4.37 | 8.60 | 4.33 | 0.71 | 0.00 | 0.08 | 0.00 | 0.00 | 6.14 | 11.26 |
| | T10CA012 | 3.38 | 0.67 | 0.00 | 0.08 | 0.00 | 0.00 | 4.27 | 8.40 | 4.23 | 0.69 | 0.00 | 0.08 | 0.00 | 0.00 | 6.00 | 11.00 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T10*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T10CA013 | 3.72 | 0.74 | 0.00 | 0.08 | 0.00 | 0.00 | 4.69 | 9.23 | 4.65 | 0.76 | 0.00 | 0.08 | 0.00 | 0.00 | 6.59 | 12.08 |
| | T10CA014 | 3.10 | 0.62 | 0.00 | 0.08 | 0.00 | 0.00 | 3.91 | 7.71 | 3.87 | 0.63 | 0.00 | 0.08 | 0.00 | 0.00 | 5.49 | 10.07 |
| | T10CA015 | 4.56 | 0.91 | 0.00 | 0.10 | 0.00 | 0.00 | 5.75 | 11.32 | 5.70 | 0.93 | 0.00 | 0.10 | 0.00 | 0.00 | 8.08 | 14.81 |
| | T10CA016 | 4.51 | 0.90 | 0.00 | 0.12 | 0.00 | 0.00 | 5.69 | 11.22 | 5.64 | 0.92 | 0.00 | 0.12 | 0.00 | 0.00 | 8.00 | 14.68 |
| | T10CA017 | 4.90 | 0.97 | 0.00 | 0.13 | 0.00 | 0.00 | 6.18 | 12.18 | 6.13 | 1.00 | 0.00 | 0.13 | 0.00 | 0.00 | 8.69 | 15.95 |
| | T10CA018 | 4.35 | 0.86 | 0.00 | 0.13 | 0.00 | 0.00 | 5.48 | 10.82 | 5.43 | 0.89 | 0.00 | 0.13 | 0.00 | 0.00 | 7.71 | 14.16 |
| | T10CA019 | 0.13 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.16 | 0.37 | 0.16 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.22 | 0.46 |
| | T10CA020 | 4.55 | 0.90 | 0.00 | 0.15 | 0.00 | 0.00 | 5.73 | 11.33 | 5.68 | 0.93 | 0.00 | 0.15 | 0.00 | 0.00 | 8.06 | 14.82 |
| | T10CA021 | 6.13 | 1.22 | 0.00 | 0.19 | 0.00 | 0.00 | 7.73 | 15.27 | 7.66 | 1.25 | 0.00 | 0.19 | 0.00 | 0.00 | 10.86 | 19.96 |
| | T10CA022 | 6.63 | 1.32 | 0.00 | 0.19 | 0.00 | 0.00 | 8.36 | 16.50 | 8.29 | 1.35 | 0.00 | 0.19 | 0.00 | 0.00 | 11.76 | 21.59 |
| | T10CA023 | 6.13 | 1.22 | 0.00 | 0.20 | 0.00 | 0.00 | 7.73 | 15.28 | 7.66 | 1.25 | 0.00 | 0.20 | 0.00 | 0.00 | 10.87 | 19.98 |
| | T10CA024 | 9.21 | 1.83 | 0.00 | 0.28 | 0.00 | 0.00 | 11.62 | 22.94 | 11.51 | 1.88 | 0.00 | 0.28 | 0.00 | 0.00 | 16.33 | 30.00 |
| | T10CA025 | 9.73 | 1.94 | 0.00 | 0.29 | 0.00 | 0.00 | 12.27 | 24.23 | 12.16 | 1.98 | 0.00 | 0.29 | 0.00 | 0.00 | 17.25 | 31.68 |
| | T10CA026 | 13.27 | 2.64 | 0.00 | 0.40 | 0.00 | 0.00 | 16.73 | 33.04 | 16.58 | 2.71 | 0.00 | 0.40 | 0.00 | 0.00 | 23.53 | 43.22 |
| | T10CA027 | 14.30 | 2.84 | 0.00 | 0.42 | 0.00 | 0.00 | 18.04 | 35.60 | 17.88 | 2.92 | 0.00 | 0.42 | 0.00 | 0.00 | 25.37 | 46.59 |
| | T10JD001 | 1.06 | 0.22 | 0.00 | 0.25 | 0.09 | 0.02 | 1.35 | 2.99 | 1.33 | 0.23 | 0.00 | 0.25 | 0.10 | 0.02 | 1.90 | 3.83 |
| **T15** | | | | | | | | | | | | | | | | | |
| | T15CA002 | 6.84 | 1.65 | 6.95 | 1.21 | 0.00 | 0.00 | 13.56 | 30.21 | 8.55 | 1.69 | 8.99 | 1.57 | 0.00 | 0.00 | 19.26 | 40.06 |
| | T15CA005 | 8.43 | 2.04 | 7.94 | 1.38 | 0.00 | 0.00 | 16.71 | 36.50 | 10.54 | 2.08 | 10.28 | 1.79 | 0.00 | 0.00 | 23.73 | 48.42 |
| | T15CA008 | 16.77 | 4.05 | 14.40 | 2.51 | 0.00 | 0.00 | 33.22 | 70.95 | 20.96 | 4.13 | 18.63 | 3.25 | 0.00 | 0.00 | 47.19 | 94.16 |
| | T15CA009 | 23.85 | 5.76 | 16.38 | 2.86 | 0.00 | 0.00 | 47.26 | 96.11 | 29.81 | 5.88 | 21.20 | 3.70 | 0.00 | 0.00 | 67.12 | 127.71 |
| | T15CA011 | 23.36 | 5.65 | 18.37 | 3.20 | 0.00 | 0.00 | 46.29 | 96.87 | 29.20 | 5.76 | 23.77 | 4.15 | 0.00 | 0.00 | 65.74 | 128.62 |
| | T15CA012 | 23.70 | 6.37 | 23.83 | 3.23 | 0.00 | 0.00 | 47.81 | 104.94 | 28.21 | 6.46 | 30.84 | 4.18 | 0.00 | 0.00 | 59.29 | 128.98 |
| | T15CA014 | 28.08 | 7.55 | 23.83 | 3.23 | 0.00 | 0.00 | 56.64 | 119.33 | 33.43 | 7.65 | 30.84 | 4.18 | 0.00 | 0.00 | 70.24 | 146.34 |
| | T15CA016 | 30.96 | 8.32 | 30.78 | 4.18 | 0.00 | 0.00 | 62.45 | 136.69 | 36.85 | 8.43 | 39.83 | 5.40 | 0.00 | 0.00 | 77.44 | 167.95 |
| | T15CA017 | 41.17 | 11.07 | 40.70 | 5.52 | 0.00 | 0.00 | 83.06 | 181.52 | 49.02 | 11.21 | 52.68 | 7.15 | 0.00 | 0.00 | 103.00 | 223.06 |
| | T15CA018 | 51.99 | 15.00 | 49.11 | 3.70 | 0.00 | 0.00 | 98.33 | 218.13 | 62.39 | 15.21 | 62.66 | 4.71 | 0.00 | 0.00 | 132.73 | 277.70 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T15*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T15CA019 | 80.73 | 23.29 | 71.98 | 5.42 | 0.00 | 0.00 | 152.68 | 334.10 | 96.87 | 23.61 | 91.83 | 6.91 | 0.00 | 0.00 | 206.10 | 425.32 |
| | T15CA020 | 8.60 | 2.08 | 7.94 | 1.38 | 0.00 | 0.00 | 17.05 | 37.05 | 10.75 | 2.12 | 10.28 | 1.79 | 0.00 | 0.00 | 24.21 | 49.15 |
| | T15CA021 | 8.91 | 2.15 | 8.94 | 1.56 | 0.00 | 0.00 | 17.66 | 39.22 | 11.14 | 2.20 | 11.56 | 2.02 | 0.00 | 0.00 | 25.08 | 52.00 |
| | T15CA022 | 9.43 | 2.28 | 8.94 | 1.56 | 0.00 | 0.00 | 18.69 | 40.90 | 11.79 | 2.32 | 11.56 | 2.02 | 0.00 | 0.00 | 26.55 | 54.24 |
| | T15CA023 | 23.85 | 5.76 | 16.38 | 2.86 | 0.00 | 0.00 | 47.26 | 96.11 | 29.81 | 5.88 | 21.20 | 3.70 | 0.00 | 0.00 | 67.12 | 127.71 |
| | T15CA024 | 12.05 | 2.91 | 10.92 | 1.90 | 0.00 | 0.00 | 23.89 | 51.67 | 15.07 | 2.97 | 14.13 | 2.46 | 0.00 | 0.00 | 33.93 | 68.56 |
| | T15CS004 | 7.67 | 1.85 | 6.65 | 1.16 | 0.00 | 0.00 | 15.19 | 32.52 | 9.59 | 1.89 | 8.61 | 1.50 | 0.00 | 0.00 | 21.58 | 43.17 |
| | T15CS007 | 13.38 | 3.23 | 11.81 | 2.06 | 0.00 | 0.00 | 26.51 | 56.99 | 16.72 | 3.30 | 15.29 | 2.67 | 0.00 | 0.00 | 37.65 | 75.63 |
| | T15JD005 | 6.16 | 1.49 | 6.95 | 1.21 | 0.00 | 0.00 | 12.20 | 28.01 | 7.70 | 1.52 | 8.99 | 1.57 | 0.00 | 0.00 | 17.33 | 37.11 |
| | T15JD006 | 7.31 | 1.77 | 7.35 | 1.28 | 0.00 | 0.00 | 14.49 | 32.20 | 9.14 | 1.80 | 9.51 | 1.66 | 0.00 | 0.00 | 20.57 | 42.68 |
| | T15JD007 | 8.40 | 2.03 | 8.94 | 1.56 | 0.00 | 0.00 | 16.64 | 37.57 | 10.50 | 2.07 | 11.56 | 2.02 | 0.00 | 0.00 | 23.63 | 49.78 |
| | T15JD008 | 14.80 | 3.58 | 13.90 | 2.42 | 0.00 | 0.00 | 29.32 | 64.02 | 18.50 | 3.65 | 17.99 | 3.14 | 0.00 | 0.00 | 41.65 | 84.93 |
| | T15JD009 | 15.59 | 3.77 | 13.90 | 2.42 | 0.00 | 0.00 | 30.89 | 66.57 | 19.49 | 3.84 | 17.99 | 3.14 | 0.00 | 0.00 | 43.88 | 88.34 |
| | T15JD010 | 19.28 | 4.66 | 18.37 | 3.20 | 0.00 | 0.00 | 38.20 | 83.71 | 24.10 | 4.75 | 23.77 | 4.15 | 0.00 | 0.00 | 54.26 | 111.03 |
| | T15JD011 | 20.86 | 5.04 | 18.37 | 3.20 | 0.00 | 0.00 | 41.33 | 88.80 | 26.08 | 5.14 | 23.77 | 4.15 | 0.00 | 0.00 | 58.71 | 117.85 |
| | T15KM008 | 35.42 | 9.52 | 30.78 | 4.18 | 0.00 | 0.00 | 71.45 | 151.35 | 42.17 | 9.65 | 39.83 | 5.40 | 0.00 | 0.00 | 88.61 | 185.66 |
| **T20** | | | | | | | | | | | | | | | | | |
| | T20CA001 | 21.39 | 5.38 | 20.32 | 2.76 | 3.39 | 0.58 | 19.82 | 73.64 | 23.03 | 5.42 | 25.93 | 3.52 | 14.26 | 2.44 | 23.11 | 97.71 |
| | T20CA002 | 30.13 | 7.78 | 28.71 | 3.89 | 10.18 | 1.74 | 28.04 | 110.47 | 32.45 | 7.83 | 36.63 | 4.97 | 42.75 | 7.31 | 32.70 | 164.64 |
| | T20CA003 | 43.90 | 11.64 | 40.73 | 5.53 | 14.71 | 2.52 | 41.02 | 160.05 | 47.28 | 11.72 | 51.97 | 7.05 | 61.80 | 10.57 | 47.83 | 238.22 |
| **T25** | | | | | | | | | | | | | | | | | |
| | T25CA006 | 17.79 | 3.23 | 24.17 | 3.28 | 0.00 | 0.00 | 23.25 | 71.72 | | | | | | | | |
| | T25CA007 | 19.51 | 3.54 | 26.43 | 3.59 | 0.00 | 0.00 | 25.49 | 78.56 | | | | | | | | |
| | T25CA008 | 21.12 | 3.83 | 31.95 | 4.33 | 0.00 | 0.00 | 27.60 | 88.83 | | | | | | | | |
| | T25JD008 | 8.89 | 1.37 | 9.96 | 1.35 | 0.63 | 0.11 | 9.62 | 31.93 | | | | | | | | |
| | T25JD009 | 10.90 | 1.67 | 15.84 | 2.15 | 0.63 | 0.11 | 11.78 | 43.08 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T25JD010 | 12.14 | 1.91 | 20.37 | 2.76 | 1.38 | 0.24 | 13.18 | 51.98 | | | | | | | | |
| | T25JD012 | 17.00 | 2.85 | 29.42 | 3.99 | 3.89 | 0.67 | 18.64 | 76.46 | | | | | | | | |
| | T25JD013 | 21.80 | 3.56 | 38.47 | 5.22 | 3.89 | 0.67 | 23.81 | 97.42 | | | | | | | | |
| | T25JD014 | 16.40 | 2.55 | 24.89 | 3.38 | 1.38 | 0.24 | 17.76 | 66.60 | | | | | | | | |
| | T25JD015 | 1.81 | 0.30 | 4.07 | 0.55 | 0.36 | 0.06 | 1.98 | 9.13 | | | | | | | | |
| | T25JD016 | 2.68 | 0.43 | 5.07 | 0.69 | 0.36 | 0.06 | 2.92 | 12.21 | | | | | | | | |
| | T25JD017 | 3.12 | 0.49 | 5.07 | 0.69 | 0.36 | 0.06 | 3.39 | 13.18 | | | | | | | | |
| | T25JD018 | 3.89 | 0.61 | 6.06 | 0.82 | 0.36 | 0.06 | 4.21 | 16.01 | | | | | | | | |
| | T25JD019 | 4.10 | 0.65 | 7.33 | 0.99 | 0.48 | 0.08 | 4.45 | 18.08 | | | | | | | | |
| | T25JD020 | 4.01 | 0.70 | 8.24 | 1.12 | 1.43 | 0.24 | 4.43 | 20.17 | | | | | | | | |
| **T30** | | | | | | | | | | | | | | | | | |
| | T30DW005 | 3.57 | 0.60 | 3.98 | 0.54 | 0.23 | 0.04 | 5.29 | 14.25 | 4.76 | 0.63 | 5.27 | 0.71 | 0.87 | 0.15 | 7.83 | 20.22 |
| | T30DW011 | 20.91 | 3.41 | 16.75 | 2.27 | 0.00 | 0.00 | 30.76 | 74.10 | 27.88 | 3.55 | 22.15 | 3.00 | 0.00 | 0.00 | 45.58 | 102.16 |
| | T30DW012 | 0.91 | 0.15 | 2.43 | 0.33 | 0.06 | 0.01 | 1.34 | 5.23 | 1.21 | 0.16 | 3.17 | 0.43 | 0.20 | 0.03 | 1.99 | 7.19 |
| | T30DW013 | 1.26 | 0.22 | 3.37 | 0.46 | 0.12 | 0.02 | 1.87 | 7.32 | 1.68 | 0.22 | 4.39 | 0.60 | 0.42 | 0.07 | 2.78 | 10.16 |
| | T30DW014 | 3.26 | 0.57 | 3.17 | 0.43 | 0.41 | 0.07 | 4.86 | 12.77 | 4.34 | 0.59 | 4.19 | 0.57 | 1.53 | 0.26 | 7.20 | 18.68 |
| | T30DW016 | 5.91 | 0.98 | 5.16 | 0.70 | 0.23 | 0.04 | 8.73 | 21.75 | 7.87 | 1.02 | 6.82 | 0.93 | 0.87 | 0.15 | 12.93 | 30.59 |
| | T30DW017 | 7.30 | 1.23 | 6.34 | 0.86 | 0.41 | 0.07 | 10.81 | 27.02 | 9.74 | 1.28 | 8.38 | 1.14 | 1.53 | 0.26 | 16.02 | 38.35 |
| | T30DW018 | 8.20 | 1.37 | 7.06 | 0.96 | 0.41 | 0.07 | 12.13 | 30.20 | 10.94 | 1.43 | 9.34 | 1.27 | 1.53 | 0.26 | 17.98 | 42.75 |
| | T30TM001 | 31.66 | 5.17 | 16.75 | 2.27 | 0.00 | 0.00 | 46.58 | 102.43 | 42.21 | 5.37 | 22.15 | 3.00 | 0.00 | 0.00 | 69.02 | 141.75 |
| | T30TM004 | 34.18 | 5.58 | 16.75 | 2.27 | 0.00 | 0.00 | 50.29 | 109.07 | 45.58 | 5.80 | 22.15 | 3.00 | 0.00 | 0.00 | 74.52 | 151.05 |
| | T30TM007 | 45.05 | 7.35 | 19.91 | 2.70 | 0.00 | 0.00 | 66.28 | 141.29 | 60.07 | 7.64 | 26.34 | 3.57 | 0.00 | 0.00 | 98.21 | 195.83 |
| | T30TM008 | 45.36 | 7.40 | 19.91 | 2.70 | 0.00 | 0.00 | 66.74 | 142.11 | 60.49 | 7.70 | 26.34 | 3.57 | 0.00 | 0.00 | 98.89 | 196.99 |
| | T30TM009 | 44.18 | 7.21 | 24.44 | 3.31 | 0.00 | 0.00 | 65.00 | 144.14 | 58.90 | 7.49 | 32.32 | 4.38 | 0.00 | 0.00 | 96.31 | 199.40 |
| | T30TM012 | 76.48 | 12.48 | 34.85 | 4.72 | 0.00 | 0.00 | 112.52 | 241.05 | 101.98 | 12.97 | 46.09 | 6.25 | 0.00 | 0.00 | 166.73 | 334.02 |
| | T30TM013 | 125.30 | 20.45 | 47.52 | 6.44 | 0.00 | 0.00 | 184.34 | 384.05 | 167.06 | 21.26 | 62.85 | 8.53 | 0.00 | 0.00 | 273.15 | 532.85 |
| | T30TM014 | 119.95 | 19.57 | 47.52 | 6.44 | 0.00 | 0.00 | 176.48 | 369.96 | 159.93 | 20.35 | 62.85 | 8.53 | 0.00 | 0.00 | 261.49 | 513.15 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T30*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T30TM015 | 127.93 | 20.87 | 47.52 | 6.44 | 0.00 | 0.00 | 188.21 | 390.97 | 170.57 | 21.70 | 62.85 | 8.53 | 0.00 | 0.00 | 278.88 | 542.53 |
| | T30VE007 | 17.63 | 2.88 | 11.32 | 1.53 | 0.00 | 0.00 | 25.93 | 59.29 | 23.50 | 2.99 | 14.97 | 2.03 | 0.00 | 0.00 | 38.42 | 81.91 |
| | T30VE008 | 22.39 | 3.65 | 16.75 | 2.27 | 0.00 | 0.00 | 32.94 | 78.00 | 29.86 | 3.80 | 22.15 | 3.00 | 0.00 | 0.00 | 48.81 | 107.62 |
| | T30VE009 | 36.33 | 5.93 | 22.63 | 3.06 | 0.00 | 0.00 | 53.46 | 121.41 | 48.45 | 6.16 | 29.93 | 4.06 | 0.00 | 0.00 | 79.21 | 167.81 |
| | T30VE010 | 43.76 | 7.14 | 24.89 | 3.37 | 0.00 | 0.00 | 64.38 | 143.54 | 58.35 | 7.42 | 32.92 | 4.47 | 0.00 | 0.00 | 95.40 | 198.56 |
| **T35** | | | | | | | | | | | | | | | | | |
| | T35CT001 | 23.71 | 3.87 | 12.67 | 1.72 | 0.00 | 0.00 | 34.88 | 76.85 | 31.61 | 4.02 | 16.76 | 2.27 | 0.00 | 0.00 | 51.69 | 106.35 |
| | T35CT002 | 29.22 | 4.77 | 12.67 | 1.72 | 0.00 | 0.00 | 42.99 | 91.37 | 38.96 | 4.96 | 16.76 | 2.27 | 0.00 | 0.00 | 63.70 | 126.65 |
| | T35CT003 | 32.86 | 5.36 | 16.75 | 2.27 | 0.00 | 0.00 | 48.34 | 105.58 | 43.81 | 5.57 | 22.15 | 3.00 | 0.00 | 0.00 | 71.62 | 146.15 |
| | T35CT004 | 30.95 | 5.05 | 9.23 | 1.25 | 0.00 | 0.00 | 45.53 | 92.01 | 41.27 | 5.25 | 12.21 | 1.65 | 0.00 | 0.00 | 67.47 | 127.85 |
| | T35CT005 | 29.27 | 4.78 | 9.23 | 1.25 | 0.00 | 0.00 | 43.06 | 87.59 | 39.02 | 4.96 | 12.21 | 1.65 | 0.00 | 0.00 | 63.80 | 121.64 |
| | T35CT006 | 29.27 | 4.78 | 9.23 | 1.25 | 0.00 | 0.00 | 43.06 | 87.59 | 39.02 | 4.96 | 12.21 | 1.65 | 0.00 | 0.00 | 63.80 | 121.64 |
| | T35CT007 | 32.42 | 5.29 | 9.23 | 1.25 | 0.00 | 0.00 | 47.69 | 95.88 | 43.22 | 5.50 | 12.21 | 1.65 | 0.00 | 0.00 | 70.67 | 133.25 |
| | T35CT008 | 41.49 | 6.77 | 13.58 | 1.84 | 0.00 | 0.00 | 61.05 | 124.73 | 55.32 | 7.04 | 17.96 | 2.43 | 0.00 | 0.00 | 90.45 | 173.20 |
| | T35CT009 | 48.25 | 7.87 | 13.58 | 1.84 | 0.00 | 0.00 | 70.99 | 142.53 | 64.33 | 8.19 | 17.96 | 2.43 | 0.00 | 0.00 | 105.19 | 198.10 |
| | T35CT010 | 47.27 | 7.71 | 13.58 | 1.84 | 0.00 | 0.00 | 69.55 | 139.95 | 63.03 | 8.02 | 17.96 | 2.43 | 0.00 | 0.00 | 103.06 | 194.50 |
| | T35CT011 | 56.55 | 9.23 | 15.84 | 2.15 | 0.00 | 0.00 | 83.19 | 166.96 | 75.39 | 9.59 | 20.95 | 2.84 | 0.00 | 0.00 | 123.27 | 232.04 |
| **T40** | | | | | | | | | | | | | | | | | |
| | T40AG001 | 8.55 | 1.43 | 7.24 | 1.12 | 0.39 | 0.07 | 9.45 | 28.25 | | | | | | | | |
| | T40AH001 | 2.71 | 0.44 | 0.00 | 0.25 | 0.00 | 0.00 | 3.40 | 6.80 | | | | | | | | |
| | T40AH003 | 4.01 | 0.65 | 0.00 | 0.25 | 0.00 | 0.00 | 5.04 | 9.95 | | | | | | | | |
| | T40AH004 | 4.97 | 0.81 | 0.00 | 0.25 | 0.00 | 0.00 | 6.24 | 12.27 | | | | | | | | |
| | T40GN001 | 1.83 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 3.86 | 2.25 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 5.02 |
| | T40KF011 | 0.28 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.60 | | | | | | | | |
| | T40KF013 | 0.42 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.89 | | | | | | | | |
| | T40KF014 | 0.38 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.80 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T40*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T40KF016 | 0.54 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 1.14 | | | | | | | | |
| | T40KF018 | 0.65 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.61 | 1.37 | | | | | | | | |
| | T40KF020 | 0.75 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 1.58 | | | | | | | | |
| | T40KF021 | 0.31 | 0.05 | 0.00 | 0.10 | 0.00 | 0.00 | 0.34 | 0.80 | | | | | | | | |
| | T40KF022 | 0.61 | 0.10 | 0.00 | 0.10 | 0.00 | 0.00 | 0.67 | 1.48 | | | | | | | | |
| | T40KF023 | 0.41 | 0.07 | 0.00 | 0.05 | 0.00 | 0.00 | 0.45 | 0.98 | | | | | | | | |
| | T40KF024 | 0.48 | 0.08 | 0.00 | 0.05 | 0.00 | 0.00 | 0.53 | 1.14 | | | | | | | | |
| | T40MY002 | 0.61 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 1.29 | 0.76 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 1.69 |
| | T40MY003 | 0.76 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 1.61 | 0.94 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.05 | 2.10 |
| | T40MY004 | 0.88 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 1.86 | 1.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 2.43 |
| | T40MY005 | 1.23 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 2.61 | 1.52 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 1.70 | 3.39 |
| | T40MY006 | 1.41 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.38 | 2.98 | 1.73 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 1.94 | 3.87 |
| | T40PA001 | 0.81 | 0.13 | 0.00 | 0.24 | 0.00 | 0.00 | 1.02 | 2.20 | | | | | | | | |
| | T40PA002 | 4.46 | 0.73 | 0.00 | 0.24 | 0.00 | 0.00 | 5.60 | 11.03 | | | | | | | | |
| | T40PA003 | 5.54 | 0.90 | 0.00 | 0.26 | 0.00 | 0.00 | 6.96 | 13.66 | | | | | | | | |
| | T40PA004 | 6.47 | 1.06 | 0.00 | 0.26 | 0.00 | 0.00 | 8.13 | 15.92 | | | | | | | | |
| | T40PA005 | 11.94 | 1.95 | 0.00 | 0.27 | 0.00 | 0.00 | 15.00 | 29.16 | | | | | | | | |
| | T40PA006 | 12.70 | 2.07 | 0.00 | 0.27 | 0.00 | 0.00 | 15.95 | 30.99 | | | | | | | | |
| | T40RS001 | 2.80 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.82 | 6.12 | | | | | | | | |
| | T40RS002 | 2.90 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 2.91 | 6.33 | | | | | | | | |
| | T40RS003 | 3.12 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 6.82 | | | | | | | | |
| | T40XX034 | 16.16 | 2.41 | 25.06 | 3.87 | 0.00 | 0.00 | 16.71 | 64.21 | | | | | | | | |
| | T40XX035 | 16.42 | 2.45 | 26.66 | 4.12 | 0.00 | 0.00 | 16.98 | 66.63 | | | | | | | | |
| | T40XX036 | 19.64 | 2.93 | 30.39 | 4.70 | 0.00 | 0.00 | 20.31 | 77.97 | | | | | | | | |
| | T40XX037 | 19.30 | 2.88 | 30.39 | 4.70 | 0.00 | 0.00 | 19.95 | 77.22 | | | | | | | | |
| | T40XX038 | 20.19 | 3.01 | 30.39 | 4.70 | 0.00 | 0.00 | 20.88 | 79.17 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| T45 | | | | | | | | | | | | | | | | | |
| | T45EA006 | 3.57 | 0.68 | 0.00 | 0.50 | 1.40 | 0.24 | 2.53 | 8.92 | | | | | | | | |
| | T45EA007 | 5.29 | 1.01 | 0.00 | 0.50 | 2.11 | 0.36 | 3.74 | 13.01 | | | | | | | | |
| | T45MY004 | 2.60 | 0.49 | 0.00 | 0.30 | 1.00 | 0.17 | 2.58 | 7.14 | 3.25 | 0.51 | 0.00 | 0.30 | 3.67 | 0.63 | 3.69 | 12.05 |
| | T45MY005 | 3.39 | 0.66 | 0.00 | 0.30 | 1.51 | 0.26 | 3.37 | 9.49 | 4.24 | 0.68 | 0.00 | 0.30 | 5.50 | 0.94 | 4.82 | 16.48 |
| | T45MY006 | 3.50 | 0.68 | 0.00 | 0.30 | 1.51 | 0.26 | 3.48 | 9.73 | 4.38 | 0.70 | 0.00 | 0.30 | 5.50 | 0.94 | 4.97 | 16.79 |
| | T45MY007 | 3.39 | 0.66 | 0.00 | 0.30 | 1.51 | 0.26 | 3.37 | 9.49 | 4.24 | 0.68 | 0.00 | 0.30 | 5.50 | 0.94 | 4.81 | 16.47 |
| | T45MY015 | 2.77 | 0.52 | 0.00 | 0.40 | 1.00 | 0.17 | 2.54 | 7.40 | 3.46 | 0.54 | 0.00 | 0.40 | 3.67 | 0.63 | 3.67 | 12.37 |
| | T45MY016 | 2.84 | 0.53 | 0.00 | 0.40 | 1.00 | 0.17 | 2.61 | 7.55 | 3.55 | 0.55 | 0.00 | 0.40 | 3.67 | 0.63 | 3.76 | 12.56 |
| | T45MY017 | 3.02 | 0.59 | 0.00 | 0.40 | 1.51 | 0.26 | 2.79 | 8.57 | 3.78 | 0.61 | 0.00 | 0.40 | 5.50 | 0.94 | 4.03 | 15.26 |
| | T45MY018 | 2.17 | 0.36 | 0.00 | 0.40 | 1.00 | 0.17 | 1.86 | 5.96 | | | | | | | | |
| | T45MY019 | 2.15 | 0.36 | 0.00 | 0.40 | 1.00 | 0.17 | 1.84 | 5.92 | | | | | | | | |
| | T45XX001 | 3.32 | 0.60 | 0.00 | 0.40 | 0.81 | 0.14 | 3.27 | 8.54 | 4.15 | 0.62 | 0.00 | 0.40 | 2.94 | 0.50 | 4.67 | 13.28 |
| | T45XX003 | 4.54 | 0.80 | 0.00 | 0.40 | 0.81 | 0.14 | 4.46 | 11.15 | 5.67 | 0.83 | 0.00 | 0.40 | 2.94 | 0.50 | 6.38 | 16.72 |
| | T45XX008 | 2.75 | 0.51 | 0.00 | 0.40 | 0.81 | 0.14 | 2.52 | 7.13 | 3.43 | 0.52 | 0.00 | 0.40 | 2.94 | 0.50 | 3.63 | 11.42 |
| | T45XX009 | 3.46 | 0.53 | 0.00 | 0.40 | 0.81 | 0.14 | 2.93 | 8.27 | | | | | | | | |
| | T45XX010 | 3.48 | 0.53 | 0.00 | 0.40 | 0.81 | 0.14 | 2.95 | 8.31 | | | | | | | | |
| | T45XX011 | 2.78 | 0.51 | 0.00 | 0.40 | 0.72 | 0.12 | 1.96 | 6.49 | | | | | | | | |
| | T45XX012 | 2.99 | 0.54 | 0.00 | 0.40 | 0.72 | 0.12 | 2.10 | 6.87 | | | | | | | | |
| | T45XX013 | 3.10 | 0.56 | 0.00 | 0.40 | 0.81 | 0.14 | 2.19 | 7.20 | | | | | | | | |
| | T45XX014 | 3.75 | 0.69 | 0.00 | 0.50 | 1.08 | 0.18 | 2.64 | 8.84 | | | | | | | | |
| | T45XX015 | 3.85 | 0.71 | 0.00 | 0.50 | 1.08 | 0.18 | 2.72 | 9.04 | | | | | | | | |
| | T45XX016 | 4.30 | 0.79 | 0.00 | 0.50 | 1.21 | 0.21 | 3.03 | 10.04 | | | | | | | | |
| | T45XX017 | 4.55 | 0.84 | 0.00 | 0.50 | 1.41 | 0.24 | 3.21 | 10.75 | | | | | | | | |
| | T45XX018 | 4.63 | 0.86 | 0.00 | 0.50 | 1.41 | 0.24 | 3.27 | 10.91 | | | | | | | | |
| | T45XX019 | 5.34 | 0.97 | 0.00 | 0.50 | 1.41 | 0.24 | 3.76 | 12.22 | | | | | | | | |
| | T45XX020 | 5.15 | 0.95 | 0.00 | 0.60 | 1.61 | 0.28 | 3.64 | 12.23 | | | | | | | | |
| | T45XX021 | 5.65 | 1.04 | 0.00 | 0.60 | 1.61 | 0.28 | 3.98 | 13.16 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T45*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T45XX022 | 6.31 | 1.16 | 0.00 | 0.60 | 1.88 | 0.32 | 4.45 | 14.72 | | | | | | | | |
| | T45XX023 | 7.51 | 1.39 | 0.00 | 0.60 | 2.29 | 0.39 | 5.30 | 17.48 | | | | | | | | |
| | T45XX024 | 2.35 | 0.44 | 0.00 | 0.09 | 0.81 | 0.14 | 1.66 | 5.49 | | | | | | | | |
| | T45XX025 | 2.61 | 0.48 | 0.00 | 0.10 | 0.81 | 0.14 | 1.84 | 5.98 | | | | | | | | |
| | T45XX026 | 1.48 | 0.27 | 0.00 | 0.40 | 0.44 | 0.08 | 1.05 | 3.72 | | | | | | | | |
| | T45XX027 | 1.64 | 0.31 | 0.00 | 0.40 | 0.58 | 0.10 | 1.16 | 4.19 | | | | | | | | |
| | T45XX028 | 1.85 | 0.35 | 0.00 | 0.40 | 0.75 | 0.13 | 1.31 | 4.79 | | | | | | | | |
| | T45XX029 | 6.10 | 1.37 | 5.70 | 0.66 | 0.40 | 0.07 | 6.17 | 20.47 | | | | | | | | |
| | T45XX030 | 5.99 | 1.38 | 5.70 | 0.66 | 0.81 | 0.14 | 6.10 | 20.78 | | | | | | | | |
| | T45XX031 | 7.30 | 1.66 | 5.70 | 0.66 | 0.81 | 0.14 | 7.41 | 23.68 | | | | | | | | |
| | T45XX032 | 4.53 | 0.66 | 0.00 | 0.50 | 0.60 | 0.10 | 3.82 | 10.21 | | | | | | | | |
| | T45XX033 | 5.28 | 0.77 | 0.00 | 0.60 | 0.81 | 0.14 | 4.46 | 12.06 | | | | | | | | |
| | T45XX034 | 2.56 | 0.47 | 0.00 | 0.40 | 0.81 | 0.14 | 1.80 | 6.18 | | | | | | | | |
| | T45XX035 | 2.74 | 0.50 | 0.00 | 0.40 | 0.81 | 0.14 | 1.93 | 6.52 | | | | | | | | |
| **T50** | | | | | | | | | | | | | | | | | |
| | T50GM001 | 1.60 | 0.27 | 5.33 | 0.72 | 0.19 | 0.03 | 1.78 | 9.92 | 1.97 | 0.28 | 6.85 | 0.93 | 0.62 | 0.11 | 2.35 | 13.11 |
| | T50GM004 | 3.64 | 0.61 | 12.65 | 1.71 | 0.19 | 0.03 | 4.04 | 22.87 | 4.49 | 0.62 | 16.26 | 2.20 | 0.62 | 0.11 | 5.32 | 29.62 |
| | T50GM005 | 3.92 | 0.65 | 12.65 | 1.71 | 0.20 | 0.03 | 4.34 | 23.50 | 4.83 | 0.67 | 16.26 | 2.20 | 0.69 | 0.12 | 5.73 | 30.50 |
| | T50XX001 | 1.54 | 0.27 | 5.77 | 0.78 | 0.27 | 0.05 | 1.73 | 10.41 | 1.90 | 0.28 | 7.42 | 1.00 | 0.90 | 0.15 | 2.28 | 13.93 |
| | T50XX002 | 1.87 | 0.32 | 5.77 | 0.78 | 0.21 | 0.04 | 2.08 | 11.07 | 2.30 | 0.33 | 7.42 | 1.00 | 0.70 | 0.12 | 2.75 | 14.62 |
| | T50XX003 | 2.14 | 0.36 | 7.99 | 1.08 | 0.21 | 0.04 | 2.37 | 14.19 | 2.63 | 0.37 | 10.27 | 1.39 | 0.68 | 0.12 | 3.13 | 18.59 |
| | T50XX004 | 1.86 | 0.32 | 5.77 | 0.78 | 0.29 | 0.05 | 2.08 | 11.15 | 2.29 | 0.33 | 7.42 | 1.00 | 1.01 | 0.17 | 2.74 | 14.96 |
| | T50XX005 | 2.22 | 0.38 | 5.77 | 0.78 | 0.22 | 0.04 | 2.47 | 11.88 | 2.73 | 0.39 | 7.42 | 1.00 | 0.77 | 0.13 | 3.25 | 15.69 |
| | T50XX006 | 2.29 | 0.39 | 7.99 | 1.08 | 0.21 | 0.04 | 2.55 | 14.55 | 2.82 | 0.40 | 10.27 | 1.39 | 0.75 | 0.13 | 3.36 | 19.12 |
| | T50XX007 | 1.63 | 0.28 | 5.77 | 0.78 | 0.27 | 0.05 | 1.82 | 10.60 | 2.01 | 0.29 | 7.42 | 1.00 | 0.90 | 0.15 | 2.40 | 14.17 |
| | T50XX008 | 2.00 | 0.34 | 5.77 | 0.78 | 0.21 | 0.04 | 2.22 | 11.36 | 2.46 | 0.35 | 7.42 | 1.00 | 0.70 | 0.12 | 2.93 | 14.98 |
| | T50XX009 | 2.46 | 0.41 | 7.99 | 1.08 | 0.21 | 0.04 | 2.73 | 14.92 | 3.02 | 0.42 | 10.27 | 1.39 | 0.68 | 0.12 | 3.60 | 19.50 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T50*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T50XX010 | 2.22 | 0.38 | 5.77 | 0.78 | 0.29 | 0.05 | 2.48 | 11.97 | 2.74 | 0.39 | 7.42 | 1.00 | 1.01 | 0.17 | 3.27 | 16.00 |
| | T50XX011 | 2.43 | 0.41 | 7.99 | 1.08 | 0.22 | 0.04 | 2.70 | 14.87 | 2.99 | 0.42 | 10.27 | 1.39 | 0.77 | 0.13 | 3.55 | 19.52 |
| | T50XX012 | 2.53 | 0.43 | 7.99 | 1.08 | 0.21 | 0.04 | 2.81 | 15.09 | 3.11 | 0.44 | 10.27 | 1.39 | 0.75 | 0.13 | 3.70 | 19.79 |
| | T50XX013 | 2.00 | 0.34 | 1.81 | 0.21 | 0.27 | 0.05 | 2.23 | 6.91 | 2.46 | 0.35 | 2.58 | 0.30 | 0.90 | 0.15 | 2.94 | 9.68 |
| | T50XX014 | 2.25 | 0.38 | 1.81 | 0.21 | 0.21 | 0.04 | 2.50 | 7.40 | 2.77 | 0.39 | 2.58 | 0.30 | 0.70 | 0.12 | 3.30 | 10.16 |
| | T50XX015 | 2.60 | 0.44 | 3.13 | 0.36 | 0.21 | 0.04 | 2.89 | 9.67 | 3.20 | 0.45 | 4.47 | 0.52 | 0.68 | 0.12 | 3.81 | 13.25 |
| | T50XX016 | 2.40 | 0.41 | 3.13 | 0.36 | 0.29 | 0.05 | 2.67 | 9.31 | 2.95 | 0.42 | 4.47 | 0.52 | 1.01 | 0.17 | 3.52 | 13.06 |
| | T50XX017 | 2.45 | 0.41 | 3.13 | 0.36 | 0.22 | 0.04 | 2.72 | 9.33 | 3.02 | 0.42 | 4.47 | 0.52 | 0.77 | 0.13 | 3.59 | 12.92 |
| | T50XX018 | 2.94 | 0.49 | 3.13 | 0.36 | 0.21 | 0.04 | 3.26 | 10.43 | 3.62 | 0.51 | 4.47 | 0.52 | 0.75 | 0.13 | 4.30 | 14.30 |
| | T50XX019 | 2.35 | 0.40 | 3.13 | 0.36 | 0.21 | 0.04 | 2.61 | 9.10 | 2.89 | 0.41 | 4.47 | 0.52 | 0.70 | 0.12 | 3.44 | 12.55 |
| | T50XX020 | 2.85 | 0.48 | 3.13 | 0.36 | 0.22 | 0.04 | 3.16 | 10.24 | 3.51 | 0.49 | 4.47 | 0.52 | 0.77 | 0.13 | 4.17 | 14.06 |
| | T50XX021 | 2.58 | 0.43 | 3.13 | 0.36 | 0.21 | 0.04 | 2.86 | 9.61 | 3.17 | 0.45 | 4.47 | 0.52 | 0.68 | 0.12 | 3.78 | 13.19 |
| | T50XX022 | 4.09 | 0.84 | 10.53 | 1.33 | 0.38 | 0.06 | 4.22 | 21.45 | 5.12 | 0.86 | 13.62 | 1.71 | 1.49 | 0.25 | 5.68 | 28.73 |
| | T50XX023 | 3.20 | 0.66 | 21.30 | 3.09 | 0.38 | 0.06 | 3.30 | 31.99 | 4.00 | 0.68 | 27.29 | 3.96 | 1.49 | 0.25 | 4.45 | 42.12 |
| | T50XX024 | 2.78 | 0.58 | 21.30 | 3.09 | 0.38 | 0.06 | 2.87 | 31.06 | 3.47 | 0.59 | 27.29 | 3.96 | 1.49 | 0.25 | 3.87 | 40.92 |
| | T50XX025 | 5.34 | 1.10 | 9.94 | 1.25 | 0.62 | 0.11 | 5.52 | 23.88 | 6.68 | 1.13 | 12.87 | 1.62 | 2.54 | 0.43 | 7.43 | 32.70 |
| | T50XX026 | 5.44 | 1.12 | 12.28 | 1.55 | 0.59 | 0.10 | 5.62 | 26.70 | 6.80 | 1.15 | 15.89 | 2.00 | 2.29 | 0.39 | 7.56 | 36.08 |
| | T50XX027 | 7.27 | 1.75 | 21.88 | 2.96 | 0.55 | 0.09 | 7.48 | 41.98 | 8.72 | 1.78 | 28.26 | 3.83 | 2.10 | 0.36 | 10.36 | 55.41 |
| | T50XX028 | 7.20 | 1.75 | 18.99 | 2.57 | 0.83 | 0.14 | 7.43 | 38.91 | 8.64 | 1.78 | 24.53 | 3.32 | 3.23 | 0.55 | 10.29 | 52.34 |
| | T50XX029 | 6.64 | 1.62 | 25.59 | 3.47 | 0.83 | 0.14 | 6.86 | 45.15 | 7.96 | 1.65 | 33.06 | 4.48 | 3.23 | 0.55 | 9.49 | 60.42 |
| | T50XX030 | 8.52 | 2.06 | 28.90 | 3.91 | 0.83 | 0.14 | 8.79 | 53.15 | 10.23 | 2.10 | 37.32 | 5.05 | 3.23 | 0.55 | 12.17 | 70.65 |
| | T50XX031 | 7.88 | 1.90 | 33.02 | 4.47 | 0.76 | 0.13 | 8.12 | 56.28 | 9.45 | 1.94 | 42.66 | 5.78 | 2.91 | 0.50 | 11.25 | 74.49 |
| | T50XX032 | 7.92 | 1.90 | 21.88 | 2.96 | 0.55 | 0.09 | 8.15 | 43.45 | 9.50 | 1.93 | 28.26 | 3.83 | 2.10 | 0.36 | 11.29 | 57.27 |
| | T50XX033 | 8.63 | 2.08 | 33.02 | 4.47 | 0.76 | 0.13 | 8.89 | 57.98 | 10.35 | 2.12 | 42.66 | 5.78 | 2.91 | 0.50 | 12.31 | 76.63 |
| | T50XX035 | 7.62 | 1.56 | 12.28 | 1.55 | 0.59 | 0.10 | 7.86 | 31.56 | 9.53 | 1.60 | 15.89 | 2.00 | 2.29 | 0.39 | 10.57 | 42.27 |
| **T55** | | | | | | | | | | | | | | | | | |
| | T55CA002 | 35.82 | 12.95 | 32.27 | 5.30 | 9.52 | 1.63 | 47.27 | 144.76 | 39.80 | 13.01 | 41.76 | 6.86 | 37.45 | 6.40 | 55.45 | 200.73 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***T55*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | T55CA003 | 48.57 | 17.89 | 46.56 | 7.64 | 17.82 | 3.05 | 64.29 | 205.82 | 53.96 | 17.98 | 60.26 | 9.89 | 70.09 | 11.99 | 75.41 | 299.58 |
| | T55CA007 | 27.11 | 9.69 | 24.17 | 3.97 | 9.88 | 1.69 | 35.72 | 112.23 | 30.13 | 9.74 | 31.28 | 5.13 | 38.89 | 6.65 | 41.90 | 163.72 |
| | T55CA008 | 26.15 | 6.32 | 18.22 | 1.66 | 7.79 | 1.33 | 30.69 | 92.16 | 27.75 | 6.36 | 22.02 | 2.01 | 30.12 | 5.15 | 34.58 | 127.99 |
| | T55CA009 | 30.68 | 7.48 | 19.97 | 1.82 | 10.77 | 1.84 | 36.07 | 108.63 | 32.56 | 7.53 | 24.13 | 2.20 | 41.64 | 7.12 | 40.63 | 155.81 |
| | T55CA010 | 26.70 | 6.30 | 15.00 | 1.37 | 4.14 | 0.71 | 31.22 | 85.44 | 28.34 | 6.34 | 18.12 | 1.65 | 16.29 | 2.79 | 35.18 | 108.71 |
| | T55CA011 | 31.40 | 7.44 | 18.22 | 1.66 | 5.82 | 1.00 | 36.75 | 102.29 | 33.32 | 7.49 | 22.02 | 2.01 | 22.90 | 3.92 | 41.40 | 133.06 |
| | T55CA012 | 37.64 | 9.12 | 24.88 | 2.27 | 11.95 | 2.04 | 44.19 | 132.09 | 39.94 | 9.18 | 30.06 | 2.74 | 47.02 | 8.04 | 49.79 | 186.77 |
| | T55CA013 | 41.12 | 10.04 | 28.38 | 2.59 | 15.14 | 2.59 | 48.34 | 148.20 | 43.64 | 10.10 | 34.30 | 3.13 | 59.94 | 10.25 | 54.46 | 215.82 |
| | T55JD001 | 20.49 | 4.94 | 18.57 | 1.69 | 5.82 | 1.00 | 24.04 | 76.55 | 21.74 | 4.97 | 22.44 | 2.05 | 22.90 | 3.92 | 27.08 | 105.10 |
| | T55JD002 | 23.74 | 5.68 | 19.97 | 1.82 | 5.82 | 1.00 | 27.82 | 85.85 | 25.19 | 5.72 | 24.13 | 2.20 | 22.90 | 3.92 | 31.34 | 115.40 |
| | T55JD003 | 29.61 | 7.31 | 26.63 | 2.43 | 12.94 | 2.21 | 34.88 | 116.01 | 31.43 | 7.36 | 32.18 | 2.93 | 50.88 | 8.70 | 39.29 | 172.77 |
| | T55JD004 | 33.08 | 8.21 | 28.94 | 2.64 | 15.45 | 2.64 | 38.99 | 129.95 | 35.10 | 8.26 | 34.97 | 3.19 | 60.80 | 10.40 | 43.92 | 196.64 |
| | T55KM009 | 27.16 | 9.71 | 24.22 | 3.98 | 9.88 | 1.69 | 35.78 | 112.42 | 30.18 | 9.75 | 31.35 | 5.15 | 38.89 | 6.65 | 41.97 | 163.94 |
| | T55KM012 | 37.72 | 14.17 | 51.72 | 8.49 | 17.82 | 3.05 | 50.09 | 183.06 | 41.91 | 14.24 | 66.94 | 10.99 | 70.09 | 11.99 | 58.75 | 274.91 |
| | T55KM013 | 89.65 | 32.71 | 73.77 | 12.11 | 28.22 | 4.83 | 118.48 | 359.77 | 99.61 | 32.87 | 95.46 | 15.67 | 110.97 | 18.98 | 138.98 | 512.54 |
| | T55KM014 | 100.93 | 38.63 | 99.28 | 16.30 | 58.27 | 9.96 | 134.43 | 457.80 | 112.15 | 38.82 | 128.48 | 21.09 | 229.20 | 39.19 | 157.69 | 726.62 |
| | T55KM015 | 36.59 | 8.92 | 27.26 | 2.49 | 12.94 | 2.21 | 43.00 | 133.41 | 38.83 | 8.97 | 32.94 | 3.00 | 50.88 | 8.70 | 48.45 | 191.77 |
| | T55KM016 | 41.68 | 10.18 | 30.13 | 2.75 | 15.45 | 2.64 | 49.00 | 151.83 | 44.23 | 10.25 | 36.41 | 3.32 | 60.80 | 10.40 | 55.21 | 220.62 |
| | T55VO002 | 22.17 | 5.39 | 20.95 | 1.91 | 7.64 | 1.31 | 26.05 | 85.42 | 23.53 | 5.43 | 25.32 | 2.31 | 30.24 | 5.17 | 29.35 | 121.35 |
| | T55VO003 | 23.73 | 5.70 | 20.95 | 1.91 | 6.22 | 1.06 | 27.83 | 87.40 | 25.19 | 5.73 | 25.32 | 2.31 | 24.47 | 4.18 | 31.35 | 118.55 |
| | T55VO004 | 33.18 | 8.09 | 29.01 | 2.65 | 11.95 | 2.04 | 39.01 | 125.93 | 35.22 | 8.15 | 35.06 | 3.20 | 47.02 | 8.04 | 43.95 | 180.64 |
| | T55VO005 | 27.95 | 6.59 | 23.55 | 2.15 | 3.61 | 0.62 | 32.68 | 97.15 | 29.67 | 6.63 | 28.45 | 2.59 | 14.20 | 2.43 | 36.82 | 120.79 |
| | T55VO006 | 36.79 | 9.10 | 32.52 | 2.97 | 16.53 | 2.83 | 43.34 | 144.08 | 39.04 | 9.16 | 39.29 | 3.58 | 65.00 | 11.12 | 48.82 | 216.01 |
| **T56** | | | | | | | | | | | | | | | | | |
| | T56CA006 | 54.45 | 19.91 | 52.04 | 8.54 | 19.57 | 3.35 | 71.99 | 229.85 | 60.50 | 20.01 | 84.91 | 13.13 | 76.39 | 13.06 | 84.45 | 352.45 |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| **T57** | | | | | | | | | | | | | | | | | |
| | T57CU001 | 8.10 | 1.62 | 6.88 | 0.93 | 0.37 | 0.06 | 10.19 | 28.15 | | | | | | | | |
| | T57CU002 | 11.20 | 2.24 | 6.88 | 0.93 | 0.37 | 0.06 | 14.09 | 35.77 | | | | | | | | |
| | T57CU003 | 11.93 | 2.38 | 10.41 | 1.41 | 0.37 | 0.06 | 14.99 | 41.55 | | | | | | | | |
| | T57CU004 | 12.85 | 2.57 | 16.02 | 2.17 | 0.37 | 0.06 | 16.16 | 50.20 | | | | | | | | |
| | T57CU005 | 14.66 | 2.93 | 30.32 | 4.11 | 0.37 | 0.06 | 18.43 | 70.88 | | | | | | | | |
| **T60** | | | | | | | | | | | | | | | | | |
| | T60KI001 | 17.57 | 4.27 | 15.84 | 2.45 | 2.81 | 0.48 | 19.16 | 62.58 | 21.09 | 4.34 | 20.95 | 3.24 | 10.69 | 1.83 | 26.28 | 88.42 |
| | T60KI002 | 26.27 | 6.58 | 29.87 | 4.62 | 8.97 | 1.53 | 28.82 | 106.66 | 31.52 | 6.69 | 39.51 | 6.11 | 34.64 | 5.92 | 39.54 | 163.93 |
| | T60KI003 | 43.38 | 10.61 | 40.73 | 6.30 | 9.14 | 1.56 | 47.35 | 159.07 | 52.06 | 10.78 | 53.87 | 8.33 | 35.26 | 6.03 | 64.96 | 231.29 |
| | T60KI004 | 7.81 | 2.26 | 40.73 | 6.30 | 9.14 | 1.56 | 8.85 | 76.65 | 9.38 | 2.30 | 53.87 | 8.33 | 35.26 | 6.03 | 12.14 | 127.31 |
| | T60KI006 | 50.36 | 12.86 | 49.79 | 7.70 | 22.31 | 3.82 | 55.47 | 202.31 | 60.44 | 13.07 | 65.85 | 10.18 | 86.13 | 14.73 | 76.10 | 326.50 |
| | T60SO001 | 30.69 | 7.62 | 29.87 | 4.62 | 8.97 | 1.53 | 33.61 | 116.91 | 36.83 | 7.75 | 39.51 | 6.11 | 34.64 | 5.92 | 46.10 | 176.86 |
| | T60SO002 | 41.27 | 10.52 | 40.73 | 6.30 | 18.07 | 3.09 | 45.44 | 165.42 | 49.52 | 10.70 | 53.87 | 8.33 | 69.72 | 11.92 | 62.34 | 266.40 |
| | T60SO003 | 41.95 | 10.69 | 40.73 | 6.30 | 18.07 | 3.09 | 46.19 | 167.02 | 50.34 | 10.87 | 53.87 | 8.33 | 69.72 | 11.92 | 63.36 | 268.41 |
| | T60SO004 | 54.00 | 13.28 | 49.79 | 7.70 | 13.06 | 2.23 | 59.01 | 199.07 | 64.80 | 13.50 | 65.85 | 10.18 | 50.43 | 8.62 | 80.95 | 294.33 |
| | T60SO005 | 54.95 | 13.50 | 49.79 | 7.70 | 13.06 | 2.23 | 60.04 | 201.27 | 65.93 | 13.73 | 65.85 | 10.18 | 50.43 | 8.62 | 82.36 | 297.10 |
| **T65** | | | | | | | | | | | | | | | | | |
| | T65WG012 | 94.25 | 23.28 | 14.99 | 7.78 | 1.80 | 0.31 | 134.25 | 276.66 | | | | | | | | |
| | T65WG013 | 141.88 | 34.99 | 14.99 | 7.78 | 1.80 | 0.31 | 202.06 | 403.81 | | | | | | | | |
| | T65WG014 | 154.58 | 38.11 | 33.41 | 18.35 | 1.80 | 0.31 | 220.14 | 466.70 | | | | | | | | |
| **W25** | | | | | | | | | | | | | | | | | |
| | W25AO002 | 0.85 | 0.08 | 0.09 | 0.79 | 0.00 | 0.00 | 1.48 | 3.29 | | | | | | | | |
| | W25AO003 | 1.24 | 0.11 | 0.09 | 0.79 | 0.00 | 0.00 | 2.15 | 4.38 | | | | | | | | |
| | W25AO004 | 1.23 | 0.11 | 0.18 | 1.09 | 0.00 | 0.00 | 2.12 | 4.73 | | | | | | | | |
| | W25AO005 | 2.48 | 0.23 | 0.37 | 1.68 | 0.00 | 0.00 | 4.29 | 9.05 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***W25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | W25AO006 | 1.91 | 0.17 | 0.09 | 0.79 | 0.00 | 0.00 | 3.30 | 6.26 | | | | | | | | |
| | W25CJ001 | 9.99 | 1.27 | 1.36 | 0.82 | 0.00 | 0.00 | 15.69 | 29.13 | | | | | | | | |
| | W25CJ002 | 15.49 | 1.97 | 1.63 | 0.98 | 0.00 | 0.00 | 24.32 | 44.39 | | | | | | | | |
| | W25CJ003 | 24.50 | 3.12 | 1.63 | 0.98 | 0.00 | 0.00 | 38.46 | 68.69 | | | | | | | | |
| | W25KZ001 | 1.37 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | 2.80 | | | | | | | | |
| | W25KZ002 | 1.51 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 1.17 | 3.09 | | | | | | | | |
| | W25KZ003 | 1.55 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 | 3.16 | | | | | | | | |
| | W25KZ004 | 2.20 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 1.71 | 4.50 | | | | | | | | |
| | W25KZ005 | 2.60 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 2.01 | 5.31 | | | | | | | | |
| | W25KZ006 | 2.65 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 2.05 | 5.41 | | | | | | | | |
| | W25KZ007 | 2.83 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 5.78 | | | | | | | | |
| | W25NL001 | 14.77 | 1.35 | 18.43 | 8.91 | 0.00 | 0.00 | 27.84 | 71.30 | | | | | | | | |
| | W25NL002 | 24.76 | 2.26 | 44.02 | 5.96 | 0.00 | 0.00 | 46.67 | 123.67 | | | | | | | | |
| | W25NL003 | 15.84 | 1.45 | 19.71 | 2.67 | 0.00 | 0.00 | 29.86 | 69.53 | | | | | | | | |
| | W25NL004 | 31.86 | 2.95 | 4.47 | 0.61 | 0.44 | 0.08 | 60.24 | 100.65 | | | | | | | | |
| | W25NL005 | 60.46 | 5.52 | 91.98 | 12.46 | 0.00 | 0.00 | 113.97 | 284.39 | | | | | | | | |
| | W25SD001 | 1.07 | 0.10 | 0.46 | 0.22 | 0.00 | 0.00 | 1.84 | 3.69 | | | | | | | | |
| | W25SD002 | 2.75 | 0.25 | 0.28 | 0.14 | 0.00 | 0.00 | 4.74 | 8.16 | | | | | | | | |
| | W25SD003 | 1.65 | 0.15 | 4.91 | 0.57 | 0.00 | 0.00 | 2.85 | 10.13 | | | | | | | | |
| | W25SD004 | 2.36 | 0.22 | 2.18 | 0.25 | 0.04 | 0.01 | 4.10 | 9.16 | | | | | | | | |
| | W25SD005 | 1.25 | 0.11 | 3.27 | 0.38 | 0.00 | 0.00 | 2.15 | 7.16 | | | | | | | | |
| | W25SD006 | 1.14 | 0.10 | 0.09 | 4.04 | 0.00 | 0.00 | 1.96 | 7.33 | | | | | | | | |
| | W25SD007 | 1.21 | 0.11 | 0.09 | 5.04 | 0.00 | 0.00 | 2.09 | 8.54 | | | | | | | | |
| | W25SD008 | 1.32 | 0.12 | 0.09 | 6.04 | 0.00 | 0.00 | 2.28 | 9.85 | | | | | | | | |
| | W25SD009 | 2.91 | 0.27 | 1.01 | 6.49 | 0.00 | 0.00 | 5.03 | 15.71 | | | | | | | | |
| | W25XX005 | 0.40 | 0.04 | 1.36 | 0.16 | 0.00 | 0.00 | 0.70 | 2.66 | | | | | | | | |
| | W25XX006 | 0.56 | 0.05 | 1.36 | 0.16 | 0.00 | 0.00 | 0.97 | 3.10 | | | | | | | | |

## Table 2-2 . HOURLY RATE ELEMENTS

| REGION 7 | | AVERAGE OPERATING CONDITIONS | | | | | | | | SEVERE OPERATING CONDITIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAT | ID. NO. | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE | DEPR | FCCM | FUEL | FOG | TIRE WEAR | TIRE REPAIR | REPAIR | TOTAL RATE |
| ***W25*** | ***cont.*** | | | | | | | | | | | | | | | | |
| | W25XX007 | 0.75 | 0.07 | 2.18 | 0.25 | 0.00 | 0.00 | 1.29 | 4.54 | | | | | | | | |
| | W25XX008 | 0.78 | 0.07 | 3.00 | 0.35 | 0.00 | 0.00 | 1.35 | 5.55 | | | | | | | | |
| | W25XX009 | 1.56 | 0.14 | 2.18 | 0.25 | 0.00 | 0.00 | 2.70 | 6.83 | | | | | | | | |
| | W25XX010 | 2.39 | 0.22 | 6.54 | 0.76 | 0.00 | 0.00 | 4.13 | 14.04 | | | | | | | | |
| **W30** | | | | | | | | | | | | | | | | | |
| | W30SO001 | 3.59 | 0.87 | 1.50 | 0.18 | 0.36 | 0.06 | 3.35 | 9.91 | | | | | | | | |
| | W30SO002 | 4.31 | 1.04 | 1.50 | 0.18 | 0.36 | 0.06 | 4.02 | 11.47 | | | | | | | | |
| | W30SO003 | 4.70 | 1.13 | 1.50 | 0.18 | 0.36 | 0.06 | 4.38 | 12.31 | | | | | | | | |
| | W30SO004 | 2.38 | 0.56 | 0.00 | 0.01 | 0.00 | 0.00 | 1.84 | 4.79 | | | | | | | | |
| | W30SO005 | 2.66 | 0.63 | 0.00 | 0.01 | 0.00 | 0.00 | 2.06 | 5.36 | | | | | | | | |
| | W30SO006 | 3.07 | 0.72 | 0.00 | 0.01 | 0.00 | 0.00 | 2.38 | 6.18 | | | | | | | | |
| **W35** | | | | | | | | | | | | | | | | | |
| | W35LC010 | 0.08 | 0.01 | 0.44 | 0.21 | 0.00 | 0.00 | 0.07 | 0.81 | | | | | | | | |
| | W35LC011 | 0.42 | 0.05 | 0.79 | 0.38 | 0.00 | 0.00 | 0.33 | 1.97 | | | | | | | | |
| | W35LC012 | 0.54 | 0.07 | 1.02 | 0.49 | 0.00 | 0.00 | 0.43 | 2.55 | | | | | | | | |
| | W35LC013 | 0.58 | 0.07 | 1.19 | 0.58 | 0.00 | 0.00 | 0.46 | 2.88 | | | | | | | | |
| | W35LC018 | 0.12 | 0.02 | 0.15 | 0.07 | 0.00 | 0.00 | 0.09 | 0.45 | | | | | | | | |
| | W35LC020 | 0.53 | 0.07 | 0.76 | 0.37 | 0.00 | 0.00 | 0.41 | 2.14 | | | | | | | | |
| | W35XX020 | 0.23 | 0.04 | 2.51 | 0.29 | 0.00 | 0.00 | 0.29 | 3.36 | | | | | | | | |
| | W35XX021 | 0.60 | 0.11 | 3.88 | 0.45 | 0.03 | 0.01 | 0.75 | 5.83 | | | | | | | | |
| | W35XX022 | 0.61 | 0.11 | 4.11 | 0.48 | 0.03 | 0.01 | 0.78 | 6.13 | | | | | | | | |
| | W35XX023 | 1.08 | 0.20 | 10.27 | 1.19 | 0.03 | 0.01 | 1.36 | 14.14 | | | | | | | | |
| | W35XX024 | 1.60 | 0.29 | 5.33 | 0.62 | 0.03 | 0.01 | 2.02 | 9.90 | | | | | | | | |
| | W35XX025 | 1.53 | 0.28 | 4.66 | 0.54 | 0.03 | 0.01 | 1.93 | 8.98 | | | | | | | | |

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# CHAPTER 3.0 - ADJUSTMENTS TO HOURLY RATES

## SECTION I. GENERAL

### 3.1 Contents

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

### 3.2 Basis for Equipment Rates

The rates shown in tables 2-1 and 2-2 are based on the catalog list price of equipment manufactured in 2006 (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 Equipment Rate Adjustment Tables

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

### 3.4 Determination for Use of Equipment Rates in Tables 2-1 and 2-2

The predetermined equipment rates in tables 2-1 and 2-2 may be used when the contractor's actual cost data (cost or pricing data) is insufficient to calculate the rates. If the contractor's actual equipment is listed in tables 2-1 and 2-2, the equipment must be equivalent. However, if the contractor's actual equipment is not listed in tables 2-1 and 2-2, an equivalent piece of equipment may be chosen from the tables. To be considered equivalent, the contractor's equipment must be no more or less than 10 percent of the configuration (size, capacity, and horsepower) and value as compared

to the equipment in tables 2-1 and 2-2. In either case, if the equipment is not equivalent, the equipment rate must be calculated using the methodology in chapter 2.

## SECTION II. RATE ADJUSTMENTS

### 3.5 Rate Adjustments

The ownership and/or the operating portion of the hourly rates and standby hourly rates shall be adjusted whenever one or more of the following rate adjustment conditions exist (rate adjustments are explained in detail in the following paragraphs).

- Changes in operating conditions
- Changes in Cost of Money Rate
- Actual work hours (hrs) exceed 40 hr per week (wk)
- Changes in FUEL cost
- Adjustments to FOG cost
- Equipment of different age than table 2-1
- Rate adjustment for overage equipment
- 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 Changes in Operating Conditions

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

### 3.7 Change in Cost of Money Rate (CMR)

The Department of the Treasury adjusts the CMR (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:

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

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 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) | $40.00 |
| 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):

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

### 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:

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

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

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) | $40.00 |
| 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 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:

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

Example: Assume that table 2-1 includes a crane *(category C80, subcategory 0.02)* with the below hourly costs. Assume the fuel cost (diesel off-road) in appendix B is $2.50/gal and the current fuel cost has increased to $3.00/gal (increase of 20.00 percent). The total hourly rate for this piece of equipment can be determined as follows:

Assumptions for Fuel Cost (based on $2.50/gal from appendix B) per hour:

| | |
|---|---|
| DEPR | $30.00 |
| FCCM | $10.00 |
| FOG, TIRE WEAR, TIRE REPAIR, and REPAIR) | $30.00 |
| FUEL | $10.00 |
| 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 + [($3.00/gal) x $10.00/hr] =$82.00/hr
($2.50/gal)

### 3.10 Adjustments to Fuel, 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 2006) and does not exceed the years of economic life, adjust the hourly rate as shown in the next example. The years of economic life is determined by dividing hours of LIFE (from appendix D) by Working Hours Per Year (WHPY) (from appendix B).

Example: Assume that table 2-1 includes a crane *(category C80, subcategory 0.02)* manufactured in 2006 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 2002, the total hourly rate is determined as follows:

Table 2-1 Rate and Adjustment Calculation:

| | |
|---|---|
| Total hourly rate | = $65.00/hr |
| Ownership rate 2006 (DEPR + FCCM) | =-($30.00)/hr |
| Ownership rate 2002 adjusted for age (Ownership rate = $30) x (0.83 the age adjustment factor from table 3-1, for category C80, subcategory 0.02, and for the year 2002.) | = +$24.90/hr |
| Total hourly rate for equipment manufactured in 2002 | = $59.90/hr |

b. When the unit of equipment is older than the age of equipment listed in table 2-1 (purchased new in 2006) 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 2006), use the adjustment factor in table 3-1 for the year of manufacture. If the equipment is newer than the most recent year shown in table 3-1, use the adjustment factor in the column of the most recent year. Once the adjustment factor is determined from table 3-1, complete the adjustment calculation as shown in the example above. The step-by-step calculation method shown in figure 2-1 may also be used.

## 3.12 Rate Adjustment for Overage Equipment

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

a. The total hourly operating rate for overage equipment (no matter how old) shall be computed on the basis that the equipment is as old as possible "without" exceeding the hours of LIFE as shown in appendix D. Tables 3-1 and 3-2 show factors for the economic life for equipment based on the current pamphlet year (*e.g.*, manufactured in 2006). Select a comparable unit of equipment (horsepower, value, capacity, and size) shown in table 2-1, the total hourly rate can be computed as shown in the following example. If there is no comparable unit of equipment in table 2-1, follow the methodology presented in figure 3-1.

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

Example: Assume that table 2-1 includes a crane *(category C80, subcategory 0.02)* manufactured in 2006, 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 1992 (maximum life 2000), 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 2006 (DEPR + FCCM) | = | -($30.00)/hr |
| Ownership rate 1992 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 1992 | = | $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 2006), 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

Example: Assume that table 2-1 includes a crane (*category C80, subcategory 0.02*) manufactured in 2006 and has a standby rate of $20.00 per hour. If an equivalent crane owned by a contractor was manufactured in 1998, the hourly standby rate is determined as follows:

| | | |
|---|---|---|
| Hourly Standby Rate (table 2-1) | | =$20.00/hr |
| Age Adjustment Factor (table 3-2) for category C80, subcategory 0.02, and for 1998 (actual year of manufacture) | = | 0.78 |

Adjustment Calculation:

| | |
|---|---|
| Hourly Standby Rate Adjusted for Actual Age | =$20.00/hr |
| (Hourly Standby Rate) x 0.78 (Age Adjustment Factor) | =$15.60/hr |

b. When the unit of equipment is newer than the equipment listed in table 2-1 (purchased new in 2006), use the adjustment factor in table 3-2 for the year

of manufacture. Once the adjustment factor is determined from table 3-2, complete the adjustment calculation as shown in the example above. The step-by-step calculation method shown in figure 3-2 may also be used.

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

## 3.14 Equipment Purchased Used

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

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

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

## 3.15 Rate Calculation Examples

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

**Table 3-1. Equipment Age Adjustment Factors**

for

Ownership Costs

The factors in this table are used when the age of a unit of equipment is other than the age of the equipment listed in table 2-1 (purchased new in 2006).

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

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

Refer to chapter 3, as follows:

**3-11. Equipment of Different Age than Table 2-1**

**3-12. Rate Adjustment for Overage Equipment**

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| A10 0.00 | AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | | | | | | | |
| A10 0.10 | SELF-PROPELLED | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| A10 0.20 | TOWED & TAILGATE | 1.13 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| A15 0.00 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | | | | | | | | |
| A15 0.10 | ROTARY SCREW | 1.20 | 1.12 | 1.05 | 1.00 | 0.96 | 0.92 | 0.91 | | | | | | | | | | | |
| A15 0.20 | SHOP TYPE | 1.19 | 1.12 | 1.04 | 1.00 | 0.96 | 0.92 | 0.92 | 0.91 | | | | | | | | | | |
| A20 0.00 | AIR HOSE, TOOLS & EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A20 0.10 | AIR DRILL HOSE | 1.17 | 1.11 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| A20 0.20 | SANDBLAST HOSE | 1.17 | 1.11 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| A20 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 1.18 | 1.11 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| A25 0.00 | ASPHALT PAVING DISTRIBUTORS | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| A30 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A30 0.10 | SELF PROPELLED | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| A30 0.20 | TOWED | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | | | | | | | | | | | |
| A30 0.30 | SLURRY SEAL PAVERS (Cold mix) | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | 0.90 | | | | | | | | | | |
| A30 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | | | | | | | | | | | |
| A35 0.00 | ASPHALT PAVING KETTLES | 1.13 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| A40 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 1.13 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| A45 0.00 | ASPHALT RECYCLERS & SEALERS | 1.13 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| B10 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | | | | | | | |
| B10 0.10 | ASPHALT | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B10 0.20 | CONCRETE | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| B10 | 0.30 | PUGMILL | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | | | | | | | | | | | |
| B15 | 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B20 | 0.00 | BRUSH CHIPPERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B25 | 0.00 | BUCKETS, CLAMSHELL | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | | | | | | | | | | | | | |
| B30 | 0.00 | BUCKETS, CONCRETE | | | | | | | | | | | | | | | | | | |
| B30 | 0.10 | GENERAL PURPOSE, MANUAL TRIP | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B30 | 0.20 | LAYDOWN | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B30 | 0.30 | LOWBOY | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B30 | 0.40 | LOW SLUMP | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | | | | | | | | | | | | | |
| B35 | 0.00 | BUCKETS, DRAGLINE | | | | | | | | | | | | | | | | | | |
| B35 | 0.10 | LIGHT WEIGHT | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | | | | | | | | | | | | | |
| B35 | 0.20 | MEDIUM WEIGHT | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | | | | | | | | | | | | |
| B35 | 0.30 | HEAVY WEIGHT | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | | | | | | | | | | | |
| C05 | 0.00 | CHAIN SAWS | 1.11 | 1.06 | | 1.00 | | | | | | | | | | | | | | |
| C10 | 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | | | | | | |
| C10 | 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 1.11 | 1.06 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C10 | 0.20 | ROLLERS, VIBRATORY | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C15 | 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | | | | | | | |
| C15 | 0.10 | WALK BEHIND | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C15 | 0.20 | TRUCK/TRAILER MOUNTED | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| C20 | 0.00 | CONCRETE BUGGIES | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C25 | 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| C25 0.10 | FINISHERS/TROWELS | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C25 0.20 | VIBRATORY SCREED | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C25 0.25 | VIBRATORY LASER SCREED | 1.14 | 1.08 | 1.03 | 1.00 | 0.94 | | | | | | | | | | | | | |
| C25 0.30 | MATERIAL/TOPPING SPREADERS | 1.14 | 1.08 | 1.03 | 1.00 | 0.94 | | | | | | | | | | | | | |
| C30 0.00 | CONCRETE GRINDERS | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C35 0.00 | CONCRETE GUNITERS / SHOTCRETERS | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| C40 0.00 | CONCRETE MIXING UNITS | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C45 0.00 | CONCRETE PAVING MACHINES | 1.13 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C55 0.00 | CONCRETE PUMPS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| C60 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | 1.11 | 1.06 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| C65 0.00 | CONCRETE VIBRATORS | 1.19 | 1.11 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| C70 0.00 | CRANES, GANTRY & STRADDLE | | | | | | | | | | | | | | | | | | |
| C75 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.77 | | | | | | | | | |
| C80 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C80 0.01 | UNDER 26 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.77 | | | | | | | | | |
| C80 0.02 | 26 TON THRU 65 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.78 | 0.79 | | | | | | | | |
| C80 0.03 | 66 TON THRU 125 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.77 | | | | | | |
| C80 0.04 | OVER 125 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | | | | | |
| C85 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| C85 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.76 | | | | | | | | | |
| C85 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | | | | | | | | |
| C85 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | 0.75 | | | | | |
| C85 0.21 | LIFTING, 0 THRU 25 TON | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | | | | | | | | |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | | | | | | |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | | | | | |
| C85 0.24 | LIFTING, OVER 150 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | | | | |
| C90 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C90 0.01 | UNDER 26 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.77 | | | | | | | | | |
| C90 0.02 | 26 TON THRU 65 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.78 | 0.79 | | | | | | | | |
| C90 0.03 | 66 TON THRU 125 TON | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | | | | | | |
| C90 0.04 | OVER 125 TON | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | 0.75 | | | | | |
| C95 0.00 | CRANES, TOWER | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | | | | | | |
| 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) | 1.23 | 1.17 | 1.09 | 1.00 | 0.91 | 0.83 | 0.77 | 0.75 | 0.68 | | | | | | | | | |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 1.24 | 1.18 | 1.09 | 1.00 | 0.91 | 0.83 | 0.76 | | | | | | | | | | | |
| D15 0.00 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | 1.24 | 1.18 | 1.09 | 1.00 | 0.91 | 0.83 | 0.76 | | | | | | | | | | | |
| D20 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 1.24 | 1.18 | 1.09 | 1.00 | 0.91 | | | | | | | | | | | | | |
| D25 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 1.24 | 1.18 | 1.09 | 1.00 | 0.91 | 0.83 | 0.76 | | | | | | | | | | | |
| D30 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 1.24 | 1.18 | 1.09 | 1.00 | 0.91 | 0.83 | 0.76 | | | | | | | | | | | |
| 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) | 1.22 | 1.16 | 1.08 | 1.00 | 0.92 | 0.84 | 0.78 | 0.77 | 0.69 | | | | | | | | | |
| D35 0.12 | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.21 | 1.16 | 1.08 | 1.00 | 0.92 | 0.85 | 0.79 | 0.77 | 0.70 | 0.68 | 0.67 | 0.66 | | | | | | |
| D35 0.21 | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.22 | 1.16 | 1.08 | 1.00 | 0.92 | 0.84 | 0.78 | 0.77 | 0.69 | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| D35 0.22 | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.21 | 1.16 | 1.08 | 1.00 | 0.92 | 0.85 | 0.79 | 0.77 | 0.70 | 0.68 | 0.67 | 0.66 | | | | | | |
| F10 0.00 | FORK LIFTS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | | | | | | | | | | | |
| G10 0.00 | GENERATOR SETS | | | | | | | | | | | | | | | | | | |
| G10 0.10 | PORTABLE | 1.16 | 1.11 | 1.05 | 1.00 | 0.95 | | | | | | | | | | | | | |
| G10 0.20 | SKID MOUNTED | 1.16 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.88 | | | | | | | | | | | |
| G15 0.00 | GRADERS, MOTOR | 1.11 | 1.06 | 1.02 | 1.00 | 0.95 | 0.91 | 0.87 | 0.86 | 0.84 | | | | | | | | | |
| H10 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H13 0.00 | HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | | | | | | | |
| H13 0.11 | COMPACTORS (Compression force) 0 THRU 50 TONS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | | | | | | | | | | | |
| H13 0.12 | COMPACTORS (Compression force) OVER 50 TONS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | | | | | | | | | | |
| H13 0.21 | FILTER PRESSES, STATIONARY | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | | | | | | | | | | | |
| H13 0.22 | FILTER PRESSES, MOBILE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | | | | | | | | | | | |
| H13 0.30 | CENTRIFUGES | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H13 0.40 | SHREDDERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | | | | | | | | | | | |
| H13 0.51 | SOIL TREATMENT PLANT, MOBILE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | | | | | | | | | | | |
| H13 0.61 | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | | | | | | | | | | | |
| H13 0.71 | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H15 0.00 | HEATERS, SPACE | | | | | | | | | | | | | | | | | | |
| H20 0.00 | HOISTS & AIR WINCHES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | | | | | | | | | | | | |
| H25 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 1.07 | 1.03 | 1.02 | 1.00 | 0.93 | | | | | | | | | | | | | |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 1.07 | 1.03 | 1.02 | 1.00 | 0.93 | 0.87 | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 1.07 | 1.03 | 1.02 | 1.00 | 0.93 | 0.87 | 0.84 | 0.81 | | | | | | | | | | |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.87 | 0.85 | 0.82 | 0.75 | 0.77 | | | | | | | | |
| H25 0.14 | OVER 160,000 LBS | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.82 | 0.76 | 0.77 | 0.77 | 0.76 | | | | | | |
| H25 0.21 | ATTACHMENTS, MOBILE SHEARS | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H25 0.22 | ATTACHMENTS, MATERIAL HANDLING | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H25 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H25 0.24 | ATTACHMENTS, COMPACTORS | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| H30 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | | | | | | | |
| H30 0.01 | 0 THRU 1.0 CY | 1.07 | 1.03 | 1.02 | 1.00 | 0.93 | | | | | | | | | | | | | |
| H30 0.02 | OVER 1.0 CY | 1.07 | 1.03 | 1.02 | 1.00 | 0.93 | 0.87 | 0.84 | | | | | | | | | | | |
| H35 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.76 | | | | | | | | | |
| H35 0.12 | DIESEL, OVER 5.0 CY | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | | | | | | | | |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 1.06 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | | | | | | |
| L10 0.00 | LAND CLEARING EQUIPMENT | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | | | | | | | | | | | |
| L15 0.00 | LANDSCAPING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| L20 0.00 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | |
| L20 0.10 | METALLIC VAPOR | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| L25 0.00 | LINE STRIPING EQUIPMENT | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | | | | | | | | | | | |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | | | | | | | | | | | |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| L40 0.11 | ARTICULATED, 0 THRU 225 HP | 1.14 | 1.07 | 1.02 | 1.00 | 0.95 | 0.89 | | | | | | | | | | | | |
| L40 0.12 | ARTICULATED, OVER 225 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | | | | | | | | | |
| L40 0.20 | SKID STEER | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | | | | | | | | | | | | | |
| L40 0.21 | SKID STEER ATTACHMENTS | 1.13 | 1.06 | 1.02 | 1.00 | | | | | | | | | | | | | | |
| L40 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 1.14 | 1.07 | 1.02 | 1.00 | 0.95 | 0.90 | 0.86 | | | | | | | | | | | |
| L40 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | | | | | | | | | | |
| L45 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | | | | | | | | | | | | | |
| L50 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 1.14 | 1.07 | 1.02 | 1.00 | 0.95 | 0.90 | 0.86 | | | | | | | | | | | |
| L55 0.00 | LOADER / BACKHOE, ATTACHMENTS | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| L60 0.00 | LOG SKIDDERS | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | | | | | | | | | | | |
| M10 0.00 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | | | | | | | | |
| M10 0.11 | AQUATIC MAINTENANCE | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.92 | 0.86 | | | | | | | | | | | |
| M10 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | 1.16 | 1.10 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| M10 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS,TRANSPORTABLE | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | | | | | | | | |
| M10 0.22 | HYDRAULIC CUTTERHEAD DREDGE,8" - 12",TRANSPORTABLE | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | | | | | | | | |
| M10 0.23 | HYDRAULIC AUGERHEAD DREDGE,12" OR LESS,TRANSPORTABLE | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | | | | | | | | |
| M10 0.24 | HYDRAULIC FLOATING PUMPS,12" OR LESS,TRANSPORTABLE | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | | | | | | | | | | | | | |
| M10 0.25 | HYDRUALIC DREDGE PUMPS,12" OR LESS,TRANSPORTABLE | 1.15 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| M10 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | 1.15 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| M10 0.31 | SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.77 | | | | | | |
| M10 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | | | | | | | | | | | |
| M10 0.33 | SMALL MECH DREDGES,HOE-MOUNTED DREDGING ATTACH | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.92 | 0.87 | 0.83 | 0.82 | 0.80 | 0.78 | 0.77 | 0.76 | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| M10 0.41 | WORK FLOATS (NON-DREDGING) | 1.14 | 1.09 | 1.05 | 1.00 | | | | | | | | | | | | | | |
| M10 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.79 | 0.79 | 0.77 | 0.75 | 0.71 | 0.70 | 0.69 | 0.66 |
| M10 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | 1.12 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.85 | 0.84 | 0.82 | 0.80 | 0.80 | 0.79 | 0.76 | 0.73 | 0.72 | 0.71 | 0.68 |
| M10 0.46 | DUMP SCOW (NON-DREDGING) | 1.12 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.85 | 0.84 | 0.82 | 0.80 | 0.80 | 0.79 | 0.76 | 0.73 | 0.72 | 0.71 | 0.68 |
| M10 0.47 | DRILL BARGE (NON-DREDGING) | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.80 | 0.79 | 0.78 | 0.75 | 0.72 | 0.71 | 0.70 | 0.67 |
| M10 0.48 | ALL OTHER BARGES (NON-DREDGING) | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.80 | 0.79 | 0.78 | 0.75 | 0.72 | 0.71 | 0.70 | 0.67 |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.92 | 0.87 | 0.83 | 0.81 | 0.79 | | | | | | | | |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | 0.79 | 0.78 | | | | | | |
| M10 0.54 | TUGS, 501 THRU 1,000 HP | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.80 | 0.79 | 0.78 | 0.75 | 0.72 | 0.70 | 0.69 | 0.66 |
| M10 0.55 | TUGS, 1,000 THRU 2,000 HP | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.80 | 0.79 | 0.78 | 0.75 | 0.72 | 0.71 | 0.70 | 0.67 |
| P10 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | 1.16 | 1.09 | 1.04 | 1.00 | | | | | | | | | | | | | | |
| P20 0.00 | PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | | | | | | | | |
| P20 0.10 | DIESEL | 1.14 | 1.08 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| P20 0.20 | PNUEMATIC (STEAM/AIR) | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| P25 0.00 | PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | |
| P25 0.10 | DIESEL | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| P25 0.20 | PNUEMATIC (STEAM/AIR) | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| P30 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| P35 0.00 | PIPELAYERS | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | | | | | | | | | |
| P40 0.00 | PLATFORMS & MAN-LIFTS | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | | | | | | | | | | | | | |
| P45 0.00 | PUMPS, GROUT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P50 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| P50 0.11 | ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P50 0.12 | ELECTRIC DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P50 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P50 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P50 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 1.11 | 1.06 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| P55 0.00 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | | | | | | |
| P55 0.01 | ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P55 0.02 | ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P60 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | | | | | | | | |
| P60 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P60 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P60 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P60 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P65 0.00 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | | | | | | |
| P65 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P65 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P65 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P65 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P70 0.00 | PUMPS, WATER (For core drills) | | | | | | | | | | | | | | | | | | |
| P70 0.01 | ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| P70 0.02 | ELECTRIC DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| R10 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| R15 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | 1.18 | 1.12 | 1.06 | 1.00 | 0.95 | 0.90 | 0.85 | | | | | | | | | | | |
| R20 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | 1.18 | 1.12 | 1.06 | 1.00 | 0.95 | 0.90 | 0.85 | | | | | | | | | | | |
| R30 0.00 | ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | | | | | | | |
| R30 0.01 | PNEUMATIC | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | | | | | | | | | | | | | |
| R30 0.02 | SMOOTH DRUM | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | | | | | | | | | | | |
| R30 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 1.18 | 1.12 | 1.06 | 1.00 | 0.95 | 0.90 | 0.85 | 0.83 | | | | | | | | | | |
| R40 0.00 | ROLLERS, VIBRATORY, TOWED | 1.18 | 1.12 | 1.06 | 1.00 | 0.94 | | | | | | | | | | | | | |
| R45 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | 1.18 | 1.12 | 1.06 | 1.00 | 0.94 | | | | | | | | | | | | | |
| R50 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | 1.20 | 1.13 | 1.06 | 1.00 | 0.94 | | | | | | | | | | | | | |
| R55 0.00 | ROOFING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| S10 0.00 | SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | |
| S10 0.01 | 0 THRU 200 HP | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | | | | | | | | | | | |
| S10 0.02 | OVER 200 HP | 1.12 | 1.06 | 1.02 | 1.00 | 0.95 | 0.91 | 0.87 | 0.86 | | | | | | | | | | |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.85 | 0.85 | | | | | | | | |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.85 | 0.85 | | | | | | | | |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | 0.86 | | | | | | | | | | |
| S30 0.00 | SCREENING & CRUSHING PLANTS | | | | | | | | | | | | | | | | | | |
| S30 0.10 | CONVEYORS | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |
| S30 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.80 | 0.78 | 0.76 | 0.75 | | |
| S30 0.21 | CRUSHERS - CONE | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.80 | 0.78 | 0.76 | 0.75 | | |
| S30 0.22 | CRUSHERS - JAW | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.80 | 0.78 | 0.76 | 0.75 | | |
| S30 0.30 | SCREENING PLANT | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.87 | | | | | | | | | | | |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | | | | | | | | | | | |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 1.14 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | | | | | | | | | | | |
| T15 | 0.02 | 226 HP THRU 425 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | 0.90 | 0.87 | 0.85 | | | | | | | | | | |
| T15 | 0.03 | OVER 425 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.85 | | | | | | | | |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | | | | | | | | | |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | | | | | | | | | | | |
| T25 | 0.20 | WHEEL | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 1.18 | 1.12 | 1.06 | 1.00 | 0.94 | | | | | | | | | | | | | |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 1.18 | 1.12 | 1.06 | 1.00 | 0.94 | | | | | | | | | | | | | |
| T40 | 0.00 | TRUCK OPTIONS | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T40 | 0.20 | DUMP BODY, REAR | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T40 | 0.30 | FLATBEDS, WITH SIDES | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T40 | 0.50 | TRANSIT MIXERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T40 | 0.60 | WATER TANKS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T40 | 0.70 | ALL OTHER OPTIONS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| T45 0.00 | TRUCK TRAILERS | | | | | | | | | | | | | | | | | | |
| T45 0.10 | BOTTOM DUMP | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |
| T45 0.20 | END DUMP | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |
| T45 0.30 | PUP TRAILER | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T45 0.41 | LOWBOY, RIGID NECK, DROP DECK | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |
| T45 0.50 | FLATBED TRAILER | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |
| T45 0.60 | MISCELLANEOUS / UTILITY | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | | | | | | |
| T45 0.70 | WATER TANKER TRAILER | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | | | | | | | | | | | |
| T45 0.80 | DECONTAMINATION FACILITY | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T45 0.90 | TANK TRAILERS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | | | | | | | | | | | |
| T50 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | | | | | | | |
| T50 0.01 | 0 THRU 10,000 GVW | 1.13 | 1.08 | 1.04 | 1.00 | 0.95 | | | | | | | | | | | | | |
| T50 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 1.13 | 1.08 | 1.04 | 1.00 | 0.95 | 0.91 | 0.88 | | | | | | | | | | | |
| T50 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 1.13 | 1.08 | 1.04 | 1.00 | 0.95 | 0.91 | 0.88 | 0.87 | | | | | | | | | | |
| T55 0.00 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | | | | | | | | |
| T55 0.10 | RIGID FRAME | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.82 | 0.81 | 0.80 | 0.78 | 0.77 | 0.76 | 0.75 | | | | | |
| T55 0.20 | ARTICULATED FRAME | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | | | | | | | | | | |
| T56 0.00 | TRUCKS,OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | | | | | | | | | | | | | | | | | | |
| T56 0.10 | PRIME MOVER TRACTORS | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.82 | 0.81 | 0.80 | 0.78 | 0.77 | 0.76 | 0.75 | | | | | |
| T56 0.20 | WAGONS, BOTTOM DUMP | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.81 | 0.80 | 0.79 | 0.77 | | | | | | | | |
| T56 0.30 | WAGONS, REAR DUMP | 1.10 | 1.07 | 1.03 | 1.00 | 0.94 | 0.87 | 0.81 | 0.80 | | | | | | | | | | |
| T57 0.00 | TRUCKS, VACUUM | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| T60 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 1.10 | 1.07 | 1.03 | 1.00 | 0.94 | 0.87 | 0.81 | 0.80 | | | | | | | | | | |
| T65 0.00 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | | | | | | |
| T65 0.10 | DRIFTING & TUNNELING DRILLS | 1.21 | 1.15 | 1.08 | 1.00 | 0.92 | 0.85 | 0.79 | 0.78 | 0.71 | | | | | | | | | |
| T65 0.20 | TUNNEL BORING MACHINES | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | | | | | | |
| T65 0.30 | PRODUCTION DRILLING RIGS | 1.21 | 1.15 | 1.08 | 1.00 | 0.92 | 0.85 | 0.79 | 0.78 | | | | | | | | | | |
| T65 0.40 | ROADHEADERS & CONTINUOUS MINERS | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | | | | | | | | |
| T65 0.50 | ROCK BOLTING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | | | | | | | | | | | |
| T65 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | | | | | | | | | | |
| T65 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | | | | | | | | | |
| T65 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | | | | | | | | | | | |
| T65 0.70 | LOCOMOTIVES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | | | | | | | | | | |
| T65 0.90 | OTHER TUNNELING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | | | | | | | | | | | |
| W10 0.00 | WAGONS, BOTTOM DUMP | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | | | | | | | | | | |
| W15 0.00 | WAGONS, REAR DUMP | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | | | | | | | | | | |
| W25 0.00 | WATER & CO2 BLASTERS | | | | | | | | | | | | | | | | | | |
| W25 0.10 | LOW PRESSURE, (< 5,000 PSI) | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| W25 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| W25 0.30 | STEAM CLEANERS | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| W25 0.40 | CO2 BLASTERS | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |
| W25 0.50 | WET ABRASIVE BLASTING SYSTEM (TORBO) | 1.15 | 1.08 | 1.03 | 1.00 | 0.94 | 0.86 | 0.82 | | | | | | | | | | | |
| W30 0.00 | WATER TANKS | | | | | | | | | | | | | | | | | | |
| W30 0.10 | PORTABLE WITH WHEELS | 1.10 | 1.07 | 1.03 | 1.00 | 0.94 | 0.87 | 0.81 | 0.80 | | | | | | | | | | |

## Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| W30 0.20 | SKID MOUNTED | 1.10 | 1.07 | 1.03 | 1.00 | 0.94 | 0.87 | 0.81 | 0.80 | | | | | | | | | | |
| W35 0.00 | WELDERS | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | | | | | | | | | | | | | |
| W35 0.20 | ELECTRIC DRIVEN | 1.13 | 1.07 | 1.03 | 1.00 | | | | | | | | | | | | | | |

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**TOTAL HOURLY RATE CALCULATION FOR OVERAGE EQUIPMENT**

**EXAMPLE**

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

1. The unit of equipment is not listed in table 2-1.

2. The equipment is contractor owned.

3. Data for the unit in question:

   a. Caterpillar front-end wheel loader
   b. Model 950-F11, 4WD, 3.25 CY capacity
   c. Serial number indicates year of manufacture = 1997
   d. Actual purchase price in 1997 = $195,628
      (includes all regional discounts, sales tax and freight)
   e. Horsepower is 170 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 (2009) = 4 tires x $2,053 /tire = $8,212
   g. Weight = 351 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 = 2004

5. Adjust the actual purchase price:

   a. Economic Indexes from appendix E (wheel loaders EK = 45)
      (1) For 2004 (first year of economic life), the economic index = 5857
      (2) For 1997 (year of manufacture), the economic index = 5303

   b. Purchase price [total equipment value (TEV)] indexed to 2004 (first year of economic life): (Purchase price includes discount, sales tax, and freight for this region).

      (5857 / 5303) x $195,628 = $216,065 (= 2004 purchase price)

6. Hourly rate is computed as follows in accordance with figure 2-1, Equipment Rate Computation Worksheet.

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

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

**USE THIS WORKSHEET TO COMPUTE 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 07**

**1. EQUIPMENT INFORMATION AND EXPENSE FACTORS**

**ID No:** _____

a. Equipment Specification Data:

| | | | | | |
|---|---|---|---|---|---|
| (1) | Equipment Description: | Loader, Front-end, Wheel, 4WD, 4 CY capacity | | | |
| (2) | Model and Series: | Caterpillar Model 950-F11 | | | |
| (3) | Present Year or Year of Use: | | | | 2009 |
| (4) | Year Manufactured: | | 1997 | indexed to | 2004 |
| (5) | Horsepower - Equipment: | | | | 170 |
| (6) | Horsepower - Carrier: | | | | 0 |
| (7) | Fuel - **Equipment**: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel | **Enter number from 0 to 6 ==>** | 3 | | **D-off** |
| | - **Carrier**: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel | **Enter number from 0 to 6 ==>** | 0 | | **None** |
| (8) | Shipping Weight (cwt): | | | | 351 cwt |

(9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F)

| | Size/Ply | App F Code | No. | Unit Price | Cost |
|---|---|---|---|---|---|
| (a) Front (FT): | | | 0 | $0 | $0 |
| (b) Drive (DT): | 23.5X25/16Ply | ANNB5 | 4 | $2,053 | $8,212 |
| (c) Trailing (TT): | | | 0 | $0 | $0 |
| (d) Total Tire Cost: | | | | | $8,212 |

(10) List Price + Accessories:
[at Year (yr) of Manufacture] $0 OR actual purchase price: $216,065

**USE APPENDIX D TO COMPLETE THE FOLLOWING DATA**:

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

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

**Region 07**

**2. EQUIPMENT VALUE**

a. List Price + Accessories: *[at Year (yr) of Manufacture]* = $0

(1) Discount:

| (List Price {1.a.(10)} | + Accessories) | x | Discount Code {1.c.(3)} | | |
|---|---|---|---|---|---|
| ($0 | + $0.00) | x | 0.075 | = | $0 |

(2) Subtotal {2.a}. - {2.a.(1)} Subtotal = $0

(3) Sales or Import Tax:

| Subtotal {2.a.(2)} | x | Tax Rate {Appendix B} | | |
|---|---|---|---|---|
| $0 | x | 9.00% | = | $0 |

(4) Total Discounted Price: Subtotal: {2.a.(2)} + {2.a.(3)} Subtotal = $0

b. Freight:

| Shipping Weight {1.a.(8)} | x | Freight Rate per cwt {Appendix B} | | |
|---|---|---|---|---|
| 0,000 cwt | x | $0.00 /cwt | = | $0 |

c. **TOTAL EQUIPMENT VALUE (TEV):** **TOTAL[2.]: = $216,065**
{2.a.(4)} + {2.b} OR actual purchase price {1a.(10)}
(*See chapter 3 for used and overage equipment rate adjustments.)*

**3. DEPRECIATION PERIOD (N)**

a.

| LIFE {1.c.(4)} | / | Working Hours Per Year (WHPY) {Appendix B} | | |
|---|---|---|---|---|
| | | | = | N |
| 9,250 hr | / | 1,630 hr/yr | = | 5.67 yrs (N) |

**4. OWNERSHIP COST**

a. Depreciation
(1) Tire Cost Index (TCI):

| Tire Index, Year of Manufacture, {1.a.(4)} Appendix E, EK=100 | / | Tire Index, Present Year or Year of Use, {1.a.(3)} Appendix E, EK=100 | | |
|---|---|---|---|---|
| | | | = | TCI |
| 2614 | / | 3382 | = | 0.773 |

(2)

| [TEV {2.c.} | x | (1.0-SLV) {1.c.(5)} | - | (TCI {4.a.(1)} | x | Tire Cost)] {1.a.(9)(d)} | / | LIFE {1.c.(4)} | | |
|---|---|---|---|---|---|---|---|---|---|---|
| [$216,065 | x | (1.0-0.25) | - | ( 0.773 | x | $8,212 )] | / | 9,250 hr | = | $16.83 /hr |

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

**Region 07**

**4. OWNERSHIP COST (Continued)**

b. Facilities Capital Cost of Money (FCCM):

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| (1) | [( N - 1.0 ) | x | (1.0 + SLV) | + | 2.0] | / | (2.0 x N) | = | Avg Value Factor |
| | {3.a.} | | {1.c.5.} | | | | {3.a.} | | {AVF} |
| | [(5.67 yr - 1.0) | x | (1.0 + 0.25) | + | 2.0] | / | (2.0 x 5.67 yr) | = | 0.691 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| (2) | TEV | x | AVF | x | Adjusted Cost-of-Money | / | WHPY | | |
| | {2.c.} | | {4.b.(1)} | | {Appendix B} | | {Appendix B} | | |
| | $216,065 | x | 0.691 | x | 3.90% | / | 1,630 hr/yr | = | $3.57 /hr |

c. **TOTAL HOURLY OWNERSHIP COST:** **TOTAL [4.]: = $20.40 /hr**
{4.a.(2)} + {4.b.(2)}

**5. OPERATING COST**

a. Fuel Costs:

(1) Equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Fuel Factor | x | Horsepower (hp) | x | Fuel Cost per Gallon (gal) | | |
| {1.c.(6)} | | {1.a.(5)} | | {Appendix B} | | |
| 0.031 | x | 170 hp | x | $2.92 /gal | = | $15.39 /hr |

(2) Carrier:

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

(3) Total Hourly Fuel Cost: **Total [5.a.] = $15.39 /hr**
{(5.a (1)} + {5.a (2)}

b. FOG Cost:

(1) Equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| FOG Factor | x | Equipment Hourly Fuel Cost | x | Labor Adjustment Factor (LAF) | | |
| {1.c.(8)} | | {5.a.(1)} | | {Appendix B} | | |
| 0.111 | x | $15.39 /hr | x | $ 1.14 /hr | = | $1.95 /hr |

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

**Region 07**

**5. OPERATING COST (Continued)**

(2) Carrier:

| FOG Factor | x | Carrier Hourly Fuel Cost | x | LAF | |
|---|---|---|---|---|---|
| {1.c.(8)} | | {5.a.(2)} | | {Appendix B} | |
| 0.111 | x | $0.00 /hr | x | 1.14 | = $0.00 /hr |

(3) Total Hourly FOG Cost: **Total [5.b.] = $1.95 /hr**
{5.b.(1)} + {5.b.(2)}

c. Alternative Fuel/FOG Cost: **Total [5.c.] = $0.00 hr**
(See chapter 2, paragraph 2.24.d. for guidance on when to use.)

d. Repair Cost:

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

| Economic Index, Present Year or Year of Use,1.a.(3) | / | Economic Index, Year of Manufacture, 1.a.(4) | |
|---|---|---|---|
| Appendix E, EK={1.c.(1)} | | Appendix E, EK={1.c.(1)} | = EAF |
| 7047 | / | 5857 | = 1.203 |

*(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} | = RF |
| 0.70 | x | 1.203 | x | 1.14 | = 0.960 |

(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)} |
| [$216,065 | - | (0.773 | x | $8,212)] | x | 0.960 | / | 9,250 |

(4) Total Hourly Repair Cost: **Total [5.d.] = $21.77 /hr**

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

**Region 07**

**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.a.(9)(a)} | / | (1.8 x FT Wear Factor {1.c.(9)(a)} | x | Maximum Tire Life Hours) {Appendix F} | |
|---|---|---|---|---|---|
| (1.5 x $0) | / | (1.8 x 0.83 | x | 0 hr) | = $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)} | x | Maximum Tire Life Hours) {Appendix F} | |
|---|---|---|---|---|---|
| (1.5 x $8,212) | / | (1.8 x 0.54 | x | 3200 hr) | = $3.96 /hr |

(3) Trailing Tires (TT):

| (1.5 x TT Cost) {1.a.(9)(c)} | / | (1.8 x TT Wear Factor {1.c.(9)(c)} | x | Maximum Tire Life Hours) {Appendix F} | |
|---|---|---|---|---|---|
| (1.5 x $0) | / | (1.8 x 0.92 | x | 0 hr) | = $0.00 /hr |

(4) Total Tire Wear Cost: **Total [5.e.] = $3.96 /hr**
Sum {5.e.(1)} through {5.e.(3)}

f. Tire Repair Cost:

| Total Tire Wear Cost per Hour {5.e.(4)} | x | (0.15 x LAF) {Appendix B} | | |
|---|---|---|---|---|
| $3.96 /hr | x | (0.15 x 1.14) | **Total [5.f.] =** | **$0.68 /hr** |

**g. TOTAL HOURLY OPERATING COST:** **Total [5.] = $43.75 /hr**
Sum {5.a.} through {5.f.}

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

**Region 07**

## 6. HOURLY RATES

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

| Ownership Cost {4.c.} | + | Operating Cost {5.g.} | | |
|---|---|---|---|---|
| $20.40 /hr | + | $43.75 /hr | = | **$64.15 /hr** |

b. Other Work Shifts Hourly Rate:

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

| Depreciation {4.a.(2)} | + | (FCCM {4.b.(2)} | x | 40 hr/wk | / | Work hr/wk) example:60 hr/wk | + | Operating Cost {5.g.} | | |
|---|---|---|---|---|---|---|---|---|---|---|
| $0.00 /hr | + | ($0.00 /hr | x | 40 hr/wk | / | 60 hr/wk) (example:60 hr/wk) | + | $0.00 /hr | = | **$0.00 /hr** |

c. Standby Hourly Rate:

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

| (Depreciation {4.a.(2)} | x 0.50) | + | FCCM {4.b.(2)} | | |
|---|---|---|---|---|---|
| ($0.00 /hr | x 0.50) | + | $0.00 /hr | = | **$0.00 /hr** |

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

***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**

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**Table 3-2. Equipment Age Adjustment Factors**

for

Standby costs

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

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

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

Refer to chapter 3, as follows:

**3-13. Rate Adjustments Overage Equipment Standby**

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| A10 | 0.00 | AGGREGATE / CHIP SPREADERS | | | | | | | | | | | | | | | | | | |
| A10 | 0.10 | SELF-PROPELLED | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.75 | 0.73 | 0.70 |
| A10 | 0.20 | TOWED & TAILGATE | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.74 | 0.73 | 0.70 |
| A15 | 0.00 | AIR COMPRESSORS, PORTABLE | | | | | | | | | | | | | | | | | | |
| A15 | 0.10 | ROTARY SCREW | 1.19 | 1.12 | 1.04 | 1.00 | 0.96 | 0.92 | 0.92 | 0.91 | 0.92 | 0.90 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.88 | 0.89 | 0.88 |
| A15 | 0.20 | SHOP TYPE | 1.18 | 1.11 | 1.04 | 1.00 | 0.96 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.89 | 0.89 | 0.89 |
| A20 | 0.00 | AIR HOSE, TOOLS & EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A20 | 0.10 | AIR DRILL HOSE | 1.17 | 1.11 | 1.04 | 1.00 | 0.96 | 0.93 | 0.92 | 0.92 | 0.93 | 0.91 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.90 | 0.90 | 0.89 |
| A20 | 0.20 | SANDBLAST HOSE | 1.17 | 1.11 | 1.04 | 1.00 | 0.96 | 0.93 | 0.92 | 0.92 | 0.93 | 0.91 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.90 | 0.90 | 0.89 |
| A20 | 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 1.18 | 1.11 | 1.04 | 1.00 | 0.96 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.89 | 0.90 | 0.89 |
| A25 | 0.00 | ASPHALT PAVING DISTRIBUTORS | 1.12 | 1.07 | 1.03 | 1.00 | 0.96 | 0.90 | 0.91 | 0.91 | 0.91 | 0.89 | 0.87 | 0.86 | 0.83 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 |
| A30 | 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | | | | | | | | | | | | | | | | | | |
| A30 | 0.10 | SELF PROPELLED | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.87 | 0.85 | 0.83 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 |
| A30 | 0.20 | TOWED | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.86 | 0.85 | 0.82 | 0.79 | 0.78 | 0.75 | 0.74 | 0.71 |
| A30 | 0.30 | SLURRY SEAL PAVERS (Cold mix) | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.87 | 0.85 | 0.83 | 0.80 | 0.78 | 0.76 | 0.74 | 0.71 |
| A30 | 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.86 | 0.85 | 0.82 | 0.79 | 0.78 | 0.75 | 0.74 | 0.71 |
| A35 | 0.00 | ASPHALT PAVING KETTLES | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.74 | 0.73 | 0.70 |
| A40 | 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.74 | 0.73 | 0.70 |
| A45 | 0.00 | ASPHALT RECYCLERS & SEALERS | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.84 | 0.81 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 |
| B10 | 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | | | | | | | | | | | | | | | | | | |
| B10 | 0.10 | ASPHALT | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.75 | 0.73 | 0.70 |
| B10 | 0.20 | CONCRETE | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.75 | 0.73 | 0.70 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| B10 | 0.30 | PUGMILL | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.89 | 0.86 | 0.85 | 0.82 | 0.79 | 0.78 | 0.75 | 0.74 | 0.71 |
| B15 | 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| B20 | 0.00 | BRUSH CHIPPERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| B25 | 0.00 | BUCKETS, CLAMSHELL | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.78 | 0.80 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.76 | 0.77 | 0.73 |
| B30 | 0.00 | BUCKETS, CONCRETE | | | | | | | | | | | | | | | | | | |
| B30 | 0.10 | GENERAL PURPOSE, MANUAL TRIP | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | 0.89 | 0.87 | 0.85 | 0.79 | 0.80 | 0.81 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.78 | 0.74 |
| B30 | 0.20 | LAYDOWN | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | 0.89 | 0.87 | 0.85 | 0.79 | 0.80 | 0.81 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.78 | 0.74 |
| B30 | 0.30 | LOWBOY | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | 0.89 | 0.87 | 0.85 | 0.79 | 0.80 | 0.81 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.78 | 0.74 |
| B30 | 0.40 | LOW SLUMP | 1.06 | 1.02 | 1.01 | 1.00 | 0.95 | 0.89 | 0.87 | 0.85 | 0.79 | 0.80 | 0.81 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.78 | 0.74 |
| B35 | 0.00 | BUCKETS, DRAGLINE | | | | | | | | | | | | | | | | | | |
| B35 | 0.10 | LIGHT WEIGHT | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.78 | 0.80 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.76 | 0.77 | 0.73 |
| B35 | 0.20 | MEDIUM WEIGHT | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.78 | 0.80 | 0.81 | 0.80 | 0.80 | 0.78 | 0.77 | 0.76 | 0.77 | 0.73 |
| B35 | 0.30 | HEAVY WEIGHT | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.79 | 0.80 | 0.81 | 0.80 | 0.80 | 0.78 | 0.77 | 0.76 | 0.77 | 0.73 |
| C05 | 0.00 | CHAIN SAWS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| C10 | 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | | | | | | | | | | | | | | | | | | |
| C10 | 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 1.11 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.74 | 0.72 |
| C10 | 0.20 | ROLLERS, VIBRATORY | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| C15 | 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | | | | | | | | | | | | | | | | | | |
| C15 | 0.10 | WALK BEHIND | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 |
| C15 | 0.20 | TRUCK/TRAILER MOUNTED | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| C20 | 0.00 | CONCRETE BUGGIES | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 |
| C25 | 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | | | | | | | | | | | | | | | | | | |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| C25 0.10 | FINISHERS/TROWELS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C25 0.20 | VIBRATORY SCREED | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C25 0.25 | VIBRATORY LASER SCREED | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.83 | 0.82 | 0.80 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.68 | 0.65 |
| C25 0.30 | MATERIAL/TOPPING SPREADERS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.83 | 0.82 | 0.80 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.68 | 0.65 |
| C30 0.00 | CONCRETE GRINDERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C35 0.00 | CONCRETE GUNITERS / SHOTCRETERS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.69 | 0.66 |
| C40 0.00 | CONCRETE MIXING UNITS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C45 0.00 | CONCRETE PAVING MACHINES | 1.13 | 1.08 | 1.03 | 1.00 | 0.95 | 0.89 | 0.90 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 | 0.82 | 0.79 | 0.77 | 0.74 | 0.73 | 0.70 |
| C55 0.00 | CONCRETE PUMPS | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| C60 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.89 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| C65 0.00 | CONCRETE VIBRATORS | 1.18 | 1.11 | 1.04 | 1.00 | 0.96 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.89 | 0.89 | 0.89 |
| C70 0.00 | CRANES, GANTRY & STRADDLE | | | | | | | | | | | | | | | | | | |
| C75 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.70 | 0.67 |
| C80 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C80 0.01 | UNDER 26 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.70 | 0.67 |
| C80 0.02 | 26 TON THRU 65 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.78 | 0.80 | 0.79 | 0.78 | 0.76 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C80 0.03 | 66 TON THRU 125 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.79 | 0.80 | 0.79 | 0.78 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C80 0.04 | OVER 125 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.79 | 0.80 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.71 | 0.67 |
| C85 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| C85 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.78 | 0.79 | 0.78 | 0.77 | 0.75 | 0.74 | 0.71 | 0.70 | 0.69 | 0.66 |
| C85 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.69 | 0.66 |
| C85 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.70 | 0.66 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| C85 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.80 | 0.79 | 0.78 | 0.76 | 0.75 | 0.72 | 0.71 | 0.70 | 0.67 |
| C85 0.21 | LIFTING, 0 THRU 25 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.69 | 0.66 |
| C85 0.22 | LIFTING, 26 TON THRU 50 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.70 | 0.66 |
| C85 0.23 | LIFTING, 51 TON THRU 150 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.79 | 0.80 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.71 | 0.67 |
| C85 0.24 | LIFTING, OVER 150 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.79 | 0.80 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.71 | 0.68 |
| C90 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | | | | | | | | | | | | | | | | | | |
| C90 0.01 | UNDER 26 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.70 | 0.67 |
| C90 0.02 | 26 TON THRU 65 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.78 | 0.80 | 0.79 | 0.78 | 0.76 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| C90 0.03 | 66 TON THRU 125 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.70 | 0.66 |
| C90 0.04 | OVER 125 TON | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.80 | 0.79 | 0.78 | 0.76 | 0.75 | 0.72 | 0.71 | 0.70 | 0.67 |
| C95 0.00 | CRANES, TOWER | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.70 | 0.66 |
| 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) | 1.21 | 1.16 | 1.08 | 1.00 | 0.92 | 0.85 | 0.79 | 0.77 | 0.70 | 0.68 | 0.67 | 0.66 | 0.64 | 0.63 | 0.60 | 0.59 | 0.57 | 0.56 |
| D10 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 1.22 | 1.16 | 1.08 | 1.00 | 0.92 | 0.84 | 0.78 | 0.76 | 0.69 | 0.67 | 0.66 | 0.64 | 0.63 | 0.62 | 0.59 | 0.57 | 0.56 | 0.54 |
| D15 0.00 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | 1.22 | 1.16 | 1.08 | 1.00 | 0.92 | 0.84 | 0.78 | 0.76 | 0.69 | 0.67 | 0.66 | 0.64 | 0.63 | 0.62 | 0.59 | 0.57 | 0.56 | 0.54 |
| D20 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 1.23 | 1.17 | 1.09 | 1.00 | 0.92 | 0.84 | 0.77 | 0.75 | 0.68 | 0.66 | 0.65 | 0.63 | 0.62 | 0.61 | 0.58 | 0.56 | 0.54 | 0.53 |
| D25 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 1.22 | 1.16 | 1.08 | 1.00 | 0.92 | 0.84 | 0.78 | 0.76 | 0.69 | 0.67 | 0.66 | 0.64 | 0.63 | 0.62 | 0.59 | 0.57 | 0.56 | 0.54 |
| D30 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 1.22 | 1.16 | 1.08 | 1.00 | 0.92 | 0.84 | 0.78 | 0.76 | 0.69 | 0.67 | 0.66 | 0.64 | 0.63 | 0.62 | 0.59 | 0.57 | 0.56 | 0.54 |
| 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) | 1.20 | 1.15 | 1.08 | 1.00 | 0.92 | 0.85 | 0.80 | 0.78 | 0.71 | 0.69 | 0.68 | 0.67 | 0.66 | 0.65 | 0.62 | 0.60 | 0.59 | 0.57 |
| D35 0.12 | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.20 | 1.15 | 1.07 | 1.00 | 0.93 | 0.86 | 0.80 | 0.78 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 | 0.63 | 0.61 | 0.60 | 0.58 |
| D35 0.21 | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 1.20 | 1.15 | 1.08 | 1.00 | 0.92 | 0.85 | 0.80 | 0.78 | 0.71 | 0.69 | 0.68 | 0.67 | 0.66 | 0.65 | 0.62 | 0.60 | 0.59 | 0.57 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| D35 | 0.22 | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 1.20 | 1.15 | 1.07 | 1.00 | 0.93 | 0.86 | 0.80 | 0.78 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 | 0.63 | 0.61 | 0.60 | 0.58 |
| F10 | 0.00 | FORK LIFTS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| G10 | 0.00 | GENERATOR SETS | | | | | | | | | | | | | | | | | | |
| G10 | 0.10 | PORTABLE | 1.15 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.88 | 0.88 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.84 | 0.83 | 0.81 |
| G10 | 0.20 | SKID MOUNTED | 1.15 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.88 | 0.88 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.84 | 0.83 | 0.81 |
| G15 | 0.00 | GRADERS, MOTOR | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.86 | 0.85 | 0.83 | 0.81 | 0.78 | 0.77 | 0.72 | 0.70 | 0.68 | 0.63 |
| H10 | 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| H13 | 0.00 | HAZARDOUS/TOXIC WASTE EQUIPMENT | | | | | | | | | | | | | | | | | | |
| H13 | 0.11 | COMPACTORS (Compression force) 0 THRU 50 TONS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| H13 | 0.12 | COMPACTORS (Compression force) OVER 50 TONS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| H13 | 0.21 | FILTER PRESSES, STATIONARY | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| H13 | 0.22 | FILTER PRESSES, MOBILE | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| H13 | 0.30 | CENTRIFUGES | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 |
| H13 | 0.40 | SHREDDERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| H13 | 0.51 | SOIL TREATMENT PLANT, MOBILE | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| H13 | 0.61 | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| H13 | 0.71 | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| H15 | 0.00 | HEATERS, SPACE | | | | | | | | | | | | | | | | | | |
| H20 | 0.00 | HOISTS & AIR WINCHES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| H25 | 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H25 | 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.87 | 0.85 | 0.82 | 0.75 | 0.77 | 0.76 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 | 0.66 | 0.62 |
| H25 | 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.87 | 0.85 | 0.82 | 0.76 | 0.77 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 | 0.66 | 0.62 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.83 | 0.76 | 0.78 | 0.77 | 0.76 | 0.74 | 0.72 | 0.70 | 0.68 | 0.67 | 0.64 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.77 | 0.78 | 0.78 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.68 | 0.65 |
| H25 0.14 | OVER 160,000 LBS | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.77 | 0.76 | 0.74 | 0.72 | 0.70 | 0.69 | 0.66 |
| H25 0.21 | ATTACHMENTS, MOBILE SHEARS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| H25 0.22 | ATTACHMENTS, MATERIAL HANDLING | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| H25 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| H25 0.24 | ATTACHMENTS, COMPACTORS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| H30 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | | | | | | | | | | | | | | | | | | |
| H30 0.01 | 0 THRU 1.0 CY | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.87 | 0.85 | 0.82 | 0.75 | 0.77 | 0.76 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 | 0.66 | 0.62 |
| H30 0.02 | OVER 1.0 CY | 1.07 | 1.03 | 1.01 | 1.00 | 0.94 | 0.88 | 0.85 | 0.82 | 0.76 | 0.77 | 0.77 | 0.76 | 0.74 | 0.72 | 0.69 | 0.68 | 0.67 | 0.63 |
| H35 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | |
| H35 0.11 | DIESEL, 0 CY THRU 5.0 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.88 | 0.86 | 0.83 | 0.78 | 0.79 | 0.78 | 0.77 | 0.75 | 0.74 | 0.71 | 0.70 | 0.69 | 0.66 |
| H35 0.12 | DIESEL, OVER 5.0 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.69 | 0.66 |
| H35 0.21 | ELECTRIC, OVER 2.5 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.70 | 0.66 |
| L10 0.00 | LAND CLEARING EQUIPMENT | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.86 | 0.85 | 0.84 | 0.81 | 0.79 | 0.78 | 0.75 | 0.72 | 0.69 | 0.65 |
| L15 0.00 | LANDSCAPING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| L20 0.00 | LIGHTING SETS, TRAILER MOUNTED | | | | | | | | | | | | | | | | | | |
| L20 0.10 | METALLIC VAPOR | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| L25 0.00 | LINE STRIPING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| L30 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| L35 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.86 | 0.85 | 0.84 | 0.81 | 0.79 | 0.78 | 0.75 | 0.72 | 0.69 | 0.65 |
| L40 0.00 | LOADERS, FRONT END, WHEEL TYPE | | | | | | | | | | | | | | | | | | |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | 0.90 | 0.87 | 0.85 | 0.85 | 0.84 | 0.83 | 0.81 | 0.79 | 0.78 | 0.75 | 0.73 | 0.71 | 0.69 |
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.86 | 0.86 | 0.85 | 0.83 | 0.81 | 0.80 | 0.77 | 0.75 | 0.74 | 0.71 |
| L40 | 0.20 | SKID STEER | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.82 | 0.80 | 0.79 | 0.76 | 0.74 | 0.72 | 0.70 |
| L40 | 0.21 | SKID STEER ATTACHMENTS | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | 0.90 | 0.87 | 0.85 | 0.85 | 0.84 | 0.83 | 0.81 | 0.79 | 0.78 | 0.75 | 0.73 | 0.71 | 0.69 |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.85 | 0.85 | 0.85 | 0.84 | 0.82 | 0.80 | 0.79 | 0.76 | 0.74 | 0.72 | 0.69 |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.81 | 0.79 | 0.78 | 0.75 | 0.72 | 0.68 | 0.64 |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.85 | 0.85 | 0.85 | 0.84 | 0.82 | 0.80 | 0.79 | 0.76 | 0.74 | 0.72 | 0.69 |
| L55 | 0.00 | LOADER / BACKHOE, ATTACHMENTS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| L60 | 0.00 | LOG SKIDDERS | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | 0.81 | 0.80 | 0.77 | 0.76 | 0.74 | 0.74 | 0.73 | 0.71 | 0.69 |
| M10 | 0.00 | MARINE EQUIPMENT (NON DREDGING) | | | | | | | | | | | | | | | | | | |
| M10 | 0.11 | AQUATIC MAINTENANCE | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.92 | 0.87 | 0.83 | 0.82 | 0.80 | 0.78 | 0.77 | 0.76 | 0.73 | 0.70 | 0.68 | 0.67 | 0.64 |
| M10 | 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | 1.15 | 1.10 | 1.05 | 1.00 | 0.96 | 0.92 | 0.86 | 0.81 | 0.80 | 0.78 | 0.76 | 0.76 | 0.74 | 0.71 | 0.67 | 0.66 | 0.64 | 0.61 |
| M10 | 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS,TRANSPORTABLE | 1.13 | 1.08 | 1.05 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.79 | 0.79 | 0.77 | 0.75 | 0.71 | 0.70 | 0.69 | 0.66 |
| M10 | 0.22 | HYDRAULIC CUTTERHEAD DREDGE,8" - 12",TRANSPORTABLE | 1.13 | 1.08 | 1.05 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.79 | 0.79 | 0.77 | 0.75 | 0.71 | 0.70 | 0.69 | 0.66 |
| M10 | 0.23 | HYDRAULIC AUGERHEAD DREDGE,12" OR LESS,TRANSPORTABLE | 1.13 | 1.08 | 1.05 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.79 | 0.79 | 0.77 | 0.75 | 0.71 | 0.70 | 0.69 | 0.66 |
| M10 | 0.24 | HYDRAULIC FLOATING PUMPS,12" OR LESS,TRANSPORTABLE | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | 0.79 | 0.78 | 0.77 | 0.74 | 0.71 | 0.69 | 0.68 | 0.65 |
| M10 | 0.25 | HYDRUALIC DREDGE PUMPS,12" OR LESS,TRANSPORTABLE | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.92 | 0.87 | 0.82 | 0.81 | 0.79 | 0.77 | 0.77 | 0.75 | 0.72 | 0.69 | 0.67 | 0.66 | 0.63 |
| M10 | 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.92 | 0.87 | 0.82 | 0.81 | 0.79 | 0.77 | 0.77 | 0.75 | 0.72 | 0.69 | 0.67 | 0.66 | 0.63 |
| M10 | 0.31 | SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.79 | 0.80 | 0.79 | 0.78 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| M10 | 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.86 | 0.84 | 0.78 | 0.79 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.69 | 0.66 |
| M10 | 0.33 | SMALL MECH DREDGES,HOE-MOUNTED DREDGING ATTACH | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.82 | 0.81 | 0.79 | 0.78 | 0.77 | 0.74 | 0.71 | 0.70 | 0.69 | 0.66 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| M10 | 0.41 | WORK FLOATS (NON-DREDGING) | 1.14 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | 0.79 | 0.78 | 0.77 | 0.74 | 0.70 | 0.69 | 0.68 | 0.65 |
| M10 | 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.80 | 0.79 | 0.78 | 0.75 | 0.72 | 0.71 | 0.70 | 0.67 |
| M10 | 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | 1.12 | 1.08 | 1.04 | 1.00 | 0.97 | 0.93 | 0.89 | 0.85 | 0.84 | 0.82 | 0.81 | 0.80 | 0.79 | 0.76 | 0.73 | 0.72 | 0.71 | 0.68 |
| M10 | 0.46 | DUMP SCOW (NON-DREDGING) | 1.12 | 1.08 | 1.04 | 1.00 | 0.97 | 0.93 | 0.89 | 0.85 | 0.84 | 0.82 | 0.81 | 0.80 | 0.79 | 0.76 | 0.73 | 0.72 | 0.71 | 0.68 |
| M10 | 0.47 | DRILL BARGE (NON-DREDGING) | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.85 | 0.83 | 0.82 | 0.80 | 0.80 | 0.78 | 0.76 | 0.73 | 0.71 | 0.70 | 0.67 |
| M10 | 0.48 | ALL OTHER BARGES (NON-DREDGING) | 1.13 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.85 | 0.83 | 0.82 | 0.80 | 0.80 | 0.78 | 0.76 | 0.73 | 0.71 | 0.70 | 0.67 |
| M10 | 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 1.13 | 1.09 | 1.05 | 1.00 | 0.96 | 0.93 | 0.87 | 0.83 | 0.82 | 0.80 | 0.79 | 0.78 | 0.77 | 0.74 | 0.71 | 0.69 | 0.68 | 0.65 |
| M10 | 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 1.13 | 1.08 | 1.05 | 1.00 | 0.96 | 0.93 | 0.88 | 0.84 | 0.83 | 0.81 | 0.79 | 0.79 | 0.78 | 0.75 | 0.72 | 0.70 | 0.69 | 0.66 |
| M10 | 0.54 | TUGS, 501 THRU 1,000 HP | 1.12 | 1.08 | 1.04 | 1.00 | 0.96 | 0.93 | 0.88 | 0.85 | 0.83 | 0.82 | 0.80 | 0.80 | 0.79 | 0.76 | 0.73 | 0.72 | 0.71 | 0.68 |
| M10 | 0.55 | TUGS, 1,000 THRU 2,000 HP | 1.12 | 1.08 | 1.04 | 1.00 | 0.97 | 0.93 | 0.89 | 0.85 | 0.84 | 0.82 | 0.81 | 0.80 | 0.79 | 0.76 | 0.73 | 0.72 | 0.71 | 0.68 |
| P10 | 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | 1.15 | 1.08 | 1.03 | 1.00 | 0.94 | 0.86 | 0.82 | 0.80 | 0.78 | 0.78 | 0.77 | 0.75 | 0.73 | 0.71 | 0.68 | 0.66 | 0.64 | 0.62 |
| P20 | 0.00 | PILE HAMMERS, DOUBLE ACTING | | | | | | | | | | | | | | | | | | |
| P20 | 0.10 | DIESEL | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.82 | 0.81 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.72 | 0.70 | 0.68 | 0.66 |
| P20 | 0.20 | PNUEMATIC (STEAM/AIR) | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| P25 | 0.00 | PILE HAMMERS, SINGLE ACTING | | | | | | | | | | | | | | | | | | |
| P25 | 0.10 | DIESEL | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| P25 | 0.20 | PNUEMATIC (STEAM/AIR) | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| P30 | 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| P35 | 0.00 | PIPELAYERS | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.86 | 0.86 | 0.84 | 0.82 | 0.80 | 0.79 | 0.76 | 0.73 | 0.70 | 0.66 |
| P40 | 0.00 | PLATFORMS & MAN-LIFTS | 1.06 | 1.02 | 1.01 | 1.00 | 0.94 | 0.89 | 0.87 | 0.84 | 0.78 | 0.80 | 0.79 | 0.78 | 0.76 | 0.75 | 0.73 | 0.71 | 0.70 | 0.67 |
| P45 | 0.00 | PUMPS, GROUT | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| P50 | 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | | | | | | | | | | | | | | | | | | |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| P50 | 0.11 | ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P50 | 0.12 | ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P50 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P50 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P50 | 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 1.11 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.85 | 0.83 | 0.83 | 0.82 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| P55 | 0.00 | PUMPS, WATER, SUBMERSIBLE | | | | | | | | | | | | | | | | | | |
| P55 | 0.01 | ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P55 | 0.02 | ELECTRIC DRIVE | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| P60 | 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | | | | | | | | | | | | | | | | | | |
| P60 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P60 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| P60 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P60 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| P65 | 0.00 | PUMPS, WATER, DIAPHRAGM | | | | | | | | | | | | | | | | | | |
| P65 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P65 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| P65 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| P65 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| P70 | 0.00 | PUMPS, WATER (For core drills) | | | | | | | | | | | | | | | | | | |
| P70 | 0.01 | ENGINE DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.76 | 0.75 | 0.73 | 0.70 | 0.69 | 0.67 |
| P70 | 0.02 | ELECTRIC DRIVE | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.76 | 0.75 | 0.73 | 0.70 | 0.69 | 0.67 |
| R10 | 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.81 | 0.79 | 0.78 | 0.75 | 0.72 | 0.68 | 0.64 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| R15 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.86 | 0.84 | 0.82 | 0.81 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.68 | 0.68 |
| R20 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.86 | 0.84 | 0.82 | 0.81 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.68 | 0.68 |
| R30 0.00 | ROLLERS, STATIC, SELF-PROPELLED | | | | | | | | | | | | | | | | | | |
| R30 0.01 | PNEUMATIC | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | 0.81 | 0.83 | 0.80 | 0.79 | 0.78 | 0.76 | 0.74 | 0.69 | 0.69 |
| R30 0.02 | SMOOTH DRUM | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | 0.81 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.70 | 0.69 |
| R30 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | 0.81 | 0.82 | 0.80 | 0.78 | 0.78 | 0.76 | 0.73 | 0.69 | 0.68 |
| R40 0.00 | ROLLERS, VIBRATORY, TOWED | 1.18 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.86 | 0.83 | 0.82 | 0.80 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.72 | 0.68 | 0.67 |
| R45 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | 1.18 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.86 | 0.83 | 0.82 | 0.80 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.72 | 0.68 | 0.67 |
| R50 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | 1.19 | 1.12 | 1.06 | 1.00 | 0.94 | 0.90 | 0.85 | 0.82 | 0.81 | 0.79 | 0.81 | 0.78 | 0.77 | 0.76 | 0.74 | 0.71 | 0.66 | 0.66 |
| R55 0.00 | ROOFING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| S10 0.00 | SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | |
| S10 0.01 | 0 THRU 200 HP | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.86 | 0.85 | 0.83 | 0.80 | 0.78 | 0.77 | 0.72 | 0.70 | 0.68 | 0.63 |
| S10 0.02 | OVER 200 HP | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.85 | 0.85 | 0.83 | 0.80 | 0.78 | 0.77 | 0.72 | 0.70 | 0.68 | 0.63 |
| S15 0.00 | SCRAPERS, CONVENTIONAL | 1.10 | 1.05 | 1.01 | 1.00 | 0.96 | 0.92 | 0.88 | 0.87 | 0.86 | 0.86 | 0.84 | 0.81 | 0.79 | 0.78 | 0.73 | 0.71 | 0.69 | 0.64 |
| S20 0.00 | SCRAPERS, TANDEM POWERED | 1.10 | 1.05 | 1.01 | 1.00 | 0.96 | 0.92 | 0.88 | 0.87 | 0.86 | 0.86 | 0.84 | 0.81 | 0.79 | 0.78 | 0.73 | 0.71 | 0.69 | 0.64 |
| S25 0.00 | SCRAPERS, TRACTOR DRAWN | 1.11 | 1.05 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.81 | 0.78 | 0.77 | 0.72 | 0.71 | 0.68 | 0.64 |
| S30 0.00 | SCREENING & CRUSHING PLANTS | | | | | | | | | | | | | | | | | | |
| S30 0.10 | CONVEYORS | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| S30 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 1.10 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.74 | 0.73 |
| S30 0.21 | CRUSHERS - CONE | 1.10 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.74 | 0.73 |
| S30 0.22 | CRUSHERS - JAW | 1.10 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.74 | 0.73 |
| S30 0.30 | SCREENING PLANT | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY | SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 1.11 | 1.06 | 1.01 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.86 | 0.85 | 0.83 | 0.80 | 0.78 | 0.77 | 0.72 | 0.70 | 0.68 | 0.63 |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.86 | 0.86 | 0.85 | 0.84 | 0.81 | 0.79 | 0.78 | 0.75 | 0.72 | 0.69 | 0.65 |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.95 | 0.90 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.79 | 0.77 | 0.76 | 0.73 | 0.70 | 0.66 | 0.61 |
| T15 | 0.02 | 226 HP THRU 425 HP | 1.13 | 1.06 | 1.02 | 1.00 | 0.96 | 0.90 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.81 | 0.79 | 0.78 | 0.75 | 0.72 | 0.68 | 0.64 |
| T15 | 0.03 | OVER 425 HP | 1.12 | 1.06 | 1.02 | 1.00 | 0.96 | 0.91 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.82 | 0.80 | 0.79 | 0.76 | 0.73 | 0.70 | 0.66 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 1.16 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.87 | 0.85 | 0.84 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.75 | 0.74 | 0.71 | 0.70 |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | 0.81 | 0.80 | 0.77 | 0.76 | 0.74 | 0.74 | 0.73 | 0.71 | 0.69 |
| T25 | 0.20 | WHEEL | 1.17 | 1.11 | 1.05 | 1.00 | 0.95 | 0.91 | 0.86 | 0.84 | 0.83 | 0.81 | 0.80 | 0.77 | 0.76 | 0.74 | 0.74 | 0.73 | 0.70 | 0.69 |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 1.18 | 1.12 | 1.05 | 1.00 | 0.95 | 0.90 | 0.82 | 0.83 | 0.82 | 0.80 | 0.79 | 0.76 | 0.72 | 0.71 | 0.70 | 0.67 | 0.63 | 0.59 |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 1.18 | 1.12 | 1.05 | 1.00 | 0.95 | 0.90 | 0.82 | 0.83 | 0.82 | 0.80 | 0.79 | 0.76 | 0.72 | 0.71 | 0.70 | 0.67 | 0.63 | 0.59 |
| T40 | 0.00 | TRUCK OPTIONS | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| T40 | 0.20 | DUMP BODY, REAR | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T40 | 0.30 | FLATBEDS, WITH SIDES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |
| T40 | 0.50 | TRANSIT MIXERS | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| T40 | 0.60 | WATER TANKS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.76 | 0.75 | 0.73 | 0.70 | 0.69 | 0.67 |
| T40 | 0.70 | ALL OTHER OPTIONS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.68 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| T45 0.00 | TRUCK TRAILERS | | | | | | | | | | | | | | | | | | |
| T45 0.10 | BOTTOM DUMP | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T45 0.20 | END DUMP | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T45 0.30 | PUP TRAILER | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T45 0.41 | LOWBOY, RIGID NECK, DROP DECK | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T45 0.50 | FLATBED TRAILER | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T45 0.60 | MISCELLANEOUS / UTILITY | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T45 0.70 | WATER TANKER TRAILER | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| T45 0.80 | DECONTAMINATION FACILITY | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.76 | 0.75 | 0.73 | 0.70 | 0.69 | 0.67 |
| T45 0.90 | TANK TRAILERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| T50 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | | | | | | | | | | | | | | | | | | |
| T50 0.01 | 0 THRU 10,000 GVW | 1.13 | 1.07 | 1.04 | 1.00 | 0.96 | 0.91 | 0.89 | 0.87 | 0.85 | 0.85 | 0.87 | 0.85 | 0.86 | 0.88 | 0.87 | 0.84 | 0.80 | 0.76 |
| T50 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 1.12 | 1.07 | 1.04 | 1.00 | 0.96 | 0.91 | 0.89 | 0.88 | 0.85 | 0.85 | 0.88 | 0.85 | 0.86 | 0.88 | 0.87 | 0.85 | 0.81 | 0.76 |
| T50 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 1.12 | 1.07 | 1.03 | 1.00 | 0.96 | 0.91 | 0.89 | 0.88 | 0.86 | 0.86 | 0.88 | 0.86 | 0.86 | 0.88 | 0.87 | 0.85 | 0.81 | 0.77 |
| T55 0.00 | TRUCKS, OFF-HIGHWAY | | | | | | | | | | | | | | | | | | |
| T55 0.10 | RIGID FRAME | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.83 | 0.82 | 0.81 | 0.79 | 0.78 | 0.77 | 0.76 | 0.74 | 0.71 | 0.67 | 0.65 | 0.64 |
| T55 0.20 | ARTICULATED FRAME | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.76 | 0.75 | 0.73 | 0.70 | 0.66 | 0.64 | 0.63 |
| T56 0.00 | TRUCKS,OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | | | | | | | | | | | | | | | | | | |
| T56 0.10 | PRIME MOVER TRACTORS | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.83 | 0.82 | 0.81 | 0.79 | 0.78 | 0.77 | 0.76 | 0.74 | 0.71 | 0.67 | 0.65 | 0.64 |
| T56 0.20 | WAGONS, BOTTOM DUMP | 1.10 | 1.07 | 1.02 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.75 | 0.74 | 0.72 | 0.69 | 0.65 | 0.63 | 0.62 |
| T56 0.30 | WAGONS, REAR DUMP | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | 0.79 | 0.78 | 0.76 | 0.75 | 0.74 | 0.72 | 0.69 | 0.64 | 0.62 | 0.61 |
| T57 0.00 | TRUCKS, VACUUM | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| T60 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | 0.79 | 0.78 | 0.76 | 0.75 | 0.74 | 0.72 | 0.69 | 0.64 | 0.62 | 0.61 |
| T65 0.00 | TUNNEL/MINING EQUIPMENT | | | | | | | | | | | | | | | | | | |
| T65 0.10 | DRIFTING & TUNNELING DRILLS | 1.20 | 1.15 | 1.07 | 1.00 | 0.93 | 0.86 | 0.80 | 0.79 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 | 0.66 | 0.63 | 0.61 | 0.60 | 0.59 |
| T65 0.20 | TUNNEL BORING MACHINES | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T65 0.30 | PRODUCTION DRILLING RIGS | 1.20 | 1.15 | 1.08 | 1.00 | 0.93 | 0.86 | 0.80 | 0.78 | 0.72 | 0.70 | 0.69 | 0.68 | 0.67 | 0.65 | 0.63 | 0.61 | 0.60 | 0.58 |
| T65 0.40 | ROADHEADERS & CONTINUOUS MINERS | 1.11 | 1.06 | 1.03 | 1.00 | 0.96 | 0.90 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.78 | 0.76 | 0.74 | 0.73 | 0.71 |
| T65 0.50 | ROCK BOLTING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| T65 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| T65 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 1.12 | 1.06 | 1.03 | 1.00 | 0.95 | 0.89 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.72 | 0.70 |
| T65 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| T65 0.70 | LOCOMOTIVES | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.72 | 0.69 |
| T65 0.90 | OTHER TUNNELING EQUIPMENT | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.89 | 0.85 | 0.84 | 0.82 | 0.82 | 0.81 | 0.80 | 0.78 | 0.76 | 0.74 | 0.72 | 0.71 | 0.69 |
| W10 0.00 | WAGONS, BOTTOM DUMP | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.76 | 0.75 | 0.73 | 0.70 | 0.66 | 0.63 | 0.63 |
| W15 0.00 | WAGONS, REAR DUMP | 1.09 | 1.06 | 1.02 | 1.00 | 0.95 | 0.88 | 0.83 | 0.82 | 0.80 | 0.79 | 0.77 | 0.76 | 0.75 | 0.73 | 0.70 | 0.66 | 0.63 | 0.63 |
| W25 0.00 | WATER & CO2 BLASTERS | | | | | | | | | | | | | | | | | | |
| W25 0.10 | LOW PRESSURE, (< 5,000 PSI) | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 |
| W25 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 |
| W25 0.30 | STEAM CLEANERS | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.69 | 0.67 |
| W25 0.40 | CO2 BLASTERS | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |
| W25 0.50 | WET ABRASIVE BLASTING SYSTEM (TORBO) | 1.14 | 1.08 | 1.03 | 1.00 | 0.95 | 0.87 | 0.83 | 0.81 | 0.80 | 0.80 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.68 | 0.67 | 0.65 |
| W30 0.00 | WATER TANKS | | | | | | | | | | | | | | | | | | |
| W30 0.10 | PORTABLE WITH WHEELS | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | 0.79 | 0.78 | 0.76 | 0.75 | 0.74 | 0.72 | 0.69 | 0.64 | 0.62 | 0.61 |

## Table 3-2 Equipment Age Adjustment Factors for Standby Cost

| CATEGORY SUB | REGION 7 TYPE OF EQUIPMENT | Life in Years / Year Purchased New | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
| W30 0.20 | SKID MOUNTED | 1.10 | 1.07 | 1.03 | 1.00 | 0.95 | 0.87 | 0.82 | 0.81 | 0.79 | 0.78 | 0.76 | 0.75 | 0.74 | 0.72 | 0.69 | 0.64 | 0.62 | 0.61 |
| W35 0.00 | WELDERS | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | 1.13 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.84 | 0.83 | 0.81 | 0.81 | 0.80 | 0.79 | 0.76 | 0.75 | 0.73 | 0.70 | 0.69 | 0.67 |
| W35 0.20 | ELECTRIC DRIVEN | 1.12 | 1.07 | 1.03 | 1.00 | 0.95 | 0.88 | 0.85 | 0.83 | 0.82 | 0.82 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 | 0.71 | 0.70 | 0.68 |

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**STANDBY HOURLY RATE CALCULATION FOR OVERAGE EQUIPMENT**

**EXAMPLE**

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

1. The unit of equipment is not listed in table 2-1.

2. The equipment is contractor owned.

3. Data for the unit in question:

   a. Caterpillar front-end wheel loader
   b. Model 950-F11, 4WD, 3.25 CY capacity
   c. Serial number indicates year of manufacture = 1997
   d. Actual purchase price in 1997 = $195,628
      (includes all regional discounts, sales tax and freight)
   e. Horsepower is 170 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 (2009) = 4 tires x $2,053/tire = $8,212
   g. Weight = 35,100 lbs

4. Use the actual cost data as follows:

   a. Purchase price (TEV) = $195,628
   b. Year of manufacture = 1997

5. Hourly rate is computed as follows:

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

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

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

**Region 07**

**1. EQUIPMENT INFORMATION AND EXPENSE FACTORS** **ID No:**

a. Equipment Specification Data:

| | | |
|---|---|---|
| (1) | Equipment Description: | Loader, Front-end, Wheel, 4WD, 4 CY capacity |
| (2) | Model and Series: | Caterpillar Model 950-F11 |
| (3) | Present Year or Year of Use: | 2009 |
| (4) | Year Manufactured: | 1997 |
| (5) | Horsepower - Equipment: | 170 |
| (6) | Horsepower - Carrier: | 0 |
| (7) | Fuel type: - **Equipment**: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel — **Enter number from 0 to 6 ==>** 3 | **D-off** |
| | - **Carrier**: 0-None; 1-electric; 2-gasoline; 3-diesel off-road; 4-diesel on-road; 5-marine gas; 6-marine diesel — **Enter number from 0 to 6 ==>** 0 | **None** |
| (8) | Shipping Weight (cwt): | 351 cwt |

(9) Tire size and number of tires: (Cost of tires based on present year - see 1.a.(3) and Appendix F)

| | Size/Ply | App F Code | No. | Unit Price | Cost |
|---|---|---|---|---|---|
| (a) Front (FT): | | | 0 | $0 | $0 |
| (b) Drive (DT): | 23.5X25/16Ply | ANNB5 | 4 | $2,053 | $8,212 |
| (c) Trailing (TT): | | | 0 | $0 | $0 |
| (d) Total Tire Cost: | | | | | $8,212 |

(10) List Price + Accessories: [at Year (yr) of Manufacture] $0 OR actual purchase price: $195,628

**USE APPENDIX D TO COMPLETE THE FOLLOWING DATA**:

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

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

**Region 07**

**2. EQUIPMENT VALUE**

a. List Price + Accessories: *[at Year (yr) of Manufacture]* = $0

(1) Discount:

| (List Price {1.a.(10)} | + Accessories) | x | Discount Code {1.c.(3)} | | |
|---|---|---|---|---|---|
| ($0 | + $0.00) | x | 0.075 | = | $0 |

(2) Subtotal {2.a.} - {2.a.(1)} Subtotal = $0

(3) Sales or Import Tax:

| Subtotal {2.a.(2)} | x | Tax Rate {Appendix B} | | |
|---|---|---|---|---|
| $0 | x | 9.00% | = | $0 |

(4) Total Discounted Price: {Subtotal: 2.a.(2) + 2.a.(3)} Subtotal = $0

b. Freight:

| Shipping Weight {1.a.(8)} | x | Freight Rate per cwt {Appendix B} | | |
|---|---|---|---|---|
| 0,000 cwt | x | $0.00 /cwt | = | $0 |

c. **TOTAL EQUIPMENT VALUE (TEV):** **TOTAL[2.]:** **= $195,628**
{2.a.(4)} + {2.b} OR actual purchase price {1a.(10)}
(*See chapter 3 for used and overage equipment rate adjustments.)*

**3. DEPRECIATION PERIOD (N)**

a.

| LIFE {1.c.(4)} | / | Working Hours Per Year (WHPY) {Appendix B} | | |
|---|---|---|---|---|
| | | | = | N |
| 9,250 hr | / | 1,630 hr/yr | = | 5.67 yrs |

**4. OWNERSHIP COST**

a. Depreciation
(1) Tire Cost Index (TCI):

| Tire Index, Year of Manufacture, {1.a.(4)} Appendix E, EK=100 | / | Tire Index, Present Year or Year of Use {1.a.(3)} Appendix E, EK=100 | | |
|---|---|---|---|---|
| | | | = | TCI |
| 2431 | / | 3382 | = | 0.719 |

(2)

| [TEV {2.c.} | x | (1.0-SLV) {1.c.(5)} | - | (TCI {4.a.(1)} | x | Tire Cost)] {1.a.(9)(d)} | / | LIFE {1.c.(4)} | | |
|---|---|---|---|---|---|---|---|---|---|---|
| [$195,628 | x | (1.0-0.25) | - | (0.719 | x | $8,212 )] | / | 9,250 /hr | = | $15.22 /hr |

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

**Region 07**

**4. OWNERSHIP COST (Continued)**

b. Facilities Capital Cost of Money (FCCM):

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| (1) | [( N - 1.0) {3.a.} | x | (1.0 + SLV) {1.c.5.} | + | 2.0] | / | (2.0 x N) {3.a.} | = | Avg Value Factor (AVF) |
| | [(5.67 yr - 1.0) | x | (1.0 + 0.25) | + | 2.0] | / | (2.0 x 5.67 yr) | = | 0.691 |
| (2) | TEV {2.c.} | x | AVF {4.b.(1)} | x | Adjusted Cost-of-Money {Appendix B} | / | WHPY {Appendix B} | | |
| | $195,628 | x | 0.691 | x | 3.90% | / | 1,630 hr/yr | = | $3.23 /hr |

c. **TOTAL HOURLY OWNERSHIP COST:** **TOTAL [4.]: = $18.45 /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)} | x | Fuel Cost per Gallon (gal) {Appendix B} | |
| 0.000 | x | 0 hp | x | $0.00 /gal | = $0.00 /hr |

(2) Carrier:

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

(3) Total Hourly Fuel Cost: **Total [5.a.] = $0.00 /hr**
{5.a (1)} + {5.a (2)}

b. FOG Cost:

(1) Equipment:

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

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

**Region 07**

**5. OPERATING COST (Continued)**

(2) Carrier:

| FOG Factor {1.c.(8)} | x | Carrier Hourly Fuel Cost {5.a.(2)} | x | LAF {Appendix B} | | |
|---|---|---|---|---|---|---|
| 0.000 | x | $0.00 /hr | x | 0.00 | = | $0.00 /hr |

(3) Total Hourly FOG Cost: **Total [5.b.]** = **$0.00 /hr**
{5.b.(1)} + {5.b.(2)}

c. Alternative Fuel/FOG Cost: **Total [5.c.]** = **$0.00 hr**
(See chapter 2, paragraph 2.24.d. for guidance on when to use.)

d. Repair Cost:

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

| Economic Index, Present Year or Year of Use.{1.a.(3)} Appendix E, EK={1.c.(1)} | / | Economic Index, Year of Manufacture, {1.a.(4)} Appendix E, EK={1.c.(1)} | | |
|---|---|---|---|---|
| 0000 | / | 0000 | = | 0.000 |

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

(2) Repair Factor (RF):

| RCF {1.c.(10)} | x | EAF {5.d.(1)} | x | LAF {Appendix B} | | |
|---|---|---|---|---|---|---|
| 0.00 | x | 0.000 | x | 0.00 | = | 0.000 |

(3) Repair Cost:

| [TEV {2.c.} | - | (TCI {4.a.(1)} | x | Tire Cost)] {1.a.(9)(d)} | x | RF {5.d.(2)} | / | LIFE {1.c.(4)} |
|---|---|---|---|---|---|---|---|---|
| [$0 | - | (0.000 | x | $0)] | x | 0.000 | / | 0 |

(4) Total Hourly Repair Cost: **Total [5.d.]** = **$0.00 /hr**

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

**Region 07**

**5. OPERATING COST (Continued)**

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

(1) Front Tires (FT):

| (1.5 x FT Cost) | / | (1.8 x FT Wear Factor | x | Maximum Tire Life Hours) | |
|---|---|---|---|---|---|
| {1.a.(9)(a)} | | {1.c.(9)(a)} | | {Appendix F} | |
| (1.5 x $0) | / | (1.8 x 0.00 | x | 0 hrs) | = $0.00/hr |

(2) Drive Tires (DT):

| (1.5 x DT Cost) | / | (1.8 x DT Wear Factor | x | Maximum Tire Life Hours) | |
|---|---|---|---|---|---|
| {1.a.(9)(b)} | | {1.c.(9)(b)} | | {Appendix F} | |
| (1.5 x ($0) | / | (1.8 x 0.00 | x | 0 hrs | = $0.00/hr |

(3) Trailing Tires (TT):

| (1.5 x TT Cost) | / | (1.8 x TT Wear Factor | x | Maximum Tire Life Hours) | |
|---|---|---|---|---|---|
| {1.a.(9)(c)} | | {1.c.(9)(c)} | | {Appendix F} | |
| (1.5 x $0) | / | (1.8 x 0.00 | x | 0 hr) | = $0.00/hr |

(4) Total Tire Wear Cost: **Total [5.e.] = $0.00/hr**
Sum {5.e.(1)} through {5.e.(3)}

f. Tire Repair Cost:

| Total Tire Wear Cost per Hour | x | (0.15 x LAF) | | |
|---|---|---|---|---|
| {5.e.(4)} | | {Appendix B} | | |
| $0.00/hr | x | (0.15 x 0.00) | **Total [5.f.]** | **= $0.00/hr** |

**g. TOTAL HOURLY OPERATING COST:** **Total [5.] = $0.00/hr**
Sum {5.a.} through {5.f.}

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

**Region 07**

**6. HOURLY RATES**

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

| Ownership Cost {4.c.} | + | Operating Cost {5.g.} | | = |
|---|---|---|---|---|
| $0.00 /hr | + | $0.00 /hr | | **$0.00 /hr** |

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

b. Other Work Shifts Hourly Rate:
*(Refer to Chapter 3, Adjustments to Rates, for methodology.)*

| Depreciation {4.a.(2)} | + | (FCCM {4.b.(2)} | x | 40 hr/wk | / | Work hr/wk) example:60 hr/wk | + | Operating Cost {5.g.} | = |
|---|---|---|---|---|---|---|---|---|---|
| $0.00 /hr | + | $0.00 /hr | x | 40 hr/wk | / | 60 hr/wk example:60 hr/wk | + | $0.00 /hr | **$0.00 /hr** |

c. Standby Hourly Rate:
*(Refer to Chapter 2, paragraph 2.28 for guidance on use.)*

| (Depreciation {4.a.(2)} | x 0.50) | + | FCCM {4.b.(2)} | = |
|---|---|---|---|---|
| ($15.22 /hr | x 0.50) | + | $3.23 /hr | **$10.84 /hr** |

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

**See Chapter 3 if rate adjustments are necessary.**

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

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# CHAPTER 4.0 - METHODOLOGY FOR DREDGING PLANT AND MARINE EQUIPMENT

## SECTION I. GENERAL

### 4.1 Contents

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

### 4.2 General

a. The ownership and operating rates provided in table 2-1, category M-10, are based on the methodology in chapter 2 for non-dredging equipment. However, the cost data (Acquisition Cost, Horsepower, and Fuel Type) may be used for calculation of dredging plant and marine equipment rates, provided they are calculated in accordance with the methodology provided 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*, on the Internet at http://140.194.76.129/publications/eng-regs/er1110-2-1302/toc.htm, and in Engineer Technical Letter (ETL) 1110-2-573 *Engineering and Design: Construction Cost Estimating Guide for Civil Works* located at http://140.194.76.129/publications/eng-tech-ltrs/etl1110-2-573/toc.htm. The methodology for calculating ownership cost is in section V of this chapter.

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

## SECTION II. ANNUAL USE

### 4.3 Time Available to Dredge

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

**AVAILABLE TIME TO DREDGE BY REGION**
**(In Months)**

| Region | Type of Dredging Operation | | |
|---|---|---|---|
| | Pipeline | Bucket | Hopper |
| Atlantic Coast and tributaries | 9 | 10 | 10 |
| Gulf Coast, Lower Mississippi, and Tributaries | 10 | 10 | 11 |
| Great Lakes, Upper Mississippi, and Tributaries | 8 | 8 | 8 |
| West Coast and Tributaries | 9 | 9 | 9 |

**Figure 4-1. Months Available by Region**

## SECTION III. LIFE

### 4.4 Life

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

a. The Useful Life is expressed in years in table 4-1. It is the economic life of the equipment and is used to develop ownership rates for various types of dredging plant.

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

### 4.5 Annual Hours Available

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

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

## SECTION IV. SALVAGE VALUE

### 4.6 Salvage Value (SLV)

The salvage value, expressed as a decimal, is shown in table 4-1 for different types of plant.

## SECTION V. OWNERSHIP COST

### 4.7 Ownership Cost

Ownership cost is calculated based on a percent of plant value. Plant value is the acquisition cost plus the cost of any initial capital improvements. The value of initial capital improvements is based on those betterments, which were made within 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:

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

Where:

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

## 4.8 Depreciation Factor

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

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

Where:

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

## 4.9 The Cost of Money Rate (CMR) Factor

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

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

Where:

- N = Useful Life from table 4-1.
- SLV = Salvage Value from table 4-1.
- 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 as defined in ER 1110-2-1302, appendix D. These costs are not included in ownership rates since they vary by geographic area and with individual contractors. These costs are considered as overhead costs and are, therefore, not included here so they will not be duplicated in the overhead in the estimate or submitted proposal.

## SECTION VI. OPERATING FACTORS

### 4.11 Hourly Operating Cost

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

### 4.12 Prime and Secondary Power

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

- Horsepower is the engines rated horsepower.
- Fuel Cost/Gallon is based on values shown in appendix B. See chapter 3 for fuel cost adjustments.

- Fuel Factor - Gas or Diesel Fuel. The fuel factor is listed in table 4-1 for the primary and secondary engines.

## 4.13 Water, Lube, and Supplies (WLS)

This factor is similar to the filters, oil, and grease (FOG) factor described in chapter 2. This item is computed as either a percentage of the hourly fuel costs or, if the type of plant has no engine, a reasonable hourly cost should be included.

This factor does not include an allowance for the oiler normally assigned to the dredge or other piece of dredging plant. The formula is expressed as follows:

Water, Lube, and Supply Cost = WLS factor x Hourly Fuel Cost

Where:

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

## 4.14 Repairs (RPR)

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

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

Where:

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

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

a. 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.

b. 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 Practices.

c. There is no predetermined allowance in the dredging plant methodology for jobsite yard costs, mobilization, or demobilization. All of these cost elements must be separately estimated to match each project's construction conditions.

## SECTION VII. STANDBY

### 4.15 Standby Rate

The standby rate is computed by allowing the full ownership cost. In addition to the standby ownership rate, it may be necessary on dredges to include operating costs. Examples of allowable operating 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 Rates

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

### 4.17 Allowance for Additional Capital Improvements

Allowance for additional capital improvements shall be calculated in accordance with accepted general 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 accepted general accounting principles.

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

### 4.19 Dredging Plant Purchased Used

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

## SECTION IX. RATE CALCULATION EXAMPLE

### 4.20 Rate Calculation Example

The example shown in figure 4-2 illustrates the use of figure 4-1, table 4-1, and the regional data from appendix B to generate a rate. For illustration purposes, assume that a 24-inch hydraulic dredge (pipeline) was purchased new in 1991 for $3,700,000, including tax and delivery, and there were no initial capital improvements. This example uses 500 hours per month and a discounted CMR of 4.20 percent.

## Table 4-1. Dredging Plant Cost Factors

| Type of Plant | Useful Life | Physical Life | Salvage Value | Prime Engine Fuel Factor | | | Secondary Engine Fuel Factor | | | WLS % | | RPR % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 HPF = Horsepower Factor G = Gas D = Diesel
WLS = Water, Lube and Supplies RPR = Repairs

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

| Type of Plant | Useful Life | Physical Life | Salvage Value | Prime Engine Fuel Factor | | | Secondary Engine Fuel Factor | | | WLS % | | RPR % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| 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 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 60 |
| Mooring Barge | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 60 |
| Dump Scow | 20 | 90,000 | 0.05 | 20 | 0.021 | 0.011 | 20 | 0.021 | 0.011 | 18 | 20 | 70 |

SLV = Salvage Value HPF = Horsepower Factor G = Gas D = Diesel
WLS = Water, Lube and Supplies RPR = Repairs
[1] Sized by the largest bucket used (normally a mud bucket)

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

| Type of Plant | Useful Life | Physical Life | Salvage Value | Prime Engine Fuel Factor | | | Secondary Engine Fuel Factor | | | WLS % | | RPR % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 0.072 | 0.039 | 32 | 38 | 110 |
| Over 3,000 hp | 25 | 120,000 | 0.10 | 80 | 0.083 | 0.045 | 70 | 0.072 | 0.039 | 32 | 38 | 120 |
| 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 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.5 | 2,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Joints | 3 | 12,00 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 30 |
| Pontoons/Floats | 12 | 60,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |

SLV = Salvage Value HPF = Horsepower Factor G = Gas D = Diesel
WLS = Water, Lube and Supplies RPR = Repairs

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

| Type of Plant | Useful Life | Physical Life | Salvage Value | Prime Engine Fuel Factor | | | Secondary Engine Fuel Factor | | | WLS % | | RPR % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | YRS | HR | SLV | HPF | G | D | HPF | G | D | G | D | |
| Pipeline and Accessories (Ocean Environment) | | | | | | | | | | | | |
| Metal Pipeline (All sizes) | | | | | | | | | | | | |
| Pumping Mud | 2 | 9,000 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Sand | 1 | 4,500 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.3 | 1,500 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Joints | 1 | 4,500 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pontoons/Floats | 2 | 9,000 | 0.40 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Metal Pipeline On-Shore | | | | | | | | | | | | |
| Pumping Mud | 3 | 12,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Sand | 1.5 | 6,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |
| Pumping Rock (Gravel) | 0.5 | 2,000 | 0.10 | 0 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0 | 0 | 5 |

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

SLV = Salvage Value
WLS = Water, Lube and Supplies
HPF = Horsepower Factor
RPR = Repairs
G = Gas
D = Diesel

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

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

**Region 07** **ID No:** _____

**1. MARINE AND DREDGING PLANT INFORMATION AND EXPENSE FACTORS**

| | | | |
|---|---|---|---|
| a. | Plant Pertinent Data: | | |
| | (1) Equipment Description: | 24" Hydraulic Cutter Suction Dredge | |
| | (2) Model and Series: | Ellicott Series 4900 Super Dragon | |
| | (3) Present Year or Year of Use: | | 2009 |
| | (4) Acquisition Year: | | 1991 |
| | (5) Horsepower (hp) - Prime | | 3,730 hp |
| | (6) Horsepower (hp) - Secondary Engine (s): | | |
| | (a) Electrical Generators | | 200 hp |
| | (b) Hydraulic System | | 1,325 hp |
| | (c) Cutter Head Drive | | 750 hp |
| | (d) Hydraulic Water Jet | | 200 hp |
| | **Total Secondary hp** | | **2,475 hp** |
| | (7) Plant Value: | | |
| | (a) Acquisition Costs | | $3,700,000 |
| | (b) Capital Improvements | | $0 |
| | **Total Plant Value** | | **$3,700,000** |
| | (8) Hours Worked per Month (Effective Time) | | 500 hrs/mo |
| | (9) Additive Item(s) (Monthly Costs To be Estimated) | | |
| | (a) | Excessive Dredge Wear (Gravel) | $8,000 /mo |
| | (b) | | $0 /mo |
| | (c) | | $0 /mo |
| | (d) | | $0 /mo |
| | (e) | | $0 /mo |
| | **Total Additive Items** | | **$8,000 /mo** |
| b. | Appendix B, Area Factors Data | | |
| | (1) Labor Adjustment Factor (LAF) | | 1.14 |
| | (2) Fuel type | | Marine Diesel |
| | Fuel Cost Per Gallon | | $2.41 |
| | (3) Cost of Money Rate (undiscounted) | | 4.875% |
| | (4) Cost of Money Rate (discounted) | | 3.900% |
| c. | Appendix E, Economic Index Data (EK 105) | | |
| | (1) Economic Index, Acquisition Year | | 4438 |
| | (2) Economic Index, Present Year or Year of Use | | 7762 |

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

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

**Region 07**

**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

| | |
|---|---|
| (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 Rate | | | | |
|---|---|---|---|---|---|---|---|---|
| (N-1) | x | (1+SLV)+2 | x | | / | 2N | | |
| {1.e.(1)} | | {1.e.(3)} | | {Appendix B} | | {1.e.(1)} | | |
| (25-1) | x | (1+ 0.10) + 2 | x | 3.900% | / | 50.00 | = | 2.22% /yr |

c. Total Ownership Percent Per Year (DEPR + FCCM) = **5.82% /yr**

**3. OWNERSHIP COSTS**

a. Ownership per Year

| | | Total Ownership Percent Per Year | | |
|---|---|---|---|---|
| Plant Value | x | (DEPR + FCCM) | | |
| {1.a.(7)(a)} | | {2.c.} | | |
| $3,700,000 | x | 5.82% | = | $215,340.00 /yr |

b. Monthly Ownership Expense

| Ownership per Year | / | Months Available per Year | | |
|---|---|---|---|---|
| {3.a.} | | {1.d.(1)} | | |
| $215,340.00 /yr | / | 9 months/yr | rounded = | $23,927.00 /mo |

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

**Region 07**

**4. OPERATING COSTS**

a. Fuel Cost

(1) Prime Engine Fuel

| Fuel Factor {1.e.(4)} | x | HP {1.a.(5)} | x | Fuel Cost per Gallon {1.b.(2)} | | |
|---|---|---|---|---|---|---|
| 0.045 gal/bhp-hr | x | 3,730 | x | $2.41 | = | $404.52 /hr |

(2) Secondary Engine Fuel

| Fuel Factor {1.e.(5)} | x | HP {1.a.(6)} | x | Fuel Cost per Gallon {1.b.(2)} | | |
|---|---|---|---|---|---|---|
| 0.039 gal/bhp-hr | x | 2,475 | x | $2.41 | = | $232.63 /hr |

(3) Total Fuel (Prime Engine Fuel + Secondary Engine Fuel) = $637.15 /hr

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

(1) Prime Engine WLS

| WLS Factor {1.e.(6)} | x | Hourly Fuel Cost {4.a.(1)} | | |
|---|---|---|---|---|
| 0.22 | x | $404.52 /hr | = | $88.99 /hr |

(2) Secondary Engine WLS

| WLS Factor {1.e.(6)} | x | Hourly Fuel Cost {4.a.(2)} | | |
|---|---|---|---|---|
| 0.22 | x | $232.63 /hr | = | $51.18 /hr |

(3) Total Fuel (Prime Engine WLS + Secondary Engine WLS) = $140.17 /hr

c. Repair Cost

(1) Economic Adjustment Factor (EAF)

| Economic Index for Present Year or Year of Use {1.c.(2)} | / | Economic Index for Acquisition Year {1.c.(1)} | | |
|---|---|---|---|---|
| 7762 | / | 4438 | = | 1.749 |

(2) Repair Cost

| Total Plant Value {1.a.(7)} | x | RPR {1.e.(7)} | x | EAF {4.c.(1)} | x | LAF {1.b.(1)} | / | Life in Hrs {1.e.(2)} | | |
|---|---|---|---|---|---|---|---|---|---|---|
| $3,700,000 | x | 1.30 | x | 1.749 | x | 1.14 | / | 130,000 | = | $73.77 /hr |

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

**Region 07**

**4. OPERATING COSTS (Continued)**

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

| Fuel {4.a.(3)} | + | WLS {4.b.(3)} | + | Repairs {4.c.(2)} | | |
|---|---|---|---|---|---|---|
| $637.15 /hr | + | $140.17 /hr | + | $73.77 /hr | = | **$851.09 /hr** |

e. Monthly Operating Cost

| Total Hourly Operating Cost {4.d.} | x | Hrs Worked per Mo {1.a.(8)} | | |
|---|---|---|---|---|
| $851.09 /hr | x | 500 hrs/mo | rounded = | $425,545.00 /mo |

**5. TOTAL MONTHLY RATE**

| | | |
|---|---|---|
| a. Ownership {3.b.} | = | $23,927.00 /mo |
| b. Operating {4.e.} | = | $425,545.00 /mo |
| c. Total Estimated Additive Items {1.a.(9))} | = | $8,000.00 /mo |
| **d. TOTAL MONTHLY RATE** {5.a.} + {5.b.} + {5.c.} | = | **$457,472.00 /mo** |

**6. STANDYBY ALLOWANCE**

a. Standard Hourly Standby Expense

| Monthly Ownership Expense {3.b.} | / | Maximum hrs/mo = 30.4 days/mo x 24 hrs/day | | |
|---|---|---|---|---|
| $23,927.00 /mo | / | 730 hrs/mo | = | **$32.78 /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.)*

| Generator HP {1.a.(6)} | / | Total Secondary HP {1.a.} | x | Secondary Fuel Cost {4.a.(2)} | | |
|---|---|---|---|---|---|---|
| 200 hp | / | 2,475 hp | x | $232.63 | = | **$18.80 /hr** |

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

| Standby Expense {6.a.} | + | Generator Fuel Allowance {6.b.} | | |
|---|---|---|---|---|
| $32.78 /hr | + | $18.80 /hr | = | **$51.58 /hr** |

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

# APPENDIX A REFERENCES

Section I: Required Publications
Section II: Related Publications
Section III. EFAR Reference
Section IV: Government Bookstores

Sample Equipment Rate Computation Worksheet

# APPENDIX A

# REFERENCES

## SECTION I: REQUIRED PUBLICATIONS

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

Federal Acquisition Regulation 15.400. *Contract Pricing*, Government Printing Office, Washington, DC.

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_____. 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.

_____. 49.000. *Termination of Contracts,* Government Printing Office, Washington, DC.

_____. 52.230-2. *Cost Accounting Standards*, Government Printing Office, Washington, DC.

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**SECTION II: RELATED PUBLICATIONS**

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

R S Means Company, Inc. 2009. *Labor Rates for the Construction Industry*, 36th ed., Kingston, Massachusetts.

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

**SECTION III: EFAR REFERENCE**

**EFARS PART 31**
**CONTRACT COST PRINCIPLE AND PROCEDURES**

**EAC 95-6**

**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 Clause.**

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

**SECTION III: EFAR REFERENCE** (Continued)

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 IV. GOVERNMENT BOOKSTORES

U.S. Government periodicals are sold by the Office of the Superintendent of Documents. Orders may be placed by telephone or fax (Visa/Mastercard is accepted). Telephone: toll free 866-512-1800 (D.C. area: 202-512-1800). Fax: 202-512-2104.

Orders may also be placed electronically at Internet address http://bookstore.gpo.gov/.

RETURN POLICY: Publications are not accepted for exchange or credit unless an error was made in filling your order.

When ordering, please give the following information:

| | |
|---|---|
| Title of Publication: | EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule |
| Region: | Region I through XII |
| Volume No. | Volume No. 1 through No. 12 |
| Media: | CD-ROM |

Use this worksheet to compute rates for equipment that is not in this pamphlet.

1. **EQUIPMENT INFORMATION AND EXPENSE FACTORS**

ID No.: _____

a. Equipment Specification Data:
   (1) Equipment Description: _____
   (2) Model and Series: _____
   (3) Year of Use: _____
   (4) Year Manufactured: _____
   (5) Horsepower - Equipment: _____
   (6) Horsepower - Carrier: _____
   (7) Fuel type: - Equipment: gas/diesel off-road/diesel on-road/electric/air _____
   - Carrier: gas/diesel off-road/diesel on-road/electric/air _____
   (8) Shipping Weight (cwt): _____
   (9) Tire size and number of tires: (Cost of tires based on year of use – see 1.a.(3) and appendix F)

| | No. | Size/Ply | Unit Price | Cost |
|---|---|---|---|---|
| (a) Front (FT): | _____ | _____ | $_____ | $_____ |
| (b) Drive (DT): | _____ | _____ | $_____ | $_____ |
| (c) Trailing (TT): | _____ | _____ | $_____ | $_____ |
| (d) Total Tire Cost: | | | | $_____ |

**USE APPENDIX D TO COMPLETE THE FOLLOWING DATA:**

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



Equipment Rate Computation Worksheet (copy as needed).

2. **EQUIPMENT VALUE**

a. List Price + Accessories: *[at Year of Manufacture]* =$_____

(1) Discount: (List Price + Accessories) x (Discount Code)
[1.c.(3)]

($_____ + $_____) x (_____) =-($_____

(2) Subtotal [2.a.] – [2.a.(1)] Subtotal=$_____

(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=$_____

b. Freight: (Shipping Weight) x (Freight Rate per cwt)
[1.a.(8)] [Appendix B]

(_____cwt) x ($_____/cwt) =+$_____

c. **TOTAL EQUIPOMENT VALUE (TEV):** **TOTAL[2.]:=$_____**
[(2.a.(4)] + [(2.b)]

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

3. **DEPRECIATION PERIOD (N)**

a. (LIFE hours (hr)) / (Working Hours Per Year (WHPY)) = N
[1.c.(4)] [Appendix B]

(_____hr) / (_____hr/yr) =_____

4. **OWNERSHIP COST**

a. Depreciation

(1) Tire Cost Index (TCI):
(Tire Index, Yr of Mfg) / (Tire Index, Based on 1.a.(3)) =Tire Cost Index (TCI)
[Appendix E, EK=100] [Appendix E, EK=100]

(_____) / (_____) =_____(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 needed).

4. **OWNERSHIP COST (Continued)**

b. Facilities Capital Cost of Money (FCCM):

(1) [[( N ) - 1.0] x [1.0 + (SLV)] + 2.0] / [2.0x ( N )] = Avg Value Factor
[3.a.] [1.c.5.] [3.a.] (AVF)

[[(_____yr) – 1.0] x [1.0 + (_____)] + 2.0] / [2.0 x (_____yr)]

=_____ (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. **TOTAL HOURLY OWNERSHIP COST: TOTAL [4.]:** **=$_____** /hr
[4.a.(2)] + [4.b.(2)]

5. **OPERATING COST**

a. Fuel Costs:

(1) Equipment:

(Fuel Factor x (Horsepower (hp)) x (Fuel Cost Per Gallon (gal))
[1.c.(6)] [1.a.(5)] [Appendix B]

(_____) 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
[(5.a.(1)] + [5.a.(2)]

b. FOG 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).

5. **OPERATING 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: **Total [5.b.]** =$_____ /hr
[(5.b.(1)] + [5.b.(2)]

c. Alternative Fuel/FOG Cost: **Total [5.c.]** =$_____ /hr

(See chapter 2, paragraph 24.d. for guidance on when to use.)

d. Repair Cost:

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

(Economic Index for Year 1.a.(3)) / (Economic Index for Year 1.a.(4))
[Appendix E] [Appendix E]

(_____) / (_____) =_____ (EAF)

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

(2) Repair Factor (RF):

(RCF) x (EAF) x (LAF) =___Repair Factor (RF)
[1.c.(10)] [5.d.(1)] [Appendix B]

(_____) x (_____) x (_____) =_____ (RF)

(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)]

[($_____) – [(_____) x ($_____)]] x (_____) / (_____)

(4) Total Hourly Repair Cost: **Total [5.d.]** =$_____ /hr



Equipment Rate Computation Worksheet (copy as needed).

5. **OPERATING COST (Continued)**

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

(1) Front Tires (FT):

[1.5 x (FT Cost)] / [1.8 x (FT Wear Factor) x (Maximum Tire Life Hours)]
[1.a.(9)(a)] [1.c.(9)(a)] [Appendix G]

[1.5 x ($_____)] / [1.8 x (_____) x (_____/hr)]

=$_____ /hr

(2) Drive Tires (DT):

[1.5 x (DT Cost)] / [1.8 x (DT Wear Factor) x (Maximum Tire Life Hours)]
[1.a.(9)(b)] [1.c.(9)(b)] [Appendix G]

[1.5 x ($_____)] / [1.8 x (_____) x (_____/hr)]

=$_____ /hr

(3) Trailing Tires (TT):

[1.5 x (TT Cost)] / [1.8 x (TT Wear Factor) x (Maximum Tire Life Hours)]
[1.a.(9)(c)] [1.c.(9)(c)] [Appendix G]

[1.5 x ($_____)] / [1.8 x (_____) x (_____/hr)]

=$_____ /hr

(4) Total Tire Wear Cost: **Total [5.e.]** =$_____ /hr
[Sum 5.e.(1) through 5.e.(3)]

f. Tire Repair Cost:

(Total Tire Wear Cost) x 0.15 x (LAF)
[5.e.(4)] [Appendix B]

($_____/hr) x 0.15 x (_____) **Total [5.f.]** =$_____ /hr

g. **TOTAL HOURLY OPERATING COST:** **TOTAL [5.] =$_____ /hr**
[Sum 5.a. through 5.f.]



Equipment Rate Computation Worksheet (copy as needed).

6. **HOURLY RATES**

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

(Ownership Cost) + (Operating Cost)

($_____/hr) + ($_____/hr) =$_____ /hr

b. Other Work Shifts Hourly Rate:
*(Refer to Chapter 3, Adjustments to Rates, for methodology.)*

[(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/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.**

Page 6 of 6

Equipment Rate Computation Worksheet (copy as needed).

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# APPENDIX B AREA FACTORS

# APPENDIX B

## AREA FACTORS

*WEST*

**Region:** 7

| | | |
|---|---|---|
| Total State Sales or Import Tax Rate: | 8.50% | |
| Working Hours Per Year (WHPY): | 1,630 | hrs/yr |
| Labor Adjustment Factor (LAF): | 1.14 | |
| Electricity Cost Per Kilowatt-Hour: | $0.097 | /kW-Hr |
| Gasoline Cost Per Gallon: | $3.17 | /gal |
| Diesel Cost Per Gallon (Off-Road Use): | $2.92 | /gal |
| Diesel Cost Per Gallon (On-Road Use): | $3.44 | /gal |
| Cost-of-Money Rate (Full Rate): | 4.875% | |
| Cost-of-Money Rate (Adjusted): | 3.900% | |

### Freight Rates

| | | | | | |
|---|---|---|---|---|---|
| over | 0 | cwt | thru | 240 | $26.94 |
| over | 240 | cwt | thru | 300 | $25.13 |
| over | 300 | cwt | thru | 400 | $22.50 |
| over | 400 | cwt | thru | 500 | $20.06 |
| over | 500 | cwt | thru | 700 | $9.71 |
| over | 700 | cwt | thru | 800 | $8.53 |
| over | 800 | cwt | thru | 99,999 | $6.26 |

# APPENDIX B

## AREA FACTORS (for all regions)

**Below is a listing of all regional area factors for reference only. The area factor's used for this pamphlet are located on previous page B-1.**

| Reg | | | SST | WHPY | LAF | Elec | Gas | D-Off | D-On | Freight Cost Thru CWT $ | | Thru CWT $ | | Thru CWT $ | | Thru CWT $ | | Thru CWT $ | | Thru CWT $ | | Thru CWT $ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NORTHEAST | 2009 | 5.80% | 1360 | 1.12 | $0.142 | $3.01 | $3.17 | $3.71 | 240 | $17.42 | 300 | $16.01 | 400 | $13.92 | 500 | $11.96 | 700 | $6.15 | 800 | $6.15 | 99,999 | $9.14 |
| 2 | MIDEAST | 2009 | 5.80% | 1450 | 1.02 | $0.094 | $2.96 | $3.04 | $3.59 | 240 | $9.19 | 300 | $8.46 | 400 | $7.61 | 500 | $6.83 | 700 | $4.13 | 800 | $4.13 | 99,999 | $6.14 |
| 3 | SOUTHEAST | 2009 | 8.50% | 1530 | 0.86 | $0.089 | $2.95 | $3.04 | $3.49 | 240 | $14.96 | 300 | $13.61 | 400 | $11.62 | 500 | $9.72 | 700 | $5.42 | 800 | $5.42 | 99,999 | $8.01 |
| 4 | NORTHCENTRAL | 2009 | 5.85% | 1260 | 1.02 | $0.078 | $2.88 | $3.04 | $3.55 | 240 | $16.66 | 300 | $15.38 | 400 | $13.63 | 500 | $12.03 | 700 | $6.41 | 800 | $5.88 | 99,999 | $4.50 |
| 5 | MIDWEST | 2009 | 7.90% | 1400 | 0.97 | $0.075 | $2.80 | $3.04 | $3.53 | 240 | $13.06 | 300 | $12.00 | 400 | $10.42 | 500 | $8.98 | 700 | $5.30 | 800 | $4.91 | 99,999 | $3.75 |
| 6 | SOUTHWEST | 2009 | 8.10% | 1590 | 0.86 | $0.092 | $2.83 | $3.03 | $3.46 | 240 | $16.78 | 300 | $15.67 | 400 | $14.08 | 500 | $12.63 | 700 | $6.60 | 800 | $6.08 | 99,999 | $4.72 |
| 7 | WEST | 2009 | 8.50% | 1630 | 1.14 | $0.097 | $3.17 | $2.92 | $3.44 | 240 | $26.94 | 300 | $25.13 | 400 | $22.50 | 500 | $20.06 | 700 | $9.71 | 800 | $8.53 | 99,999 | $6.26 |
| 8 | NORTHWEST | 2009 | 6.00% | 1540 | 1.01 | $0.067 | $3.13 | $2.87 | $3.41 | 240 | $27.78 | 300 | $26.06 | 400 | $23.69 | 500 | $21.52 | 700 | $11.26 | 800 | $9.51 | 99,999 | $6.48 |
| 9 | ALASKA | 2009 | 1.50% | 1040 | 1.19 | $0.132 | $3.65 | $4.17 | $4.42 | 240 | $44.02 | 300 | $41.59 | 400 | $38.40 | 500 | $35.48 | 700 | $27.35 | 800 | $25.43 | 99,999 | $22.10 |
| 10 | HAWAII | 2009 | 4.50% | 1480 | 1.24 | $0.231 | $3.72 | $2.86 | $3.57 | 240 | $95.58 | 300 | $76.59 | 400 | $56.76 | 500 | $62.17 | 700 | $57.01 | 800 | $44.76 | 99,999 | $30.94 |
| 11 | PUERTO RICO | 2009 | 7.00% | 1560 | 0.72 | $0.139 | $2.78 | $3.05 | $3.52 | 240 | $48.22 | 300 | $39.44 | 400 | $28.83 | 500 | $26.32 | 700 | $19.36 | 800 | $16.06 | 99,999 | $12.91 |
| 12 | KWAJALEIN | 2009 | 4.50% | 1390 | 1.05 | $0.139 | $3.01 | $2.86 | $3.57 | 240 | $29.97 | 300 | $27.88 | 400 | $24.94 | 500 | $22.21 | 700 | $12.23 | 800 | $10.61 | 99,999 | $8.09 |

**SST = State Sales tax** **WHPY = Work Hours Per Year** **LAF = Labor Adjustment Factor** **Elec = Electricty Cost Per kW-Hr**
**Gas = Gasoline Cost per Gal** **D-Off = Diesel-Off Road Cost per Gal** **D-On = Diesel-On Road Cost per Gal** **CWT = Hundred Pounds**

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# APPENDIX C GUIDE FOR SELECTING OPERATING CONDITIONS

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| **B25 and B35**:<br>Buckets<br>Clamshell or<br>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**:<br>Cranes<br>Hydraulic, Truck Mounted<br>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**:<br>Cranes<br>Mechanical Dragline, Lifting, or Clamshell<br><br>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**:<br>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 |

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| **G15**:<br>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**:<br>Hydraulic Excavators<br>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**:<br>Hydraulic Excavators<br>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 |
| **H35**:<br>Hydraulic Shovels<br>Crawler Mounted | Continuous loading in well shot rock or fairly tight | Continuous loading in poorly shot rock, virgin, or |

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| (nonelectric) | bank. Good underfoot conditions: dry floor, little impact, or sliding on undercarriage. | lightly blasted tight banks. Adverse underfoot conditions: rough floors, high impact sliding on undercarriage; and saltwater environment. |
| Depreciation Period: | 14,000 - 18,000 hours | 12,000 - 16,000 hours |
| **L10**:<br>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**:<br>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**:<br>Loaders, Front End<br>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 |

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| **L40**:<br>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**:<br>Loaders with Backhoe Crawler Type and Wheel Type | Utility applications in medium to heavy soil; occasional use of constant flow implements and dig depths to 3.05 meters (10 feet). | Production applications or digging in rock; regular use of constant flow implements; and dig depths over 3.05 meters (10 feet). |
| Depreciation Period: | 8,000 hours | 6,000 hours |
| **L60**:<br>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 |

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| **M10 - .31 and .32**:<br>Clamshell dredges<br>< 5 cy<br>Amphibious Excavator<br><br>Depreciation Period: | Gravel, silts, breakout force at less than capacity, freshwater conditions.<br><br>10,000 - 20,000 hours | Rock, abrasive materials, load at rated capacity, saltwater conditions.<br><br>9,000 - 18,000 hours |
| **M10 - .51 and .53**:<br>Boats, Skiffs, Crew Boats, Work Boats, Survey Boats, and Launches<br><br>Depreciation Period: | Freshwater applications, light waves, and steady to light use.<br><br>16,000 - 18,000 hours | Saltwater use, medium to high waves, heavy use.<br><br>13,000 - 15,000 hours |
| **P35**:<br>Pipelayers<br><br>Depreciation Period: | Typical pipelayer use in operating conditions ranging from very good to severe.<br><br>14,000 hours | Continuous use in deep mud or water or on rock surfaces.<br><br>11,500 hours |
| **R10**:<br>Rippers and Bank Slopers<br><br>Depreciation Period: | Light rock, medium breakout force required.<br><br>8,000 hours | Hard rock, excessive wear due to high breakout force.<br><br>6,500 hours |
| **S10, S15, S20, and S25**:<br>Scrapers<br>Self-Propelled<br>Tractor Drawn<br>Soil Stabilizers<br><br>Depreciation Period: | Varying loading and haul road conditions; long and short hauls; adverse and favorable grades; some impact; and typical road-building use on a variety of jobs.<br><br>10,000 - 15,000 hours | High impact conditions, such as loading ripped rock; overloading, continuous high total resistance conditions; and rough haul roads.<br><br>8,000 - 13,500 hours |

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| **T15**:<br>Tractors<br>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**:<br>Tractors<br>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**:<br>Trenchers<br>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**:<br>Truck Trailers<br>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 |

| APPENDIX C<br>GUIDE FOR SELECTING OPERATING CONDITIONS | | |
|---|---|---|
| **EQUIPMENT TYPE** | **AVERAGE** | **SEVERE** |
| **T55 and T60**:<br>Truck, Off-Highway<br>Trucks, Water, Off-Highway (Articulated and Rigid)<br><br>Depreciation Period: | 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*.<br><br>12,000 - 20,000 hours | 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.<br><br>10,000 - 18,000 hours |
| **W10 and W15**:<br>Wagons<br>Bottom Dump<br>Rear Dump<br><br>Chapter 1<br><br>Depreciation Period: | 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*.<br><br>12,000 hours | 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.<br><br>10,000 hours |

# APPENDIX D EQUIPMENT HOURLY CALCULATION FACTORS

# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A10 | 0.00 | AGGREGATE / CHIP SPREADERS | 1 | | | | | | | | | | | | | | | | | | | |
| A10 | 0.10 | SELF-PROPELLED | 10 | A | B | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.83 | 0.72 | 0.92 | 0.75 |
| A10 | 0.20 | TOWED & TAILGATE | 10 | A | B | 6,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.73 | 0.00 | 0.82 | 0.60 |
| A15 | 0.00 | AIR COMPRESSORS, PORTABLE | 1 | | | | | | | | | | | | | | | | | | | |
| A15 | 0.10 | ROTARY SCREW | 5 | A | B | 10,000 | 0.20 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.66 | 0.00 | 0.73 | 0.75 |
| A15 | 0.20 | SHOP TYPE | 5 | A | B | 12,000 | 0.15 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.65 |
| A20 | 0.00 | AIR HOSE, TOOLS & EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| A20 | 0.10 | AIR DRILL HOSE | 5 | A | B | 3,500 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.50 |
| A20 | 0.20 | SANDBLAST HOSE | 5 | A | B | 3,500 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.65 |
| A20 | 0.30 | SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS | 5 | A | B | 6,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.84 | 1.07 | 1.50 |
| A25 | 0.00 | ASPHALT PAVING DISTRIBUTORS | 10 | A | B | 6,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.96 | 0.63 | 1.07 | 0.85 |
| A30 | 0.00 | ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| A30 | 0.10 | SELF PROPELLED | 10 | A | B | 8,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.72 | 1.20 | 1.00 |
| A30 | 0.20 | TOWED | 10 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.00 | 1.20 | 0.80 |
| A30 | 0.30 | SLURRY SEAL PAVERS (Cold mix) | 10 | A | B | 12,000 | 0.20 | 60 | .600 | .054 | .029 | 13 | .130 | .012 | .006 | .000 | .100 | .100 | 1.08 | 0.71 | 1.20 | 0.55 |
| A30 | 0.40 | MISCELLANEOUS ROAD EQUIPMENT | 10 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 0.80 |
| A35 | 0.00 | ASPHALT PAVING KETTLES | 10 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 0.80 |
| A40 | 0.00 | ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS | 10 | A | B | 6,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 1.00 |
| A45 | 0.00 | ASPHALT RECYCLERS & SEALERS | 10 | A | B | 5,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.71 | 1.20 | 0.90 |
| B10 | 0.00 | BATCH PLANTS, ASPHALT & CONCRETE | 1 | | | | | | | | | | | | | | | | | | | |
| B10 | 0.10 | ASPHALT | 10 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.72 | 1.20 | 1.00 |

**EK=Economic Key (Appendix E)**
**C=Operating Conditions (A=average, S=severe)**
**DC=Discount Code (B=basic 7.5%, S=special 15%)**
**RCF=Repair Cost Factor**

**LIFE=Economic Life**
**SLV=Salvage Value**
**HPF=Horsepower Factor**

**E=Electric Powered**
**G=Gas Powered**
**D=Diesel Powered**

**FT=Front Tire**
**DT=Drive Tire**
**TT=Trailing Tire**

# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B10 | 0.20 | CONCRETE | 10 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.71 | 1.20 | 1.00 |
| B10 | 0.30 | PUGMILL | 10 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.71 | 1.20 | 1.00 |
| B15 | 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 95 | A | B | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .102 | .119 | 0.96 | 0.63 | 1.07 | 0.80 |
| B20 | 0.00 | BRUSH CHIPPERS | 95 | A | B | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.00 | 0.00 | 0.92 | 0.90 |
| B25 | 0.00 | BUCKETS, CLAMSHELL | 15 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B25 | 0.00 | BUCKETS, CLAMSHELL | 15 | S | B | 6,500 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B30 | 0.00 | BUCKETS, CONCRETE | 1 | | | | | | | | | | | | | | | | | | | |
| B30 | 0.10 | GENERAL PURPOSE, MANUAL TRIP | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B30 | 0.20 | LAYDOWN | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.75 |
| B30 | 0.30 | LOWBOY | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B30 | 0.40 | LOW SLUMP | 15 | A | B | 8,000 | 0.05 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B35 | 0.00 | BUCKETS, DRAGLINE | 1 | | | | | | | | | | | | | | | | | | | |
| B35 | 0.10 | LIGHT WEIGHT | 15 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B35 | 0.10 | LIGHT WEIGHT | 15 | S | B | 6,500 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B35 | 0.20 | MEDIUM WEIGHT | 15 | A | B | 9,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B35 | 0.20 | MEDIUM WEIGHT | 15 | S | B | 7,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| B35 | 0.30 | HEAVY WEIGHT | 15 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| B35 | 0.30 | HEAVY WEIGHT | 15 | S | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| C05 | 0.00 | CHAIN SAWS | 95 | A | B | 2,000 | 0.10 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 2.50 |
| C10 | 0.00 | COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER | 1 | | | | | | | | | | | | | | | | | | | |
| C10 | 0.10 | COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES | 95 | A | B | 4,000 | 0.05 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.20 |

**EK=Economic Key (Appendix E)**
**C=Operating Conditions (A=average, S=severe)**
**DC=Discount Code (B=basic 7.5%, S=special 15%)**
**RCF=Repair Cost Factor**

**LIFE=Economic Life**
**SLV=Salvage Value**
**HPF=Horsepower Factor**

**E=Electric Powered**
**G=Gas Powered**
**D=Diesel Powered**

**FT=Front Tire**
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# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10 0.20 | ROLLERS, VIBRATORY | 95 | A | B | 4,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.20 |
| C15 0.00 | CONCRETE CLEANERS / ABRASIVE BLASTERS | 1 | A | | | | | | | | | | | | | | | | | | |
| C15 0.10 | WALK BEHIND | 95 | A | B | 4,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| C15 0.20 | TRUCK/TRAILER MOUNTED | 95 | A | B | 8,000 | 0.20 | 95 | .950 | .086 | .045 | 50 | .500 | .045 | .024 | .000 | .136 | .119 | 0.72 | 0.66 | 0.79 | 0.90 |
| C20 0.00 | CONCRETE BUGGIES | 95 | A | B | 4,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.96 | 0.63 | 1.07 | 0.70 |
| C25 0.00 | CONCRETE FINISHERS/SCREEDS/SPREADERS | 1 | | | | | | | | | | | | | | | | | | | |
| C25 0.10 | FINISHERS/TROWELS | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| C25 0.20 | VIBRATORY SCREED | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.96 | 0.84 | 1.07 | 0.80 |
| C25 0.25 | VIBRATORY LASER SCREED | 95 | A | B | 8,000 | 0.30 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .180 | .160 | 0.96 | 0.84 | 1.07 | 0.60 |
| C25 0.30 | MATERIAL/TOPPING SPREADERS | 95 | A | B | 8,000 | 0.30 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .180 | .160 | 0.96 | 0.84 | 1.07 | 0.60 |
| C30 0.00 | CONCRETE GRINDERS | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| C35 0.00 | CONCRETE GUNITERS / SHOTCRETERS | 95 | A | B | 7,000 | 0.25 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 0.90 |
| C40 0.00 | CONCRETE MIXING UNITS | 95 | A | B | 5,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.92 | 0.80 |
| C45 0.00 | CONCRETE PAVING MACHINES | 10 | A | B | 6,000 | 0.20 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 1.08 | 0.72 | 1.20 | 1.00 |
| C55 0.00 | CONCRETE PUMPS | 95 | A | B | 8,000 | 0.10 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 1.00 |
| C60 0.00 | CONCRETE SAWS (Add cost for sawblade wear) | 95 | A | B | 6,000 | 0.10 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| C65 0.00 | CONCRETE VIBRATORS | 5 | A | B | 4,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 2.50 |
| C70 0.00 | CRANES, GANTRY & STRADDLE | 1 | | | | | | | | | | | | | | | | | | | |
| C75 0.00 | CRANES, HYDRAULIC, SELF-PROPELLED | 20 | A | B | 14,000 | 0.15 | 75 | .750 | .068 | .036 | 0 | .000 | .000 | .000 | .000 | .136 | .127 | 0.66 | 0.59 | 0.73 | 0.80 |
| C80 0.00 | CRANES, HYDRAULIC, TRUCK MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| C80 0.01 | UNDER 26 TON | 20 | A | B | 14,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .161 | .153 | 0.66 | 0.58 | 0.73 | 0.60 |
| C80 0.01 | UNDER 26 TON | 20 | S | B | 12,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .161 | .153 | 0.18 | 0.14 | 0.20 | 0.65 |
| C80 0.02 | 26 TON THRU 65 TON | 20 | A | B | 16,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.70 |

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

**LIFE=Economic Life**
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## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C80 | 0.02 | 26 TON THRU 65 TON | 20 | S | B | 14,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.75 |
| C80 | 0.03 | 66 TON THRU 125 TON | 20 | A | B | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.80 |
| C80 | 0.03 | 66 TON THRU 125 TON | 20 | S | B | 16,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.85 |
| C80 | 0.04 | OVER 125 TON | 20 | A | B | 20,000 | 0.15 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.90 |
| C80 | 0.04 | OVER 125 TON | 20 | S | B | 18,000 | 0.15 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.95 |
| C85 | 0.00 | CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| C85 | 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 20 | A | B | 14,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| C85 | 0.11 | DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY | 20 | S | B | 12,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.90 |
| C85 | 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 20 | A | B | 16,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .144 | .144 | 0.00 | 0.00 | 0.00 | 0.85 |
| C85 | 0.12 | DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY | 20 | S | B | 13,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .144 | .144 | 0.00 | 0.00 | 0.00 | 0.95 |
| C85 | 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 20 | A | B | 18,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 0.95 |
| C85 | 0.13 | DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY | 20 | S | B | 15,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 1.05 |
| C85 | 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 20 | A | B | 20,000 | 0.20 | 55 | .550 | .050 | .026 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.05 |
| C85 | 0.14 | DRAGLINE, CLAMSHELL, OVER 5.0 CY | 20 | S | B | 16,000 | 0.20 | 72 | .720 | .065 | .034 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.15 |
| C85 | 0.21 | LIFTING, 0 THRU 25 TON | 20 | A | B | 16,000 | 0.20 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.65 |
| C85 | 0.21 | LIFTING, 0 THRU 25 TON | 20 | S | B | 13,000 | 0.20 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| C85 | 0.22 | LIFTING, 26 TON THRU 50 TON | 20 | A | B | 18,000 | 0.20 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .085 | .085 | 0.00 | 0.00 | 0.00 | 0.75 |
| C85 | 0.22 | LIFTING, 26 TON THRU 50 TON | 20 | S | B | 15,000 | 0.20 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .085 | .085 | 0.00 | 0.00 | 0.00 | 0.80 |
| C85 | 0.23 | LIFTING, 51 TON THRU 150 TON | 20 | A | B | 20,000 | 0.15 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 0.85 |

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**E=Electric Powered**
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## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C85 | 0.23 | LIFTING, 51 TON THRU 150 TON | 20 | S | B | 16,000 | 0.15 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .093 | .093 | 0.00 | 0.00 | 0.00 | 0.90 |
| C85 | 0.24 | LIFTING, OVER 150 TON | 20 | A | B | 22,000 | 0.15 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.95 |
| C85 | 0.24 | LIFTING, OVER 150 TON | 20 | S | B | 18,000 | 0.15 | 52 | .520 | .047 | .025 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.00 |
| C90 | 0.00 | CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| C90 | 0.01 | UNDER 26 TON | 20 | A | B | 14,000 | 0.15 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .161 | .153 | 0.66 | 0.58 | 0.73 | 0.60 |
| C90 | 0.01 | UNDER 26 TON | 20 | S | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .161 | .153 | 0.18 | 0.14 | 0.20 | 0.65 |
| C90 | 0.02 | 26 TON THRU 65 TON | 20 | A | B | 16,000 | 0.15 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.70 |
| C90 | 0.02 | 26 TON THRU 65 TON | 20 | S | B | 14,000 | 0.15 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.75 |
| C90 | 0.03 | 66 TON THRU 125 TON | 20 | A | B | 18,000 | 0.20 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.80 |
| C90 | 0.03 | 66 TON THRU 125 TON | 20 | S | B | 16,000 | 0.20 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.85 |
| C90 | 0.04 | OVER 125 TON | 20 | A | B | 20,000 | 0.20 | 50 | .500 | .045 | .024 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.66 | 0.58 | 0.73 | 0.90 |
| C90 | 0.04 | OVER 125 TON | 20 | S | B | 18,000 | 0.20 | 65 | .650 | .059 | .031 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.18 | 0.14 | 0.20 | 0.95 |
| C95 | 0.00 | CRANES, TOWER | 20 | A | B | 18,000 | 0.20 | 65 | .650 | .059 | .031 | 10 | .100 | .009 | .005 | .530 | .127 | .110 | 0.00 | 0.00 | 0.92 | 0.85 |
| D10 | 0.00 | DRILLS, AIR/HYDRAULIC,CRWLR MTD,0" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear) | 1 | | | | | | | | | | | | | | | | | | | |
| D10 | 0.10 | DRILLS, AIR TRACK (Add cost for drill steel and bit wear) | 25 | A | B | 14,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| D10 | 0.20 | DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| D15 | 0.00 | DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| D20 | 0.00 | DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear) | 25 | A | B | 8,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .068 | .102 | 0.00 | 0.00 | 0.00 | 0.85 |

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| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D25 | 0.00 | DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .068 | .102 | 0.00 | 0.00 | 0.92 | 1.00 |
| D30 | 0.00 | DRILLS, EARTH / AUGER (Add cost for drill steel and cutting edge wear) | 25 | A | B | 10,000 | 0.25 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .477 | .136 | .119 | 0.96 | 0.86 | 1.07 | 1.00 |
| D35 | 0.00 | DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear) | 1 | | | | | | | | | | | | | | | | | | | |
| D35 | 0.11 | DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 25 | A | B | 14,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .005 | .161 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| D35 | 0.12 | DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 25 | A | B | 18,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .011 | .136 | .136 | 0.96 | 0.86 | 1.07 | 1.00 |
| D35 | 0.21 | ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear) | 25 | A | B | 14,000 | 0.20 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.55 |
| D35 | 0.22 | ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear) | 25 | A | B | 18,000 | 0.20 | 70 | .700 | .063 | .034 | 10 | .100 | .009 | .005 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.55 |
| F10 | 0.00 | FORK LIFTS | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.83 | 0.46 | 0.92 | 0.75 |
| G10 | 0.00 | GENERATOR SETS | 1 | | | | | | | | | | | | | | | | | | | |
| G10 | 0.10 | PORTABLE | 30 | A | B | 8,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.73 | 0.60 |
| G10 | 0.10 | PORTABLE | 30 | S | B | 7,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.20 | 0.70 |
| G10 | 0.20 | SKID MOUNTED | 30 | A | B | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.70 |
| G10 | 0.20 | SKID MOUNTED | 30 | S | B | 8,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| G15 | 0.00 | GRADERS, MOTOR | 35 | A | B | 14,500 | 0.25 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .085 | .144 | 0.83 | 0.54 | 0.92 | 0.75 |
| G15 | 0.00 | GRADERS, MOTOR | 35 | S | B | 13,500 | 0.25 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .085 | .144 | 0.27 | 0.16 | 0.30 | 0.85 |
| H10 | 0.00 | HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear) | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| H13 | 0.00 | HAZARDOUS/TOXIC WASTE EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |

**EK=Economic Key (Appendix E)**
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**RCF=Repair Cost Factor**

**LIFE=Economic Life**
**SLV=Salvage Value**
**HPF=Horsepower Factor**

**E=Electric Powered**
**G=Gas Powered**
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# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H13 0.11 | COMPACTORS (Compression force) 0 THRU 50 TONS | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 1.08 | 0.86 | 1.20 | 0.80 |
| H13 0.12 | COMPACTORS (Compression force) OVER 50 TONS | 95 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 1.08 | 0.86 | 1.20 | 0.90 |
| H13 0.21 | FILTER PRESSES, STATIONARY | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.90 |
| H13 0.22 | FILTER PRESSES, MOBILE | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .102 | .102 | 0.66 | 0.59 | 0.73 | 0.80 |
| H13 0.30 | CENTRIFUGES | 95 | A | B | 4,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| H13 0.40 | SHREDDERS | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.90 |
| H13 0.51 | SOIL TREATMENT PLANT, MOBILE | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.77 | 0.69 | 0.86 | 1.00 |
| H13 0.61 | SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS | 95 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| H13 0.71 | WASTE HANDLING EQUIPMENT, DRUM HANDLING | 95 | A | B | 4,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 1.00 |
| H15 0.00 | HEATERS, SPACE | 1 | | | | | | | | | | | | | | | | | | | |
| H20 0.00 | HOISTS & AIR WINCHES | 95 | A | B | 9,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 0.00 | HYDRAULIC EXCAVATORS, CRAWLER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | A | B | 8,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.70 |
| H25 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | S | B | 7,000 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | A | B | 8,500 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.70 |
| H25 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | S | B | 7,000 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.85 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | A | B | 12,000 | 0.25 | 65 | .600 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | S | B | 10,000 | 0.25 | 85 | .800 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .149 | .149 | 0.00 | 0.00 | 0.00 | 0.95 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | A | B | 16,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.00 |
| H25 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | S | B | 13,500 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.10 |
| H25 0.14 | OVER 160,000 LBS | 65 | A | B | 19,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.10 |

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# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H25 | 0.14 | OVER 160,000 LBS | 65 | S | B | 15,000 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.25 |
| H25 | 0.21 | ATTACHMENTS, MOBILE SHEARS | 95 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.90 |
| H25 | 0.22 | ATTACHMENTS, MATERIAL HANDLING | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| H25 | 0.23 | ATTACHMENTS, CONCRETE PULVERIZERS | 95 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| H25 | 0.24 | ATTACHMENTS, COMPACTORS | 95 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| H30 | 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| H30 | 0.01 | 0 THRU 1.0 CY | 65 | A | B | 8,000 | 0.25 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .149 | .141 | 0.83 | 0.54 | 0.92 | 0.50 |
| H30 | 0.01 | 0 THRU 1.0 CY | 65 | S | B | 6,500 | 0.25 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .149 | .141 | 0.25 | 0.15 | 0.28 | 0.55 |
| H30 | 0.02 | OVER 1.0 CY | 65 | A | B | 10,000 | 0.25 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .149 | .141 | 0.83 | 0.54 | 0.92 | 0.60 |
| H30 | 0.02 | OVER 1.0 CY | 65 | S | B | 8,000 | 0.25 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .149 | .141 | 0.25 | 0.15 | 0.28 | 0.65 |
| H35 | 0.00 | HYDRAULIC SHOVELS, CRAWLER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| H35 | 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | A | B | 14,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.00 |
| H35 | 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | S | B | 12,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .047 | .047 | 0.00 | 0.00 | 0.00 | 1.10 |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 65 | A | B | 16,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.20 |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 65 | S | B | 14,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .051 | .051 | 0.00 | 0.00 | 0.00 | 1.30 |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 65 | A | B | 18,000 | 0.20 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .265 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 65 | S | B | 16,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .265 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.90 |
| L10 | 0.00 | LAND CLEARING EQUIPMENT | 70 | A | B | 10,000 | 0.20 | 60 | .600 | .054 | .029 | 10 | .100 | .009 | .005 | .000 | .127 | .110 | 0.83 | 0.54 | 0.92 | 0.90 |
| L10 | 0.00 | LAND CLEARING EQUIPMENT | 70 | S | B | 7,000 | 0.20 | 78 | .780 | .070 | .037 | 13 | .130 | .012 | .006 | .000 | .127 | .110 | 0.25 | 0.15 | 0.28 | 1.00 |
| L15 | 0.00 | LANDSCAPING EQUIPMENT | 95 | A | B | 4,000 | 0.15 | 80 | .800 | .072 | .038 | 13 | .130 | .012 | .006 | .477 | .102 | .102 | 0.59 | 0.30 | 0.66 | 0.70 |
| L20 | 0.00 | LIGHTING SETS, TRAILER MOUNTED | 1 | | | | | | | | | | | | | | | | | | | |
| L20 | 0.10 | METALLIC VAPOR | 95 | A | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.66 | 0.58 | 0.73 | 1.50 |
| L25 | 0.00 | LINE STRIPING EQUIPMENT | 95 | A | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 13 | .130 | .012 | .006 | .000 | .102 | .102 | 0.66 | 0.58 | 0.73 | 1.20 |

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# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L30 | 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .119 | .119 | 0.66 | 0.58 | 0.73 | 1.00 |
| L30 | 0.00 | LOADERS, BELT (Conveyor belts) & ACCESSORIES | 95 | S | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .119 | .119 | 0.21 | 0.16 | 0.23 | 1.10 |
| L35 | 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | A | B | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .170 | .101 | 0.00 | 0.00 | 0.00 | 1.10 |
| L35 | 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | S | B | 8,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .170 | .101 | 0.00 | 0.00 | 0.00 | 1.25 |
| L40 | 0.00 | LOADERS, FRONT END, WHEEL TYPE | 1 | | | | | | | | | | | | | | | | | | | |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | A | B | 9,250 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.83 | 0.54 | 0.92 | 0.70 |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | S | B | 8,750 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.25 | 0.15 | 0.28 | 0.80 |
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 45 | A | B | 13,500 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.83 | 0.54 | 0.92 | 0.70 |
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 45 | S | B | 12,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.25 | 0.15 | 0.28 | 0.75 |
| L40 | 0.20 | SKID STEER | 45 | A | B | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.57 | 0.29 | 0.63 | 0.80 |
| L40 | 0.21 | SKID STEER ATTACHMENTS | 45 | A | B | 4,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .170 | 0.00 | 0.00 | 0.00 | 1.00 |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | A | B | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.83 | 0.54 | 0.92 | 0.85 |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | S | B | 9,250 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .111 | 0.25 | 0.15 | 0.28 | 0.90 |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | A | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.83 | 0.54 | 0.92 | 0.85 |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | S | B | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .170 | .080 | 0.25 | 0.15 | 0.28 | 0.90 |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | A | B | 8,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .441 | .524 | 0.00 | 0.00 | 0.00 | 1.35 |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | S | B | 6,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .441 | .524 | 0.00 | 0.00 | 0.00 | 1.40 |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | A | B | 10,000 | 0.25 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .000 | .441 | .441 | 0.83 | 0.54 | 0.92 | 0.80 |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | S | B | 6,000 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .441 | .441 | 0.25 | 0.15 | 0.28 | 0.85 |
| L55 | 0.00 | LOADER / BACKHOE, ATTACHMENTS | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .441 | .441 | 0.00 | 0.00 | 0.00 | 1.00 |

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## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L60 | 0.00 | LOG SKIDDERS | 75 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.83 | 0.54 | 0.92 | 0.70 |
| L60 | 0.00 | LOG SKIDDERS | 75 | S | B | 8,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.25 | 0.15 | 0.28 | 0.80 |
| M10 | 0.00 | MARINE EQUIPMENT (NON DREDGING) | 1 | | | | | | | | | | | | | | | | | | | |
| M10 | 0.11 | AQUATIC MAINTENANCE | 105 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 | 0.12 | AQUATIC MAINTENANCE ATTACHMENTS | 105 | A | B | 6,000 | 0.20 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 | 0.21 | HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS,TRANSPORTABLE | 105 | A | B | 16,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 | 0.22 | HYDRAULIC CUTTERHEAD DREDGE,8" - 12",TRANSPORTABLE | 105 | A | B | 16,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| M10 | 0.23 | HYDRAULIC AUGERHEAD DREDGE,12" OR LESS,TRANSPORTABLE | 105 | A | B | 16,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| M10 | 0.24 | HYDRAULIC FLOATING PUMPS,12" OR LESS,TRANSPORTABLE | 105 | A | B | 8,000 | 0.10 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 | 0.25 | HYDRUALIC DREDGE PUMPS,12" OR LESS,TRANSPORTABLE | 105 | A | B | 6,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 | 0.26 | HYDRAULIC DREDGE / PUMP ATTACHMENTS | 105 | A | B | 6,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 | 0.31 | SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY | 20 | A | B | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.00 |
| M10 | 0.31 | SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY | 20 | S | B | 16,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 1.05 |
| M10 | 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 65 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .161 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| M10 | 0.32 | SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS | 65 | S | B | 9,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .161 | .161 | 0.00 | 0.00 | 0.00 | 1.10 |
| M10 | 0.33 | SMALL MECH DREDGES,HOE-MOUNTED DREDGING ATTACH | 105 | A | B | 20,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |

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# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M10 0.41 | WORK FLOATS (NON-DREDGING) | 105 | A | B | 6,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |
| M10 0.42 | WORK BARGES (SECTIONAL, NON-DREDGING) | 105 | A | B | 30,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 0.45 | FLAT-DECK OR CARGO BARGE (NON-DREDGING) | 105 | A | B | 90,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.60 |
| M10 0.46 | DUMP SCOW (NON-DREDGING) | 105 | A | B | 90,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.47 | DRILL BARGE (NON-DREDGING) | 105 | A | B | 30,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.48 | ALL OTHER BARGES (NON-DREDGING) | 105 | A | B | 30,000 | 0.05 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 105 | A | B | 16,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.70 |
| M10 0.51 | BOATS & LAUNCHES, 0 THRU 250 HP | 105 | S | B | 13,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.75 |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 105 | A | B | 18,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.80 |
| M10 0.53 | BOATS & LAUNCHES, 251 THRU 500 HP | 105 | S | B | 15,000 | 0.10 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.85 |
| M10 0.54 | TUGS, 501 THRU 1,000 HP | 105 | A | B | 40,000 | 0.10 | 60 | .600 | .054 | .029 | 50 | .500 | .045 | .024 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.90 |
| M10 0.55 | TUGS, 1,000 THRU 2,000 HP | 105 | A | B | 55,000 | 0.10 | 60 | .600 | .054 | .029 | 50 | .500 | .045 | .024 | .477 | .136 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| P10 0.00 | PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS | 50 | A | B | 6,000 | 0.35 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| P20 0.00 | PILE HAMMERS, DOUBLE ACTING | 1 | | | | | | | | | | | | | | | | | | | |
| P20 0.10 | DIESEL | 50 | A | B | 6,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.10 |
| P20 0.20 | PNUEMATIC (STEAM/AIR) | 50 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.10 |
| P25 0.00 | PILE HAMMERS, SINGLE ACTING | 1 | | | | | | | | | | | | | | | | | | | |
| P25 0.10 | DIESEL | 50 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| P25 0.20 | PNUEMATIC (STEAM/AIR) | 50 | A | B | 6,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| P30 0.00 | PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY | 50 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| P35 0.00 | PIPELAYERS | 70 | A | B | 14,000 | 0.20 | 35 | .350 | .032 | .017 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.00 | 0.00 | 0.00 | 0.95 |
| P35 0.00 | PIPELAYERS | 70 | S | B | 11,500 | 0.20 | 46 | .460 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.00 | 0.00 | 0.00 | 1.10 |

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## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P40 | 0.00 | PLATFORMS & MAN-LIFTS | 20 | A | B | 8,000 | 0.10 | 50 | .500 | .045 | .024 | 50 | .500 | .045 | .024 | .477 | .136 | .119 | 0.66 | 0.33 | 0.73 | 0.80 |
| P45 | 0.00 | PUMPS, GROUT | 95 | A | B | 8,000 | 0.15 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.66 | 0.59 | 0.73 | 1.00 |
| P50 | 0.00 | PUMPS, WATER, CENTRIFUGAL, TRASH | 1 | | | | | | | | | | | | | | | | | | | |
| P50 | 0.11 | ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | 0.73 | 0.90 |
| P50 | 0.12 | ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| P50 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.66 | 0.00 | 0.73 | 0.90 |
| P50 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| P50 | 0.31 | HOSES, PUMP, SUCTION & DISCHARGE | 95 | A | B | 4,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.50 |
| P55 | 0.00 | PUMPS, WATER, SUBMERSIBLE | 1 | | | | | | | | | | | | | | | | | | | |
| P55 | 0.01 | ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 1.00 |
| P55 | 0.02 | ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| P60 | 0.00 | PUMPS, WATER, CENTRIFUGAL, DEWATERING | 1 | | | | | | | | | | | | | | | | | | | |
| P60 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.90 |
| P60 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |
| P60 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.73 | 0.90 |
| P60 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.73 | 0.50 |
| P65 | 0.00 | PUMPS, WATER, DIAPHRAGM | 1 | | | | | | | | | | | | | | | | | | | |
| P65 | 0.11 | SKID MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.90 |
| P65 | 0.12 | SKID MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |
| P65 | 0.21 | WHEEL MOUNTED, ENGINE DRIVE | 95 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.73 | 0.80 |
| P65 | 0.22 | WHEEL MOUNTED, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.15 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.73 | 0.40 |
| P70 | 0.00 | PUMPS, WATER (For core drills) | 1 | | | | | | | | | | | | | | | | | | | |
| P70 | 0.01 | ENGINE DRIVE | 95 | A | B | 8,000 | 0.25 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .161 | 0.00 | 0.00 | 0.00 | 0.80 |

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| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P70 | 0.02 | ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.25 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .477 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.40 |
| R10 | 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 70 | A | B | 8,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.90 |
| R10 | 0.00 | RIPPERS & HYDRAULIC BANK SLOPERS (Add cost for point wear) | 70 | S | B | 6,500 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.00 |
| R15 | 0.00 | ROLLERS, STATIC, TOWED, PNEUMATIC | 55 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.92 | 0.70 |
| R20 | 0.00 | ROLLERS, STATIC, TOWED, STEEL DRUM | 55 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.92 | 0.80 |
| R30 | 0.00 | ROLLERS, STATIC, SELF-PROPELLED | 1 | | | | | | | | | | | | | | | | | | | |
| R30 | 0.01 | PNEUMATIC | 55 | A | B | 8,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.83 | 0.54 | 0.92 | 0.70 |
| R30 | 0.02 | SMOOTH DRUM | 55 | A | B | 10,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| R30 | 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 55 | A | B | 12,000 | 0.20 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.80 |
| R40 | 0.00 | ROLLERS, VIBRATORY, TOWED | 55 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| R45 | 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, DOUBLE DRUM | 55 | A | B | 8,000 | 0.20 | 90 | .900 | .081 | .043 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.10 |
| R50 | 0.00 | ROLLERS, VIBRATORY, SELF-PROPELLED, SINGLE DRUM | 55 | A | B | 8,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.83 | 0.54 | 0.92 | 1.00 |
| R55 | 0.00 | ROOFING EQUIPMENT | 95 | A | B | 6,000 | 0.15 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.97 | 0.87 | 1.08 | 0.80 |
| S10 | 0.00 | SCRAPERS, ELEVATING | 1 | | | | | | | | | | | | | | | | | | | |
| S10 | 0.01 | 0 THRU 200 HP | 60 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.84 | 0.55 | 0.93 | 0.90 |
| S10 | 0.01 | 0 THRU 200 HP | 60 | S | B | 8,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .000 | .170 | 0.23 | 0.13 | 0.25 | 1.00 |
| S10 | 0.02 | OVER 200 HP | 60 | A | B | 13,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.84 | 0.55 | 0.93 | 0.95 |
| S10 | 0.02 | OVER 200 HP | 60 | S | B | 11,500 | 0.25 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.23 | 0.13 | 0.25 | 1.00 |
| S15 | 0.00 | SCRAPERS, CONVENTIONAL | 60 | A | B | 15,000 | 0.20 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.84 | 0.55 | 0.93 | 0.80 |
| S15 | 0.00 | SCRAPERS, CONVENTIONAL | 60 | S | B | 12,500 | 0.20 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .000 | .136 | 0.23 | 0.13 | 0.25 | 0.85 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S20 | 0.00 | SCRAPERS, TANDEM POWERED | 60 | A | B | 15,000 | 0.20 | 62 | .620 | .056 | .030 | 62 | .620 | .056 | .030 | .000 | .000 | .110 | 0.84 | 0.55 | 0.93 | 0.85 |
| S20 | 0.00 | SCRAPERS, TANDEM POWERED | 60 | S | B | 13,500 | 0.20 | 81 | .810 | .073 | .039 | 81 | .810 | .073 | .039 | .000 | .000 | .110 | 0.23 | 0.13 | 0.25 | 0.90 |
| S25 | 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | A | B | 12,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.84 | 0.55 | 0.93 | 0.70 |
| S25 | 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | S | B | 10,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.23 | 0.13 | 0.25 | 0.75 |
| S30 | 0.00 | SCREENING & CRUSHING PLANTS | 1 | | | | | | | | | | | | | | | | | | | |
| S30 | 0.10 | CONVEYORS | 95 | A | B | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.70 |
| S30 | 0.10 | CONVEYORS | 95 | S | B | 8,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 0.85 |
| S30 | 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 95 | A | B | 25,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 1.00 |
| S30 | 0.20 | CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR | 95 | S | B | 15,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 1.25 |
| S30 | 0.21 | CRUSHERS - CONE | 95 | A | B | 25,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 1.20 |
| S30 | 0.21 | CRUSHERS - CONE | 95 | S | B | 15,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 1.60 |
| S30 | 0.22 | CRUSHERS - JAW | 95 | A | B | 25,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.65 |
| S30 | 0.22 | CRUSHERS - JAW | 95 | S | B | 15,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 0.85 |
| S30 | 0.30 | SCREENING PLANT | 95 | A | B | 10,000 | 0.10 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 1.08 | 0.86 | 1.20 | 0.80 |
| S30 | 0.30 | SCREENING PLANT | 95 | S | B | 8,000 | 0.10 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .577 | .163 | .142 | 0.96 | 0.72 | 1.07 | 1.00 |
| S35 | 0.00 | SNOW REMOVAL EQUIPMENT | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 60 | A | B | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.84 | 0.55 | 0.96 | 0.85 |
| S40 | 0.00 | SOIL & ROAD STABILIZERS | 60 | S | B | 8,000 | 0.20 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.23 | 0.13 | 0.25 | 0.95 |
| S45 | 0.00 | SPLITTERS, ROCK & CONCRETE | 95 | A | B | 6,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .136 | 0.00 | 0.00 | 0.00 | 1.00 |
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 70 | A | B | 10,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.96 | 0.80 |

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# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T10 | 0.00 | TRACTOR BLADES & ATTACHMENTS (including agricultural) | 70 | S | B | 8,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.86 | 0.90 |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | 1 | | | | | | | | | | | | | | | | | | | |
| T15 | 0.01 | 0 THRU 225 HP | 70 | A | B | 10,000 | 0.30 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .000 | .153 | 0.00 | 0.00 | 0.00 | 1.10 |
| T15 | 0.01 | 0 THRU 225 HP | 70 | S | B | 8,000 | 0.30 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .000 | .153 | 0.00 | 0.00 | 0.00 | 1.25 |
| T15 | 0.02 | 226 HP THRU 425 HP | 70 | A | B | 12,500 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.00 | 0.00 | 0.00 | 1.20 |
| T15 | 0.02 | 226 HP THRU 425 HP | 70 | S | B | 10,500 | 0.25 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .000 | .000 | .119 | 0.00 | 0.00 | 0.00 | 1.25 |
| T15 | 0.03 | OVER 425 HP | 70 | A | B | 15,000 | 0.20 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .000 | .066 | 0.00 | 0.00 | 0.00 | 1.20 |
| T15 | 0.03 | OVER 425 HP | 70 | S | B | 12,500 | 0.20 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .000 | .066 | 0.00 | 0.00 | 0.00 | 1.35 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | A | B | 14,000 | 0.15 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.96 | 0.63 | 0.00 | 0.60 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | S | B | 13,000 | 0.15 | 78 | .780 | .070 | .037 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.25 | 0.15 | 0.00 | 0.65 |
| T25 | 0.00 | TRACTORS, AGRICULTURAL | 1 | | | | | | | | | | | | | | | | | | | |
| T25 | 0.10 | CRAWLER | 75 | A | B | 10,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.00 | 0.00 | 0.00 | 0.85 |
| T25 | 0.20 | WHEEL | 75 | A | B | 8,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.96 | 0.73 | 0.00 | 0.70 |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 80 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 1.08 | 0.82 | 0.00 | 0.90 |
| T30 | 0.00 | TRENCHERS, CHAIN TYPE CUTTER | 80 | S | B | 6,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 0.32 | 0.22 | 0.00 | 1.00 |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 80 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 1.08 | 0.82 | 0.00 | 0.90 |
| T35 | 0.00 | TRENCHERS, WHEEL TYPE CUTTER | 80 | S | B | 6,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .119 | .119 | 0.32 | 0.22 | 0.00 | 1.00 |
| T40 | 0.00 | TRUCK OPTIONS | 1 | | | | | | | | | | | | | | | | | | | |
| T40 | 0.10 | CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.80 |
| T40 | 0.20 | DUMP BODY, REAR | 95 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| T40 | 0.20 | DUMP BODY, REAR | 95 | S | B | 6,500 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |

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| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T40 | 0.30 | FLATBEDS, WITH SIDES | 95 | A | B | 8,000 | 0.20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.60 |
| T40 | 0.41 | HOIST, ELECTRIC DRIVE | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.70 |
| T40 | 0.50 | TRANSIT MIXERS | 95 | A | B | 8,000 | 0.15 | 65 | .650 | .059 | .031 | 35 | .350 | .032 | .017 | .477 | .136 | .136 | 0.77 | 0.69 | 0.86 | 0.70 |
| T40 | 0.60 | WATER TANKS | 95 | A | B | 8,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 0.00 | 0.00 | 0.00 | 0.60 |
| T40 | 0.70 | ALL OTHER OPTIONS | 95 | A | B | 8,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .136 | 1.08 | 0.86 | 1.20 | 0.70 |
| T45 | 0.00 | TRUCK TRAILERS | 1 | | | | | | | | | | | | | | | | | | | |
| T45 | 0.10 | BOTTOM DUMP | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.70 |
| T45 | 0.10 | BOTTOM DUMP | 95 | S | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.18 | 0.00 | 0.20 | 0.80 |
| T45 | 0.20 | END DUMP | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.65 |
| T45 | 0.20 | END DUMP | 95 | S | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.18 | 0.00 | 0.20 | 0.75 |
| T45 | 0.30 | PUP TRAILER | 95 | A | B | 8,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.60 |
| T45 | 0.41 | LOWBOY, RIGID NECK, DROP DECK | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| T45 | 0.50 | FLATBED TRAILER | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| T45 | 0.60 | MISCELLANEOUS / UTILITY | 95 | A | B | 10,000 | 0.10 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.50 |
| T45 | 0.70 | WATER TANKER TRAILER | 95 | A | B | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.66 | 0.92 | 0.73 | 0.60 |
| T45 | 0.80 | DECONTAMINATION FACILITY | 95 | A | B | 8,000 | 0.25 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.66 | 0.00 | 0.73 | 0.70 |
| T45 | 0.90 | TANK TRAILERS | 95 | A | B | 10,000 | 0.25 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.66 | 0.00 | 0.73 | 0.70 |
| T50 | 0.00 | TRUCKS, HIGHWAY (Add attachments as required) | 1 | | | | | | | | | | | | | | | | | | | |
| T50 | 0.01 | 0 THRU 10,000 GVW | 85 | A | S | 8,000 | 0.20 | 15 | .150 | .014 | .007 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.61 | 0.56 | 0.67 | 0.70 |
| T50 | 0.01 | 0 THRU 10,000 GVW | 85 | S | S | 6,500 | 0.20 | 20 | .200 | .018 | .010 | 0 | .000 | .000 | .000 | .000 | .119 | .102 | 0.20 | 0.16 | 0.22 | 0.75 |
| T50 | 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 85 | A | S | 10,000 | 0.20 | 35 | .350 | .032 | .017 | 0 | .000 | .000 | .000 | .000 | .127 | .110 | 0.72 | 0.66 | 0.79 | 0.65 |

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| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T50 | 0.02 | OVER 10,000 THRU 30,000 GVW (Chassis only - Add options) | 85 | S | S | 8,000 | 0.20 | 46 | .460 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .127 | .110 | 0.20 | 0.16 | 0.22 | 0.70 |
| T50 | 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 85 | A | S | 12,000 | 0.20 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.77 | 0.71 | 0.86 | 0.65 |
| T50 | 0.03 | OVER 30,000 GVW (Chassis only - Add options) | 85 | S | S | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .136 | .119 | 0.21 | 0.18 | 0.24 | 0.75 |
| T55 | 0.00 | TRUCKS, OFF-HIGHWAY | 1 | | | | | | | | | | | | | | | | | | | |
| T55 | 0.10 | RIGID FRAME | 90 | A | B | 20,000 | 0.15 | 35 | .350 | .032 | .017 | 0 | .000 | .000 | .000 | .000 | .000 | .144 | 0.84 | 0.73 | 0.93 | 0.90 |
| T55 | 0.10 | RIGID FRAME | 90 | S | B | 18,000 | 0.15 | 45 | .450 | .041 | .022 | 0 | .000 | .000 | .000 | .000 | .000 | .144 | 0.23 | 0.18 | 0.25 | 0.95 |
| T55 | 0.20 | ARTICULATED FRAME | 90 | A | B | 13,000 | 0.15 | 50 | .500 | .045 | .024 | 0 | .000 | .000 | .000 | .000 | .000 | .080 | 0.84 | 0.73 | 0.93 | 0.80 |
| T55 | 0.20 | ARTICULATED FRAME | 90 | S | B | 12,250 | 0.15 | 60 | .600 | .054 | .029 | 0 | .000 | .000 | .000 | .000 | .000 | .080 | 0.23 | 0.18 | 0.25 | 0.85 |
| T56 | 0.00 | TRUCKS,OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS | 1 | | | | | | | | | | | | | | | | | | | |
| T56 | 0.10 | PRIME MOVER TRACTORS | 90 | A | B | 20,000 | 0.15 | 40 | .400 | .036 | .019 | 0 | .000 | .000 | .000 | .000 | .102 | .144 | 0.84 | 0.64 | 0.93 | 0.90 |
| T56 | 0.10 | PRIME MOVER TRACTORS | 90 | S | B | 18,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.23 | 0.16 | 0.25 | 0.95 |
| T56 | 0.20 | WAGONS, BOTTOM DUMP | 90 | A | B | 15,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.84 | 0.64 | 0.93 | 0.65 |
| T56 | 0.20 | WAGONS, BOTTOM DUMP | 90 | S | B | 10,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.23 | 0.16 | 0.25 | 0.75 |
| T56 | 0.30 | WAGONS, REAR DUMP | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.84 | 0.65 | 0.93 | 0.60 |
| T57 | 0.00 | TRUCKS, VACUUM | 95 | A | B | 10,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.23 | 0.17 | 0.25 | 0.80 |
| T60 | 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.90 | 0.69 | 1.00 | 0.70 |
| T60 | 0.00 | TRUCKS, WATER, OFF-HIGHWAY | 90 | S | B | 10,000 | 0.20 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.25 | 0.17 | 0.28 | 0.80 |
| T65 | 0.00 | TUNNEL/MINING EQUIPMENT | 1 | | | | | | | | | | | | | | | | | | | |
| T65 | 0.10 | DRIFTING & TUNNELING DRILLS | 25 | A | B | 14,000 | 0.15 | 80 | .800 | .072 | .038 | 13 | .130 | .012 | .006 | .530 | .136 | .119 | 0.67 | 0.57 | 0.00 | 0.90 |
| T65 | 0.20 | TUNNEL BORING MACHINES | 95 | A | B | 18,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.70 |
| T65 | 0.20 | TUNNEL BORING MACHINES | 95 | S | B | 16,000 | 0.15 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.80 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T65 | 0.30 | PRODUCTION DRILLING RIGS | 25 | A | B | 12,000 | 0.15 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.90 |
| T65 | 0.40 | ROADHEADERS & CONTINUOUS MINERS | 95 | A | B | 16,000 | 0.15 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.90 |
| T65 | 0.40 | ROADHEADERS & CONTINUOUS MINERS | 95 | S | B | 14,000 | 0.15 | 91 | .910 | .082 | .044 | 0 | .000 | .000 | .000 | .530 | .000 | .000 | 0.00 | 0.00 | 0.00 | 1.00 |
| T65 | 0.50 | ROCK BOLTING EQUIPMENT | 95 | A | B | 10,000 | 0.20 | 80 | .800 | .072 | .038 | 10 | .100 | .009 | .005 | .530 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.80 |
| T65 | 0.61 | LOADING & HAULING EQUIPMENT, DIESEL OR GAS | 95 | A | B | 12,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .000 | .136 | .127 | 0.00 | 0.00 | 0.00 | 0.75 |
| T65 | 0.62 | LOADING & HAULING EQUIPMENT, ELECTRIC | 95 | A | B | 14,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .477 | .102 | .102 | 0.00 | 0.00 | 0.00 | 0.70 |
| T65 | 0.63 | LOADING & HAULING EQUIPMENT, AIR-POWERED | 95 | A | B | 10,000 | 0.25 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.65 |
| T65 | 0.70 | LOCOMOTIVES | 95 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .477 | .136 | .119 | 0.00 | 0.00 | 0.00 | 0.75 |
| T65 | 0.90 | OTHER TUNNELING EQUIPMENT | 95 | A | B | 10,000 | 0.20 | 70 | .700 | .063 | .034 | 13 | .130 | .012 | .006 | .477 | .136 | .127 | 0.00 | 0.00 | 0.00 | 0.80 |
| W10 | 0.00 | WAGONS, BOTTOM DUMP | 90 | A | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.88 | 0.67 | 0.98 | 0.65 |
| W10 | 0.00 | WAGONS, BOTTOM DUMP | 90 | S | B | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.25 | 0.17 | 0.28 | 0.75 |
| W15 | 0.00 | WAGONS, REAR DUMP | 90 | A | B | 12,000 | 0.15 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.88 | 0.77 | 0.98 | 0.60 |
| W15 | 0.00 | WAGONS, REAR DUMP | 90 | S | B | 10,000 | 0.15 | 85 | .850 | .077 | .041 | 0 | .000 | .000 | .000 | .000 | .102 | .136 | 0.25 | 0.19 | 0.28 | 0.70 |
| W25 | 0.00 | WATER & CO2 BLASTERS | 1 | | | | | | | | | | | | | | | | | | | |
| W25 | 0.10 | LOW PRESSURE, (< 5,000 PSI) | 95 | A | B | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 | .119 | 0.96 | 0.73 | 1.07 | 1.10 |
| W25 | 0.20 | HIGH PRESSURE, (>= 5,000 PSI) | 95 | A | B | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 | .119 | 0.96 | 0.73 | 1.07 | 1.20 |
| W25 | 0.30 | STEAM CLEANERS | 95 | A | B | 4,000 | 0.20 | 95 | .950 | .086 | .045 | 0 | .000 | .000 | .000 | .424 | .102 | .119 | 0.00 | 0.00 | 0.73 | 1.10 |
| W25 | 0.40 | CO2 BLASTERS | 95 | A | B | 6,000 | 0.20 | 70 | .700 | .063 | .034 | 0 | .000 | .000 | .000 | .530 | .127 | .148 | 0.00 | 0.00 | 0.73 | 1.00 |
| W25 | 0.50 | WET ABRASIVE BLASTING SYSTEM (TORBO) | 95 | A | B | 10,000 | 0.35 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | .000 | .000 | .000 | 0.00 | 0.00 | 0.73 | 0.40 |
| W30 | 0.00 | WATER TANKS | 1 | | | | | | | | | | | | | | | | | | | |
| W30 | 0.10 | PORTABLE WITH WHEELS | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.00 | 0.00 | 0.73 | 0.60 |
| W30 | 0.20 | SKID MOUNTED | 90 | A | B | 12,000 | 0.20 | 65 | .650 | .059 | .031 | 0 | .000 | .000 | .000 | .000 | .102 | .119 | 0.00 | 0.00 | 0.00 | 0.50 |

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**E=Electric Powered**
**G=Gas Powered**
**D=Diesel Powered**

**FT=Front Tire**
**DT=Drive Tire**
**TT=Trailing Tire**

# APPENDIX D
## EQUIPMENT HOURLY CALCULATION FACTORS

| CATEGORY SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | HPF | EQUIPMENT FUEL FACTORS E | G | D | HPF | CARRIER FUEL FACTORS E | G | D | FOG FACTORS E | G | D | TIRE WEAR FACTORS FT | DT | TT | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W35 0.00 | WELDERS | 1 | | | | | | | | | | | | | | | | | | | |
| W35 0.10 | ENGINE DRIVEN | 95 | A | B | 8,000 | 0.25 | 80 | .800 | .072 | .038 | 0 | .000 | .000 | .000 | .000 | .102 | .102 | 0.00 | 0.00 | 1.07 | 0.75 |
| W35 0.20 | ELECTRIC DRIVEN | 95 | A | B | 6,000 | 0.20 | 30 | .300 | .027 | .014 | 0 | .000 | .000 | .000 | .424 | .000 | .000 | 0.00 | 0.00 | 0.00 | 0.50 |

**EK=Economic Key (Appendix E)**
**C=Operating Conditions (A=average, S=severe)**
**DC=Discount Code (B=basic 7.5%, S=special 15%)**
**RCF=Repair Cost Factor**

**LIFE=Economic Life**
**SLV=Salvage Value**
**HPF=Horsepower Factor**

**E=Electric Powered**
**G=Gas Powered**
**D=Diesel Powered**

**FT=Front Tire**
**DT=Drive Tire**
**TT=Trailing Tire**

# APPENDIX E ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

# APPENDIX E

## ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

| KEY | | Note: Table 2-1 Equipment Rates are based on equipment purchased new in the year 2006 {--Projected---------} | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(EK)* | EQUIPMENT DIVISIONS | **2011** | **2010** | **2009** | **2008** | **2007** | **2006** | **2005** | **2004** | **2003** | **2002** | **2001** | **2000** | **1999** | **1998** | **1997** | **1996** | **1995** | **1994** | **1993** |
| 5 | Air Equipment | 2714 | 2655 | 2602 | 2457 | 2319 | 2234 | 2157 | 2085 | 2075 | 2069 | 2079 | 2047 | 2078 | 2074 | 2070 | 2063 | 2053 | 2012 | 2022 |
| 10 | Asphalt & Concrete Paving Equipment | 4756 | 4653 | 4557 | 4381 | 4228 | 4116 | 3950 | 3758 | 3763 | 3769 | 3766 | 3717 | 3638 | 3589 | 3490 | 3390 | 3323 | 3248 | 3189 |
| 15 | Buckets | 9362 | 9158 | 8972 | 8687 | 8604 | 8502 | 8057 | 7626 | 7443 | 7254 | 6804 | 6900 | 6982 | 6930 | 6888 | 6774 | 6672 | 6638 | 6663 |
| 20 | Cranes, Draglines & Clamshells - Crawler & Truck Mtd | 7205 | 7048 | 6905 | 6685 | 6621 | 6543 | 6201 | 5869 | 5728 | 5582 | 5236 | 5310 | 5289 | 5225 | 5116 | 5013 | 4880 | 4783 | 4736 |
| 25 | Drills | 6273 | 6137 | 6017 | 5783 | 5448 | 5104 | 4762 | 4444 | 4192 | 4116 | 3819 | 3736 | 3683 | 3626 | 3574 | 3518 | 3394 | 3320 | 3268 |
| 30 | Generators | 6099 | 5966 | 5839 | 5623 | 5357 | 5112 | 4888 | 4641 | 4566 | 4548 | 4548 | 4529 | 4520 | 4517 | 4484 | 4511 | 4457 | 4343 | 4294 |
| 35 | Graders, Motor | 7782 | 7613 | 7451 | 7152 | 6909 | 6825 | 6578 | 6318 | 6117 | 6049 | 5979 | 5952 | 5853 | 5682 | 5544 | 5466 | 5186 | 5088 | 4946 |
| 40 | Loaders, Track | 7984 | 7810 | 7636 | 7259 | 7037 | 6907 | 6653 | 6347 | 6177 | 6081 | 6058 | 6032 | 5960 | 5792 | 5686 | 5606 | 5434 | 5257 | 5068 |
| 45 | Loaders, Wheel | 7368 | 7208 | 7047 | 6699 | 6494 | 6374 | 6140 | 5857 | 5701 | 5612 | 5591 | 5567 | 5511 | 5409 | 5303 | 5251 | 5101 | 4988 | 4894 |
| 50 | Pile Driving Equipment | 6939 | 6789 | 6647 | 6377 | 6176 | 6033 | 5787 | 5450 | 5270 | 5195 | 5127 | 5112 | 5062 | 4993 | 4892 | 4809 | 4700 | 4598 | 4539 |
| 55 | Rollers | 7351 | 7191 | 7050 | 6736 | 6424 | 6145 | 5872 | 5646 | 5406 | 5285 | 5225 | 5130 | 5204 | 5092 | 5001 | 4950 | 4851 | 4719 | 4484 |
| 60 | Scrapers & Soil Stabilizers | 7782 | 7613 | 7451 | 7152 | 6909 | 6825 | 6578 | 6318 | 6117 | 6049 | 5979 | 5952 | 5853 | 5682 | 5544 | 5466 | 5186 | 5088 | 4946 |
| 65 | Shovels, Backhoes & Hydraulic Excavators | 7205 | 7048 | 6905 | 6685 | 6621 | 6543 | 6201 | 5869 | 5728 | 5582 | 5236 | 5310 | 5289 | 5225 | 5116 | 5013 | 4880 | 4783 | 4736 |
| 70 | Tractors, Crawlers & Attachments | 7984 | 7810 | 7636 | 7259 | 7037 | 6907 | 6653 | 6347 | 6177 | 6081 | 6058 | 6032 | 5960 | 5792 | 5686 | 5606 | 5434 | 5257 | 5068 |
| 75 | Tractor, Wheel | 7030 | 6877 | 6742 | 6442 | 6144 | 5876 | 5616 | 5400 | 5170 | 5055 | 4997 | 4906 | 4833 | 4695 | 4624 | 4540 | 4527 | 4484 | 4342 |
| 80 | Trenchers | 9074 | 8877 | 8702 | 8314 | 7930 | 7584 | 7248 | 6970 | 6466 | 6524 | 6450 | 6332 | 6223 | 6042 | 5833 | 5749 | 5670 | 5509 | 5207 |
| 85 | Trucks, Highway | 5570 | 5449 | 5334 | 5122 | 4965 | 4820 | 4638 | 4450 | 4356 | 4306 | 4216 | 4212 | 4307 | 4216 | 4241 | 4318 | 4293 | 4190 | 4025 |
| 90 | Trucks & Wagons - Off-Highway | 8177 | 7999 | 7844 | 7650 | 7392 | 7231 | 6896 | 6424 | 6095 | 6026 | 5931 | 5828 | 5715 | 5651 | 5581 | 5440 | 5265 | 4979 | 4837 |
| 95 | All Other Equipment | 6939 | 6789 | 6647 | 6377 | 6176 | 6033 | 5787 | 5450 | 5270 | 5195 | 5127 | 5112 | 5062 | 4993 | 4892 | 4809 | 4700 | 4598 | 4539 |
| 100 | All Tires & Tubes | 3516 | 3440 | 3382 | 3267 | 3025 | 2926 | 2759 | 2614 | 2487 | 2430 | 2401 | 2373 | 2371 | 2400 | 2431 | 2475 | 2559 | 2517 | 2525 |
| 105 | Marine Equipment | 8102 | 7926 | 7762 | 7460 | 7202 | 6905 | 6661 | 6436 | 6101 | 5846 | 5771 | 5645 | 5556 | 5513 | 5429 | 5245 | 5036 | 4951 | 4881 |

**EK = Economic Key**

# APPENDIX E
## ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

| KEY | | Note: Table 2-1 Equipment Rates are based on equipment purchased new in the year 2006 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *(EK)* | EQUIPMENT DIVISIONS | **1992** | **1991** | **1990** | **1989** | **1988** | **1987** | **1986** | **1985** | **1984** | **1983** | **1982** | **1981** | **1980** | **1979** | **1978** | **1977** | **1976** | **1975** |
| 5 | Air Equipment | 2008 | 1963 | 1956 | 1888 | 1801 | 1730 | 1720 | 1733 | 1683 | 1695 | 1668 | 1563 | 1630 | 1521 | 1354 | 1295 | 1186 | 1165 |
| 10 | Asphalt & Concrete Paving Equipment | 3092 | 3106 | 2967 | 2867 | 2793 | 2730 | 2687 | 2687 | 2611 | 2583 | 2620 | 2461 | 2296 | 2111 | 1941 | 1815 | 1686 | 1610 |
| 15 | Buckets | 6380 | 5901 | 5640 | 5314 | 4872 | 4767 | 4713 | 4640 | 4527 | 4471 | 4541 | 4313 | 3879 | 3280 | 2963 | 2738 | 2520 | 2175 |
| 20 | Cranes, Draglines & Clamshells - Crawler & Truck Mtd | 4540 | 4298 | 4152 | 3967 | 3688 | 3595 | 3485 | 3395 | 3339 | 3282 | 3213 | 3009 | 2782 | 2512 | 2301 | 2138 | 2010 | 1843 |
| 25 | Drills | 3196 | 3163 | 3069 | 2969 | 2807 | 2792 | 2786 | 2832 | 2803 | 2836 | 2810 | 2602 | 2265 | 1993 | 1858 | 1699 | 1638 | 1559 |
| 30 | Generators | 4234 | 4181 | 4116 | 3998 | 3773 | 3575 | 3514 | 3510 | 3400 | 3314 | 3236 | 3160 | 2817 | 2390 | 2301 | 2128 | 2053 | 1839 |
| 35 | Graders, Motor | 4655 | 4509 | 4359 | 4219 | 4010 | 3914 | 3759 | 3738 | 3645 | 3643 | 3561 | 3276 | 2992 | 2687 | 2492 | 2259 | 2109 | 1956 |
| 40 | Loaders, Track | 4816 | 4677 | 4555 | 4404 | 4163 | 3918 | 3770 | 3767 | 3791 | 3792 | 3655 | 3349 | 3061 | 2750 | 2482 | 2247 | 2053 | 1916 |
| 45 | Loaders, Wheel | 4758 | 4640 | 4532 | 4409 | 4235 | 4099 | 3991 | 3973 | 3944 | 3873 | 3788 | 3441 | 2938 | 2606 | 2375 | 2156 | 2002 | 1907 |
| 50 | Pile Driving Equipment | 4427 | 4305 | 4182 | 4029 | 3845 | 3745 | 3668 | 3626 | 3570 | 3519 | 3439 | 3208 | 2894 | 2562 | 2329 | 2135 | 1989 | 1852 |
| 55 | Rollers | 4460 | 4668 | 4630 | 4507 | 4412 | 4217 | 4151 | 4090 | 3926 | 3744 | 3431 | 3199 | 2913 | 2653 | 2396 | 2139 | 1983 | 1872 |
| 60 | Scrapers & Soil Stabilizers | 4655 | 4509 | 4359 | 4219 | 4010 | 3914 | 3759 | 3738 | 3645 | 3643 | 3561 | 3276 | 2992 | 2687 | 2492 | 2259 | 2109 | 1956 |
| 65 | Shovels, Backhoes & Hydraulic Excavators | 4540 | 4298 | 4152 | 3967 | 3688 | 3595 | 3485 | 3395 | 3339 | 3282 | 3213 | 3009 | 2782 | 2512 | 2301 | 2138 | 2010 | 1843 |
| 70 | Tractors, Crawlers & Attachments | 4816 | 4677 | 4555 | 4404 | 4163 | 3918 | 3770 | 3767 | 3791 | 3792 | 3655 | 3349 | 3061 | 2750 | 2482 | 2247 | 2053 | 1916 |
| 75 | Tractor, Wheel | 4270 | 4186 | 4123 | 4018 | 3936 | 3862 | 3820 | 3818 | 3656 | 3557 | 3530 | 3256 | 2927 | 2578 | 2319 | 2125 | 1956 | 1843 |
| 80 | Trenchers | 5015 | 4948 | 4886 | 4753 | 4679 | 4600 | 4586 | 4488 | 4431 | 4360 | 4097 | 3618 | 3153 | 2772 | 2580 | 2300 | 1894 | 1633 |
| 85 | Trucks, Highway | 3838 | 3669 | 3546 | 3495 | 3363 | 3299 | 3282 | 3139 | 3055 | 2934 | 2824 | 2638 | 2324 | 2108 | 1934 | 1775 | 1646 | 1524 |
| 90 | Trucks & Wagons - Off-Highway | 4797 | 4739 | 4617 | 4405 | 4094 | 3915 | 3840 | 3822 | 3786 | 3744 | 3662 | 3363 | 2964 | 2588 | 2364 | 2196 | 2081 | 1965 |
| 95 | All Other Equipment | 4427 | 4305 | 4182 | 4029 | 3845 | 3745 | 3668 | 3626 | 3570 | 3519 | 3439 | 3208 | 2894 | 2562 | 2329 | 2135 | 1989 | 1852 |
| 100 | All Tires & Tubes | 2524 | 2506 | 2470 | 2480 | 2399 | 2322 | 2340 | 2374 | 2421 | 2453 | 2552 | 2506 | 2369 | 2055 | 1792 | 1699 | 1615 | 1485 |
| 105 | Marine Equipment | 4679 | 4438 | 4271 | 4091 | 3920 | 3886 | 3863 | 3749 | 3633 | 3497 | 3391 | 3239 | 2922 | 2587 | 2352 | 2156 | 2008 | 1870 |

**EK = Economic Key**

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# APPENDIX F TIRE DESCRIPTION AND TIRE COST

# APPENDIX F
## TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (1) | COST PER EACH |
|---|---|---|---|---|---|---|
| **LT TRUCK/RECREATIONAL VEHICLE, RADIAL** | | | | | | |
| | **WORKHORSE EXTRA GRIP RADIAL** | | ***(Life = 5000 hrs )*** | | | |
| ABAA3 | | LT265/75R16 | 10.40 x 16.00 | 10 | TL | $203 |
| | **WRANGLER RADIAL AT** | | ***(Life = 5000 hrs )*** | | | |
| ABAC1 | | LT235/75R15 | 9.25 x 15.00 | 6 | TL | $147 |
| ABAC2 | | 31-1050R15 | 10.50 x 15.00 | 6 | TL | $141 |
| | **SERVICE TRAILER - MARATHON RADIAL** | | ***(Life = 5000 hrs )*** | | | |
| ABBF1 | | ST175/80R13 | 7.00 x 13.00 | 4 | TL | $81 |
| ABBF3 | | ST185/80R13 | 7.20 x 13.00 | 6 | TL | $93 |
| ABBF5 | | ST205/75R14 | 8.00 x 14.00 | 6 | TL | $106 |
| ABBF8 | | ST205/75R15 | 8.00 x 15.00 | 6 | TL | $125 |
| ABBF6 | | ST215/75R14 | 8.50 x 14.00 | 6 | TL | $112 |
| ABBF9 | | ST225/75R15 | 8.80 x 15.00 | 6 | TL | $126 |
| ABBF10 | | ST225/75R15 | 8.80 x 15.00 | 8 | TL | $139 |
| **LT TRUCK/RECREATIONAL VEHICLE, BIAS** | | | | | | |
| | **WORKHORSE RIB** | | ***(Life = 5000 hrs )*** | | | |
| ACBA2 | | 700-15LT | 8.30 x 15.00 | 8 | TL | $165 |
| ACBA7 | | 875-16.5LT | 8.80 x 16.50 | 10 | TL | $193 |
| ACBA4 | | 750-16LT | 8.90 x 16.00 | 10 | TL | $190 |
| ACBA9 | | 950-16.5LT | 9.60 x 16.50 | 10 | TL | $212 |
| | **TRACTION HI-MILER** | | ***(Life = 5000 hrs )*** | | | |
| ACBC1 | | 6.70-15LT | 7.50 x 15.00 | 6 | TL | $162 |
| ACBC3 | | 8-14.5LT | 8.00 x 14.50 | 12 | TL | $278 |
| ACBC4 | | 9-14.5LT | 9.50 x 14.50 | 12 | TL | $312 |
| | **CUSTOM HI-MILER** | | ***(Life = 5000 hrs )*** | | | |
| ACBD1 | | 12-16.5LT | 12.10 x 16.50 | 12 | TL | $621 |
| **OVER-THE-ROAD TRUCK, COMMERCIAL, RADIAL** | | | | | | |
| | **COMMERICAL RADIAL LT TRUCK** | | ***(Life = 5000 hrs )*** | | | |
| ADCA2 | | LT225/75R16 | 7.50 x 16.00 | 10 | TL | $242 |
| ADCA17 | | 8R19.5 | 8.00 x 19.50 | 10 | TL | $422 |
| ADCA18 | | 8R195 | 8.00 x 19.50 | 12 | TL | $248 |

*(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 |
|---|---|---|---|---|---|---|
| ADCA4 | | LT215/85R16 | 8.50 x 16.00 | 10 | TL | $180 |
| ADCA3 | | LT215/85R16 | 8.50 x 16.00 | 8 | TL | $197 |
| ADCA1 | | 750R16LT | 8.70 x 16.00 | 8 | TL | $174 |
| ADCA6 | | LT225/75R16 | 8.80 x 16.00 | 10 | TL | $175 |
| ADCA19 | | 225/70R195 | 8.85 x 19.50 | 12 | TL | $282 |
| ADCA8 | | LT235/85R16 | 9.25 x 16.00 | 10 | TL | $169 |
| ADCA21 | | 245/70R195 | 9.65 x 19.50 | 14 | TL | $373 |
| ADCA11 | | LT245/75R16 | 9.80 x 16.00 | 10 | TL | $185 |
| **COMMERCIAL RADIAL TRUCK TL** | | | ***(Life = 5000 hrs )*** | | | |
| ADCB2 | | 9R175 | 9.00 x 17.50 | 16 | TL | $299 |
| ADCB5 | | 9R22.5 | 9.00 x 22.50 | 12 | TL | $296 |
| ADCB3 | | 10R175 | 10.00 x 17.50 | 16 | TL | $301 |
| ADCB7 | | 10R22.5 | 10.00 x 22.50 | 14 | TL | $400 |
| ADCB4 | | 11R17.5 | 11.00 x 17.50 | 16 | TL | $389 |
| ADCB8 | | 11R22.5 | 11.00 x 22.50 | 16 | TL | $509 |
| ADCB13 | | 11R24.5 | 11.00 x 24.50 | 16 | TL | $550 |
| ADCB10 | | 12R22.5 | 12.00 x 22.50 | 16 | TL | $597 |
| ADCB14 | | 12R24.5 | 12.00 x 24.50 | 16 | TL | $614 |
| **LOW PROFILE RADIAL TRUCK TL** | | | ***(Life = 5000 hrs )*** | | | |
| ADCC1 | | 215/75R175 | 8.40 x 17.50 | 16 | TL | $269 |
| ADCC5 | | 245/75R22.5 | 9.60 x 22.50 | 14 | TL | $306 |
| ADCC3 | | 255/70R22.5 | 10.00 x 22.50 | 16 | TL | $353 |
| ADCC2 | | 265/70R19.5 | 10.40 x 19.50 | 14 | TL | $327 |
| ADCC6 | | 265/75R22.5 | 10.40 x 22.50 | 14 | TL | $372 |
| ADCC4 | | 275/70R22.5 | 10.80 x 22.50 | 16 | TL | $412 |
| ADCC12 | | 285/75R24.5 | 11.20 x 24.50 | 14 | TL | $543 |
| ADCC8 | | 295/75R22.5 | 11.60 x 22.50 | 16 | TL | $551 |
| ADCC10 | | 315/80R22.5 | 12.40 x 22.50 | 18 | TL | $596 |
| **SUPER SINGLE COMMERCIAL RADIAL TRUCK** | | | ***(Life = 5000 hrs )*** | | | |
| ADCD1 | | 385/65R22.5 | 15.10 x 22.50 | 18 | TL | $684 |
| ADCD2 | | 425/65R22.5 | 16.70 x 22.50 | 20 | TL | $769 |
| ADCD3 | | 445/65R22.5 | 17.50 x 22.50 | 20 | TL | $869 |
| **COMMERCIAL RADIAL TRUCK TT** | | | ***(Life = 5000 hrs )*** | | | |
| ADCE1 | | 825R15 | 8.25 x 15.00 | 14 | TT | $315 |
| ADCE5 | | 9.00R20 | 8.25 x 20.00 | 12 | TT | $372 |

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

# APPENDIX F
## TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE (1) | COST PER EACH |
|---|---|---|---|---|---|---|
| ADCE6 | | 9.00R20 | 9.00 x 20.00 | 12 | TT | $396 |
| ADCE3 | | 1000R15 | 10.00 x 15.00 | 14 | TT | $412 |
| ADCE7 | | 1000R20 | 10.00 x 20.00 | 14 | TT | $441 |
| ADCE13 | | 10R22.5 | 10.00 x 22.50 | 12 | TL | $440 |
| ADCE12 | | 365/80R20 | 10.40 x 20.00 | 18 | TT | $660 |
| ADCE9 | | 1100R20 | 11.00 x 20.00 | 16 | TT | $514 |
| ADCE10 | | 1100R20 | 11.00 x 20.00 | 16 | TT | $587 |
| ADCE14 | | 1100R22 | 11.00 x 22.00 | 16 | TT | $609 |
| ADCE15 | | 1100R24 | 11.00 x 24.00 | 16 | TT | $610 |
| ADCE11 | | 1200R20 | 12.00 x 20.00 | 18 | TT | $627 |
| ADCE17 | | 1200R24 | 12.00 x 24.00 | 18 | TT | $683 |
| **FARM, FRONT** | | | | | | |
| **DYNA RIB F-2-M** | | | ***(Life = 5000 hrs )*** | | | |
| AFED2 | F-2M | 1000-16 | 10.00 x 16.00 | 8 | TL | $316 |
| AFED1 | F-2M | 11L-15 | 11.00 x 15.00 | 6 | TL | $296 |
| AFED4 | F-2M | 1100-16 | 11.00 x 16.00 | 8 | TL | $418 |
| AFED8 | F-2M | 1100-24 | 11.00 x 24.00 | 12 | TL | $827 |
| AFED6 | F-2M | 14L-161 | 14.00 x 16.10 | 10 | TL | $690 |
| AFED7 | F-2M | 165L-161 | 16.50 x 16.10 | 8 | TL | $800 |
| **SINGLE RIB FRONT TRACTOR F-1** | | | ***(Life = 5000 hrs )*** | | | |
| AFEE1 | F-1 | 600-16 | 6.00 x 16.00 | 4 | TT | $180 |
| **FARM HIGHWAY SERVICE** | | | ***(Life = 5000 hrs )*** | | | |
| AFEF2 | I-1 | 95L-15FI | 9.50 x 15.00 | D | TL | $240 |
| AFEF5 | I-1 | 11L-15FI | 11.00 x 15.00 | F | TL | $314 |
| AFEF7 | I-1 | 125L-15FI | 12.50 x 15.00 | F | TL | $434 |
| **FARM UTILITY** | | | ***(Life = 5000 hrs )*** | | | |
| AFEG7 | I-1 | 750-14 | 7.50 x 14.00 | 4 | TL | $167 |
| AFEG14 | I-1 | 760-15 | 7.60 x 15.00 | 8 | TL | $187 |
| AFEG8 | I-1 | 85L-14 | 8.50 x 14.00 | 6 | TL | $173 |
| AFEG1 | I-1 | 95L-14 | 9.50 x 14.00 | 8 | TT | $163 |
| AFEG17 | I-1 | 95L-15 | 9.50 x 15.00 | 12 | TL | $247 |
| AFEG18 | I-1 | 1000-15 | 10.00 x 15.00 | 8 | TL | $255 |
| AFEG11 | I-1 | 11L-14 | 11.00 x 14.00 | 8 | TL | $194 |
| AFEG22 | I-1 | 11L-15 | 11.00 x 15.00 | 10 | TL | $271 |

*(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 |
|---|---|---|---|---|---|---|
| AFEG20 | I-1 | 11L-15 | 11.00 x 15.00 | 8 | TL | $190 |
| AFEG34 | I-1 | 11L-16 | 11.00 x 16.00 | 10 | TL | $248 |
| AFEG25 | I-1 | 125L-15 | 12.50 x 15.00 | 12 | TL | $305 |
| AFEG30 | I-1 | 125L-16 | 12.50 x 16.00 | 12 | TL | $349 |
| AFEG29 | I-1 | 125L-16 | 12.50 x 16.00 | 8 | TL | $309 |
| AFEG28 | I-1 | 14L-161 | 14.00 x 16.10 | 12 | TL | $514 |
| AFEG31 | I-1 | 165L-161 | 16.50 x 16.10 | 10 | TL | $619 |
| AFEG32 | I-1 | 19L-161 | 19.00 x 16.10 | 10 | TL | $671 |
| AFEG27 | I-1 | 215L-161 | 21.50 x 16.10 | 14 | TL | $1,063 |
| **FOUR RIB FRONT TRACTOR F-2-M** | | | ***(Life = 5000 hrs )*** | | | |
| AFEH1 | F-2M | 750-16 | 7.50 x 16.00 | 6 | TT | $196 |
| AFEH3 | F-2M | 1000-16 | 10.00 x 16.00 | 8 | TT | $280 |
| AFEH4 | F-2M | 1100-16 | 11.00 x 16.00 | 8 | TT | $326 |
| **IMPLEMENT RIB** | | | ***(Life = 5000 hrs )*** | | | |
| AFEK11 | I-1 | 400-18 | 4.00 x 18.00 | 4 | TT | $137 |
| AFEK4 | I-1 | 500-15 | 5.00 x 15.00 | 4 | TL | $138 |
| AFEK16 | I-1 | 590-15 | 5.90 x 15.00 | 4 | TL | $142 |
| AFEK6 | I-1 | 600-16 | 6.00 x 16.00 | 6 | TT | $149 |
| AFEK7 | I-1 | 650-16 | 6.50 x 16.00 | 6 | TT | $143 |
| AFEK5 | I-1 | 670-15 | 6.70 x 15.00 | 6 | TL | $153 |
| AFEK9 | I-1 | 750-16 | 7.50 x 16.00 | 10 | TT | $200 |
| AFEK10 | I-1 | 900-16 | 9.00 x 16.00 | 10 | TL | $288 |
| AFEK13 | I-1 | 900-24 | 9.00 x 24.00 | 8 | TL | $457 |
| AFEK14 | I-1 | 1125-28 | 11.25 x 28.00 | 12 | TT | $1,207 |
| **LABORER F-3** | | | ***(Life = 5000 hrs )*** | | | |
| AFEL6 | F-3 | 145/75-161 | 5.70 x 16.10 | 10 | TL | $858 |
| AFEL2 | F-3 | 11L-15 | 11.00 x 15.00 | 10 | TL | $273 |
| AFEL4 | F-3 | 11L-16 | 11.00 x 16.00 | 10 | TL | $257 |
| AFEL5 | F-3 | 11L-16 | 11.00 x 16.00 | 12 | TL | $296 |
| **MULTI-RIB F-3** | | | ***(Life = 5000 hrs )*** | | | |
| AFEM1 | F-3 | 900-10 | 9.00 x 10.00 | 10 | TT | $264 |
| TFEM2 | F-3 | 1100-16 | 11.00 x 16.00 | 12 | TL | $407 |
| **SMOOTH** | | | ***(Life = 5000 hrs )*** | | | |
| AFEN1 | I-1 | 169-30 | 16.90 x 30.00 | 6 | TL | $1,742 |

*(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 |
|---|---|---|---|---|---|---|
| **SMOOTH IMP** | | | ***(Life = 5000 hrs )*** | | | |
| AFEO1 | | 400-8 | 4.00 x 8.00 | 4 | TL | $91 |
| AFEO3 | | 600-16 | 6.00 x 16.00 | 10 | TL | $283 |
| AFEO2 | | 11L-15 | 11.00 x 15.00 | 10 | TL | $271 |
| **SOFTRAC II** | | | ***(Life = 5000 hrs )*** | | | |
| AFEP1 | I-2 | 165L-161 | 16.50 x 16.10 | 6 | TL | $742 |
| AFEP3 | I-2 | 215L-161 | 21.50 x 16.10 | 10 | TL | $1,464 |
| **SUPER RIB F-2** | | | ***(Life = 5000 hrs )*** | | | |
| TFER1 | F-2 | 400-12 | 4.00 x 12.00 | 4 | TT | $86 |
| **COMPACT UTILITY R-1** | | | ***(Life = 5000 hrs )*** | | | |
| TFES2 | | 5-12 | 5.00 x 12.00 | 4 | TL | $91 |
| AFES1 | | 7-16 | 7.00 x 16.00 | 6 | TL | $179 |
| **SURE GRIP IMPLEMENT** | | | ***(Life = 5000 hrs )*** | | | |
| AFET1 | I-3 | 105/80-18 | 10.50 x 18.00 | 10 | TL | $725 |
| AFET2 | I-3 | 125/80-18 | 12.50 x 18.00 | 10 | TL | $781 |
| **SURE GRIP LUG** | | | ***(Life = 5000 hrs )*** | | | |
| AFEU2 | I-3 | 105/80-18 | 10.50 x 18.00 | 10 | TL | $732 |
| AFEU1 | I-3 | 124-16 | 12.40 x 16.00 | 4 | TL | $631 |
| AFEU3 | I-3 | 125/80-18 | 12.50 x 18.00 | 10 | TL | $696 |
| **SURE GRIP TRACTION** | | | ***(Life = 5000 hrs )*** | | | |
| AFEV1 | I-3 | 670-15 | 6.70 x 15.00 | 4 | TT | $160 |
| AFEV5 | I-3 | 750-16 | 7.50 x 16.00 | 4 | TL | $249 |
| AFEV2 | I-3 | 750-18 | 7.50 x 18.00 | 4 | TT | $245 |
| AFEV3 | I-3 | 750-20 | 7.50 x 20.00 | 4 | TT | $291 |
| AFEV4 | I-3 | 760-15 | 7.60 x 15.00 | 6 | TL | $213 |
| **TRACTION IMPLEMENT** | | | ***(Life = 5000 hrs )*** | | | |
| AFEW1 | I-3 | 500-15 | 5.00 x 15.00 | 4 | TL | $155 |
| AFEW2 | I-3 | 590-15 | 5.90 x 15.00 | 4 | TL | $166 |
| **TRIPLE RIB HD** | | | ***(Life = 5000 hrs )*** | | | |
| AFEX8 | F-2 | 550-16 | 5.50 x 16.00 | 6 | TT | $169 |
| AFEX10 | F-2 | 600-16 | 6.00 x 16.00 | 6 | TT | $194 |
| AFEX11 | F-2 | 650-16 | 6.50 x 16.00 | 6 | TT | $170 |

*(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 |
|---|---|---|---|---|---|---|
| AFEX4 | F-2 | 75L-15 | 7.50 x 15.00 | 6 | TT | $176 |
| AFEX18 | F-2 | 750-16 | 7.50 x 16.00 | 6 | TL | $220 |
| AFEX13 | F-2 | 750-16 | 7.50 x 16.00 | 8 | TT | $216 |
| AFEX14 | F-2 | 750-18 | 7.50 x 18.00 | 6 | TT | $236 |
| AFEX5 | F-2 | 95L-15 | 9.50 x 15.00 | 8 | TT | $254 |
| AFEX16 | F-2 | 1000-16 | 10.00 x 16.00 | 8 | TL | $299 |
| AFEX6 | F-2 | 11L-15 | 11.00 x 15.00 | 8 | TT | $290 |
| AFEX17 | F-2 | 1100-16 | 11.00 x 16.00 | 8 | TL | $384 |
| **TRIPLE RIB R/S F-2** | | | ***(Life = 5000 hrs )*** | | | |
| AFEY2 | F-2 | 400-15 | 4.00 x 15.00 | 4 | TT | $118 |
| AFEY1 | F-2 | 500-15 | 5.00 x 15.00 | 4 | TT | $121 |
| **DURATORQUE R-1** | | | ***(Life = 5000 hrs )*** | | | |
| AFFU3 | R-1 | 8-16 | 8.00 x 16.00 | 6 | TL | $250 |
| **FARM, REAR** | | | | | | |
| **ALL TRACTION R-3** | | | ***(Life = 5000 hrs )*** | | | |
| AGFA1 | R-3 | 750-16 | 7.50 x 16.00 | 4 | TT | $231 |
| **ALL WEATHER R-3** | | | ***(Life = 5000 hrs )*** | | | |
| AGFB2 | R-3 | 95-24 | 9.50 x 24.00 | 4 | TT | $609 |
| AGFB7 | R-3 | 136-161 | 13.60 x 16.10 | 8 | TL | $1,030 |
| AGFB5 | R-3 | 136-28 | 13.60 x 28.00 | 6 | TT | $780 |
| AGFB3 | R-3 | 149-24 | 14.90 x 24.00 | 6 | TL | $783 |
| AGFB4 | R-3 | 169-24 | 16.90 x 24.00 | 6 | TL | $904 |
| AGFB8 | R-3 | 184-161 | 18.40 x 16.10 | 8 | TL | $1,102 |
| AGFB10 | R-3 | 184-26 | 18.40 x 26.00 | 12 | TL | $1,481 |
| AGFB11 | R-3 | 231-26 | 23.10 x 26.00 | 10 | TL | $2,209 |
| AGFB12 | R-3 | 231-26 | 23.10 x 26.00 | 12 | TL | $2,337 |
| AGFB14 | R-3 | 245-32 | 24.50 x 32.00 | 12 | TL | $3,285 |
| AGFB13 | R-3 | 28L-26 | 28.00 x 26.00 | 16 | TL | $3,118 |
| AGFB15 | R-3 | 305L-32 | 30.50 x 32.00 | 12 | TL | $3,581 |
| AGFB16 | R-3 | 305L-32 VA | 30.50 x 32.00 | 24 | TL | $5,771 |
| **DT 800 RADIAL R-1W** | | | ***(Life = 5000 hrs )*** | | | |
| AGFE1 | R-1W | 320/90R42 | 12.60 x 42.00 | 139A8 | TL | $1,748 |
| AGFE3 | R-1W | 320/90R50 | 12.60 x 50.00 | 148A8 | TL | $2,207 |

*(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 |
|---|---|---|---|---|---|---|
| AGFE2 | R-1W | 380/90R46 | 14.90 x 46.00 | 149A8 | TL | $2,482 |
| **DT 812 RADIAL R-1W** | | | ***(Life = 5000 hrs )*** | | | |
| AGFF1 | R-1W | 380/70R24 | 14.90 x 24.00 | UK | TL | $1,863 |
| AGFF2 | R-1W | 420/70R28 | 16.50 x 28.00 | UK | TL | $1,171 |
| AGFF3 | R-1W | 480/70R30 | 18.90 x 30.00 | UK | TL | $2,115 |
| **DT 820 RADIAL R-1W** | | | ***(Life = 5000 hrs )*** | | | |
| AGFG2 | R-1W | 600/65R28 | 23.60 x 28.00 | UK | TL | $2,923 |
| AGFG1 | R-1W | 620/75R26 | 24.40 x 26.00 | UK | TL | $4,648 |
| AGFG5 | R-1W | 620/70R42 | 24.40 x 42.00 | UK | TL | $3,727 |
| AGFG3 | R-1W | 650/75R34 | 25.60 x 34.00 | UK | TL | $4,625 |
| AGFG4 | R-1W | 710/70R38 | 27.90 x 38.00 | UK | TL | $3,984 |
| **DYNA TORQUE RADIAL R-1** | | | ***(Life = 5000 hrs )*** | | | |
| TGFH5 | R-1 | 320/85R34 | 12.60 x 34.00 | 132D | TL | $1,556 |
| AGFH7 | R-1 | 149R30 | 14.90 x 30.00 | X3 | TL | $1,321 |
| AGFH9 | R-1 | 149R34 | 14.90 x 34.00 | X3 | TL | $1,431 |
| AGFH15 | R-1 | 149R46 | 14.90 x 46.00 | X3 | TL | $1,490 |
| TGFH6 | R-1 | 385/85R34 | 15.20 x 34.00 | 141G | TL | $1,736 |
| AGFH16 | R-1 | 420/80R46 | 16.50 x 46.00 | UK | TL | $2,971 |
| AGFH8 | R-1 | 169R30 | 16.90 x 30.00 | X3 | TL | $1,762 |
| TGFH2 | R-1 | 184R26 | 18.40 x 26.00 | X2 | TL | $1,842 |
| AGFH10 | R-1 | 184R38 | 18.40 x 38.00 | X1 | TL | $1,320 |
| AGFH13 | R-1 | 184R42 | 18.40 x 42.00 | X2 | TL | $1,644 |
| AGFH17 | R-1 | 184R46 | 18.40 x 46.00 | X3 | TL | $1,981 |
| AGFH12 | R-1 | 208R38 | 20.80 x 38.00 | X1 | TL | $1,819 |
| AGFH14 | R-1 | 208R42 | 20.80 x 42.00 | X2 | TL | $1,925 |
| **DYNA TORQUE II R-1** | | | ***(Life = 5000 hrs )*** | | | |
| AGFJ29 | R-1 | 112-16 | 11.20 x 16.00 | 4 | TL | $375 |
| AGFJ6 | R-1 | 136-24 | 13.60 x 24.00 | 8 | TT | $843 |
| AGFJ11 | R-1 | 136-28 | 13.60 x 28.00 | 10 | TL | $937 |
| AGFJ41 | R-1 | 136-28 | 13.60 x 28.00 | 10 | TL | $937 |
| AGFJ7 | R-1 | 149-24 | 14.90 x 24.00 | 6 | TL | $721 |
| AGFJ31 | R-1 | 149-24 | 14.90 x 24.00 | 8 | TL | $737 |
| AGFJ42 | R-1 | 149-28 | 14.90 x 28.00 | 10 | TL | $1,160 |
| AGFJ8 | R-1 | 169-24 | 16.90 x 24.00 | 6 | TT | $806 |
| AGFJ39 | R-1 | 169-26 | 16.90 x 26.00 | 10 | TL | $1,479 |

*(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 |
|---|---|---|---|---|---|---|
| AGFJ43 | R-1 | 169-28 | 16.90 x 28.00 | 10 | TL | $1,495 |
| AGFJ37 | R-1 | 169-34 | 16.90 x 34.00 | 6 | TT | $1,016 |
| AGFJ23 | R-1 | 169-38 | 16.90 x 38.00 | 14 | TL | $1,951 |
| AGFJ40 | R-1 | 184-26 | 18.40 x 26.00 | 12 | TL | $1,419 |
| AGFJ18 | R-1 | 184-34 | 18.40 x 34.00 | 8 | TT | $1,166 |
| AGFJ24 | R-1 | 184-38 | 18.40 x 38.00 | 8 | TT | $1,249 |
| AGFJ19 | R-1 | 208-34 | 20.80 x 34.00 | 8 | TT | $1,816 |
| AGFJ25 | R-1 | 208-38 | 20.80 x 38.00 | 8 | TT | $1,643 |
| AGFJ27 | R-1 | 208-42 | 20.80 x 42.00 | 10 | TL | $2,422 |
| AGFJ45 | R-1 | 231-26 | 23.10 x 26.00 | 12 | TL | $2,337 |
| AGFJ20 | R-1 | 231-34 | 23.10 x 34.00 | 8 | TT | $2,203 |
| AGFJ35 | R-1 | 245-32 | 24.50 x 32.00 | 12 | TL | $2,536 |
| AGFJ34 | R-1 | 28L-26 | 28.00 x 26.00 | 12 | TL | $3,055 |
| AGFJ36 | R-1 | 305L-32 | 30.50 x 32.00 | 14 | TL | $3,665 |
| **INDUSTRIAL SURE GRIP R-4** | | | ***(Life = 5000 hrs )*** | | | |
| AGFK1 | R-4 | 169-30 | 16.90 x 30.00 | 10 | TT | $2,058 |
| AGFK3 | R-4 | 184-28 | 18.40 x 28.00 | 12 | TL | $1,295 |
| **IT510 RADIAL R4** | | | ***(Life = 5000 hrs )*** | | | |
| AGFL3 | R-4 | 195LR24 | 19.50 x 24.00 | UK | TL | $1,854 |
| **IT525 RADIAL R4** | | | ***(Life = 5000 hrs )*** | | | |
| AGFM1 | R-4 | 149-24 | 14.90 x 24.00 | 8 | TL | $871 |
| AGFM4 | R-4 | 169-24 | 16.90 x 24.00 | 10 | TL | $1,005 |
| AGFM12 | R-4 | 169-28 | 16.90 x 28.00 | 10 | TL | $1,122 |
| AGFM6 | R-4 | 175L-24 | 17.50 x 24.00 | 10 | TL | $882 |
| AGFM5 | R-4 | 184-24 | 18.40 x 24.00 | 12 | TL | $1,390 |
| AGFM7 | R-4 | 195L-24 | 19.50 x 24.00 | 10 | TL | $1,252 |
| AGFM8 | R-4 | 195L-24 | 19.50 x 24.00 | 12 | TL | $1,278 |
| AGFM9 | R-4 | 21L-24 | 21.00 x 24.00 | 12 | TL | $1,542 |
| AGFM11 | R-4 | 21L-24 | 21.00 x 24.00 | 16 | TL | $1,774 |
| AGFM14 | R-4 | 21L-28 | 21.00 x 28.00 | 14 | TL | $1,821 |
| **POWER TORQUE R-1** | | | ***(Life = 5000 hrs )*** | | | |
| AGFN1 | R-1 | 6-12 | 6.00 x 12.00 | 4 | TL | $135 |
| **SPECIAL SURE GRIP R-2-0** | | | ***(Life = 5000 hrs )*** | | | |
| AGFO2 | R-2 | 149-24 | 14.90 x 24.00 | 6 | TL | $1,463 |

*(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 |
|---|---|---|---|---|---|---|
| AGFO11 | R-2 | 184-26 | 18.40 x 26.00 | 10 | TL | $1,470 |
| AGFO8 | R-2 | 184-38 | 18.40 x 38.00 | 8 | TL | $2,057 |
| AGFO12 | R-2 | VA500/95D32 | 19.70 x 32.00 | 20 | TL | $4,124 |
| AGFO10 | R-2 | 208-38 | 20.80 x 38.00 | 8 | TL | $1,840 |
| AGFO3 | R-2 | 231-26 | 23.10 x 26.00 | 10 | TL | $2,356 |
| AGFO4 | R-2 | 28L-26 | 28.00 x 26.00 | 12 | TL | $3,279 |
| AGFO6 | R-2 | 305L-32 | 30.50 x 32.00 | 14 | TL | $4,670 |
| **SPECIAL SURE GRIP RADIAL R-2-0** | | | ***(Life = 5000 hrs )*** | | | |
| AGFP8 | R-2 | 320/90R46 | 12.60 x 46.00 | | TL | $2,101 |
| AGFP9 | R-2 | 340/85R46 | 13.40 x 46.00 | UK | TL | $2,271 |
| AGFP1 | R-2 | 169R28 | 16.90 x 28.00 | X2 | TL | $2,168 |
| AGFP2 | R-2 | 169R30 | 16.90 x 30.00 | X3 | TL | $2,373 |
| AGFP3 | R-2 | 184R38 | 18.40 x 38.00 | X1 | TL | $2,376 |
| AGFP5 | R-2 | 184R42 | 18.40 x 42.00 | X2 | TL | $2,814 |
| AGFP7 | R-2 | 184R46 | 18.40 x 46.00 | X3 | TL | $3,126 |
| AGFP4 | R-2 | 208R38 | 20.80 x 38.00 | X2 | TL | $2,930 |
| AGFP6 | R-2 | 208R42 | 20.80 x 42.00 | X2 | TL | $2,720 |
| **SUPER TRACTION RADIAL R-1W** | | | ***(Life = 5000 hrs )*** | | | |
| AGFQ3 | R-1W | 260/80R20 | 10.20 x 20.00 | 8 | TL | $551 |
| AGFQ2 | R-1W | 112R20 | 11.20 x 20.00 | UK | TL | $899 |
| AGFQ6 | R-1W | 136R28 | 13.60 x 28.00 | UK | TL | $1,733 |
| AGFQ15 | R-1W | 136R38 | 13.60 x 38.00 | UK | TL | $2,074 |
| AGFQ20 | R-1W | 149R24 | 14.90 x 24.00 | X2 | TL | $1,861 |
| AGFQ7 | R-1W | 149R28 | 14.90 x 28.00 | UK | TL | $1,909 |
| AGFQ9 | R-1W | 149R30 | 14.90 x 30.00 | UK | TL | $1,545 |
| AGFQ4 | R-1W | 169R24 | 16.90 x 24.00 | UK | TL | $2,553 |
| AGFQ5 | R-1W | 169R26 | 16.90 x 26.00 | UK | TL | $2,604 |
| AGFQ8 | R-1W | 169R28 | 16.90 x 28.00 | UK | TL | $1,873 |
| AGFQ10 | R-1W | 169R30 | 16.90 x 30.00 | UK | TL | $1,991 |
| AGFQ21 | R-1W | 169R34 | 16.90 x 34.00 | X2 | TL | $2,557 |
| AGFQ22 | R-1W | 169R38 | 16.90 x 38.00 | X2 | TT | $2,683 |
| AGFQ11 | R-1W | 184R26 | 18.40 x 26.00 | UK | TL | $1,951 |
| AGFQ12 | R-1W | 184R30 | 18.40 x 30.00 | UK | TL | $2,853 |
| AGFQ14 | R-1W | 184R34 | 18.40 x 34.00 | UK | TL | $3,053 |
| AGFQ16 | R-1W | 184R38 | 18.40 x 38.00 | UK | TL | $2,030 |
| AGFQ18 | R-1W | 184R42 | 18.40 x 42.00 | UK | TL | $2,678 |

*(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 |
|---|---|---|---|---|---|---|
| AGFQ17 | R-1W | 208R38 | 20.80 x 38.00 | UK | TL | $2,833 |
| AGFQ19 | R-1W | 208R42 | 20.80 x 42.00 | UK | TL | $2,368 |
| AGFQ13 | R-1W | 800/65R32 | 31.50 x 32.00 | UK | TL | $4,532 |
| **DURATORQUE R-1** | | | ***(Life = 5000 hrs )*** | | | |
| AGFU1 | R-1 | 149-28 | 14.90 x 28.00 | 6 | TT | $643 |
| AGFU2 | R-1 | 169-30 | 16.90 x 30.00 | 6 | TT | $902 |
| AGFU3 | R-1 | 184-30 | 18.40 x 30.00 | 8 | TT | $1,076 |
| AGFU5 | R-1 | 184-38 | 18.40 x 38.00 | 8 | TT | $1,192 |
| **FARM, TERRA - 20" UP** | | | | | | |
| **SFT105** | | | ***(Life = 5000 hrs )*** | | | |
| AHGA2 | HF-1 | 54-3100-26 | 31.00 x 26.00 | 10 | TL | $2,442 |
| **SOF TRAC** | | | ***(Life = 5000 hrs )*** | | | |
| AHGB3 | HF-1 | 38-1400-20 | 14.00 x 20.00 | 4 | TL | $626 |
| AHGB2 | HF-1 | 41-1400-20 | 14.00 x 20.00 | 4 | TL | $675 |
| AHGB1 | HF-1 | 44-1800-20 | 18.00 x 20.00 | 4 | TL | $941 |
| **SUPER TERRA GRIP** | | | ***(Life = 5000 hrs )*** | | | |
| AHGC1 | HF-2 | 38-1400-20 | 14.00 x 20.00 | 8 | TL | $768 |
| AHGC2 | HF-2 | 42-2500-20 | 25.00 x 20.00 | 8 | TL | $2,259 |
| AHGC7 | HF-2 | 54-3100-26 | 31.00 x 26.00 | 10 | TL | $6,785 |
| AHGC12 | HF-2 | 67-3400-25 | 34.00 x 25.00 | 10 | TL | $5,629 |
| AHGC11 | HF-2 | 66-4300-25 | 43.00 x 25.00 | 20 | TL | $9,219 |
| **SUPER TERRA GRIP XT** | | | ***(Life = 5000 hrs )*** | | | |
| AHGD1 | HF-3 | 42-2500-20 | 25.00 x 20.00 | 12 | TL | $3,430 |
| AHGD5 | HF-3 | 48-3100-20 | 31.00 x 20.00 | 12 | TL | $4,352 |
| AHGD6 | HF-3 | 66-4300-25 | 43.00 x 25.00 | 10 | TL | $6,269 |
| AHGD7 | HF-3 | 73-4400-32 | 44.00 x 32.00 | 16 | TL | $9,815 |
| **TUNDRA GRIP** | | | ***(Life = 5000 hrs )*** | | | |
| AHGF2 | HF-1 | 66-4400-25 | 44.00 x 25.00 | 16 | TL | $7,285 |
| AHGF1 | HF-1 | 66-4400-25 | 44.00 x 25.00 | 20 | TL | $8,106 |
| **FARM, SPECIALTY** | | | | | | |

*(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 |
|---|---|---|---|---|---|---|
| **SOFTRAC** | | | ***(Life = 5000 hrs )*** | | | |
| IJHB2 | | 18-650-8 | 6.50 x 8.00 | 4 | TL | $102 |
| TJHB3 | | 18-850-10 | 8.50 x 10.00 | 4 | TL | $109 |
| AJHB1 | HF-1 | 25-850-14 | 8.50 x 14.00 | 6 | TL | $214 |
| AJHB5 | HF-1 | 27-850-15 | 8.50 x 15.00 | 4 | TL | $217 |
| AJHB4 | HF-1 | 25-1050-15 | 10.50 x 15.00 | 4 | TL | $244 |
| AJHB6 | HF-1 | 27-1050-15 | 10.50 x 15.00 | 4 | TL | $271 |
| AJHB7 | HF-1 | 29-1250-15 | 12.50 x 15.00 | 4 | TL | $309 |
| AJHB10 | HF-1 | 31-1250-15 | 12.50 x 15.00 | 4 | TL | $311 |
| AJHB11 | HF-1 | 33-1250-15 | 12.50 x 15.00 | 4 | TL | $532 |
| AJHB8 | HF-1 | 31-1350-15 | 13.50 x 15.00 | 4 | TL | $359 |
| AJHB9 | HF-1 | 31-1550-15 | 15.50 x 15.00 | 4 | TL | $395 |
| **SUPER TERRA GRIP** | | | ***(Life = 5000 hrs )*** | | | |
| AJHC3 | HF-2 | 29-1250-15 | 12.50 x 15.00 | 6 | TL | $287 |
| AJHC6 | HF-2 | 31-1550-15 | 15.50 x 15.00 | 8 | TL | $505 |
| AJHC7 | HF-2 | 38-2000-16.1 | 20.00 x 16.00 | 8 | TL | $1,035 |
| **SURE GRIP LUG** | | | ***(Life = 5000 hrs )*** | | | |
| AJHD9 | HF-2 | 27-850-15 | 8.50 x 15.00 | 6 | TL | $244 |
| AJHD1 | | 10-165 | 10.00 x 16.50 | 6 | TL | $298 |
| AJHD10 | HF-2 | 27-1050-15 | 10.50 x 15.00 | 6 | TL | $358 |
| AJHD4 | | 12-165 | 12.00 x 16.50 | 10 | TL | $443 |
| AJHD3 | | 12-165 | 12.00 x 16.50 | 8 | TL | $394 |
| AJHD5 | I-3 | 14-175 | 14.00 x 17.50 | 10 | TL | $366 |
| AJHD7 | I-3 | 15-195 | 15.00 x 19.50 | 12 | TL | $553 |
| AJHD6 | | 15-195 | 15.00 x 19.50 | 12 | TL | $718 |
| **IT 323** | | | ***(Life = 5000 hrs )*** | | | |
| AJHE1 | | 10-165 | 10.00 x 16.50 | 8 | TL | $374 |
| AJHE3 | | 12-165 | 12.00 x 16.50 | 10 | TL | $519 |
| AJHE4 | | 31-1550-15 | 15.50 x 15.00 | 8 | TL | $930 |
| **POWER RIB** | | | ***(Life = 5000 hrs )*** | | | |
| TJHJ1 | | 18-850-8 | 8.50 x 8.00 | 4 | TL | $88 |
| IJHJ2 | | 20-1000-10 | 10.00 x 10.00 | 4 | TL | $186 |
| **RALLY** | | | ***(Life = 5000 hrs )*** | | | |
| TJHK1 | | 480-8 | 4.80 x 8.00 | 4 | TL | $43 |

*(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 |
|---|---|---|---|---|---|---|
| IJHK2 | | 18-950-8 | 9.50 x 8.00 | 4 | TL | $201 |
| **TERRA RIB** | | | ***(Life = 5000 hrs )*** | | | |
| AJHM2 | HF-1 | 25-750-15 | 7.50 x 15.00 | 6 | TL | $221 |
| AJHM4 | HF-1 | 27-950-15 | 9.50 x 15.00 | 10 | TL | $358 |
| AJHM6 | HF-1 | 31-1350-15 | 13.50 x 15.00 | 8 | TL | $465 |
| **ATV** | | | ***(Life = 5000 hrs )*** | | | |
| TJHN1 | | AT21-7-10 | 7.00 x 10.00 | X3 | TL | $69 |
| IJHN3 | | AT23-8-11 | 8.00 x 11.00 | 6 | TL | $146 |
| TJHN5 | | AT24-9-11 | 9.00 x 11.00 | 6 | TL | $145 |
| **TRACKER ATT** | | | ***(Life = 5000 hrs )*** | | | |
| IJHT1 | | AT24-8-11 | 8.00 x 11.00 | X2 | TL | $161 |
| IJHT2 | | AT24-10-11 | 10.00 x 11.00 | X2 | TL | $157 |
| **INDUSTRIAL, MINE SERVICE** | | | | | | |
| **HARD ROCK LUG MINE & INDUSTRIAL** | | | ***(Life = 5000 hrs )*** | | | |
| TKJC1 | | 10.00-20 | 10.00 x 20.00 | 18 | TT | $807 |
| **XTRA TRACTION LUG** | | | ***(Life = 5000 hrs )*** | | | |
| AKJD2 | | 8.25-15 | 8.25 x 15.00 | 16 | TT | $757 |
| AKJD3 | | 36-11x15(10.00L15) | 10.00 x 15.00 | 16 | TT | $931 |
| AKJD7 | | 24x12x12 | 12.00 x 12.00 | 24 | TL | $752 |
| AKJD6 | | 35-15x15(14.50L-15) | 14.50 x 15.00 | 32 | TL | $1,535 |
| **XTRA TRACTION GRIP** | | | ***(Life = 5000 hrs )*** | | | |
| AKJE1 | | 32x15-15 | 12.00 x 15.00 | 20 | TL | $1,202 |
| **OFF-THE-ROAD, MED & HEAVY COMMERCIAL, RADIAL** | | | | | | |
| **G-2 GRADER SERVICE - RL2F, SG2B** | | | ***(Life = 3200 hrs )*** | | | |
| AMLA1 | G2 | 14.00R24 | 14.00 x 24.00 | X1 | TL | $828 |
| **E-2 HAULAGE SERVICE - RL2F/GP2B RL2+** | | | ***(Life = 2800 hrs )*** | | | |
| AMLB1 | E/L/G3 | 17.5R25 | 17.50 x 25.00 | X1 | TL | $1,253 |
| AMLB8 | L5 | 18.00R25 | 18.00 x 25.00 | X2 | TL | $4,403 |
| AMLB2 | E/L/G3 | 20.5R25 | 20.50 x 25.00 | X1 | TL | $1,771 |
| AMLB9 | E/L/G3 | 20.5R25 | 20.50 x 25.00 | X2 | TL | $1,771 |
| AMLB5 | E/K 3T | 20.5R25 | 20.50 x 25.00 | X2 | TL | $3,143 |

*(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 |
|---|---|---|---|---|---|---|
| AMLB15 | E4 | 21.00R35 | 21.00 x 35.00 | X2 | TL | $7,384 |
| AMLB3 | E/L/G3 | 23.5R25 | 23.50 x 25.00 | X1 | TL | $2,488 |
| AMLB10 | E/L/G3 | 23.5R25 | 23.50 x 25.00 | X2 | TL | $2,659 |
| AMLB21 | E/L/G 3+T | 26.5R25 | 26.50 x 25.00 | X2 | TL | $5,530 |
| AMLB22 | E/L 3 | 29.5R25 | 29.50 x 25.00 | X2 | TL | $6,607 |
| AMLB17 | E3 | 33.25R35 | 33.25 x 35.00 | X2 | TL | $10,195 |
| AMLB23 | E3+ | 40.5/75R39 | 40.50 x 39.00 | X2 | TL | $15,305 |
| **E-3 HAULAGE SERVICE - ROCK DESIGN RL3, RL3J, R** | | | ***(Life = 2800 hrs )*** | | | |
| AMLC3 | E3+ | 18.00R33 | 18.00 x 33.00 | X2 | TL | $4,226 |
| AMLC5 | E3+ | 24.00R35 | 24.00 x 35.00 | X2 | TL | $8,329 |
| AMLC6 | E3 | 29.5R29 | 29.50 x 29.00 | X2 | TL | $7,546 |
| AMLC7 | E3 | 33.25R35 | 33.25 x 25.00 | X2 | TL | $10,195 |
| AMLC8 | E3 | 37.25R35 | 37.35 x 35.00 | X2 | TL | $12,390 |
| AMLC9 | E3 | 37.5R39 | 37.50 x 39.00 | X2 | TL | $13,690 |
| **E-4 RL4J/RL4 & RL4H/RL4 E4** | | | ***(Life = 5000 hrs )*** | | | |
| AMLD1 | E4 | 12.00R24 | 12.00 x 24.00 | X3 | TT | $1,516 |
| AMLD2 | E4 | 14.00R24 | 14.00 x 24.00 | X3 | TL | $1,661 |
| AMLD3 | E4 | 14.00R25 | 14.00 x 25.00 | X3 | TL | $1,750 |
| AMLD4 | E4 | 18.00R25 | 18.00 x 25.00 | X2 | TL | $3,722 |
| AMLD5 | E4 | 18.00R33 | 18.00 x 33.00 | X2 | TL | $5,093 |
| AMLD14 | E4 | 21.00R35 | 21.00 x 35.00 | X2 | TL | $7,384 |
| AMLD15 | E4 | 24.00R35 | 24.00 x 25.00 | X2 | TL | $9,698 |
| AMLD7 | E4 | 27.00R49 | 27.00 x 49.00 | X2 | TL | $13,602 |
| AMLD8 | E4 | 30.00R51 | 30.00 x 51.00 | X2 | TL | $17,439 |
| AMLD9 | E4 | 33.00R51 | 33.00 x 51.00 | X2 | TL | $21,535 |
| AMLD10 | E4 | 36.00R51 | 36.00 x 51.00 | X2 | TL | $24,665 |
| AMLD11 | E4 | 37.00R57 | 37.00 x 57.00 | X2 | TL | $44,480 |
| AMLD12 | E4 | 40.00R57 | 40.00 x 57.00 | X2 | TL | $45,057 |
| **MOBILE CRANE** | | | ***(Life = 5000 hrs )*** | | | |
| AMLF1 | E/L/G3 | 445/80R25 (17.5R25) | 17.50 x 25.00 | UK | TL | $2,112 |
| AMLF3 | E/L/G3 | 525/80R25 (20.5R25) | 20.60 x 25.00 | UK | TL | $1,771 |
| **L-5 DOZER & LOADER SERVICE RL5K** | | | ***(Life = 8000 hrs )*** | | | |
| AMLG1 | L5 | 20.5R25 | 20.50 x 25.00 | X1 | TL | $3,907 |
| AMLG2 | L5 | 23.5R25 | 23.50 x 25.00 | X1 | TL | $4,819 |

*(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 |
|---|---|---|---|---|---|---|
| **SPECIAL SERVICE - AT2A** | | | ***(Life = 5000 hrs )*** | | | |
| AMLH1 | E/L/G 3 | 14.00R20 | 14.00 x 20.00 | 18 | TL | $1,173 |
| AMLH3 | E/L/G 3 | 16.00R20 | 16.00 x 20.00 | 22 | TL | $1,764 |
| AMLH4 | E/L/G 3 | 16.00R21 | 16.00 x 21.00 | 22 | TL | $196 |
| AMLH2 | E/L/G3 | 17.5R25 | 17.50 x 25.00 | X1 | TL | $1,253 |
| AMLH6 | E/L/G3 | 22/65R25 | 22.00 x 25.00 | X1 | TL | $2,466 |
| **OFF-THE-ROAD, MED & HEAVY COMMERCIAL, BIAS** | | | | | | |
| **INDUSTRIAL SURE GRIP MPT** | | | ***(Life = 5000 hrs )*** | | | |
| ANMA1 | | 10.5-20 | 10.50 x 20.00 | 10 | TL | $363 |
| ANMA2 | | 12.5-20 | 12.50 x 20.00 | 10 | TL | $464 |
| **E-1 HRR 1A** | | | ***(Life = 2500 hrs )*** | | | |
| ANMB1 | E3 | 14.00-25 | 14.00 x 25.00 | 20 | TL | $1,206 |
| ANMB2 | E1 | 16.00-25 | 16.00 x 25.00 | 32 | TL | $2,154 |
| **E-2 TRACTION EARTHMOVER SURE GRIP** | | | ***(Life = 2800 hrs )*** | | | |
| ANMC3 | E7 | 18.00-25 | 18.00 x 25.00 | 16 | TL | $1,604 |
| **E-3 ROCK SERVICE HARD ROCK LUG/HRL WC** | | | ***(Life = 2800 hrs )*** | | | |
| ANME1 | E3 | 12.00-20 | 12.00 x 20.00 | 20 | TT | $883 |
| ANME2 | E3 | 12.00-24 | 12.00 x 24.00 | 16 | TT | $844 |
| ANME3 | E3 | 14.00-24 | 14.00 x 24.00 | 28 | TT | $1,583 |
| ANME4 | E3 | 14.00-25 | 14.00 x 25.00 | 20 | TL | $1,206 |
| ANME6 | E3 | 16.00-25 | 16.00 x 25.00 | 24 | TL | $1,752 |
| **E-3 ROCK SERVICE SUPER HARD ROCK LUG** | | | ***(Life = 2800 hrs )*** | | | |
| ANMF1 | L5 | 26.5-25 | 26.50 x 25.00 | 24 | TL | $5,110 |
| ANMF4 | L5 | 29.5-25 | 29.50 x 25.00 | 28 | TL | $7,064 |
| ANMF5 | L4 | 29.5-29 | 29.50 x 29.00 | 28 | TL | $6,156 |
| ANMF6 | E3 | 29.5-29 | 29.50 x 29.00 | 34 | TL | $5,778 |
| **E-3 ROCK SERVICE SHRL8** | | | ***(Life = 2800 hrs )*** | | | |
| ANMG4 | E3 | 29.5-35 | 29.50 x 35.00 | 34 | TL | $6,077 |
| ANMG1 | E3 | 33.25-29 | 33.25 x 29.00 | 26 | TL | $6,344 |
| TNMG6 | E3 | 33.25-35 | 33.25 x 35.00 | 38 | TL | $9,551 |
| ANMG7 | E3 | 37.25-35 | 37.25 x 35.00 | 36 | TL | $8,020 |
| ANMG9 | E3 | 37.5-39 | 37.50 x 39.00 | 44 | TL | $8,961 |

*(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 |
|---|---|---|---|---|---|---|
| **E-3 ROCK SERVICE ELV3A, ELV4B, ELV4/5A** | | | ***(Life = 2800 hrs )*** | | | |
| ANMH4 | IND 5S | 18.00-25 | 18.00 x 25.00 | 40 | TL | $4,768 |
| ANMH9 | IND 3 | 21.00-25 | 21.00 x 25.00 | 32 | TL | $4,544 |
| **E-3 ROCK SERVICE HRL 3F** | | | ***(Life = 2800 hrs )*** | | | |
| ANMJ2 | E3 | 33.25-35 | 33.25 x 35.00 | 32 | TL | $6,267 |
| ANMJ5 | E3 | 37.25-35 | 37.25 x 35.00 | 36 | TL | $8,016 |
| ANMJ6 | E3 | 37.5-39 | 37.50 x 39.00 | 44 | TL | $8,961 |
| **E-3 ROCK SERVICE WRL 3A** | | | ***(Life = 2800 hrs )*** | | | |
| ANML1 | E3 | 14.00-20 | 14.00 x 20.00 | 24 | TT | $1,253 |
| ANML2 | E3 | 14.00-24 | 14.00 x 24.00 | 24 | TT | $1,330 |
| **E-4 ROCK SERVICE HRL 4B** | | | ***(Life = 5000 hrs )*** | | | |
| ANMN1 | E4 | 16.00-25 | 16.00 x 25.00 | 28 | TL | $2,182 |
| ANMN3 | E4 | 18.00-33 | 18.00 x 33.00 | 32 | TL | $3,863 |
| ANMN4 | E4 | 21.00-35 | 21.00 x 35.00 | 36 | TL | $5,616 |
| ANMN5 | E4 | 24.00-35 | 24.00 x 35.00 | 36 | TL | $7,269 |
| ANMN9 | E4 | 36.00-51 | 36.00 x 51.00 | 58 | TL | $23,181 |
| **E-7 FLOTATION TYPE SAND RIB SRB 7A** | | | ***(Life = 3000 hrs )*** | | | |
| TNMQ1 | E7 | 14.00-20 | 14.00 x 20.00 | 10 | TL | $581 |
| TNMQ2 | E7 | 16.00-24 | 16.00 x 24.00 | 12 | TL | $1,510 |
| TNMQ3 | E7 | 18.00-25 | 18.00 x 25.00 | 16 | TL | $2,057 |
| **E-7 FLOTATION TYPE PAVER TIRE** | | | ***(Life = 3000 hrs )*** | | | |
| ANMR1 | E7 | 1600-24 | 16.00 x 24.00 | 12 | TL | $1,235 |
| **G-2 SGG2A** | | | ***(Life = 3200 hrs )*** | | | |
| ANMT1 | G2 | 13.00-24 | 13.00 x 24.00 | 10 | TL | $408 |
| ANMT10 | G2 | 13.00-24 | 13.00 x 24.00 | 12 | TL | $341 |
| ANMT6 | G2 | 14.00-24 | 14.00 x 24.00 | 12 | TL | $381 |
| ANMT8 | G2 | 16.00-24 | 16.00 x 24.00 | 12 | TL | $1,311 |
| **G-2 SGLDL 2A L2** | | | ***(Life = 3200 hrs )*** | | | |
| ANMV2 | L2/G2 | 15.5-25 | 15.50 x 25.00 | 12 | TL | $516 |
| ANMV3 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 12 | TL | $540 |
| ANMV4 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 16 | TL | $698 |
| ANMV5 | L2/G2 | 17.5-25 | 17.50 x 25.00 | 20 | TL | $900 |

*(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-2 SGLEL 2A ES/L2/G2** | | | ***(Life = 3200 hrs )*** | | | |
| ANMW1 | E/L/G2 | 20.5-25 | 20.50 x 25.00 | 12 | TL | $997 |
| ANMW2 | E/L/G2 | 20.5-25 | 20.50 x 25.00 | 16 | TL | $1,077 |
| ANMW4 | E/L/G2 | 23.5-25 | 23.50 x 25.00 | 12 | TL | $1,549 |
| ANMW5 | E/L/G2 | 23.5-25 | 23.50 x 25.00 | 16 | TL | $1,764 |
| **G-3 RKG 3A** | | | ***(Life = 3200 hrs )*** | | | |
| TNMX1 | G2 | 14.00-24 | 14.00 x 24.00 | 14 | TL | $826 |
| **L-2 DOZER/LOADER SERVICE TRACTION SG LUG DL** | | | ***(Life = 3200 hrs )*** | | | |
| ANNA2 | L3 | 26.5-25 | 26.50 x 25.00 | 20 | TL | $3,273 |
| **L-3 DOZER/LOADER SERVICE ROCK SERVICE E3/L3** | | | ***(Life = 3200 hrs )*** | | | |
| ANNB1 | E/L 3 | 20.5-25 | 20.50 x 25.00 | 12 | TL | $1,405 |
| ANNB2 | E/L 3 | 20.5-25 | 20.50 x 25.00 | 16 | TL | $1,445 |
| ANNB5 | E/L 3 | 23.5-25 | 23.50 x 25.00 | 16 | TL | $2,053 |
| ANNB6 | E/L 3 | 23.5-25 | 23.50 x 25.00 | 20 | TL | $2,345 |
| **L-3 DOZER/LOADER SERVICE ROCK SHRL DL** | | | ***(Life = 3200 hrs )*** | | | |
| ANNC1 | L3 | 26.5-25 | 26.50 x 25.00 | 20 | TL | $3,273 |
| ANNC3 | L4 | 29.5-25 | 29.50 x 25.00 | 28 | TL | $6,156 |
| **L-3 DOZER/LOADER SERVICE ROCK HRL DL 3A & 3F** | | | ***(Life = 3200 hrs )*** | | | |
| ANND2 | L/G3 | 17.5-25 | 17.50 x 25.00 | 12 | TL | $652 |
| ANND4 | L/G3 | 17.5-25 | 17.50 x 25.00 | 20 | TL | $1,066 |
| **L-4 DOZER/LOADER SERVICE ROCK DEEP TREAD S** | | | ***(Life = 5000 hrs )*** | | | |
| ANNE2 | L3 | 26.5-25 | 26.50 x 25.00 | 20 | TL | $3,273 |
| ANNE4 | L4 | 29.5-25 | 29.50 x 25.00 | 28 | TL | $6,156 |
| ANNE5 | E3 | 29.5-29 | 29.50 x 29.00 | 34 | TL | $5,778 |
| **L-4 DOZER/LOADER SERVICE ROCK DEEP TREAD N** | | | ***(Life = 5000 hrs )*** | | | |
| TNNG1 | L5 | 35/65-33 | 35.00 x 33.00 | 42 | TL | $13,905 |
| **L-5 DOZER/LOADER SERVICE ROCK SUPER XTRA T** | | | ***(Life = 8000 hrs )*** | | | |
| ANNL2 | L5 | 35/65-33 | 35.00 x 33.00 | 30 | TL | $10,727 |
| ANNL4 | L5 | 41.25/70-39 | 41.25 x 39.00 | 42 | TL | $16,327 |
| ANNL7 | L5 | 45/65-45 | 45.00 x 45.00 | 58 | TL | $27,141 |

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# APPENDIX F
## TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE *(1)* | COST PER EACH |
|---|---|---|---|---|---|---|
| **L-5 DOZER/LOADER SERVICE SMOOTH SMO SL5B** | | | ***(Life = 8000 hrs )*** | | | |
| ANNN3 | IND 3 | 18.00-25 | 18.00 x 25.00 | 32 | TL | $2,939 |
| **L-5 DOZER/LOADER SERVICE SMOOTH SUPER XTRA** | | | ***(Life = 8000 hrs )*** | | | |
| ANNO1 | L5S | 21.00-25 | 21.00 x 25.00 | 32 | TL | $6,527 |
| ANNO3 | L5S | 26.5-25 | 26.50 x 25.00 | 32 | TL | $6,332 |
| ANNO4 | L5S | 29.5-25 | 29.50 x 25.00 | 28 | TL | $8,199 |
| **L-5 DOZER/LOADER SERVICE SMOOTH NSM DL5B** | | | ***(Life = 8000 hrs )*** | | | |
| ANNP1 | L5 | 35/65-33 | 35.00 x 33.00 | 24 | TL | $9,813 |
| **INDUSTRIAL, SOLID** | | | | | | |
| **SOLID, HIGH PERFORMANCE, OIL RESISTANT/STATI** | | | ***(Life = 5000 hrs )*** | | | |
| IPPO5 | | 10-3-61/4 Grip | 3.00 x 10.00 | | NO | $380 |
| IPPO4 | | 10-31/2-6 | 3.50 x 10.00 | | NO | $294 |
| IPPO18 | | 12-31/2-8 | 3.50 x 12.00 | | NO | $300 |
| IPPO23 | | 13-31/2-8 | 3.50 x 13.00 | | NO | $340 |
| IPPO32 | | 15-31/2-111/4 | 3.50 x 15.00 | | NO | $322 |
| IPPO1 | | 81/2-4-4 | 4.00 x 8.50 | | NO | $371 |
| IPPO10 | | 10-4-61/2 | 4.00 x 10.00 | | NO | $256 |
| IPPO6 | | 10-4-61/4 | 4.00 x 10.00 | | NO | $299 |
| IPPO19 | | 12-4-8 | 4.00 x 12.00 | | NO | $328 |
| IPPO47 | | 161/4-4-111/4 Lug | 4.00 x 16.25 | | NO | $405 |
| IPPO30 | | 14-41/2-8 | 4.50 x 14.00 | | NO | $445 |
| IPPO40 | | 16-41/2-101/2 Lug | 4.50 x 16.00 | | NO | $483 |
| IPPO2 | | 9-5- 5 Grip | 5.00 x 9.00 | | NO | $388 |
| IPPO12 | | 10-5-61/2 | 5.00 x 10.00 | | NO | $267 |
| IPPO7 | | 10-5-61/4 | 5.00 x 10.00 | | NO | $299 |
| IPPO13 | | 101/2-5-5 | 5.00 x 10.50 | | NO | $435 |
| IPPO31 | | 14-5-10 | 5.00 x 14.00 | | NO | $408 |
| IPPO33 | | 15-5-111/4 | 5.00 x 15.00 | | NO | $393 |
| IPPO38 | | 151/2-5-10 | 5.00 x 15.50 | | NO | $457 |
| IPPO41 | | 16-5-101/2 | 5.00 x 16.00 | | NO | $505 |
| IPPO48 | | 161/4-5-111/4 | 5.00 x 16.25 | | NO | $436 |
| IPPO53 | | 17-5-121/8 | 5.00 x 17.00 | | NO | $497 |
| IPPO63 | | 18-5-14 | 5.00 x 18.00 | | NO | $444 |
| IPPO58 | | 18-5-121/8 | 5.00 x 18.00 | | NO | $528 |

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# APPENDIX F
## TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE *(1)* | COST PER EACH |
|---|---|---|---|---|---|---|
| IPPO68 | | 20-5-16 | 5.00 x 20.00 | | NO | $591 |
| IPPO73 | | 21-5-15 | 5.00 x 21.00 | | NO | $615 |
| IPPO79 | | 22-5-16 | 5.00 x 22.00 | | NO | $657 |
| IPPO8 | | 10-6-61/4 | 6.00 x 10.00 | | NO | $360 |
| IPPO14 | | 101/2-6-5 Lug | 6.00 x 10.50 | | NO | $453 |
| IPPO34 | | 15-6-111/4 Grip | 6.00 x 15.00 | | NO | $585 |
| IPPO42 | | 16-6-101/2 | 6.00 x 16.00 | | NO | $566 |
| IPPO49 | | 161/4-6-111/4 | 6.00 x 16.25 | | NO | $515 |
| IPPO59 | | 18-6-121/8 | 6.00 x 18.00 | | NO | $594 |
| IPPO69 | | 20-6-16 | 6.00 x 20.00 | | NO | $629 |
| IPPO74 | | 21-6-15 | 6.00 x 21.00 | | NO | $769 |
| IPPO80 | | 22-6-16 | 6.00 x 22.00 | | NO | $775 |
| IPPO22 | | 12-61/2-8 | 6.50 x 12.00 | | NO | $454 |
| IPPO9 | | 10-7-61/4 | 7.00 x 10.00 | | NO | $420 |
| IPPO35 | | 15-7-111/4 | 7.00 x 15.00 | | NO | $520 |
| IPPO43 | | 16-7-101/2 | 7.00 x 16.00 | | NO | $649 |
| IPPO50 | | 161/4-7-111/4 | 7.00 x 16.25 | | NO | $641 |
| IPPO60 | | 18-7-121/8 | 7.00 x 18.00 | | NO | $619 |
| IPPO70 | | 20-7-16 | 7.00 x 20.00 | | NO | $761 |
| IPPO75 | | 21-7-15 | 7.00 x 21.00 | | NO | $789 |
| IPPO81 | | 22-7-16 | 7.00 x 22.00 | | NO | $931 |
| IPPO94 | | 26-7-20 | 7.00 x 26.00 | | NO | $1,164 |
| IPPO36 | | 15-8-111/4 | 8.00 x 15.00 | | NO | $622 |
| IPPO61 | | 18-8-121/8 | 8.00 x 18.00 | | NO | $727 |
| IPPO66 | | 18-8-14 | 8.00 x 18.00 | | NO | $758 |
| IPPO71 | | 20-8-16 | 8.00 x 20.00 | | NO | $812 |
| IPPO76 | | 21-8-15 | 8.00 x 21.00 | | NO | $962 |
| IPPO82 | | 22-8-16 | 8.00 x 22.00 | | NO | $1,004 |
| IPPO37 | | 15-9-111/4 | 9.00 x 15.00 | | NO | $828 |
| IPPO67 | | 18-9-14 | 9.00 x 18.00 | | NO | $800 |
| IPPO62 | | 18-9-121/8 | 9.00 x 18.00 | | NO | $860 |
| IPPO72 | | 20-9-16 | 9.00 x 20.00 | | NO | $1,102 |
| IPPO77 | | 21-9-15 | 9.00 x 21.00 | | NO | $1,150 |
| IPPO116 | | 22-9-16 | 9.00 x 22.00 | | NO | $1,141 |
| IPPO83 | | 22-9-16 | 9.00 x 22.00 | | NO | $1,141 |
| IPPO92 | | 22-10-173/4 | 10.00 x 22.00 | | NO | $1,380 |
| IPPO84 | | 22-10-16 | 10.00 x 22.00 | | NO | $1,543 |

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# APPENDIX F
## TIRE DESCRIPTION AND TIRE COST

| EP CODE | INDUSTRY CODE | SIZE DESCRIPTION | SIZE | PLY | TUBE *(1)* | COST PER EACH |
|---|---|---|---|---|---|---|
| IPPO95 | | 28-10-22 | 10.00 x 28.00 | | NO | $1,854 |
| IPPO99 | | 36-10-30 | 10.00 x 36.00 | | NO | $1,570 |
| IPPO78 | | 21-12-15 | 12.00 x 21.00 | | NO | $1,849 |
| IPPO86 | | 22-12-16 | 12.00 x 22.00 | | NO | $1,622 |
| IPPO96 | | 28-12-22 | 12.00 x 28.00 | | NO | $2,411 |
| IPPO87 | | 22-14-16 | 14.00 x 22.00 | | NO | $1,813 |
| IPPO93 | | 22-14-173/4 | 14.00 x 22.00 | | NO | $2,096 |
| IPPO88 | | 22-16-16 | 16.00 x 22.00 | | NO | $1,998 |
| IPPO98 | | 28-16-22 | 16.00 x 28.00 | | NO | $3,423 |
| **CONVEYOR/LOADER BELTING** | | | | | | |
| **CONVEYOR BELTING (GOODYEAR EP)** | | | ***(Life = 5000 hrs )*** | | | |
| AZZA1 | | Conveyor Belting | 24.00 x 50.00 | 2 | NO | $610 |
| AZZA2 | | Conveyor Belting | 24.00 x 60.00 | 2 | NO | $731 |
| AZZA3 | | Conveyor Belting | 24.00 x 70.00 | 2 | NO | $854 |
| AZZA4 | | Conveyor Belting | 24.00 x 80.00 | 2 | NO | $975 |
| AZZA5 | | Conveyor Belting | 24.00 x 90.00 | 2 | NO | $1,098 |
| AZZA6 | | Conveyor Belting | 24.00 x 100.00 | 2 | NO | $1,219 |
| AZZA7 | | Conveyor Belting | 24.00 x 110.00 | 2 | NO | $1,341 |
| AZZA8 | | Conveyor Belting | 24.00 x 120.00 | 2 | NO | $1,463 |
| AZZA9 | | Conveyor Belting | 24.00 x 130.00 | 2 | NO | $1,585 |
| AZZA10 | | Conveyor Belting | 24.00 x 140.00 | 2 | NO | $1,707 |
| AZZA11 | | Conveyor Belting | 24.00 x 150.00 | 2 | NO | $1,829 |
| AZZA12 | | Conveyor Belting | 30.00 x 50.00 | 2 | NO | $762 |
| AZZA13 | | Conveyor Belting | 30.00 x 60.00 | 2 | NO | $914 |
| AZZA14 | | Conveyor Belting | 30.00 x 70.00 | 2 | NO | $1,067 |
| AZZA15 | | Conveyor Belting | 30.00 x 80.00 | 2 | NO | $1,219 |
| AZZA16 | | Conveyor Belting | 30.00 x 90.00 | 2 | NO | $1,372 |
| AZZA17 | | Conveyor Belting | 30.00 x 100.00 | 2 | NO | $1,524 |
| AZZA18 | | Conveyor Belting | 30.00 x 110.00 | 2 | NO | $1,677 |
| AZZA19 | | Conveyor Belting | 30.00 x 120.00 | 2 | NO | $1,829 |
| AZZA20 | | Conveyor Belting | 30.00 x 130.00 | 2 | NO | $1,981 |
| AZZA21 | | Conveyor Belting | 30.00 x 140.00 | 2 | NO | $2,134 |
| AZZA22 | | Conveyor Belting | 30.00 x 150.00 | 2 | NO | $2,286 |
| AZZA23 | | Conveyor Belting | 36.00 x 50.00 | 2 | NO | $914 |
| AZZA24 | | Conveyor Belting | 36.00 x 60.00 | 2 | NO | $1,098 |
| AZZA25 | | Conveyor Belting | 36.00 x 70.00 | 2 | NO | $1,280 |

*(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 |
|---|---|---|---|---|---|---|
| AZZA26 | | Conveyor Belting | 36.00 x 80.00 | 2 | NO | $1,463 |
| AZZA27 | | Conveyor Belting | 36.00 x 90.00 | 2 | NO | $1,646 |
| AZZA28 | | Conveyor Belting | 36.00 x 100.00 | 2 | NO | $1,829 |
| AZZA29 | | Conveyor Belting | 36.00 x 110.00 | 2 | NO | $2,012 |
| AZZA30 | | Conveyor Belting | 36.00 x 120.00 | 2 | NO | $2,195 |
| AZZA31 | | Conveyor Belting | 36.00 x 130.00 | 2 | NO | $2,378 |
| AZZA32 | | Conveyor Belting | 36.00 x 140.00 | 2 | NO | $2,560 |
| AZZA33 | | Conveyor Belting | 36.00 x 150.00 | 2 | NO | $2,743 |
| AZZA34 | | Conveyor Belting | 42.00 x 50.00 | 2 | NO | $1,067 |
| AZZA35 | | Conveyor Belting | 42.00 x 60.00 | 2 | NO | $1,280 |
| AZZA36 | | Conveyor Belting | 42.00 x 70.00 | 2 | NO | $1,493 |
| AZZA37 | | Conveyor Belting | 42.00 x 80.00 | 2 | NO | $1,707 |
| AZZA38 | | Conveyor Belting | 42.00 x 90.00 | 2 | NO | $1,921 |
| AZZA39 | | Conveyor Belting | 42.00 x 100.00 | 2 | NO | $2,134 |
| AZZA40 | | Conveyor Belting | 42.00 x 110.00 | 2 | NO | $2,347 |
| AZZA41 | | Conveyor Belting | 42.00 x 120.00 | 2 | NO | $2,560 |
| AZZA42 | | Conveyor Belting | 42.00 x 130.00 | 2 | NO | $2,774 |
| AZZA43 | | Conveyor Belting | 42.00 x 140.00 | 2 | NO | $2,988 |
| AZZA44 | | Conveyor Belting | 42.00 x 150.00 | 2 | NO | $3,201 |
| AZZA45 | | Conveyor Belting | 48.00 x 50.00 | 3 | NO | $1,458 |
| AZZA46 | | Conveyor Belting | 48.00 x 60.00 | 3 | NO | $1,750 |
| AZZA47 | | Conveyor Belting | 48.00 x 70.00 | 3 | NO | $2,042 |
| AZZA48 | | Conveyor Belting | 48.00 x 80.00 | 3 | NO | $2,333 |
| AZZA49 | | Conveyor Belting | 48.00 x 90.00 | 3 | NO | $2,625 |
| AZZA50 | | Conveyor Belting | 48.00 x 100.00 | 3 | NO | $2,917 |
| AZZA51 | | Conveyor Belting | 48.00 x 110.00 | 3 | NO | $3,209 |
| AZZA52 | | Conveyor Belting | 48.00 x 120.00 | 3 | NO | $3,501 |
| AZZA53 | | Conveyor Belting | 48.00 x 130.00 | 3 | NO | $3,791 |
| AZZA54 | | Conveyor Belting | 48.00 x 140.00 | 3 | NO | $4,083 |
| AZZA55 | | Conveyor Belting | 48.00 x 150.00 | 3 | NO | $4,375 |
| AZZA56 | | Conveyor Belting | 60.00 x 50.00 | 4 | NO | $2,862 |
| AZZA57 | | Conveyor Belting | 60.00 x 60.00 | 4 | NO | $3,434 |
| AZZA58 | | Conveyor Belting | 60.00 x 70.00 | 4 | NO | $4,007 |
| AZZA59 | | Conveyor Belting | 60.00 x 80.00 | 4 | NO | $4,580 |
| AZZA60 | | Conveyor Belting | 60.00 x 90.00 | 4 | NO | $5,153 |
| AZZA61 | | Conveyor Belting | 60.00 x 100.00 | 4 | NO | $5,725 |
| AZZA62 | | Conveyor Belting | 60.00 x 110.00 | 4 | NO | $6,297 |

*(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 |
|---|---|---|---|---|---|---|
| AZZA63 | | Conveyor Belting | 60.00 x 120.00 | 4 | NO | $6,869 |
| AZZA64 | | Conveyor Belting | 60.00 x 130.00 | 4 | NO | $7,442 |
| AZZA65 | | Conveyor Belting | 60.00 x 140.00 | 4 | NO | $8,015 |
| AZZA66 | | Conveyor Belting | 60.00 x 150.00 | 4 | NO | $8,587 |

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

# APPENDIX G TIRE LIFE AND TIRE WEAR FACTORS

## APPENDIX G
## TIRE LIFE AND TIRE WEAR FACTORS

### SECTION I. TIRE WEAR FACTORS

The tire wear factors used in this pamphlet are listed in appendix D. The "useful life" of a new tire is the product of Condition Factors (CF) from I through V, the Wheel Position Factor (WPF), the Grade Factor (GF) (for Drive Tires only) and the Miscellaneous Condition (MC). These factors provide a percentage reduction to the maximum tire life. See chapter 2 for tire cost methodology.

Condition Factors, Wheel Position Factors, Grade Factor, and Miscellaneous Condition are derived from the Caterpillar Performance Handbook.

The factors shown below are examples specifically for a rear dump wagon.

| **Condition Factors (CF):** | | **Average** | **Severe** |
|---|---|---|---|
| I. | Maintenance | 0.981 | 0.763 |
| II. | Speed | 0.872 | 0.763 |
| III. | Curves | 0.981 | 0.872 |
| IV. | Surface Condition | 0.981 | 0.763 |
| V. | Loads | 1.090 | 0.709 |
| ***CF*** | ***Product of the factors (I x II x III x IV x V)*** | **0.897** | **0.275** |
| **VI.** | **Wheel Position Factors (WPF):** | | |
| | WPF-FT Front Tire (FT) | 0.981 | 0.981 |
| | WPF-DTR Drive Tire (DT) - Rear Dump | 0.818 | 0.709 |
| | WPF-TT Trailing Tire (TT) | 1.090 | 1.090 |
| **VII.** | **Grade Factor (GF)** (Drive Tires Only) | 0.981 | 0.763 |
| **VIII.** | **Miscellaneous Condition (MC)** | 1.090 | 0.981 |

## APPENDIX G
## TIRE LIFE AND TIRE WEAR FACTORS (Continued)

**SECTION I. TIRE WEAR FACTORS** (Continued)

**Example: Final Tire Wear Factors for Wagon, Rear Dump**
**(See Appendix D, Category W15)**

| | Average | Severe |
|---|---|---|
| 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.

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# APPENDIX H MANUFACTURER LIST

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| A1 | - ALLIED-GATOR, INC. |
| A2 | - ASV INC. |
| A3 | - AMERICAN PILEDRIVING EQUIPMENT, INC. |
| A4 | - ATLAS COPCO WAGNER INC. |
| AA | - AMERICAN AUGERS, INC. |
| AB | - ALLMAND BROTHERS INC. |
| AC | - ACE ENTERPRISES |
| AD | - ACKER DRILL COMPANY INC. |
| AE | - 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. |

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| AY | - KOMLINE-SANDERSON ENGINEERING CO. |
| AZ | - ALLIS-CHALMERS CORP. |
| BA | - BADGER EQUIPMENT CO. |
| BB | - BASCO |
| BC | - BOCK 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. |
| C1 | - COYOTE LOADER SALES, INC. |
| C2 | - CARELIFT EQUIPMENT |
| C3 | - TIME CONDOR CORPORATION |
| C4 | - CATERPILLAR LIFT TRUCKS, |
| C5 | - Construction Equipment Company |

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| CA | - CATERPILLAR INC. ( MACHINE DIVISION) |
| CB | - CONSOLIDATED BALING MACHINE COMPANY, INC |
| CC | - CEMEN TECH |
| CD | - CDS GROUP |
| CE | - ATHEY PRODUCTS CORPORATION |
| CF | - CGR COMPACTING |
| CG | - CHEMGROUT, INC. |
| CH | - CHAMPION ROAD MACHINERY-PRO PAV (WIRTGEN |
| CI | - CHIPMORE MANUFACTURING CO., INC. |
| CJ | - COLD JET |
| CK | - CHICAGO PNEUMATIC TOOL CO. |
| CL | - CON-E-CO |
| CM | - CLEMCO INDUSTRIES CORPORATION |
| CN | - CEMEN TECH, INC. |
| CO | - WASTE CONTROL SYSTEMS, INC. |
| CP | - CRISAFULLI PUMP |
| CQ | - CUSHION CUT, INC. |
| CR | - CAMLEVER |
| CS | - CASE CORPORATION |
| CT | - CLEVELAND TRENCHER |
| 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. |
| DD | - DELTA DREDGE & PUMP CORP. |

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| 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. |
| DO | - DOSCO CORPORATION |
| DR | - DRESSER MINING EQUIPMENT |
| DS | - DREDGING SUPPLY COMPANY (DSC) |
| DT | - DRILTECH, INC. (SANDVIK) |
| DW | - DITCH WITCH(The Charles Machine Works)I |
| 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. |
| EZ | - E-Z DRILL, INC. |
| FC | - FERMEC NORTH AMERICA LTD., A TEREX CO. |
| FE | - FELKER (TARGET) |

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| 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. |
| 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 |
| GT | - GILCREST EQUIPMENT COMPANY |
| GV | - GROVE CRANES (MANITOWOC) |
| GW | - GROVE MANLIFT (JLG) |
| HA | - HAZCO SERVICES, INC. |

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| HB | - HAWCO MANUFACTURING COMPANY, LLC |
| HC | - HAMM COMPACTORS, INC. |
| HD | - HYDRAULIC POWER SYSTEMS, INC. |
| HE | - HENDRIX MANUFACTURING COMPANY, INC. |
| HF | - HYDRA-MAC INTERNATIONAL, INC. |
| 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 |
| HW | - HEWITT-ROBINS |
| HY | - HYSTER CO. |
| HZ | - HOFFCO-COMET |
| IA | - INGERSOLL RAND ROTARY-REC COMPRESSOR DIV |
| IB | - INGERSOLL RAND ROTARY DRILL DIV |
| IC | - INTERNATIONAL CONSTRUCTION EQUIPMENT,INC |
| ID | - KOMATSU DRESSER |
| IE | - IDEAL MANUFACTURING, INC. |
| IF | - INGERSOLL RAND PORTABLE COMPRESSOR DIV |
| IG | - INGRAM COMPACTING, LLC |
| IH | - NAVISTAR INTERNATIONAL TRANSPORTATION |
| IM | - INNOVATIVE MATERIAL SYSTEMS, INC. (IMS) |
| IN | - INGERSOLL RAND CO. |
| IP | - INGERSOLL RAND ROAD MACHINERY DIV |

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| 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. |
| KM | - Komatsu America International Company |
| KN | - KENT DEMOLITION TOOLS |
| KO | - KOEHRING CRANES, INC. |
| KP | - KOCH-WATER |
| KR | - KORI CORPORATION |
| KU | - KUBOTA TRACTOR CORPORATION |

# APPENDIX H
## MANUFACTURER LIST

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

# APPENDIX H
## MANUFACTURER LIST

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

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| 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 DISTRIBUTION LTD |
| RA | - METSO MINERALS |
| RC | - JOHNSON-ROSS (TEREX ROADBUILDING) |
| RD | - REEDRILL (TEREX) |
| RE | - NORSTAR PRODUCTS INTERNATIONAL, INC. |
| RI | - REYNOLDS INTERNATIONAL, L.P. |
| RK | - RAPID MIX |
| RM | - ROME PLOW CO. |
| RN | - ALLIED SYSTEMS COMPANY (RANGER) |

# APPENDIX H
## MANUFACTURER LIST

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

# APPENDIX H
## MANUFACTURER LIST

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

# APPENDIX H
## MANUFACTURER LIST

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

# APPENDIX H
## MANUFACTURER LIST

| CODE | MANUFACTURER |
|---|---|
| WT | - WIRTGEN AMERICAN, INC. |
| XX | - NO SPECIFIC MANUFACTURER |
| YA | - YANMAR DIESEL AMERICA CORP. |
| YB | - ADVANCED ENVIRONMENTAL SOLUTIONS |
| ZZ | - GENERIC EQUIPMENT |

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# APPENDIX I FEDERAL COST-OF-MONEY RATE

# APPENDIX I

## FEDERAL COST-OF-MONEY RATE

***(Renegotiation or Prompt Payment Rate)***

| EFFECTIVE MONTHS | EFFECTIVE DATE | RATE |
|---|---|---|
| JULY - DECEMBER | 7/1/1994 | 7.000% |
| JANUARY - JUNE | 1/1/1995 | 8.125% |
| JULY - DECEMBER | 7/1/1995 | 6.375% |
| JANUARY - JUNE | 1/1/1996 | 5.875% |
| JULY - DECEMBER | 7/1/1996 | 7.000% |
| JANUARY - JUNE | 1/1/1997 | 6.375% |
| JULY - DECEMBER | 7/1/1997 | 6.750% |
| JANUARY - JUNE | 1/1/1998 | 6.250% |
| JULY - DECEMBER | 7/1/1998 | 6.000% |
| 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% |

# APPENDIX J EQUIPMENT ACCESSORIES

# 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** |
| | Power load lowering |
| | Third drum |

| CAT SUB | DESCRIPTION |
|---|---|
| | Mechanical outriggers with screw jacks |
| | Maximum boom length at 360 degrees rating |
| **C90.01** | **TRUCK CRANES - LESS THAN 25 TONS** (Continued) |
| | Counterweight (standard) |
| | Fire extinguisher 5-B:C |
| | Swing and reverse signal (backup) alarm |
| | Boom angle indicator and a load-indicating device |
| | Drum rotation indicators |
| | Anti-two block (upper limit) devices |
| | Manufacturers mandatory accessories |
| **C90.02** | **TRUCK CRANE - 25 TONS AND LARGER** |
| **C90.03** | Power load lowering |
| **C90.04** | Third drum |
| | Hydraulic outriggers with screw jacks |
| | Torque converter when available (upper only) |
| | Maximum boom length at 360 degrees rating |
| | Counterweight (standard) |
| | Fire extinguisher 5-B:C |
| | Reverse signal (backup) alarm |
| | Boom angle indicator and a load-indicating device |
| | Drum rotation indicators |
| | Anti-two block (upper limit) devices |
| | Hook block on machines larger than 100 tons |
| **G15** | **GRADER** |
| | Rollover protective structures (ROPS) with enclosed cab |
| | Ripper/scarifier, rear mounted |
| | Front wheel lean |
| | Power circle |
| | Hydraulic shift and tilt moldboard |
| | End bits |
| | Standard work lights |
| | Fire extinguisher 5-B:C |
| | Reverse signal (backup) alarm |
| **H25** | **EXCAVATORS, HYDRAULIC** |
| **H30** | Backhoe bucket (standard) |
| | Backhoe stick (medium length) |
| | Backhoe boom (one piece) |
| | Backhoe bucket linkage (with cylinder) |
| | Guards |

| CAT SUB | DESCRIPTION |
|---|---|
| | Counterweight<br>Standard work lights<br>Reverse signal (backup) alarm<br>ROPS<br>Fire extinguisher 5-B:C |
| **H35** | **HYDRAULIC SHOVELS - CRAWLER MOUNTED**<br>Torque converter (machines 1 1/2 cy or larger)<br>Counterweight<br>Reverse signal (backup) alarm<br>ROPS<br>Fire extinguisher 5-B:C |
| **L30** | **LOADERS, BELT (CONVEYOR BELTS)**<br>Power unit<br>Head pulley clutch and backstop<br>Belt cleaner and belt installing equipment<br>King pin attachments |
| **L35**<br>**L40** | **LOADERS, 1 1/2 cy AND LARGER**<br>Blower fan<br>Guard, power train<br>Automatic bucket positioner<br>Standard counterweight<br>Machines less than 7 cy: General purpose or excavating bucket with bolt on cutting edge and no teeth<br>Machines 7 cy or larger: Rock bucket with bolt on cutting edge and teeth<br>Standard work lights<br>Reverse signal (backup) alarm<br>ROPS<br>Fire extinguisher 5-B:C |
| **S10**<br>**S15**<br>**S20** | **SCRAPERS**<br>Control single lever<br>Blower fan<br>Standard work light<br>Guards, power train<br>Reverse signal (backup) alarm<br>ROPS<br>Fire extinguisher 5-B:C<br>Supplemental steering |

| CAT SUB | DESCRIPTION |
|---|---|
| **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 |

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# APPENDIX K GROUND ENGAGING COMPONENT COSTS INCLUDED IN REPAIRS (RCF)

# APPENDIX K

## Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | | Blade cutting edges, wear plates, hard facing, and end plates | | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B15 | 0.00 | BROOMS, STREET SWEEPERS & FLUSHERS | 95 | A | B | 8,000 | 0.10 | | ☐ | | ☐ | ☐ | ☑ | 0.80 |
| B25 | 0.00 | BUCKETS, CLAMSHELL | 15 | A | B | 8,000 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| B25 | 0.00 | BUCKETS, CLAMSHELL | 15 | S | B | 6,500 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| B35 | 0.00 | BUCKETS, DRAGLINE | 1 | | | | | | ☐ | | ☑ | ☐ | ☐ | |
| B35 | 0.10 | LIGHT WEIGHT | 15 | A | B | 8,000 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| B35 | 0.10 | LIGHT WEIGHT | 15 | S | B | 6,500 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| B35 | 0.20 | MEDIUM WEIGHT | 15 | A | B | 9,000 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| B35 | 0.20 | MEDIUM WEIGHT | 15 | S | B | 7,000 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| B35 | 0.30 | HEAVY WEIGHT | 15 | A | B | 10,000 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| B35 | 0.30 | HEAVY WEIGHT | 15 | S | B | 8,000 | 0.10 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| G15 | 0.00 | GRADERS, MOTOR | 35 | A | B | 14,500 | 0.25 | | ☑ | | ☐ | ☑ | ☐ | 0.75 |
| G15 | 0.00 | GRADERS, MOTOR | 35 | S | B | 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 | A | B | 8,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| H25 | 0.10 | 0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS) | 65 | S | B | 7,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| H25 | 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | A | B | 8,500 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| H25 | 0.11 | OVER 12,500 LBS THRU 40,000 LBS | 65 | S | B | 7,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.85 |
| H25 | 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | A | B | 12,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| H25 | 0.12 | OVER 40,000 LBS THRU 100,000 LBS | 65 | S | B | 10,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.95 |
| H25 | 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | A | B | 16,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 1.00 |

**EK=Economic Key (Appendix E)** **C=Operating Conditions (A=average, S=severe)** **DC=Discount Code (B=basic 7.5%, S=special 15%)**
**LIFE=Economic Life** **SLV=Salvage Value** **RCF=Repair Cost Factor**

**Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.**

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

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | | Blade cutting edges, wear plates, hard facing, and end plates | | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H25 | 0.13 | OVER 100,000 LBS THRU 160,000 LBS | 65 | S | B | 13,500 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 1.10 |
| H25 | 0.14 | OVER 160,000 LBS | 65 | A | B | 19,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 1.10 |
| H25 | 0.14 | OVER 160,000 LBS | 65 | S | B | 15,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 1.25 |
| H30 | 0.00 | HYDRAULIC EXCAVATORS, WHEEL MOUNTED | 1 | | | | | | ☐ | | ☑ | ☐ | ☐ | |
| H30 | 0.01 | 0 THRU 1.0 CY | 65 | A | B | 8,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.50 |
| H30 | 0.01 | 0 THRU 1.0 CY | 65 | S | B | 6,500 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.55 |
| H30 | 0.02 | OVER 1.0 CY | 65 | A | B | 10,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.60 |
| H30 | 0.02 | OVER 1.0 CY | 65 | S | B | 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 | A | B | 14,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.00 |
| H35 | 0.11 | DIESEL, 0 CY THRU 5.0 CY | 65 | S | B | 12,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.10 |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 65 | A | B | 16,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.20 |
| H35 | 0.12 | DIESEL, OVER 5.0 CY | 65 | S | B | 14,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.30 |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 65 | A | B | 18,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| H35 | 0.21 | ELECTRIC, OVER 2.5 CY | 65 | S | B | 16,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 0.90 |
| L35 | 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | A | B | 10,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.10 |
| L35 | 0.00 | LOADERS, FRONT END, CRAWLER TYPE | 40 | S | B | 8,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.25 |
| L40 | 0.00 | LOADERS, FRONT END, WHEEL TYPE | 1 | | | | | | ☐ | | ☑ | ☐ | ☐ | |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | A | B | 9,250 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| L40 | 0.11 | ARTICULATED, 0 THRU 225 HP | 45 | S | B | 8,750 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |

**EK=Economic Key (Appendix E)** **C=Operating Conditions (A=average, S=severe)** **DC=Discount Code (B=basic 7.5%, S=special 15%)**
**LIFE=Economic Life** **SLV=Salvage Value** **RCF=Repair Cost Factor**

**Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.**

# APPENDIX K

## Ground Engaging Component Costs Included in Repairs (RCF)

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | | Blade cutting edges, wear plates, hard facing, and end plates | | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 45 | A | B | 13,500 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 0.70 |
| L40 | 0.12 | ARTICULATED, OVER 225 HP | 45 | S | B | 12,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 0.75 |
| L40 | 0.20 | SKID STEER | 45 | A | B | 8,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | A | B | 10,000 | 0.25 | | ☐ | | ☐ | ☐ | ☑ | 0.85 |
| L40 | 0.31 | TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP | 45 | S | B | 9,250 | 0.25 | | ☐ | | ☐ | ☐ | ☑ | 0.90 |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | A | B | 12,000 | 0.15 | | ☐ | | ☐ | ☐ | ☑ | 0.85 |
| L40 | 0.32 | TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP | 45 | S | B | 10,000 | 0.15 | | ☐ | | ☐ | ☐ | ☑ | 0.90 |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | A | B | 8,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.35 |
| L45 | 0.00 | LOADERS / BACKHOE, CRAWLER TYPE | 40 | S | B | 6,000 | 0.20 | | ☐ | | ☑ | ☐ | ☐ | 1.40 |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | A | B | 10,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.80 |
| L50 | 0.00 | LOADERS / BACKHOE, WHEEL TYPE | 45 | S | B | 6,000 | 0.25 | | ☐ | | ☑ | ☐ | ☐ | 0.85 |
| L60 | 0.00 | LOG SKIDDERS | 75 | A | B | 10,000 | 0.15 | | ☑ | | ☐ | ☐ | ☑ | 0.70 |
| L60 | 0.00 | LOG SKIDDERS | 75 | S | B | 8,000 | 0.15 | | ☑ | | ☐ | ☐ | ☑ | 0.80 |
| P35 | 0.00 | PIPELAYERS | 70 | A | B | 14,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.95 |
| P35 | 0.00 | PIPELAYERS | 70 | S | B | 11,500 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 1.10 |
| R30 | 0.00 | ROLLERS, STATIC, SELF-PROPELLED | 1 | | | | | | ☐ | | ☐ | ☐ | ☑ | |
| R30 | 0.03 | TAMPING FOOT, LANDFILL & SOIL COMPACTORS | 55 | A | B | 12,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.80 |
| S10 | 0.00 | SCRAPERS, ELEVATING | 1 | | | | | | ☐ | | ☐ | ☐ | ☑ | |
| S10 | 0.01 | 0 THRU 200 HP | 60 | A | B | 10,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.90 |
| S10 | 0.01 | 0 THRU 200 HP | 60 | S | B | 8,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 1.00 |

**EK=Economic Key (Appendix E)** **C=Operating Conditions (A=average, S=severe)** **DC=Discount Code (B=basic 7.5%, S=special 15%)**
**LIFE=Economic Life** **SLV=Salvage Value** **RCF=Repair Cost Factor**

**Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.**

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

| CATEGORY | SUB | DESCRIPTION | EK | C | DC | LIFE | SLV | | Blade cutting edges, wear plates, hard facing, and end plates | | Bucket teeth, cutting edges, side cutters, and wear plates | Ripper tips and shank protection | Equipment Specific Wear Items | RCF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S10 | 0.02 | OVER 200 HP | 60 | A | B | 13,000 | 0.25 | | ☐ | | ☐ | ☐ | ☑ | 0.95 |
| S10 | 0.02 | OVER 200 HP | 60 | S | B | 11,500 | 0.25 | | ☐ | | ☐ | ☐ | ☑ | 1.00 |
| S15 | 0.00 | SCRAPERS, CONVENTIONAL | 60 | A | B | 15,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.80 |
| S15 | 0.00 | SCRAPERS, CONVENTIONAL | 60 | S | B | 12,500 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.85 |
| S20 | 0.00 | SCRAPERS, TANDEM POWERED | 60 | A | B | 15,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.85 |
| S20 | 0.00 | SCRAPERS, TANDEM POWERED | 60 | S | B | 13,500 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.90 |
| S25 | 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | A | B | 12,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.70 |
| S25 | 0.00 | SCRAPERS, TRACTOR DRAWN | 60 | S | B | 10,000 | 0.20 | | ☐ | | ☐ | ☐ | ☑ | 0.75 |
| T15 | 0.00 | TRACTORS, CRAWLER (DOZER) (includes blade) | 1 | | | | | | ☑ | | ☐ | ☐ | ☐ | |
| T15 | 0.01 | 0 THRU 225 HP | 70 | A | B | 10,000 | 0.30 | | ☑ | | ☐ | ☐ | ☐ | 1.10 |
| T15 | 0.01 | 0 THRU 225 HP | 70 | S | B | 8,000 | 0.30 | | ☑ | | ☐ | ☐ | ☐ | 1.25 |
| T15 | 0.02 | 226 HP THRU 425 HP | 70 | A | B | 12,500 | 0.25 | | ☑ | | ☐ | ☐ | ☐ | 1.20 |
| T15 | 0.02 | 226 HP THRU 425 HP | 70 | S | B | 10,500 | 0.25 | | ☑ | | ☐ | ☐ | ☐ | 1.25 |
| T15 | 0.03 | OVER 425 HP | 70 | A | B | 15,000 | 0.20 | | ☑ | | ☐ | ☐ | ☐ | 1.20 |
| T15 | 0.03 | OVER 425 HP | 70 | S | B | 12,500 | 0.20 | | ☑ | | ☐ | ☐ | ☐ | 1.35 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | A | B | 14,000 | 0.15 | | ☑ | | ☐ | ☐ | ☐ | 0.60 |
| T20 | 0.00 | TRACTORS, WHEEL TYPE (DOZER) | 75 | S | B | 13,000 | 0.15 | | ☑ | | ☐ | ☐ | ☐ | 0.65 |

**EK=Economic Key (Appendix E)** **C=Operating Conditions (A=average, S=severe)** **DC=Discount Code (B=basic 7.5%, S=special 15%)**
**LIFE=Economic Life** **SLV=Salvage Value** **RCF=Repair Cost Factor**

**Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.**

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# APPENDIX L GUIDE FOR ESTIMATING DRILL STEEL AND DRILL BIT COSTS

# Guide for Estimating Drill Steel and Drill Bit Costs

Prepared for the
US Army Corps of Engineers, Walla Walla District
By Western Mine Engineering, Inc in cooperation
with Aventurine Engineering, Inc. 2006

August 2006

# Cost Assumptions for Drill Steel and Drill Bit

**General:**
The approach to defining the scope of this cost guide was to confine the work to the basic drilling process and attendant drill bit and steel lives and costs. This not only simplified the study parameters but also ensured that future users of the study results could readily modify the data to suit their individual needs.

1. The steel costs reflect the cost of drilling steel only. All ancillary equipment such as couplings, striking bars, and hammer maintenance items were not included.

2. The bit life is indicative of the total life of each bit to include up to 10 sharpenings/grindings per bit. The bit costs, however, are list prices for each bit and do not reflect the costs associated with this process.

3. Costs for both bits and steel are list pricing based on manufacturers' catalogs or quotes. No additional materials, equipment costs, or other associated costs are included. No discounts were applied to the catalog list prices. Estimators will have to determine an appropriate discount for their individual cases. All prices are based on current, 2006 costs.

4. The bit and steel lives and penetration rates are based on time the bit is engaged in the hole. Adjustment for setup, tear down, and moving time between holes has not been considered.

5. Appropriate bits were identified primarily by drill type and then list prices were determined from manufacturers' catalogs. All bits were button type; with threaded button bits used for the top hammer percussion drills, down the hole (DTH) button bits for "DTH" drills, and tungsten carbide button, roller bits selected for rotary drills.

6. Large rotary drills often use 20' or longer drilling steel. It was our belief that most situations Corps of Engineers estimators face will fall in the range of percussion or smaller "DTH" drills. In these instances the 12' rod is appropriate. Cursory review of the costs of longer steel rods suggest that costs for a specific drill steel diameter do not vary dramatically on a per foot basis for longer rods. Therefore, the assumption is made that a direct conversion to cost per rod for longer lengths can be made in proportion to the cost for a 12' length rod. For further information, see the note at the lower right corner of each of the spreadsheets for a detailed procedure to make the conversion for rod length and hole depth.

# Example of Estimating
# Drill Steel and Drill Bit Costs

**General:**
The approach is to define the scope of the work and determine an estimated cost for drill steel and bits from the answers to the questions below. Follow the simplified steps to arrive at the estimated costs.

**Determine parameters:**

1. Determine the type of drilling method – percussion, down the hole (DTH), or rotary.

2. Determine the manufacturer and model of drilling equipment or determine equivalency of equipment used in this guide.

3. Determine the material that will be drilled through.

4. Determine the hole diameter of drill.

5. Determine the length of drill rod required to drill hole to the required depth.

**Determine costs:** (This is an example on how to determine costs)

1. Determine the type of drilling method – **down the hole (DTH)**.

2. Determine the manufacturer/model of drilling equipment – **Atlas Copco DM25SP**.

3. Determine the material that will be drilled - **Basalt .**

4. Determine the hole diameter of drill – **5"**.

5. Determine the length of drill rod required – **90 feet.**

6. Calculate drill steel costs from cost tables:

    a. Cost of drill steel $/foot per rod ranges $0.034 to $0.025 ➔ will use **$0.034.**

    b. Based on 90' of drilling at 12' lengths of drill rod – (90'/12') = 7.5 rods are required. **Round up to next whole number = 8 rods.**
    c. From drill steel cost adjustment factor chart: for 8 rods the **factor is 4.5**.
    d. From instructions: $0.034 X 4.5 = **$0.1530/lf 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 Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $0.082 | - | $0.060 | $0.085 | - | $0.063 | $0.105 | - | $0.078 |
| Breccia | $0.059 | - | $0.044 | $0.061 | - | $0.045 | $0.076 | - | $0.056 |
| Limestone | $0.071 | - | $0.053 | $0.074 | - | $0.055 | $0.091 | - | $0.068 |
| Schist | $0.058 | - | $0.043 | $0.060 | - | $0.045 | $0.074 | - | $0.055 |
| Slate | $0.089 | - | $0.066 | $0.093 | - | $0.069 | $0.115 | - | $0.085 |
| Gneiss | $0.098 | - | $0.073 | $0.102 | - | $0.075 | $0.126 | - | $0.093 |

(Based on 12 foot drilling rod length.)

**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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco ROC D7 - percussion**

**Bit Life (feet/bit)**

| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

*Prepared by Western Mine Division, InfoMine USA, Inc. in cooperation with Aventurine Engineering, Inc. 2006*

**DRILL MODEL -** **Atlas Copco ECM590 - percussion**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco ECM720 - percussion**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 4.00 | | | 4.50 | | | 5.00 | | |
| 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM25SP - DTH**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM30 -DTH**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $0.017 | - | $0.012 | $0.019 | - | $0.014 | $0.024 | - | $0.018 |
| Breccia | $0.013 | - | $0.009 | $0.015 | - | $0.011 | $0.018 | - | $0.014 |
| Limestone | $0.015 | - | $0.011 | $0.017 | - | $0.013 | $0.021 | - | $0.016 |
| Schist | $0.013 | - | $0.009 | $0.015 | - | $0.011 | $0.018 | - | $0.013 |
| Slate | $0.018 | - | $0.013 | $0.021 | - | $0.015 | $0.026 | - | $0.019 |
| Gneiss | $0.019 | - | $0.014 | $0.023 | - | $0.017 | $0.028 | - | $0.021 |

(Based on 12 foot drilling rod length.)

**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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM45 -DTH**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM M2 -DTH**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 8.88 | | | 10.00 | | | 11.875 | | |
| 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 8.88 | | | 10.00 | | | 11.875 | | |
| 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 8.88 | | | 10.00 | | | 11.875 | | |
| 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 |
| Conglomer | $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 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM25SP - Rotary**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $0.010 | - | $0.007 | $0.031 | - | $0.023 | $0.039 | - | $0.029 |
| Breccia | $0.007 | - | $0.006 | $0.024 | - | $0.018 | $0.030 | - | $0.022 |
| Limestone | $0.009 | - | $0.006 | $0.028 | - | $0.021 | $0.035 | - | $0.026 |
| Schist | $0.007 | - | $0.005 | $0.024 | - | $0.017 | $0.030 | - | $0.022 |
| Slate | $0.011 | - | $0.008 | $0.034 | - | $0.025 | $0.042 | - | $0.031 |
| Gneiss | $0.011 | - | $0.008 | $0.036 | - | $0.027 | $0.046 | - | $0.034 |

(Based on 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM30 -Rotary**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $0.037 | - | $0.028 | $0.038 | - | $0.028 | $0.039 | - | $0.029 |
| Breccia | $0.029 | - | $0.021 | $0.029 | - | $0.022 | $0.030 | - | $0.022 |
| Limestone | $0.033 | - | $0.025 | $0.034 | - | $0.025 | $0.035 | - | $0.026 |
| Schist | $0.028 | - | $0.021 | $0.029 | - | $0.021 | $0.030 | - | $0.022 |
| Slate | $0.040 | - | $0.030 | $0.041 | - | $0.030 | $0.042 | - | $0.031 |
| Gneiss | $0.043 | - | $0.032 | $0.044 | - | $0.033 | $0.046 | - | $0.034 |

(Based on 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 5.50 | | | 6.00 | | | 6.75 | | |
| 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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM45 -Rotary**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

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

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 12 foot drilling rod length.)

**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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco DM M2 -Rotary**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 9.00 | | | 9.875 | | | 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 9.00 | | | 9.875 | | | 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 |
| Conglomer | $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 foot drilling rod length.)

**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 |
| Conglomer | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Bucyrus International 59R -Rotary**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 12.25 | | | 15.00 | | | 16.00 | | |
| 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 |
| Conglomer | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 12.25 | | | 15.00 | | | 16.00 | | |
| 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 12.25 | | | 15.00 | | | 16.00 | | |
| Granite | 19.00236 | - | 25.70907 | 12.60139 | - | 17.04894 | 11.05531 | - | 14.95719 |
| Basalt | 11.03265 | - | 14.92652 | 7.316286 | - | 9.898504 | 6.418644 | - | 8.684048 |
| Gabbro | 12.205 | - | 16.51264 | 8.093728 | - | 10.95034 | 7.100701 | - | 9.606831 |
| Shale | 19.78892 | - | 26.77325 | 13.123 | - | 17.75464 | 11.51293 | - | 15.57631 |
| Sandstone | 20.49398 | - | 27.72715 | 13.59055 | - | 18.38722 | 11.92312 | - | 16.13128 |
| Siltstone | 20.41721 | - | 27.62329 | 13.53965 | - | 18.31835 | 11.87846 | - | 16.07085 |
| Conglomer | 23.02897 | - | 31.15684 | 15.27163 | - | 20.66162 | 13.39794 | - | 18.12663 |
| Breccia | 30.19898 | - | 40.85745 | 20.02642 | - | 27.09456 | 17.56936 | - | 23.77031 |
| Limestone | 25.83581 | - | 34.95433 | 17.13298 | - | 23.17992 | 15.03092 | - | 20.33595 |
| Schist | 30.66998 | - | 41.49468 | 20.33876 | - | 27.51714 | 17.84338 | - | 24.14104 |
| Slate | 21.38157 | - | 28.92801 | 14.17916 | - | 19.18357 | 12.43951 | - | 16.82992 |
| Gneiss | 19.75326 | - | 26.725 | 13.09935 | - | 17.72265 | 11.49218 | - | 15.54824 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

**DRILL MODEL -** **Atlas Copco TBH4 - Rotary**

**Bit Life (feet/bit)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |

**Bit Cost ($/foot)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Conglomer | $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 Life (feet/rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |

**Drill Steel Cost ($/foot per rod)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 5.00 | | | 6.750 | | | 7.875 | | |
| 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 |
| Conglomer | $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 12 foot drilling rod length.)

**Penetration Rate (feet/hour)**

| | Hole Diameter (inches) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |

**Drill Steel Cost Adjustment Factor**

| Number of rods | Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.0 |
| 4 | 2.5 |
| 5 | 3.0 |
| 6 | 3.5 |
| 7 | 4.0 |
| 8 | 4.5 |
| 9 | 5.0 |
| 10 | 5.5 |
| n | (n+1)/2 |

As this study is based on 12 foot drilling rod length, the total steel cost per foot of hole drilled depends upon the total number of 12 foot sections in the hole. Divide the total hole length by 12 and round this result up to the next whole number to determine number of rods required to drill the hole. Adjust this number to the average number of rods during drilling by consulting the Drill Steel Cost Adjustment Factor table to the left. Multiply this adjustment factor times the cost per foot per rod from the table above. The result is the total drill steel cost per foot of hole drilled. Other drill steel lengths may be adjusted for by determining the total length of rods required and then converting that to the number of equivalent 12 foot sections. Once this is determined follow the procedure outlined above.

## BIT AND DRILL STEEL PRICE DATABASE

Effective date - 8/2006

### Drill Bits

| Bit Type | Bit Size | Bit Price |
|---|---|---|
| Button - drop center | | |
| | 1-3/4" | $62 |
| | 2" | $69 |
| | 2-1.2" | $98 |
| | 3" | $131 |
| | 3-1.2" | $159 |
| | 4" | $223 |
| | 4-1.2" | $268 |
| | 5" | $321 |
| DTH - concave face | | |
| | 3-1/2" | $410 |
| | 5" | $550 |
| | 5-1/2" | $575 |
| | 6" | $630 |
| | 6-1/2" | $640 |
| | 8" | $1,230 |
| | 8-7/8" | $1,385 |
| | 10" | $1,900 |
| | 11-/7/8 | $4,500 |
| TRICONE - carbide insert | | |
| | 3-7/8" | $1,150 |
| | 5" | $1,629 |
| | 5-1/2" | $1,972 |
| | 6" | $2,131 |
| | 6-1/4" | $2,207 |
| | 6-3/4" | $2,463 |
| | 7-7/8" | $3,023 |
| | 9" | $3,589 |
| | 9-7/8" | $4,787 |
| | 11" | $5,640 |
| | 12-1/4" | $6,603 |
| | 15" | $10,367 |
| | 16" | $11,016 |

### Drill Rod

| Rod Type | Rod Size | Rod Price |
|---|---|---|
| Percussion rod - 12 ft | | |
| | R32 | $280 |
| | T38 | $324 |
| | T45 | $407 |
| | T51 | $568 |
| DTH rod - 9'10" | | |
| | 3.0 76mm | $384 |
| | 3.5 89mm | $431 |
| | 4.0 102mm | $491 |
| | 4.5 114mm | $592 |
| | 5.5 140mm | $815 |
| Rotary rod - 25' to 30' | | |
| | 4" x 25' | $3,300 |
| | 5" x 25' | $3,900 |
| | 7" x 30' | $6,900 |
| | 8-5/8" x 30' | $6,800 |
| | 10-3/4" x 27.5 | $7,500 |

All unit prices are manufacturer list prices. Discounts or premiums may apply depending upon market conditions.

*Prepared by Western Mine Division, InfoMine USA, Inc. in cooperation with Aventurine Engineering, Inc. 2006*

# ROTARY BLASTHOLE DRILLS

Bucyrus manufactures electric rotary blasthole drills with the most innovative features on the market, including programmed drill control, rack and pinion pull-down, hydrostatic propel drives and more. Contact us today for more information about any of our performance-packed drills!

## 59R

Max. hole size: 444 mm (17-1/2 in)
Max. bit loading: 74,830 kg (165,000 lbs)
Working weight: 183,673 kg (405,000 lbs)

## 49RIII

Max. hole size: 406 mm (16 in)
Max. bit loading: 63,975 kg (141,000 lbs)
Working weight: 154,224 kg (340,000 lbs)

## 39HR

Max. hole size: 349 mm (13-3/4 in)
Max. bit loading: 55,000 kg (122,000 lbs)
Working weight: 122,500 kg (270,000 lbs)

## 35HR Series

Max. hole size: 270 mm (10-5/8 in)
Max. bit loading: 34,000 kg (75,000 lbs)
Working weight: 54,432 kg (120,000 lbs)

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# Infrastructure - Drilling Solutions

## Drilling Solutions

Ingersoll-Rand has been in the drilling business since Simon Ingersoll invented his first rock drill in 1871. This innovative piece of machinery revolutionized the drilling industry and set the pace for the company's future.

Ingersoll-Rand drills are designed and manufactured to a stringent set of quality standards, assuring you of the most efficient and reliable drills available anywhere.

Now in our second century, we are proud of the comprehensive line of Ingersoll-Rand drilling equipment for the mining, exploration, oil and gas, quarry and water well industries around the world.

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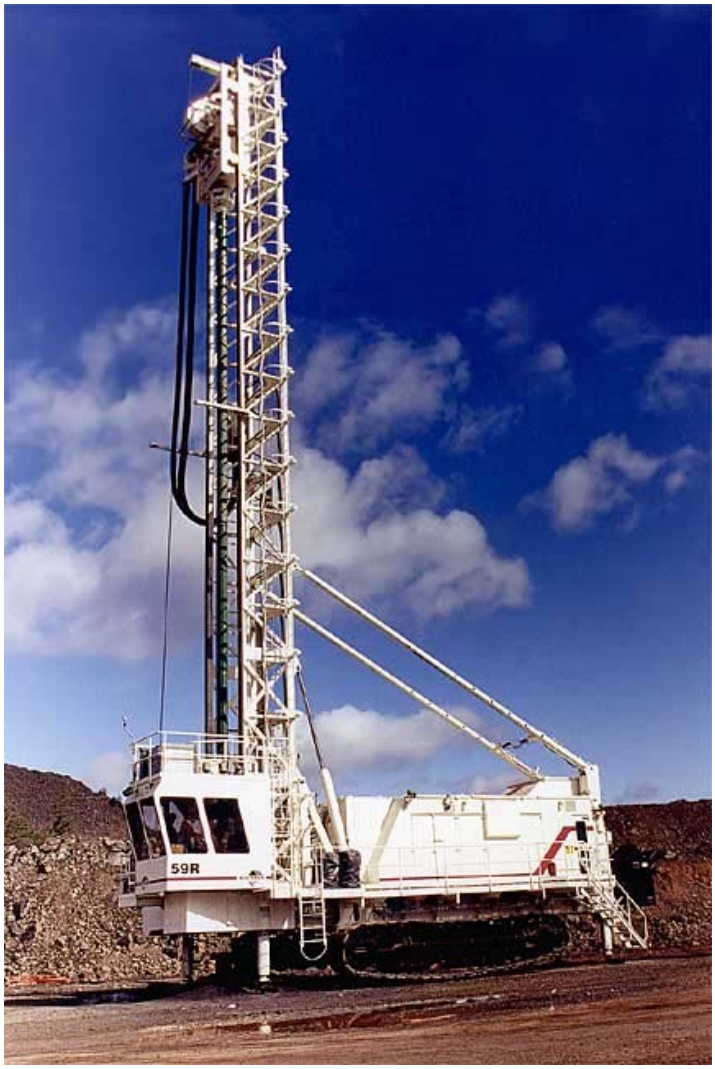
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# Infrastructure - Drilling Solutions

## 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 ft-lb. (732 N-m) at 0-160 RPM. The DM45/LP can drill from 5-1/8 to 7-7/8 in. (130 to 200 mm) diameter blastholes to depths of 180 ft. (55 m) with a 30 ft. (9.1 m) drill pipe change. Two low-pressure Ingersoll-Rand compressor options are available with your choice of Caterpillar or Cummins engines.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 6-8 in. |
| **Power Pack** | |
| **Engine #1** | Cummins QSX15 (425 HP @ 1800 rpm) |
| **Compressor #1** | 900 @ 110 CFM @ PSI / 25.5 @ 758 m3/min@kPA |
| **Engine #2** | CAT C15 (425 HP @ 1800 RPM) |
| **Compressor #2** | 900 @ 110 CFM @ PSI / 25.5 @ 758 m3/min@kPA |
| **Engine #3** | Cummins QSX15 (475 HP @ 1800 RPM) |
| **Compressor #3** | 1050 @ 110 CFM @ PSI / 29.7 @ 758 m3/min@kPA |
| **Engine #4** | Cat C15 (475 HP @ 1800 RPM) |
| **Compressor #4** | 1050 @ 110 CFM @ PSI / 29.7 @ 758 m3/min@kPA |
| **Rotation** | |
| **Type** | 2-motor variable displacement, high torque/high speed |
| **Head Torque** | High torque: 9,000 ft-lb @ 100 rpm |
| **Speed** | High speed: 5,400 ft-lb @ 160 rpm rpm |
| **Feed System** | |
| **Type** | Hydraulic cyls. w/cable pulldown & chain pullback |
| **Bit Load** | 45,000 lb / 20,411 kg |
| **Tower** | |
| **Pipe Length** | 30 ft. / 9.1 m. |
| **Fabrication** | 4-member open front w/rectangular hollow steel tubing/double cut lacing |
| **Undercarriage** | |
| **Model** | Caterpillar 325L or equivalent |

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| | |
|---|---|
| **Length** | 15.3 ft. / 4.66 m |
| **Carousel** | |
| **Capacity** | Capable of 180 ft. |
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 43 ft. / 13.11 m |
| **Approx. Working Weight** | 77,000 - 85,000 lbs. / 34,900 - 38,600 kg. |
| **Material To Be Drilled** | |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |

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# Infrastructure - Drilling Solutions

## Rotary - DM30

**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 DM30 is a hydraulic tophead drive, multi-pass, crawler-mounted drill rig designed for blastholes ranging from 5-1/8 to 6-3/4 in. (130 to 171 mm) in diameter. On-board depth capability is up to 150 ft. (45.7 m). For rotary drilling, the DM30 can assert a bit load force up to 30,000 lb. (13,608 kg) and rotation speeds of 0-130 RPM. This rig can also be used with downhole drills when equipped with a high-pressure air compressor option.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 5-6 in. |
| **Power Pack** | |
| **Engine #1** | Cummins QSX15 (525 HP @ 1800 RPM) |
| **Compressor #1** | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #2** | CAT C15 (525 HP @ 1800 RPM) |
| **Compressor #2** | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #3** | Cummins QSX15 (425 HP @ 1800 RPM) |
| **Compressor #3** | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Engine #4** | CAT C15 (425 HP @ 1800 RPM) |
| **Compressor #4** | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Floating Sub Base** | Isolates components from drilling and propel shock loads/maintains alignment |
| **Rotation** | |
| **Type** | Rotary Tophead |
| **Head Torque** | 5,400 ft-lb. / 7,322 N-m |
| **Speed** | 0-100 rpm |
| **Feed System** | |
| **Type** | Single cylinder, cable feed |
| **Bit Load** | 30,000 lb / (13,608) kg |
| **Tower** | |
| **Pipe Length** | 30 ft. / 9.1 m. |
| **Construction** | 4 member open front with hollow steel tubing. |

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| | |
|---|---|
| **Undercarriage** | |
| **Manufacturer** | Caterpillar |
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 44.3 ft. / 13.4 m |
| **Approx. Working Weight** | 68,000 lbs. / 30,844 kg. |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |
| **DHD** | Yes |

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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 ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 5-6 in. |
| **Power Pack** | |
| **Engine #1** | Cummins QSX15 (525 HP @ 1800 RPM) |
| **Compressor #1** | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #2** | CAT C15 (525 HP @ 1800 RPM) |
| **Compressor #2** | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #3** | Cummins QSX15 (425 HP @ 1800 RPM) |
| **Compressor #3** | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Engine #4** | CAT C15 (425 HP @ 1800 RPM) |
| **Compressor #4** | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Rotation** | |
| **Type** | Rotary Table Drive |
| **Speed** | 0-170 rpm |
| **Torque** | 3,500 / (4,746 N-m) |
| **Feed System** | |
| **Type** | Heavy-duty chains through cluster sprocket |
| **Pulldown** | 25,000 lbs. / 11,340 kg. |
| **Tower** | |
| **Construction** | 4 main member, open front, rectangular steel tubing |
| **#1 Single pass depth** | 40 ft. / 12.2 m. |
| **#2 Single pass depth** | 50 ft. / 15.2 m. |
| **Undercarriage** | |

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| | |
|---|---|
| **Type** | Excavator |
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Weight** | Varies according to drill pipe: 60,000 - 62,000 lb / 27,216-28,123 kg |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |
| **DHD** | Yes |

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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). 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.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 9-11 in. |
| **Power 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 |
| **Compressor #3** | 1250 @ 350 CFM @ PSI / 35.4 @ 2413 m3/min@kPA |
| **Rotation** | |
| **Type** | Two-motor, variable displacement |
| **Speed Range** | 0-150 rpm, variable |
| **Head Torque** | 0-8,640 ft-lbs (0-11,714 Nm) (forward) |
| **Feed System** | |
| **Type** | Patented carriage feed |
| **Weight on Bit** | 0 to 75,000 lb. / 0 to 34,019 kg |
| **Tower** | |
| **Pipe Length** | 35 ft. / 10.7 m. |
| **Construction** | 4 member open front with hollow steel tubing. |
| **Undercarriage** | |
| **Model** | Caterpillar 330EL or equivalent |
| **Carousel** | |
| **Size** | Holds 2 to 4 drill pipe depending on pipe diameter |

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|---|---|
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 56.2 ft. / 17.1 m |
| **Approx. Working Weight** | 120,000 - 133,500 lbs. / 54,400 - 60,555 kg. |
| **Material To Be Drilled** | |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |
| **DHD** | Yes |

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# Infrastructure - Drilling Solutions

## Rotary - T4BH

**Select Model:**

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.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 6-9 in. |
| **Carrier** | |
| **Chassis (Standard)** | Crane Carrier, Custom, 3 axle, 6X4 |
| **Engine** | CAT C10 (305 HP) |
| **Power Pack** | |
| **Engine #1** | Cummins QSX19 (525 HP @ 1800 RPM) |
| **Compressor #1** | IR HR2-900/350 CFM @ PSI / 25.5/2413 m3/min@kPA |
| **Engine #2** | Cummins QSX19 (600 HP @ 1800 RPM) |
| **Compressor #2** | 1050 @ 350 CFM @ PSI / 129.7 @ 2413 m3/min@kPA |
| **Engine #3** | Cummins QSK-19C (700 HP @ 2100 RPM) |
| **Compressor #3** | IR HR2.5 - 1250/350 CFM @ PSI / (35.39 @ 2413) m3/min@kPA |
| **Floating Sub Base** | Isolates components from drilling and propel shock loads/maintains alignment |
| **Rotation** | |
| **Type** | Rotary Tophead |
| **Speed Range** | 0-160 RPM (std.) |
| **Head Torque** | 6,500 ft-lb. / (8,814 N-m) |
| **Option** | 7,165 ft-lb @ 0-130 RPM / 9,716 N-m @ 0-130 RPM |
| **Feed System** | |
| **Type** | Hydraulic cylinders w/cable and chain |
| **Pulldown** | 0-37,700 lbs. / 17,108 kg. |

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|---|---|
| **Tower** | |
| **Pipe Length** | 25 ft. / 7.6 m. |
| **Construction** | 4 member open front with ASTM A500 GRB steel tubing. |
| **Cab & Controls** | |
| **Operator Cab** | New cab designed to optimize operator comfort and safety |
| **Controls** | All operational functions controlled from driller console in cab |
| **Options** | |
| **Option #1** | Contact your local distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 28-3/4 ft. / 8.7 m |
| **Approx. Working Weight** | 58,000 lbs. / 26,309 kg. |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |

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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). 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.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 9-11 in. |
| **Power 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 |
| **Compressor #3** | 1250 @ 350 CFM @ PSI / 35.4 @ 2413 m3/min@kPA |
| **Rotation** | |
| **Type** | Two-motor, variable displacement |
| **Speed Range** | 0-150 rpm, variable |
| **Head Torque** | 0-8,640 ft-lbs (0-11,714 Nm) (forward) |
| **Feed System** | |
| **Type** | Patented carriage feed |
| **Weight on Bit** | 0 to 75,000 lb. / 0 to 34,019 kg |
| **Tower** | |
| **Pipe Length** | 35 ft. / 10.7 m. |
| **Construction** | 4 member open front with hollow steel tubing. |
| **Undercarriage** | |
| **Model** | Caterpillar 330EL or equivalent |
| **Carousel** | |
| **Size** | Holds 2 to 4 drill pipe depending on pipe diameter |

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|---|---|
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 56.2 ft. / 17.1 m |
| **Approx. Working Weight** | 120,000 - 133,500 lbs. / 54,400 - 60,555 kg. |
| **Material To Be Drilled** | |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |
| **DHD** | Yes |

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# Infrastructure - Drilling Solutions

## 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 when equipped with a high-pressure air compressor option.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 5-6 in. |
| **Power Pack** | |
| **Engine #1** | Cummins QSX15 (525 HP @ 1800 RPM) |
| **Compressor #1** | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #2** | CAT C15 (525 HP @ 1800 RPM) |
| **Compressor #2** | IR HR2 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #3** | Cummins QSX15 (425 HP @ 1800 RPM) |
| **Compressor #3** | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Engine #4** | CAT C15 (425 HP @ 1800 RPM) |
| **Compressor #4** | IR WW226 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Floating Sub Base** | Isolates components from drilling and propel shock loads/maintains alignment |
| **Rotation** | |
| **Type** | Rotary Tophead |
| **Head Torque** | 5,400 ft-lb. / 7,322 N-m |
| **Speed** | 0-100 rpm |
| **Feed System** | |
| **Type** | Single cylinder, cable feed |
| **Bit Load** | 30,000 lb / (13,608) kg |
| **Tower** | |
| **Pipe Length** | 30 ft. / 9.1 m. |
| **Construction** | 4 member open front with hollow steel tubing. |

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| | |
|---|---|
| **Undercarriage** | |
| **Manufacturer** | Caterpillar |
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 44.3 ft. / 13.4 m |
| **Approx. Working Weight** | 68,000 lbs. / 30,844 kg. |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |
| **DHD** | Yes |

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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.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 5-6 in. |
| **Power Pack** | |
| **Engine #1** | Cummins QSX15 (525 HP @ 1800 RPM) |
| **Compressor #1** | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #2** | CAT C15 (525 HP @ 1800 RPM) |
| **Compressor #2** | 900/350 CFM @ PSI / 25.5/2,413 m3/min@kPA |
| **Engine #3** | Cummins QSX15 (425 HP @ 1800 RPM) |
| **Compressor #3** | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Engine #4** | CAT C15 (425 HP @ 1800 RPM) |
| **Compressor #4** | 900/110 CFM @ PSI / 25.5/758 m3/min@kPA |
| **Rotation** | |
| **Type** | Rotary Table Drive |
| **Speed** | 0-170 rpm |
| **Torque** | 3,500 / (4,746 N-m) |
| **Feed System** | |
| **Type** | Heavy-duty chains through cluster sprocket |
| **Pulldown** | 25,000 lbs. / 11,340 kg. |
| **Tower** | |
| **Construction** | 4 main member, open front, rectangular steel tubing |
| **#1 Single pass depth** | 40 ft. / 12.2 m. |
| **#2 Single pass depth** | 50 ft. / 15.2 m. |
| **Undercarriage** | |

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|---|---|
| **Type** | Excavator |
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Weight** | Varies according to drill pipe: 60,000 - 62,000 lb / 27,216-28,123 kg |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Rotary** | Yes |
| **DHD** | Yes |

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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 (high-pressure 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.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 5-7 in. |
| **Power Pack** | |
| **Engine #1** | Cummins QSX15 (525 HP @ 1800 RPM) |
| **Compressor #1** | 900/350 CFM @ PSI / 25.5/2413 m3/min@kPA |
| **Engine #2** | CAT C15 (525 HP @ 1800 RPM) |
| **Compressor #2** | 900/350 CFM @ PSI / 25.5/2413 m3/min@kPA |
| **Engine #3** | Cummins QSX15 (600 HP @ 1800 RPM) |
| **Compressor #3** | 1070/350 CFM @ PSI / 30.30/2,413 m3/min@kPA |
| **Engine #4** | CAT C16 (600 HP @ 1800 RPM) |
| **Compressor #4** | 1070/350 CFM @ PSI / 30.30/2413 m3/min@kPA |
| **Rotation** | |
| **Type** | Rotary table w/kelly drive |
| **Speed** | 0-200 rpm |
| **Torque** | 4,000 ft-lb / (5,424 N-m) |
| **Feed System** | |
| **Type** | Chain and cable |
| **Pulldown** | 25,000 lbs. / 11,340 kg. |
| **Tower** | |
| **Type** | Single Pass |
| **Pipe Length** | 50 ft. / 15.2 m. |
| | 4 member open front with rectangular steel |

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|---|---|
| **Construction** | tubing |
| **Undercarriage** | |
| **Type** | Excavator-type |
| **Options** | |
| **Option #1** | Contact your local IR distributor for a complete list of options. |
| **Weight & Dimensions** | |
| **Height (Tower Up)** | 76-1/2 ft. / 23.3 m |
| **Approx. Working Weight** | 75,000 - 78,000 lbs. / 34,020 - 35,400 kg. |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **DHD** | Yes |

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# Infrastructure - Drilling Solutions

## Pneumatic Crawler - ECM350

**Select Model:**

- LM100A
- CM348
- ECM350

This agile, 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 class.

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| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 2-1/2 - 5-1/2 in. |
| **Drifter** | |
| **Drifter #1** | VL140 |
| **Hole Diameter #1** | 2.5-4 " / 64-102 mm |
| **Rotation Speed #1** | 0 - 72 rpm |
| **Frequency #1** | 2100 BPM |
| **Air Consumption #1** | 750 SCFM @ 100 PSI / 21.2 m3/min @ 7 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** | |
| **Guide Dump #1** | 180 ° |
| **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. |
| **Torque Max.** | 1492 Nm @ 8.4 kg/cm? / (1100 lb-ft @ 120 PSI) |
| **Rotation** | 0 - 72 |
| **Air Consumption** | 120 CFM @ 50 RPM & 90 PSI / 3.4 m3/min @ 50 RPM & 6.3 kg/cm2 |
| **Gear Ratio** | 33:1 |
| **Horse Power** | 2.23 kw @ 6.3 kg/cm? (3.0 hp @ 90 psig) / 3.13 kw @ 8.4 kg/cm? (4.2 hp @ 120 psig) |
| **General** | |
| **Feed/Pullback Force** | 3,000 lb / 1,361 kg |

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|---|---|
| **Downhole Drills** | |
| **O.D. #1** | 3.62 in. / 92 mm. |
| **Length (bit ext.) #1** | 45.7 in. / 1161 mm. |
| **Air Consumption @ 10.5 kg/cm? (150 PSIG) #1** | 5.1 m?/min / (180 SCFM) |
| **Air Consumption @ 17.6 kg/cm? (250 PSIG) #1** | 9.9 m?/min / (350 SCFM) |
| **Drill #2** | DHD350R |
| **Hole Diameter #2** | 5-1/8 - 5-1/2 in. / 130-140 mm. |
| **Weight (less bit) #2** | 151 lb. / 68.5 kg. |
| **O.D. #2** | 4.5 in. / 114 mm. |
| **Length (bit ext.) #2** | 54.6 in. / 1388 mm. |
| **Air Consumption @ 10.5 kg/cm? (150 PSIG) #2** | 7.9 m?/min / (280 SCFM) |
| **Air Consumption @ 17.6 kg/cm? (250 PSIG) #2** | 14.7 m?/min / (520 SCFM) |
| **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 & Dimensions** | |
| **Ground Clearance** | 12 " / 292 mm |
| **Shipping Width** | 96 " / 2438 mm |
| **Shipping Length** | 144 " / 3645 mm |
| **Approx. Working Weight** | 12,900 lbs. / 5851 kg. |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Construction** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Drifter** | Yes |

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# Infrastructure - Drilling Solutions

## Hydraulic Crawler - ECM-720

**Select Model:**

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

They said it couldn't be done...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 ECM-720.

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 4-1/2 - 5-1/2 in. |
| **Drifter** | |
| **Type** | Montabert HC-200A |
| **Boom & Guide** | |
| **Boom Swing** | 45 deg right / 20 deg left maximum |
| **Vertical Boom Movement** | 50 deg up / 20 deg down maximum |
| **Guide Swing** | 20 deg right / 90 deg left maximum |
| **Guide Dump** | 135 deg maximum |
| **Boom Extension** | 36 in. / 914 mm |
| **Guide Extension** | 5 ft / 1,524 mm |
| **Overall Guide Length** | 27 ft 6 in / 8.4 m |
| **Drifter Travel** | 16 ft. 11 in. / 5.15 m |
| **Engine** | |
| **Type** | CAT 3176 C-10 |
| **Rated Power** | 365 HP / 272 kW |
| **Operating Speed** | 1,800 rpm |
| **Compressor** | |
| **Type** | Ingersoll-Rand Rotary Screw |
| **Volume** | 480 CFM / 13.6 m3/min |
| **Pressure** | 150 PSI / 10.3 BAR |
| **Cab & Controls** | |
| **Operator Cab** | ROPS/FOPS |
| **Noise level** | 80 dBA |
| **General** | |
| **Gradeability** | 35 deg (70 percent) ° |
| **Tramming Speed** | 2.0 mph / 3.3 km/hr |
| **Ground clearance** | 17 in. / 432 mm. |
| **Grouser Width** | 13-3/4 in. / 349 mm mm. |
| **Rod Changer Capacity** | (6) 12 ft (3.66 m) / (6) 14 ft (4.27 m) opt. |
| **Shipping Information** | |
| **Weight** | 45,900 lb / 20,820 kg |

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| | |
|---|---|
| **Width** | 8 ft 3 in / 2.5 m |
| **Length** | 35 ft 8 in / 10.9 m |
| **Height** | 10 ft 8 in / 3.3 m |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Construction** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Drifter** | Yes |

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# Infrastructure - Drilling Solutions

## Hydraulic Crawler - ECM590

**Select Model:**

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

The ECM-590 is a self-contained, 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** | 2-1/2 - 4-1/2 in. |
| **Drifter** | |
| **Drifter #1** | YH70 |
| **Hole Diameter #1** | 2.5-4 " / 64-102 mm |
| **Rotation Speed #1** | 0-200 rpm |
| **Frequency #1** | 2800 BPM |
| **Weight #1** | 419 lb. / 190 kg. |
| **Steel Size #1** | T45/T38 |
| **Drifter #2** | YH80A |
| **Hole Diameter #2** | 2.5-4.5 in. / 64-114 mm. |
| **Rotation Speed #2** | 0-200 rpm |
| **Frequency #2** | 2600 BPM |
| **Weight #2** | 462 lb. / 210 kg. |
| **Steel Size #2** | T51/T45 |
| **Hydraulic Pressure** | 2130 psi / 150 kg/cm? |
| **Boom & Guide** | |
| **Horizontal Boom Swing** | 30 deg R / 34.6 deg L |
| **Vertical Boom Movement** | 51 deg up / 15 deg down |
| **Guide Swing** | 48 deg R / 40 deg L |
| **Guide Dump** | 180 deg |
| **Boom Extension - YH70 (YH80A)** | 48 in (30 in) / 1,219 mm (762 mm) |
| **Drifter Travel - YH70 (YH80A)** | 15 ft 4 in (14 ft) / 3,099 mm (4,267 mm) |
| **Guide Extension** | 4 ft / 1,219 mm |
| **Overall Guide Length** | 23 ft 8 in / 7,214 mm |
| **Engine** | |
| **Type** | Cummins 6CT8.3 |
| **Rated Power** | 215 HP / 159 kW |
| **Operating Speed** | 2350 rpm |

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| | |
|---|---|
| **IR Rotary Screw Compressor** | |
| **Compressor pressure(max)** | 140 psig / 9.8 kg/cm2 |
| **Compressor volume** | 250 cfm / 7 m?/min |
| **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 Application** | |
| **Construction** | Yes |
| **Drilling Method** | |
| **Drifter** | Yes |

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# Infrastructure - Drilling Solutions

## Pneumatic Crawler - LM100A

**Select Model:**

- LM100A
- CM348
- ECM350

The LM100A is a small class pneumatic Crawlair?, capable of drilling 1-3/4" to 4- 1/2" (44 - 114 mm) diameter holes. It can be equipped with either of two drifters or a BRH rotary head for downhole drilling. The LM100A is ideal for applications in confined areas where hand-held tools are not enough, and is light enough to transport by helicopter. Like all Ingersoll-Rand crawler drills, the LM100A is "Abuse Resistant". It keeps coming back for more!

[ SPECS ] | [ FEATURES ] | [ LITERATURE ]

| | |
|---|---|
| **Nominal Hole Diameter** | |
| **Diameter** | 1-3/4 - 2-1/2 in. |
| **Carrier** | |
| **Overall Track Length** | 72 " / 1845 mm |
| **Ground Clearance** | 9 " / 230 mm |
| **Oscillation** | 20 ° |
| **Air Motors** | 4.5 HP |
| **Gradeability** | 30 ° |
| **Tramming Speed** | 0-2 mph / 0-3.2 km/hr |
| **Drifter** | |
| **Type** | Ingersoll-Rand YD90 |
| **Hole Diameter #1** | 1.75-2.5 " / 44-64 mm |
| **Frequency #1** | 1600 BPM |
| **Air Consumption #1** | 375 scfm @ 100 psi & 50 rpm / 10.6 m3/min @ 7 kg/cm2 & 50 rpm |
| **Stroke #1** | 3.4 in. / 85 mm. |
| **Bore #1** | 3.5 in. / 90 mm. |
| **Steel Size #1** | 10 ft / 3048 mm |
| **Drifter #2** | VL120 |
| **Hole Diameter #2** | 2 - 3.5 in. / 51 - 89 mm. |
| **Frequency #2** | 1900 BPM |
| **Air Consumption #2** | 600 SCFM @ 50 RPM & 100 psi / 17.0 m3/min @ 50 RPM & 7 kg/cm2 |
| **Stroke #2** | 3.62 in. / 92 mm. |
| **Bore #2** | 4.75 in. / 120 mm. |
| **Steel Size #2** | 10 ft / 3048 mm |
| **Guide** | |
| **Guide Dump #1** | 75 ° |
| **Guide Swing (L/R)** | 45 deg/45 deg |

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| | |
|---|---|
| **Guide Extension #1** | 29 " / 750 mm |
| **Drill Rod Length** | 10 ft. / 3 m |
| **Feed Motor Pull** | 3000 lbs. / 1360 kg. |
| **Boom** | |
| **Boom Swing (L/R) #1** | 30/35 ° |
| **Boom Lift (Up/Down) #1** | 45/30 ° |
| **Coverage Length** | 107 " / 2720 mm |
| **Max. Drill Height (Horizontal)** | 99 " / 2510 mm |
| **BRH Rotary Head** | |
| **Weight** | 304 lbs. / 138 kg. |
| **Torque Maximum** | 700 lb.-ft. / 96.7 kg.-m |
| **Rotation Range** | 0 - 50 RPM |
| **Air Consumption** | 120 SCFM @ 50 RPM & 100 psi / 3.39 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 & Dimensions** | |
| **Width** | 75 " / 1905 mm |
| **Length (Boom @45°)** | 195 " / 4950 mm |
| **Minimum Height** | 44 " / 1120 mm |
| **Height (Boom @45°)** | 188 " / 4775 mm |
| **Hole Size** | 1.75-4.5 " / 44-114 mm |
| **Weight Less Drifter** | 5400 lbs. / 2450 kg. |
| **Material To Be Drilled** | |
| **Hard** | Yes |
| **Medium** | Yes |
| **Soft** | Yes |
| **Drill Application** | |
| **Mining** | Yes |
| **Construction** | Yes |
| **Quarry** | Yes |
| **Drilling Method** | |
| **Drifter** | Yes |

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# GLOSSARY

## Terms and Abbreviations

| | |
|---|---|
| AVF | average value factor |
| bhp | brake horsepower |
| CAT | category |
| CENWW | U.S. Army Corps of Engineers, Walla Walla District |
| CMR | cost of money rate |
| cwt | hundredweight |
| D | diesel |
| DC | discount code |
| DEPR | depreciation |
| DT | drive tire |
| E | electricity |
| EAF | economic adjustment factor |
| EK | economic key |
| EP | Engineer Pamphlet |
| ER | Engineer Regulation |
| 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 |
| SLV | salvage value |

| | |
|---|---|
| SUB | subcategory |
| TCI | tire cost index |
| TEV | total equipment value |
| TT | trailing tire |
| WHPY | working hours per year |
| wk | week |
| WLS | water, lube, and supplies |
| yr | year |

*[This page intentionally left blank]*

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