

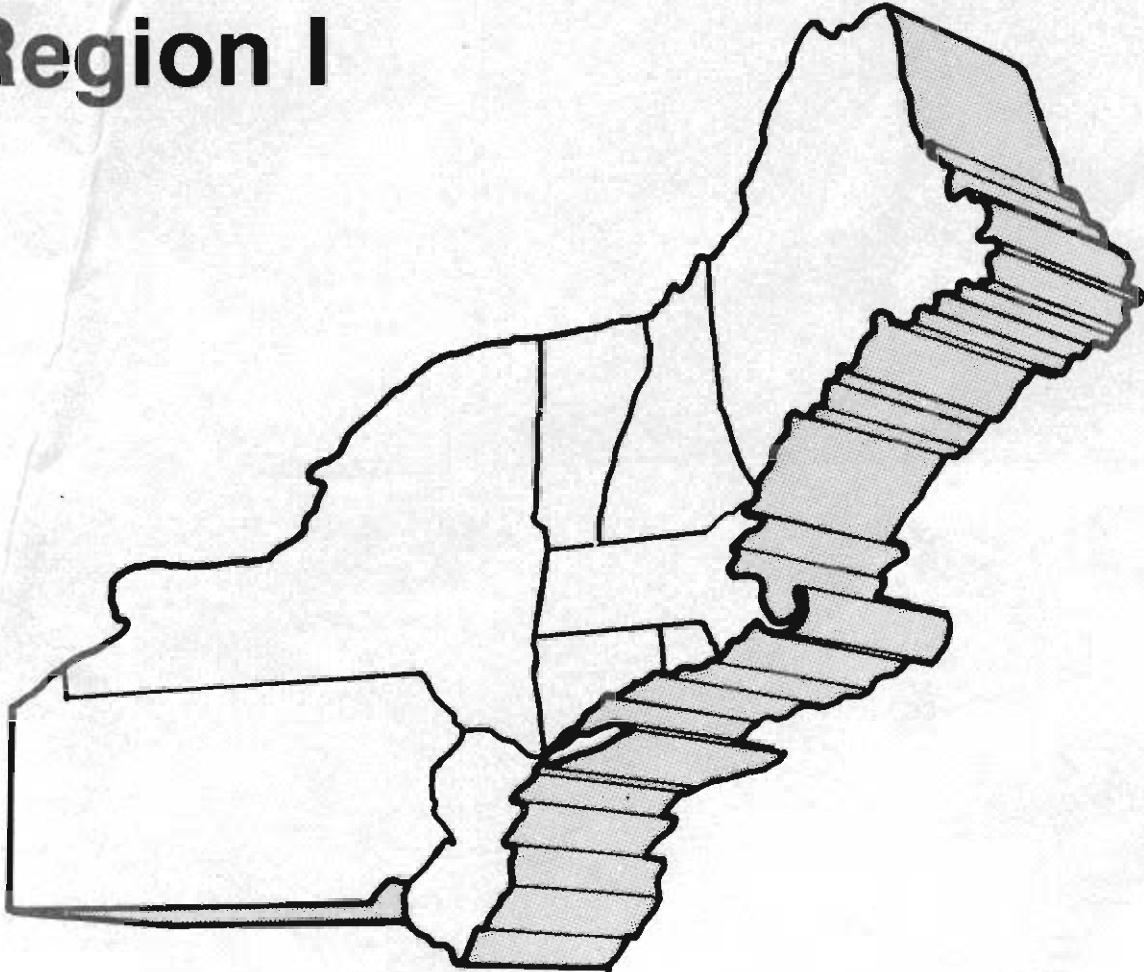


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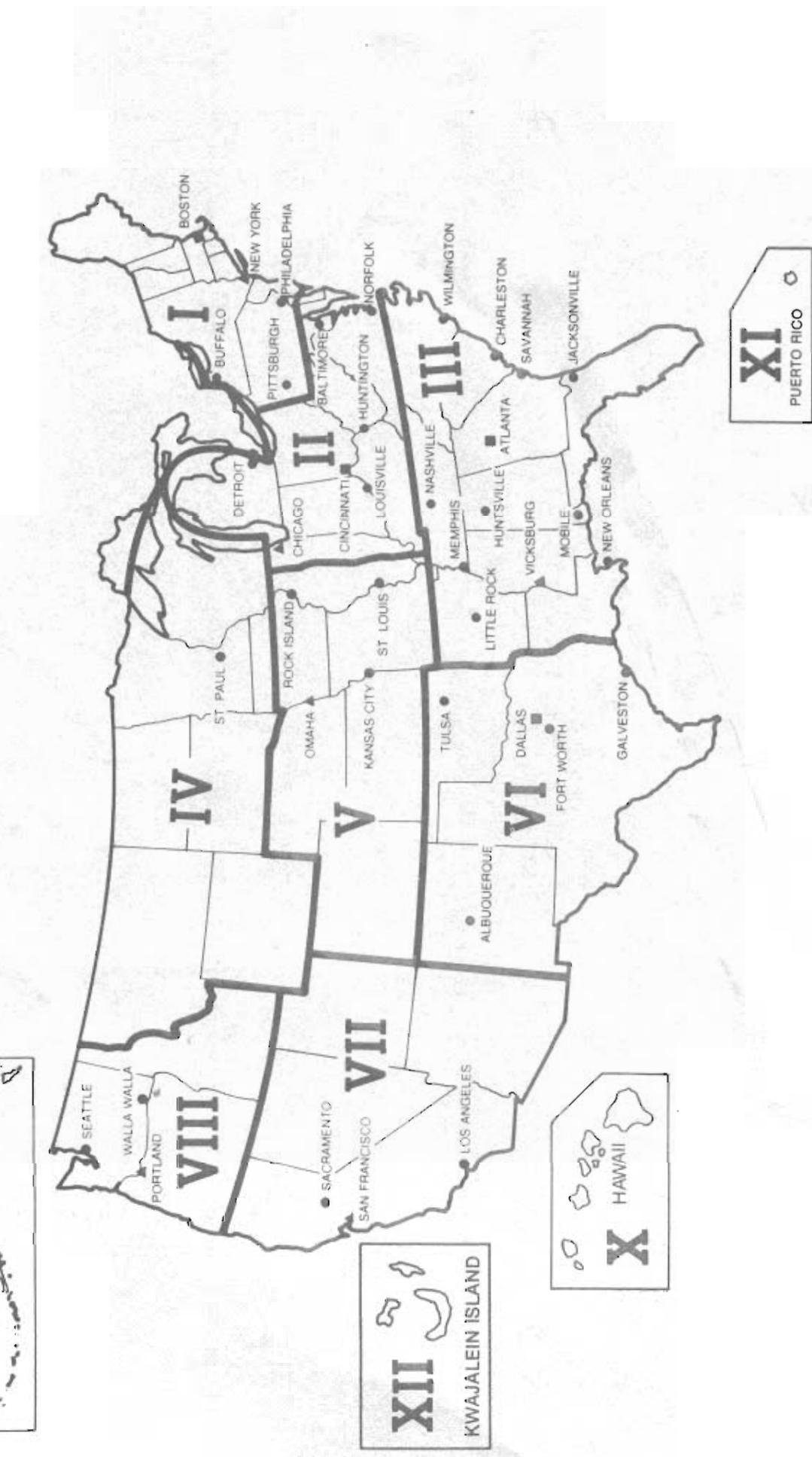
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Construction Equipment Ownership and Operating Expense Schedule

Region I



Regions for the Construction Equipment Ownership and Operating Expense Schedule



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

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No. 1110-1-8

1 June 1987

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP
AND OPERATING EXPENSE SCHEDULE

1. Purpose. This pamphlet establishes predetermined equipment ownership and operating expense rates for use in preparation of estimates and in pricing negotiated procurements requiring independent Government estimates.

2. Applicability. This pamphlet applies to all HQUSACE/OCE elements and field operating activities having either military or civil works responsibilities for construction contracts in Region I which includes the following states:

Connecticut	New York
Maine	Pennsylvania
Massachusetts	Rhode Island
New Hampshire	Vermont
New Jersey	

3. General. The rates and percentages shown in this pamphlet are based on equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor. These rates and percentages do not include allowances for operating labor, mobilization or demobilization costs, overhead, or profit, and do not represent rental charges for those in the business of renting equipment. The rates included in this pamphlet are based on construction equipment purchased new on 1 July 1985. Ownership percentages and operating cost factors for marine equipment, together with the methodology contained herein, can be used to develop marine equipment rates.

FOR THE COMMANDER:

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CHAPTER 1

INTRODUCTION

1-1. Purpose. This pamphlet establishes predetermined equipment ownership and operating expense rates for use in preparation of estimates and in pricing negotiated procurements requiring independent Government estimates (see FAR 31.105).

1-2. Applicability. This pamphlet applies to all field operating activities having either military or civil works responsibilities for construction contracts for work in Region I, which includes the following states:

Connecticut	New York
Maine	Pennsylvania
Massachusetts	Rhode Island
New Hampshire	Vermont
New Jersey	

1-3. References. See APPENDIX A.

1-4. General. The rates and percentages shown in this pamphlet are based on equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor. These rates and percentages do not include allowances for operating labor, mobilization or demobilization costs, overhead, or profit, and do not represent rental charges for those in the business of renting equipment. The rates included in this pamphlet are based on construction equipment purchased new on 1 July 1985. Ownership percentages and operating cost factors for marine equipment, together with the methodology contained herein, can be used to develop marine equipment rates.

1-5. Use. This pamphlet shall be used as the basis for estimating equipment costs on those contracts which require an independent Government estimate. These include all construction contracts and all negotiated procurements. This pamphlet shall also be used in pricing of contract modifications when:

- a. Cost or pricing data as defined in FAR 15.8 is not required.
- b. Cost or pricing data is required and actual cost data to support either ownership or operating costs for equipment or equipment groups of similar serial and series is not available.

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

CHAPTER 2

METHODOLOGY

2-1. General. This pamphlet provides hourly use rates for construction equipment and annual ownership percentages and operating cost factors for marine plant and equipment. The methodology used to compute the hourly use rates for construction equipment is provided in paragraph 2-2. The methodology used to compute the annual ownership percentages for marine equipment is provided in APPENDIX H.

2-2. Construction Equipment.

a. General. The total hourly rates include all costs of owning and operating equipment except: (1) operating labor; (2) mobilization and demobilization; and (3) overhead expenses. The ownership portion of the rate consists of allowances for depreciation and cost of facilities capital. Operating costs include allowances for: fuel; filters, oil and grease; servicing the equipment; repair and maintenance; and tire wear and tire repair. Area factors used to compute the hourly equipment ownership and operating expenses are provided in APPENDIX B.

b. Operating Conditions.

(1) Equipment rates have been computed for both "Average" and "Severe" working conditions in accordance with the "Guide for Selecting Operating Conditions" in APPENDIX C. "Difficult" conditions are the arithmetic mean of "Average" and "Severe" rates. Where only the "Average" rate is shown, the one rate will apply for all conditions.

(2) Average, difficult, or severe conditions in accordance with contract specifications are determined by the Contracting Officer on the basis of supporting evidence and in general accordance with the "guide" in APPENDIX C. Difficult conditions are those lying midway between average and severe. Evaluation of operating conditions for equipment not listed in APPENDIX C will be consistent with the examples shown in the "guide."

c. Ownership Costs. The ownership portion of the rate consists of allowances for depreciation and cost of facilities capital and is computed from a predetermined "equipment cost." "Equipment cost" is based on the total catalog price for the equipment, including extras normally purchased, and required safety features. A 7.5 percent discount is taken for all

equipment except highway trucks which are discounted 15.0 percent. Freight and sales tax are added to the discounted price to arrive at the predetermined "equipment cost."

(1) Depreciation.

(a) Depreciation was computed using the straight-line method. The hourly rate was determined by dividing the "Depreciation Value" ("equipment cost" less tire cost and estimated salvage) by the expected normal life of the equipment in hours.

(b) Salvage value for the used equipment was determined from the "Handbook of New and Used Construction Equipment Values" (Green Guide) and advertisements of used equipment for sale displayed in current engineering and construction magazines. The salvage value percentages used for each type of equipment are listed in APPENDIX D (column "SLV") as a percent of the "equipment cost" and are equal for both "Average Condition" and "Severe Condition." The percentages are adjusted by the economic adjustment factor (EAF) to bring the salvage value up to current price levels. The EAF factor is obtained from APPENDIX E and is equal to the economic index for the current year divided by the economic index for the year the equipment was manufactured. The ownership costs shown in TABLE 3-1 represent the hourly costs for new equipment manufactured and purchased in 1985.

(c) Tire cost was considered to be an operating expense and was subtracted from the "equipment cost" before computing depreciation. The tire cost is that cost at the time the equipment was manufactured. This cost was obtained by multiplying current tire prices by the appropriate tire indices (year of manufacture divided by current year), which are listed in APPENDIX E. Current tire prices are provided in APPENDIX J for information only.

(d) The expected normal life of the equipment was established from manufacturers' or equipment associations' recommendations. The expected normal life in hours is given in APPENDIX D, (Column "LFE" in thousand Hrs.).

(e) Annual average operating hours have been established for equipment operation within the region covered by this pamphlet. Average hours of use per year were determined by reducing the maximum available hours (40 hours per week, 52 weeks per year) to allow for lost time due to weather, employee's holidays, equipment maintenance and repairs, mobilization and demobilization and miscellaneous down time. The hours of use per year shown in APPENDIX B is equivalent to one year's life for a single shift operation.

(2) Cost of Facilities Capital ("CFC").

(a) The cost of facilities capital (CFC) as defined in FAR 31.205-10 and CAS 414 is included in the use rates. This cost was computed by multiplying the cost of money rate (7.625%) determined by the Secretary of the Treasury pursuant to P.L. 92-41 (85 Stat. 97) by the average value of equipment and prorating the result over the annual operating hours. This cost of money rate was discounted to 6.10% to avoid duplication when applying markups for overhead and profit (assumed to be 25.0%). The Department of the Treasury adjusts the cost of money rate on or about 1 January and 1 July each year; these revisions are printed in the Federal Register.

$$CFC/hr = \frac{[(N-1)(1+S)+2]}{2N} \cdot \frac{\text{Equipment Cost}}{\text{Work Hrs per Year}} \cdot (6.10\%)$$

Where: N = No. of years in depreciation period
S = Salvage Value Factor

(b) The salvage value is determined by multiplying the salvage factor (expressed as a percentage in APPENDIX D) times the economic adjustment factor as explained in paragraph 2-2.c.(1)(b).

(3) Licenses, Taxes, Storage and Insurance. License fees, taxes, storage and insurance costs are considered indirect costs and are not included in the use rates. If the Contractor normally allocates these costs directly to a particular item of work, an allowance for these costs may be made.

d. Operating Cost.

(1) General. The total operating cost is the sum of the costs for fuel, filters, oil and grease, servicing the equipment, repairs and maintenance, tire wear and tire repair.

(2) Fuel Consumption Cost.

(a) The fuel consumption in gallons per BHP-hour is listed in APPENDIX D for both "Average" and "Severe" conditions. The fuel consumption rate for "Severe Conditions" is 30 percent greater than the "Average Conditions" rate. Fuel consumption is computed by using the following formula:

$$\text{Fuel consumption(gal/hr)} = \frac{\text{BHP} \times \text{HP Factor} \times \text{Lbs Fuel per BHP-HR}}{\text{Wt of Fuel per Gallon}}$$

where:

(1) BHP as used herein is the net brake HP of the engine at the flywheel under the following conditions: (a) at sea level; and (b) at full-load governed speed with engine fully equipped with generator, fan, air cleaner, and other regular equipment.

(2) Gasoline consumption = 0.62 lbs per BHP-hr

(3) Diesel consumption = 0.42 lbs per BHP-hr

(4) Gasoline wt = 6.1 lbs per gallon

(5) Diesel wt = 7.1 lbs per gallon

(b) Electricity consumption = HP factor x 1 KW per electric HP hour. This assumes that an electric motor uses 1 KW/HP considering all inefficiencies.

(c) 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. The horsepower factor used in the fuel and electricity consumption formulas represents the average percent of full rated horsepower being utilized by the engine. The "HP Factors" are given in APPENDIX D.

(d) The cost per gallon for gasoline and diesel fuel and the cost per kilowatt hour for electricity used to compute the hourly fuel and electricity costs are shown in APPENDIX B. The hourly fuel costs for all gasoline powered equipment and 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.

(e) The estimated hourly fuel costs included in TABLE 3-1 are also noted separately for both average and severe conditions. Hourly fuel costs will be adjusted in the event the averaged (weighted) fuel prices (F.O.B. jobsite) vary by more than 10 percent above or below the price assumed in the basic computation. For example, if the price per gallon should increase by 15 percent, then 15 percent of the hourly fuel cost will be added to the total hourly rate. The Contractor will be required to furnish copies of all fuel supply contracts and invoices to the Government. Request for upward adjustment in the rates will be considered only where fuel is to be supplied by recognized distributors. In no event shall the allowance for the hourly "FOG" costs be adjusted in conjunction with any fuel price revisions.

(3) Filters, Oil and Grease Costs (FOG). "FOG" costs are computed as either a percentage of the hourly fuel costs (see APPENDIX D) or, if the equipment has no engine, a reasonable

hourly cost is included. Labor, fringe benefits, and equipment costs for fueling, greasing, and servicing are included in the rate. Material costs for filters, oil, and grease include an allowance for all taxes. The "FOG" allowance for cranes, draglines, backhoes, and shovels (except Key Numbers 150, 185, 200, 210, and 570) has been reduced to allow for servicing normally performed by the oiler assigned to the piece of equipment.

(4) Maintenance_and_Repair_Costs.

(a) The cost of maintenance and repairs includes all expenses incurred for parts, sales taxes, labor, fringe benefits, shop overhead, supporting facilities, outside specialty services, and maintenance equipment. The basic hourly costs are computed as follows:

$$\text{Repairs/Hr} = \frac{(\text{New_Equipment_Cost} - \text{Tire_Cost})}{\text{Life in Hrs}} (\text{Repairs \%})$$

The maintenance and repair cost percentages are given in APPENDIX D (Column "RPR"). The tire cost is the cost of the tires when the equipment was purchased new.

(b) The basic hourly rate for maintenance and repairs is adjusted by two multiplying factors so that actual costs and site conditions are considered.

(1) Economic_Adjustment_Factor. The economic adjustment factor (EAF) is used to adjust the basic hourly rate to current price levels. The indexes in APPENDIX E are used to develop this factor which is equal to the economic index for current year divided by the economic index for the year the piece of equipment was purchased new.

(2) Labor_Adjustment_Factor. The labor adjustment factor (LAF) is used to adjust the repairs percentage (RPR) to account for variations in labor costs. The factor for the area covered by this pamphlet is given in APPENDIX B.

(5) Hourly_Tire_Cost.

(a) Tires included on rubber-tired equipment are the bias ply tires suggested as standard equipment by the equipment manufacturers.

(b) The hourly tire 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. It has been determined that a recap costs approximately 50 percent of

the new tire cost and that the life of a new tire plus recapping will equal approximately 1.8 times the "useful life" of a new tire. The current tire costs are shown for information in APPENDIX J.

(c) The useful tire life was determined from the method and tables in "Production and Cost Estimating of Material Movement with Earthmoving Equipment," (dated September 1975) prepared by Terex Division of General Motors. The maximum tire life, however, has been assumed to be as indicated in APPENDIX F. A sample computation of the tire wear factors for off-highway haul units is given in APPENDIX F.

(d) The tire wear factor for front tires for belt loaders shown in APPENDIX D is used to provide an hourly allowance for belt wear of the conveyor belt.

(6) Tire Repair Costs. Tire repairs are computed as 15 percent of the hourly tire wear cost.

e. Standby. The standby rate is computed from the average condition rates by allowing the full "CFC" hourly cost plus one-fourth of the hourly depreciation. No more than 8 hours of standby will be paid during a 24-hour day, nor more than 40 hours per week. Standby time will not be allowed unless the equipment has been in idle status in excess of 16 hours during a 24-hour day. Likewise, standby will not be allowed during periods when the equipment would have otherwise been in idle status. Actual operating time during a week will be credited against the 40 hours maximum standby allowance.

f. Working Hours. The hourly use rates shown in TABLE 3-1 are computed on the basis of a 40-hour work week. When the Contractor works more than 40 hours per week the cost for "CFC" will be excluded from the hourly rate for those hours in excess of 40 hours per week. The hourly use rates for work weeks greater than 40 hours can be computed as shown in the sample computations or may be calculated by the use of TABLE 3-4.

g. Sample Computation. A sample computation has been provided in Figure 2-1 to illustrate how the hourly use rates in TABLE 3-1 were computed using the methodology stated in this pamphlet. When an hourly rate for a specific piece of equipment must be computed by the methods in Figure 2-1, the procedure given shall be followed.

CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET <small>(EP 1110-1-8)</small>	
1. REQUIRED DATA	(Since this request for information is to less than ten persons, OMB approval under Section 3507, 44 USC, is not required.)
a. Unit Number <u>3775</u>	
(1) Equipment Description <u>P/H 70 Ton Truck Crane</u>	
(2) Model and Series <u>Model 9070</u>	
(3) Year Purchased <u>1985</u>	(4) Year Manufactured <u>1985</u>
(5) Equipment Horsepower <u>140 HP</u>	(6) Carrier Horsepower <u>335 HP</u>
(7) Fuel Type <u>DIESEL^(off)/DIESEL^(on)</u>	(8) Shipping Weight <u>1,115 CWT</u>
(9) Tire Size: Front- <u>16.5x22.5 16ply</u> (4ea) Pwy	Drive- <u>12x20 16ply</u> (8ea) Trailing- <u>—</u>
b. Key Number from APPENDIX D <u>230</u>	
(1) Condition <u>AVERAGE</u>	
(2) Salvage Value <u>15%</u>	(3) Life <u>20,000 hrs</u>
(4) Equipment Fuel Factor <u>.038</u>	(5) Carrier Fuel Factor <u>.006</u>
(6) POG Factors: Gas <u>—</u>	Diesel <u>.26</u> Electric <u>—</u>
(7) Tire Wear Factor: Front <u>.97</u>	Drive <u>.78</u> Trailing <u>—</u>
(8) Repairs Cost Factor <u>.70</u>	
2. EQUIPMENT COST	
a. List Price Year of Manufacture (including extras)	<u>-\$ 386,980.00</u>
(1) Discount: (List Price) x .075 <small>(.075 for Highway Trucks)</small>	<u>-\$ 386,980 x .075 = (-)\$ 29,023.50</u>
(2) Freight: (Shipping Weight) x (Prep. and Del. Rate) <small>From 1-a-(8) From APPENDIX B</small>	<u>= (1,115) x (\$ 4.00) = (+)\$ 4,460</u>
b. Subtotal: Summation of Part a. (Use actual cost when available)	<u>-\$ 362,416.50</u>
(1) State Sales Tax: (Subtotal) x (Tax Rate) <small>From 2-b</small>	<u>= (\$ 362,417) x (.0055) = (+)\$ 19,932.91</u>
c. Equipment Cost: Summation of Part b. (Use actual cost when available)	<u>-\$ 382,349.41</u>

Figure 2-1. Example of Equipment Rate Computation.

CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET (Continued)

3. LIFE (N)(Life From 1-b-(3) \div (Hours Use/Year From APPENDIX B))

$$-(\underline{20,000} \text{ Hrs}) \div (\underline{1,450} \text{ Hrs/Yr}) \quad \underline{13.79} \text{ yrs.}$$

4. ECONOMIC ADJUSTMENT FACTOR (EAF)(Economic Index for Present) \div (Economic Index for Year)
Year From APPENDIX E of Manufacture From APP. E

$$-(\underline{3632}) \div (\underline{3395}) \quad \underline{-1.070} \text{ (EAF)}$$

5. SALVAGE VALUE FACTOR (S)(Salvage Factor) \times (EAF).
From 1-b-(2) From 4

$$-(\underline{0.15}) \times (\underline{1.070}) \quad \underline{-0.161} \text{ (S)}$$

6. OWNERSHIP COSTS

a. Depreciation:

Equipment
 $\frac{[(Cost \text{ From}) \times [1.0 - (S \text{ From})] - (Tire Cost)]}{2-c} \div \frac{\text{Life}}{5 \text{ Yrs. of Mfg.}} \text{ (From 1-b-(3))}$

$$-(\$ \underline{382,349}) \times [1.0 - (\underline{0.161})] - (\underline{\$ 6,39}) \div (\underline{20,000} \text{ Hrs}) = \$ \underline{15.71} \text{ /Hr.}$$

b. Cost of Facilities Capital (CPC):

Life
(1) $\frac{[(1.0) \times ((S \text{ From}) + 1.0) + 2.0]}{3} \div \frac{[(From) \times 2.0]}{3}$

$$-[(\underline{13.79} \text{ Yrs}) - 1.0] \times [(\underline{0.161}) + 1.0] + 2.0 \div [(\underline{13.79} \text{ Yrs}) \times 2.0] = \underline{0.611}$$

Equipment Average CPC Factor \div Hrs Use/
(2) $\frac{(Cost \text{ From}) \times (Value Factor) \times (From Para. 1)}{2-c} \div \frac{(Yr \text{ From})}{2-2.c.(2)} \text{ APP. B}$

$$-(\$ \underline{382,349}) \times (\underline{0.611}) \times (\underline{0.061}) \div (\underline{1,450} \text{ Hrs/Yr}) \quad \underline{-\$ 9.83} \text{ /Hr.}$$

c. Total Hourly Ownership: (Sum 6-a + 6-b-(2)) $\quad \underline{-\$ 25.54} \text{ /Hr.}$

Figure 2-1. (Continued)

CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET (Continued)

7. OPERATING COSTS

a. Fuel Costs:

(1) Equipment: (Equip Fuel Factor) x (H.P. From) x (Fuel Cost)
 From 1-b-(4) 1-a-(5) Per Gal.
 $= (.038) \times (140 \text{ HP}) \times (\$.62 / \text{Gal}) = \$ 3.30 / \text{Hr.}$

(2) Carrier: (Carrier Fuel Factor) x (H.P. From) x (Fuel Cost)
 From 1-b-(5) 1-a-(6) Per Gal.
 $= (.006) \times (335 \text{ HP}) \times (\$.78 / \text{Gal}) = \$ 1.57 / \text{Hr.}$

(3) Total Fuel Costs: (Sum 7-a-(1), 7-a-(2)) $= \$ 4.87 / \text{Hr.}$

b. POG Costs:

(1) Equipment: (POG Factor) x (Hourly Fuel Cost)
 From 1-b-(6) From 7-a-(1)
 $= (.26) \times (\$ 3.30 / \text{Hr}) = \$ 0.86 / \text{Hrs.}$

(2) Carrier: (POG Factor) x (Hourly Fuel Cost)
 From 1-b-(6) From 7-a-(2)
 $= (.26) \times (\$ 1.57 / \text{Hr}) = \$ 0.41 / \text{Hr.}$

(3) Total POG Costs: (Sum 7-b-(1), 7-b-(2)) $= \$ 1.27 / \text{Hr.}$

c. Repairs Cost:

(1) Repair Factor:

(Repairs Cost Factor) x (EAF) x (LAP From)
 From 1-b-(8) From 4 APP. B
 $= (.70) \times (.070) \times (.03) = 0.771$

(2) Hourly Repairs:

Equipment Life
 [(Cost From) - (Tire Cost)] x (Repair Factor) ÷ (From)
 2-c Yr. of Mfg. From 7-c-(1) 1-b-(3)
 $= [(\$ 382,349) - (\$ 6,639)] \times (.771) \div (20,000 \text{ Hr}) = \$ 14.48 \text{ Hr.}$

Figure 2-1. (Continued)

CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET (Continued)

d. Tire Wear Costs (Current Price Levels):

$$(1) \text{ Front Tires: } 1.5 \times \frac{\text{Front Tires}}{\text{Cost}} \div [1.8 \times (\text{Pfr Frm}) \times (\text{Life Frm})] \text{ l-b-(7) Tbl F-1}$$

$$= 1.5 \times (\underline{\underline{\$25.12}}) \div [1.8 \times (\underline{\underline{.97}}) \times (\underline{\underline{5,000 \text{ Hr}}})] = \$ \underline{\underline{0.43}} / \text{Hr.}$$

$$(2) \text{ Drive Tires: } 1.5 \times \frac{\text{Drive Tires}}{\text{Cost}} \div [1.8 \times (\text{Pfr Frm}) \times (\text{Life Frm})] \text{ l-b-(7) Tbl F-1}$$

$$= 1.5 \times (\underline{\underline{\$4,256}}) \div [1.8 \times (\underline{\underline{.78}}) \times (\underline{\underline{5,000 \text{ Hr}}})] = \$ \underline{\underline{0.91}} / \text{Hr.}$$

$$(3) \text{ Trailing Tires: } 1.5 \times \frac{\text{Trailing Tires}}{\text{Cost}} \div [1.8 \times (\text{Pfr Frm}) \times (\text{Life Frm})] \text{ l-b-(7) Tbl F-1}$$

$$= 1.5 \times (\underline{\underline{_ _ _}}) \div [1.8 \times (\underline{\underline{_ _ _}}) \times (\underline{\underline{_ _ _ \text{ Hr}}})] = \$ \underline{\underline{_ _ _}} / \text{Hr.}$$

$$(4) \text{ Total Tire Wear Cost: (Sum 7-d-(1) thru (3))} = \$ \underline{\underline{1.34}} / \text{Hr.}$$

$$\text{e. Tire Repair Cost: } (\text{Tire Wear Frm 7-d-(1)}) \times 0.15$$

$$= (\underline{\underline{\$1.34}}) \times 0.15 = \$ \underline{\underline{0.20}} / \text{Hr.}$$

$$\text{f. Total Operating Costs: (Sum 7-a thru 7-e)} = \$ \underline{\underline{22.16}} / \text{Hr.}$$

g. TOTAL HOURLY RATES

$$\text{a. Single Shift Hourly Rate: (40 Hours per Week)}$$

(Ownership Costs Frm 6-c) + (Operating Costs Frm 7-f)

$$= (\underline{\underline{\$25.54}} / \text{Hr}) + (\underline{\underline{\$22.16}} / \text{Hr}) = \$ \underline{\underline{47.70}} / \text{Hr.}$$

b. Hourly Rate for Other Work Shifts:

(Depreciation) + [(CPC Frm 6-a) \times 40 \div (Work Hrs)] + (Operating Costs) Per Week Frm 7-f

$$= (\underline{\underline{\$15.71}} / \text{Hr}) + [(\underline{\underline{\$9.83}} / \text{Hr}) \times 40 \div (\underline{\underline{60 \text{ Hr/Wk}}})] + (\underline{\underline{\$22.16}} / \text{Hr}) = \$ \underline{\underline{44.42}} / \text{Hr.}$$

c. Hourly Standby Rate:

(Depreciation) \times 0.25 + (CPC Frm 6-a \times 0.25)

$$= (\underline{\underline{\$15.71}} / \text{Hr}) \times 0.25 + (\underline{\underline{\$9.83}} / \text{Hr}) = \$ \underline{\underline{13.76}} / \text{Hr.}$$

Figure 2-1. (Continued)

CHAPTER 3

RATE SCHEDULE

3-1. Introduction. Hourly rates for construction equipment for both average and severe conditions are presented in TABLE 3-1. The rates may be adjusted when (a) "Difficult Conditions" are specified by the contract, (b) actual acquisition cost is significantly different from the "Equipment Cost" shown, (c) age is different from that used, (d) license, taxes, storage and insurance costs are charged directly to an item of work, (e) fuel costs differ by more than 10% from the cost shown, (f) CFC percentage for the time period in question is different than that shown in paragraph 2-2.c.(2), and (g) work week exceeds 40 hours per week. Whenever one or more of these conditions exist, the rates may be adjusted using the tables in this chapter.

3-2. Hourly Equipment Ownership and Operating Expense.

a. Description.

(1) The following example illustrates how the equipment is listed in TABLE 3-1. The unit number 3685 is the identifying number of this piece of equipment in the input and output computer listings. The number 5530 is the model number of the equipment (American Model 5530 Truck Crane). The crane is rated at 75 tons and is equipped with a 170-foot boom. The crane has a 115-horsepower engine, the carrier has a 238-horsepower engine and both engines are diesel. The cost column reflects the pre-determined "equipment cost," used to compute the rates.

(2) The "total hourly rate" column includes all ownership and operating expenses, including fuel costs. The "Adjustable Elements" column shows ownership and fuel costs broken out of the total rate so they can be adjusted as indicated in CHAPTER 2 and 3. Operating costs may be determined by subtracting the ownership cost from the total hourly rate. The CWT column is the shipping weight of the equipment in hundredweight.

b. Truck Selection. Because of the large number of possible combinations of highway truck chassis and truck bodies, they are listed separately. To make an exact truck selection for a given set of hauling conditions would require lengthy calculations; however, for estimating purposes the selection can be made by using the GVW rating of the truck chassis. The combined weight of the truck chassis, the truck body and the payload must not exceed the GVW rating shown for the truck

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

c. Dozer Selection. Because of the various number of dozer and ripper combinations available for each crawler tractor the tractors and attachments are listed separately. Only the hourly expense for those attachments that are required to perform the work shall be allowed.

d. Equipment Extras. Equipment extras included on the major pieces of equipment in TABLE 3-1 are listed in APPENDIX G.

e. Equipment Not Listed. When an item of equipment is not listed in TABLE 3-1 the hourly rate may be determined by using the hourly rate listed for a similar piece of equipment or by proportioning a rate listed so that capacity, size, and horsepower are properly considered. When an hourly rate cannot be determined from TABLE 3-1, the rate will be calculated following the methodology outlined in CHAPTER 2.

f. Over-Age Equipment. When an item of equipment has exceeded the economic service life given in APPENDIX D, it is considered over-age and the hourly use rate will not exceed the rate for a piece of equipment that is not over-age. An hourly rate for over-age equipment will be computed from TABLE 3-1 and the age adjustment tables or as shown in Figure 2-1 on the basis that the equipment is as old as possible without exceeding the "life" as shown in APPENDIX D. In other words, the base year for determining over-aged equipment value should be the year for which the last factor in TABLE 3-2 is given.

g. Equipment Purchased Used. A detailed method for computing an hourly use rate for equipment purchased used has not been included in this pamphlet. The condition of the equipment at the time of purchase (extent of capital improvements, mechanical condition of drive train, previous hours of operation, etc.) is difficult or impossible to determine and to evaluate when computing an hourly use rate based on actual acquisition cost. When actual cost data in accordance with paragraph 1-5 is not available, an hourly use rate and standby rate for equipment purchased used will be computed on the basis that the equipment was purchased new by the contractor in the year it was manufactured.

h. Rate Adjustment Tables. The rate adjustment tables (TABLES 3-2, 3-3 and 3-4) should be used to adjust the hourly rates in TABLE 3-1 when the actual age of the equipment and working hours are to be considered. These tables may be used whenever information is available to indicate that the

contractor's equipment is not the same age as the equipment listed in this pamphlet or when the hours worked have exceeded 40 hours per week. The rate adjustment tables have been developed from the equations used to calculate ownership and standby costs and it has been determined that they provide reasonable adjustment factors to allow a short-cut method for computing an hourly use rate when actual conditions are considered. When cost or pricing data is available the rate adjustment tables may be used in lieu of a step-by-step rate computation for each item of equipment, provided that the equipment is equivalent in size, capacity, horsepower, etc. to the item listed in the pamphlet. In order to facilitate these adjustments, work sheets such as those shown at the end of TABLES 3-2 and 3-3, may be used.

i. Hourly_Rate_Elements. The individual cost elements, which comprise the total hourly rate (for both average and severe conditions) are shown in TABLE 3-5. These hourly rate elements are listed by equipment unit number corresponding to each piece of equipment shown in TABLE 3-1. Ownership cost elements consist of depreciation (DEPR) and cost of facilities capital (CFC). Operating cost elements consist of fuel (FUEL); filters, oil, and grease (FOG); tire wear (TIRE WEAR); tire repair (TIRE RPR); and maintenance and repair costs (REPR).

j. CFC_Adjustment. If the cost of money rate shown in paragraph 2-2.c.(2) is no longer current, the CFC portion of the rate shall be adjusted upward or downward to match the cost of money rate for the period of use in question. For example, if the cost of money should increase by 10% (say from 8.50% to 9.35%), then 10% of the hourly CFC cost (from TABLE 3-5) will be added to the total hourly rate. See APPENDIX I for a complete listing of cost of money rates to date.

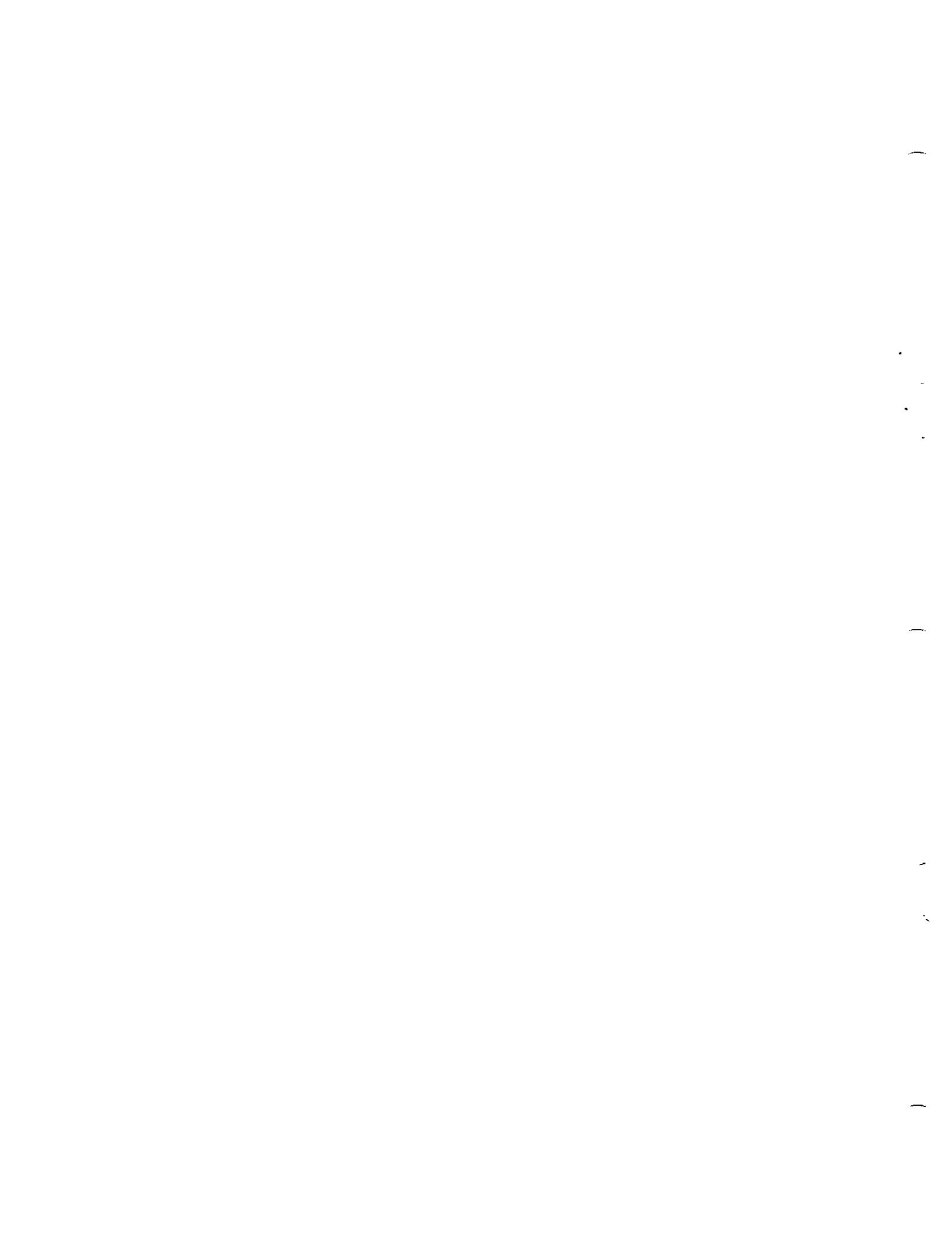


TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

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TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
AGGREGATE/CHIP SPREADER *****												
ETNYRE - SELF-PROPELLED												
1015	SPREAD TO 8" DEPTH & 10' WIDE	184 HP G	58,476	19.77		2.77	6.17	7.32		155		
1020	SPREAD TO 8" DEPTH & 13' WIDE	140 HP D	65,381	15.16		3.09	6.90	2.60		160		
ROSCO - SELF-PROPELLED												
1030	CHIP SPREADER AT 10' WIDE	137 HP G	60,668	17.85		2.87	6.40	5.45		170		
1035	CHIP SPREADER AT 13.5' WIDE	137 HP G	61,438	17.98		2.90	6.48	5.45		175		
AIR COMPRESSORS, PORTABLE ***** (HOSE NOT INCLUDED)												
ROTARY SCREW												
1050	SIZE 100 CFM QUIET 100 PSI	50 HP G	11,495	5.43		0.54	1.17	2.57		20		
1055	SIZE 100 CFM QUIET 100 PSI	33 HP D	13,790	3.45		0.65	1.41	0.78		26		
1060	SIZE 125 CFM QUIET 100 PSI	70 HP G	14,069	7.24		0.66	1.43	3.60		24		
1065	SIZE 125 CFM QUIET 100 PSI	51 HP D	14,964	4.19		0.71	1.53	1.20		26		
1070	SIZE 175 CFM QUIET 100 PSI	70 HP G	15,355	7.47		0.72	1.57	3.60		26		
1075	SIZE 175 CFM QUIET 100 PSI	54 HP D	17,423	4.72		0.82	1.78	1.27		28		
1080	SIZE 185 CFM QUIET 100 PSI	70 HP G	15,853	7.56		0.75	1.62	3.60		27		
1085	SIZE 185 CFM QUIET 100 PSI	69 HP D	18,702	5.40		0.88	1.91	1.63		29		
1090	SIZE 250 CFM QUIET 100 PSI	88 HP D	21,887	6.54		1.03	2.24	2.07		55		
1095	SIZE 375 CFM QUIET 100 PSI	122 HP D	34,543	9.83		1.61	3.48	2.87		79		
1100	SIZE 450 CFM QUIET 100 PSI	152 HP D	44,770	12.55		2.10	4.53	3.58		89		
1105	SIZE 600 CFM QUIET 100 PSI	188 HP D	53,761	15.24		2.52	5.44	4.43		97		
1110	SIZE 750 CFM QUIET 100 PSI	228 HP D	62,341	17.97		2.93	6.33	5.37		128		
1115	SIZE 825 CFM QUIET 100 PSI	260 HP D	70,936	20.47		3.33	7.21	6.13		130		
1120	SIZE 900 CFM QUIET 100 PSI	270 HP D	77,726	21.97		3.65	7.91	6.36		148		
1125	SIZE 1000 CFM QUIET 100 PSI	294 HP D	75,579	22.32		3.55	7.69	6.93		186		
1130	SIZE 1200 CFM QUIET 100 PSI	400 HP D	103,929	30.54		4.90	10.61	9.42		196		
1135	SIZE 1600 CFM QUIET 100 PSI	456 HP D	117,501	34.64		5.53	11.99	10.74		216		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
AIR EQUIPMENT ***** (HOSE NOT INCLUDED)														
CLEMCO - SANDBLASTERS														
1150	SOW-1042P SANDBLASTER 1/2" HOSE 101CFM A CAP. 100 LBS. W/ACC. AND 25' HOSE	1,546	1.04		0.13	0.36	0.00			3				
1155	SOW-1440P SANDBLASTER 1" HOSE 101CFM A CAP. 150 LBS W/ACC. AND 50' HOSE	2,816	1.83		0.23	0.65	0.00			5				
1160	SOWB-1648P SANDBLASTER 1" HOSE 101CFM A CAP. 300 LBS. W/ACC. AND 50' HOSE	2,835	1.84		0.23	0.65	0.00			6				
1165	SOWB-2452HPSANDBLASTER 1-1/4" HOS 216CFM A CAP. 600 LBS. W/ACC. AND 50' HOSE	3,115	2.09		0.26	0.72	0.00			7				
1170	SCH-3079R SANDBLASTER 1-1/4" PIPE 216CFM A CAP. 1400 LBS W/HOPPER & 50' HOSE	4,213	2.78		0.34	0.97	0.00			9				
1175	MOD 60-H SANDBLASTER 1-1/4" PIPE 450CFM A CAP. 3-TONS W/2 NOZZ. & 50' HOSE	12,249	7.85		0.97	2.74	0.00			28				
1180	MOD 120-H SANDBLASTER 1-1/4" PIPE 700CFM A CAP. 6-TONS W/3 NOZZ. & 50' HOSE	15,053	9.54		1.17	3.27	0.00			45				
1185	MOD 160-H SANDBLASTER 1-1/4" PIPE 900CFM A CAP. 8-TONS W/4 NOZZ. & 50' HOSE	18,360	11.73		1.45	4.04	0.00			53				
GARDNER DENVER - TOOLS														
1195	SPADER SP27E	32CFM A	939	0.65		0.08	0.22	0.00		1				
1200	SINKER DRILL S58	98CFM A	2,059	1.40		0.16	0.47	0.00		1				
1205	PAVING BREAKER B37	41CFM A	963	0.66		0.08	0.22	0.00		1				
1210	PAVING BREAKER B67C	46CFM A	1,032	0.70		0.08	0.23	0.00		1				
1215	PAVING BREAKER B87C	50CFM A	1,123	0.77		0.10	0.26	0.00		1				
1220	FEED LEG DRILL S83F-54" TRAVEL RETRACTABLE FL-7	103CFM A	3,784	2.51		0.31	0.87	0.00		1				
MASTER - CONCRETE VIBRATORS														
1230	CONCRETE VIBR. MOD A-600SH 6"	125CFM A	2,032	1.96		0.16	0.46	0.00		1				
1235	CONCRETE VIBR. MOD A-450SH 4.5"	110CFM A	1,306	1.30		0.11	0.30	0.00		1				
1240	CONCRETE VIBR. MOD A-35010 3.5"	82CFM A	1,172	1.15		0.10	0.27	0.00		1				
1245	CONCRETE VIBR. MOD A-30010 3"	64CFM A	1,058	1.02		0.08	0.24	0.00		1				
1250	CONCRETE VIBR. MOD A-25010 2.5"	40CFM A	828	0.80		0.07	0.19	0.00		1				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ASPHALT DISTRIBUTOR														

(NO CHASSIS)														
ROSCO														
1265	MOD RES 1000 GAL. TRUCK MOUNTED 18,000 TO 24,000 GW REQUIRED	45 HP G	32,156	9.40		1.53	3.44	2.32		72				
1270	MOD RES 1500 GAL. TRUCK MOUNTED 24,000 TO 32,000 GW REQUIRED	45 HP G	32,931	9.56		1.57	3.53	2.32		75				
1275	MOD RES 2000 GAL. TRUCK MOUNTED 32,000 GW REQUIRED	45 HP G	35,230	10.02		1.68	3.78	2.32		87				
1280	MOD RES 3000 GAL. TRUCK MOUNTED 42,000 GW REQUIRED	45 HP G	39,531	10.87		1.89	4.24	2.32		109				
ASPHALT FINISHERS														

SPW=STANDARD PAVING WIDTH														
BARBER-GREENE														
1295	MOD SB111 8' SPW (PNEUMATIC)	70 HP D	93,063	21.10		4.40	9.82	1.65		165				
1300	MOD SB131 10' SPW (PNEUMATIC) W/VIB SCREED, AUTO. FEEDERS AND GR CONTROL	95 HP D	154,350	34.41		7.27	16.20	2.24		258				
1305	MOD SB140 10' SPW (PNEUMATIC) OPTIONS SAME AS MOD SB131	130 HP D	173,440	39.36		8.18	18.26	3.06		325				
1310	MOD SA150 10' SPW (CRAWLER) OPTIONS SAME AS MOD SB131	130 HP D	205,011	45.48		9.77	21.98	3.06		375				
BLAW-KNOX														
1320	MOD PF-22 5'-8' SPW (PNEUMATIC)	30 HP D	50,676	11.29		2.38	5.28	0.71		95				
1325	MOD PF-35 6'-8' SPW (PNEUMATIC)	44 HP D	84,097	18.49		3.97	8.87	1.04		104				
1330	MOD PF-115 8' SPW (PNEUMATIC)	56 HP D	112,311	24.63		5.30	11.82	1.32		180				
1335	MOD PF-120H 10' SPW (PNEUMATIC)	95 HP D	136,169	30.72		6.40	14.25	2.24		240				
1340	MOD PF-180H 10' SPW (PNEUMATIC)	92 HP D	161,871	35.92		7.61	16.94	2.17		277				
1345	MOD PF-220 12' SPW (PNEUMATIC)	148 HP D	210,630	47.63		9.89	22.00	3.49		387				
1350	MOD PF-400A 8' SPW (CRAWLER)	90 HP D	150,226	33.16		7.15	16.10	2.12		230				
1355	MOD PF-500 10' SPW (CRAWLER)	125 HP D	180,776	40.39		8.61	19.37	2.94		291				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND BY	AVERAGE OWNER-SHIP	FUEL	SEVERE OWNER-SHIP	FUEL	
			AVERAGE	SEVERE					
ASPHALT KETTLES *****									
ROSCO									
1370	MOD KB 110 GAL. TRAILER MOUNTED	4,100	1.98		0.22	0.51	0.00		13
1375	MOD KD 225 GAL. TRAILER MOUNTED	4,830	2.27		0.26	0.61	0.00		16
AEROIL									
1385	MOD KE-B-80 GAL. TRAILER MOUNTED	2,834	1.55		0.15	0.35	0.00		9
1390	MOD KE-BR-115 GAL. TRAILER MOUNTED	3,335	1.91		0.17	0.40	0.00		15
ASPHALT RECYCLER *****									
AEROIL									
1405	MOD AR-100 TRAILER MOUNTED	7 HP G	9,110	4.21		0.48	1.15	0.36	16
BROOMS *****									
M-B									
1420	MOD 53T HYD 7 FT. TOWED MECH DRIVE W/SPRINKLER		6,741	1.54		0.32	0.71	0.00	24
1425	MOD 53-M 7 FT. TOWED MOTOR DRIVEN W/SPRINKLER	30 HP G	8,671	3.59		0.41	0.92	1.54	30
1430	MOD MT 7 FT. TRACTOR MOUNTED PTO DRIVE W/SPRINKLER		3,280	0.73		0.16	0.35	0.00	10
1435	MOD HT 7 FT. TRACTOR MOUNTED HYD DRIVE W/SPRINKLER		5,911	1.28		0.28	0.63	0.00	14
BRUSH CHIPPERS *****									
CHIPMORE									
1450	MOD TM-20 TRAILER-MTD	11 HP G	4,030	1.34		0.19	0.42	0.39	7
1455	MOD TM-30 TRAILER-MTD	18 HP G	4,826	1.84		0.22	0.50	0.65	9
1460	MOD TM120 TRAILER-MTD 12" DIA.LOG	60 HP G	10,227	4.92		0.48	1.08	2.15	36
1465	MOD TM120 TRAILER-MTD 12" DIA.LOG	76 HP D	12,908	4.26		0.61	1.37	1.27	42

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
BRUSH CHIPPERS (CONT'D) *****														
FMC														
1475	MOD C-16S SKID-MTD 16" DIA.LOG 150 HP G	12,034	9.54		0.57	1.28	5.38			41				
1480	MOD C-16T TRAILER-MTD 16" DIA.LOG 150 HP G	13,168	9.79		0.63	1.39	5.38			45				
BUCKETS, CLAMSHELL *****														
ESCO - MODEL GPS GENERAL PURPOSE & SQUARE NOSE														
1495	.75 C.Y.	11,791	2.20	2.85	0.57	1.31	0.00	1.57	0.00	37				
1500	1.0 C.Y.	12,652	2.37	3.05	0.61	1.41	0.00	1.68	0.00	41				
1505	1.5 C.Y.	18,139	3.40	4.38	0.87	2.02	0.00	2.41	0.00	61				
1510	2.0 C.Y.	21,067	3.94	5.08	1.01	2.34	0.00	2.80	0.00	69				
1515	2.5 C.Y.	27,449	5.13	6.62	1.32	3.05	0.00	3.65	0.00	88				
1520	3.0 C.Y.	29,084	5.44	7.01	1.39	3.23	0.00	3.86	0.00	94				
1525	3.5 C.Y.	31,444	5.88	7.59	1.51	3.50	0.00	4.18	0.00	105				
1530	4.0 C.Y.	34,631	6.48	8.35	1.66	3.85	0.00	4.60	0.00	115				
1535	4.5 C.Y.	37,454	7.00	9.03	1.80	4.16	0.00	4.97	0.00	126				
1540	5.0 C.Y.	39,779	7.44	9.60	1.91	4.42	0.00	5.29	0.00	140				
1545	5.5 C.Y.	43,812	8.19	10.57	2.10	4.87	0.00	5.82	0.00	152				
1550	6.0 C.Y.	45,509	8.51	10.97	2.19	5.06	0.00	6.04	0.00	160				
1555	6.5 C.Y.	47,911	8.96	11.55	2.30	5.33	0.00	6.36	0.00	169				
1560	7.0 C.Y.	50,257	9.39	12.13	2.41	5.58	0.00	6.68	0.00	177				
1565	7.5 C.Y.	52,153	9.75	12.58	2.50	5.79	0.00	6.93	0.00	184				
ESCO - MODEL HDS HEAVY DUTY & SQUARE NOSE														
1575	.75 C.Y.	15,364	2.87	3.70	0.73	1.70	0.00	2.04	0.00	33				
1580	1.0 C.Y.	15,372	2.87	3.71	0.73	1.70	0.00	2.04	0.00	46				
1585	1.5 C.Y.	22,349	4.18	5.39	1.07	2.48	0.00	2.97	0.00	70				
1590	2.0 C.Y.	24,109	4.51	5.81	1.16	2.68	0.00	3.20	0.00	78				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT			
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	AVERAGE COND.	SEVERE COND.				
BUCKETS, CLAMSHELL (CONT'D)													

ESCO - MODEL HDS HEAVY DUTY & SQUARE NOSE (CONT'D)													
1595	2.5 C.Y.	30,627	5.72	7.38	1.47	3.40	0.00	4.06	0.00	98			
1600	3.0 C.Y.	33,502	6.26	8.08	1.61	3.72	0.00	4.45	0.00	109			
1605	3.5 C.Y.	38,219	7.15	9.21	1.84	4.25	0.00	5.07	0.00	120			
1610	4.0 C.Y.	41,095	7.69	9.91	1.98	4.57	0.00	5.46	0.00	131			
1615	4.5 C.Y.	44,143	8.26	10.65	2.12	4.91	0.00	5.87	0.00	141			
1620	5.0 C.Y.	48,325	9.04	11.66	2.32	5.37	0.00	6.42	0.00	155			
1625	5.5 C.Y.	50,961	9.53	12.28	2.44	5.66	0.00	6.76	0.00	164			
1630	6.0 C.Y.	53,456	9.99	12.89	2.57	5.94	0.00	7.10	0.00	174			
1635	6.5 C.Y.	56,269	10.52	13.57	2.70	6.25	0.00	7.47	0.00	185			
1640	7.0 C.Y.	58,644	10.97	14.44	2.82	6.52	0.00	7.79	0.00	193			
1645	7.5 C.Y.	60,977	11.40	14.71	2.93	6.78	0.00	8.10	0.00	201			
ESCO - MODEL XDS EXTRA HEAVY DUTY & SQUARE NOSE													
1655	.75 C.Y.	17,325	3.24	4.18	0.84	1.93	0.00	2.30	0.00	50			
1660	1.0 C.Y.	17,660	3.31	4.26	0.85	1.97	0.00	2.35	0.00	55			
1665	1.5 C.Y.	25,410	4.75	6.13	1.22	2.82	0.00	3.38	0.00	81			
1670	2.0 C.Y.	30,968	5.79	7.47	1.48	3.44	0.00	4.11	0.00	99			
1675	2.5 C.Y.	35,671	6.67	8.60	1.71	3.96	0.00	4.74	0.00	115			
1680	3.0 C.Y.	38,631	7.22	9.32	1.85	4.29	0.00	5.13	0.00	127			
1685	3.5 C.Y.	42,573	7.97	10.26	2.05	4.74	0.00	5.65	0.00	141			
1690	4.0 C.Y.	45,757	8.55	11.04	2.19	5.08	0.00	6.08	0.00	150			
1695	4.5 C.Y.	46,883	8.77	11.31	2.25	5.21	0.00	6.23	0.00	160			
1700	5.0 C.Y.	50,676	9.47	12.22	2.43	5.63	0.00	6.73	0.00	173			
1705	5.5 C.Y.	53,668	10.03	12.94	2.57	5.96	0.00	7.13	0.00	185			
1710	6.0 C.Y.	56,426	10.55	13.61	2.71	6.27	0.00	7.50	0.00	195			
1715	6.5 C.Y.	59,951	11.21	14.46	2.87	6.66	0.00	7.96	0.00	208			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
BUCKETS, CLAMSHELL (CONT'D)														

ESCO - MODEL XDS EXTRA HEAVY DUTY & SQ. NOSE (CONT'D)														
1720	7.0 C.Y.	62,185	11.63	15.00	2.98	6.91	0.00	8.26	0.00	218				
1725	7.5 C.Y.	65,145	12.18	15.72	3.12	7.24	0.00	8.66	0.00	229				
BUCKETS, CONCRETE														

LOWBOY - AIR OPER GATE CAMELEVER														
1740	LB-375 3/8 C.Y.	3,195	0.58		0.15	0.34	0.00			2				
1745	LB-050 1/2 C.Y.	3,370	0.62		0.16	0.36	0.00			2				
1750	LB-075 3/4 C.Y.	3,470	0.63		0.17	0.37	0.00			3				
1755	LB-100 1.0 C.Y.	3,627	0.67		0.17	0.39	0.00			5				
1760	LB-150 1.5 C.Y.	4,132	0.76		0.20	0.45	0.00			6				
1765	LB-200 2.0 C.Y.	5,255	0.96		0.25	0.56	0.00			8				
1770	LB-300 3.0 C.Y.	6,170	1.13		0.29	0.66	0.00			12				
1775	LB-400 4.0 C.Y.	7,145	1.30		0.34	0.76	0.00			15				
GENERAL PURPOSE & MANUAL GAR-BRO														
1785	433-G 1.0 C.Y.	1,593	0.29		0.07	0.17	0.00			6				
1790	442-G 1.5 C.Y.	1,992	0.37		0.10	0.22	0.00			8				
1795	462-G 2.0 C.Y.	2,577	0.47		0.12	0.27	0.00			11				
1800	493-G 3.0 C.Y.	3,633	0.67		0.17	0.39	0.00			19				
1805	4123-G 4.0 C.Y.	4,557	0.84		0.22	0.49	0.00			23				
LOW SLUMP - AIR OPERATED GATE GAR-BRO														
1815	440-A 1.0 C.Y.	6,616	1.20		0.31	0.70	0.00			19				
1820	450-A 1.5 C.Y.	6,876	1.25		0.33	0.73	0.00			21				
1825	460-A 2.0 C.Y.	7,141	1.30		0.34	0.76	0.00			23				
1830	493-A 3.0 C.Y.	9,366	1.71		0.45	1.00	0.00			42				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
BUCKETS, CONCRETE (CONT'D) *****														
LOW SLUMP - AIR OPER GATE (CONT'D) GAR-BRO (CONT'D)														
1835	4139-A 4.0 C.Y.	9,738	1.78		0.46	1.04	0.00			52				
1840	4200-A 6.0 C.Y. DEL. COMPT.	14,069	2.57		0.67	1.50	0.00			72				
1845	4250-A 8.0 C.Y. DEL. COMPT.	16,837	3.08		0.80	1.80	0.00			80				
LAYDOWN - HEAVY DUTY - AIR GATE GAR-BRO														
1855	425-A 1.0 C.Y.	7,477	1.37		0.36	0.80	0.00			26				
1860	465-A 2.0 C.Y.	8,348	1.52		0.40	0.89	0.00			31				
1865	495-A 3.0 C.Y.	9,673	1.76		0.46	1.03	0.00			40				
1870	4125-A 4.0 C.Y.	10,763	1.97		0.51	1.15	0.00			49				
1875	4155-A 5.0 C.Y.	12,603	2.31		0.60	1.35	0.00			60				
BUCKETS, DRAGLINE *****														
HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED														
1890	.75 C.Y.	3,543	0.67	0.85	0.18	0.40	0.00	0.47	0.00	15				
1895	1.0 C.Y.	4,204	0.78	1.02	0.20	0.46	0.00	0.56	0.00	18				
1900	1.5 C.Y.	5,132	0.96	1.24	0.25	0.57	0.00	0.68	0.00	26				
1905	2.0 C.Y.	6,061	1.13	1.47	0.29	0.67	0.00	0.81	0.00	32				
1910	2.5 C.Y.	7,120	1.33	1.72	0.34	0.79	0.00	0.95	0.00	37				
1915	3.0 C.Y.	8,780	1.65	2.11	0.43	0.98	0.00	1.16	0.00	46				
1920	3.5 C.Y.	9,708	1.82	2.34	0.47	1.08	0.00	1.29	0.00	50				
1925	4.0 C.Y.	11,828	2.22	2.86	0.57	1.32	0.00	1.58	0.00	65				
1930	4.5 C.Y.	12,558	2.35	3.03	0.61	1.40	0.00	1.67	0.00	69				
1935	5.0 C.Y.	15,160	2.84	3.66	0.73	1.69	0.00	2.02	0.00	85				
1940	6.0 C.Y.	16,432	3.07	3.96	0.79	1.82	0.00	2.18	0.00	90				
1945	7.0 C.Y.	17,965	3.35	4.34	0.86	1.99	0.00	2.39	0.00	101				
1950	8.0 C.Y.	19,916	3.73	4.81	0.96	2.22	0.00	2.65	0.00	112				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE										
BUCKETS, DRAGLINE (CONT'D)														

HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED (CONT'D)														
1955	9.0 C.Y.	23,004	4.30	5.54	1.11	2.56	0.00	3.05	0.00	128				
1960	10.0 C.Y.	25,000	4.68	6.03	1.20	2.78	0.00	3.32	0.00	139				
1965	12.0 C.Y.	30,732	5.75	7.42	1.48	3.42	0.00	4.09	0.00	166				
1970	14.0 C.Y.	35,336	6.61	8.52	1.70	3.93	0.00	4.69	0.00	191				
HENDRIX - MODEL TS, MEDIUM WEIGHT														
1980	.75 C.Y.	4,129	0.77	0.99	0.20	0.46	0.00	0.54	0.00	17				
1985	1.0 C.Y.	5,079	0.96	1.22	0.25	0.57	0.00	0.67	0.00	19				
1990	1.5 C.Y.	6,260	1.17	1.51	0.30	0.70	0.00	0.83	0.00	28				
1995	2.0 C.Y.	7,464	1.40	1.81	0.36	0.83	0.00	1.00	0.00	36				
2000	2.5 C.Y.	8,604	1.60	2.08	0.41	0.95	0.00	1.15	0.00	41				
2005	3.0 C.Y.	10,288	1.93	2.47	0.50	1.15	0.00	1.36	0.00	49				
2010	3.5 C.Y.	11,361	2.13	2.74	0.55	1.27	0.00	1.51	0.00	54				
2015	4.0 C.Y.	13,637	2.55	3.30	0.66	1.52	0.00	1.82	0.00	70				
2020	4.5 C.Y.	14,586	2.73	3.52	0.70	1.62	0.00	1.94	0.00	72				
2025	5.0 C.Y.	18,696	3.49	4.52	0.89	2.07	0.00	2.49	0.00	93				
2030	6.0 C.Y.	19,321	3.62	4.65	0.93	2.15	0.00	2.56	0.00	96				
2035	7.0 C.Y.	22,052	4.12	5.32	1.06	2.45	0.00	2.93	0.00	111				
2040	8.0 C.Y.	24,279	4.53	5.86	1.16	2.69	0.00	3.23	0.00	122				
2045	9.0 C.Y.	29,061	5.43	7.01	1.39	3.23	0.00	3.86	0.00	149				
2050	10.0 C.Y.	30,950	5.79	7.46	1.48	3.44	0.00	4.11	0.00	159				
2055	12.0 C.Y.	39,446	7.37	9.51	1.89	4.38	0.00	5.24	0.00	202				
2060	14.0 C.Y.	43,923	8.21	10.59	2.11	4.88	0.00	5.83	0.00	225				
HENDRIX - MODEL MH-S, HEAVY WEIGHT														
2070	2.75 C.Y.	16,507	3.08	3.99	0.79	1.83	0.00	2.20	0.00	69				
2075	3.0 C.Y.	17,168	3.21	4.14	0.82	1.91	0.00	2.28	0.00	72				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				OWT			
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP				
BUCKETS, DRAGLINE (CONT'D) *****													
HENDRIX - MOD MH-S, HEAVY WT (CONT'D)													
2080	3.5 C.Y.	19,221	3.60	4.63	0.93	2.14	0.00	2.55	0.00	81			
2085	4.0 C.Y.	25,709	4.81	6.21	1.23	2.86	0.00	3.42	0.00	110			
2090	4.5 C.Y.	28,742	5.37	6.93	1.38	3.19	0.00	3.82	0.00	123			
2095	5.0 C.Y.	29,680	5.55	7.16	1.43	3.30	0.00	3.94	0.00	127			
2100	6.0 C.Y.	31,785	5.95	7.67	1.53	3.54	0.00	4.23	0.00	136			
2105	7.0 C.Y.	40,409	7.55	9.74	1.94	4.49	0.00	5.36	0.00	175			
2110	8.0 C.Y.	41,560	7.77	10.03	2.00	4.62	0.00	5.53	0.00	180			
2115	9.0 C.Y.	52,851	9.88	12.75	2.53	5.87	0.00	7.02	0.00	234			
2120	10.0 C.Y.	54,743	10.23	13.20	2.62	6.08	0.00	7.27	0.00	243			
2125	12.0 C.Y.	65,108	12.17	15.69	3.12	7.23	0.00	8.64	0.00	289			
2130	14.0 C.Y.	69,617	13.01	16.79	3.34	7.73	0.00	9.25	0.00	309			
SAUERMAN - CRESCENT SCRAPER													
WITH DRAGLINE CONVERSION KIT													
2145	SC-1050-K 1.0 C.Y.	10,021	1.87	2.42	0.48	1.11	0.00	1.33	0.00	15			
2150	SC-1060-K 1.5 C.Y.	12,833	2.40	3.09	0.62	1.43	0.00	1.70	0.00	20			
2155	SC-1070-K 2.0 C.Y.	17,593	3.28	4.24	0.84	1.95	0.00	2.33	0.00	25			
2160	SC-1090-K 3.0 C.Y.	23,268	4.35	5.61	1.12	2.59	0.00	3.09	0.00	36			
2165	SC-1100-K 4.0 C.Y.	34,785	6.51	8.39	1.67	3.87	0.00	4.62	0.00	49			
2170	SC-1110-K 5.0 C.Y.	39,661	7.42	9.57	1.91	4.41	0.00	5.27	0.00	58			
2175	SC-1120-K 6.0 C.Y.	48,073	8.99	11.60	2.30	5.34	0.00	6.39	0.00	68			
2180	SC-1130-K 8.0 C.Y.	58,400	10.92	14.09	2.80	6.49	0.00	7.76	0.00	88			
2185	SC-1140-K 10.0 C.Y.	70,859	13.25	17.09	3.40	7.88	0.00	9.41	0.00	106			
2190	SC-1150-K 12.0 C.Y.	82,197	15.36	19.83	3.94	9.13	0.00	10.92	0.00	132			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL		
COMPACTORS, MANUALLY OPERATED											
2200	UR-12 INGERSOLL-RAND RAMMER	3 HP G	1,736	0.91		0.11	0.28	0.21		1	
2205	BS45Y WACKER RAMMER	3 HP G	1,721	0.91		0.11	0.28	0.21		1	
2210	BS65Y WACKER RAMMER	4 HP G	3,125	1.51		0.19	0.50	0.28		2	
2215	GVR151Y WACKER RAMMER	5 HP G	2,437	1.35		0.15	0.39	0.35		2	
2220	GVR220Y WACKER RAMMER	6 HP G	3,125	1.69		0.19	0.50	0.43		2	
2225	VPG160B WACKER VIBRO PLATE	4 HP G	1,346	0.86		0.09	0.22	0.28		2	
2230	VPG260K WACKER VIBRO PLATE	7 HP G	1,917	1.34		0.12	0.31	0.50		3	
2235	BT-50 BOMAG TAMPING	5 HP G	1,916	1.16		0.12	0.31	0.35		1	
2240	BT-58 BOMAG TAMPING	3 HP G	1,957	1.00		0.13	0.32	0.21		1	
2245	BT-68 BOMAG TAMPING	3 HP G	2,310	1.13		0.15	0.38	0.21		1	
2250	BT-71 BOMAG TAMPING	4 HP G	2,387	1.25		0.15	0.39	0.28		2	
2255	BP10/36W BOMAG VIBRO PL W/SPRNKLR	4 HP G	1,191	0.80		0.08	0.20	0.28		2	
2260	BP-11K BOMAG VIBRO PLATE	4 HP G	1,711	0.99		0.11	0.28	0.28		3	
2265	BP-19/75 BOMAG VIBRO PLATE	5 HP D	3,263	1.42		0.21	0.53	0.16		4	
2270	BP-30R BOMAG VIBRO PLATE	5 HP G	4,535	2.13		0.28	0.73	0.35		5	
2275	BP-30 BOMAG VIBRO PLATE	5 HP D	5,721	2.35		0.36	0.93	0.16		5	
2280	BP-50 BOMAG VIBRO PLATE	7 HP D	8,484	3.46		0.53	1.37	0.23		9	
2285	BW-75E BOMAG WALK BEHIND S/D	5 HP D	8,507	3.39		0.53	1.38	0.16		12	
2290	BW-35 BOMAG WALK BEHIND D/D	4 HP D	9,833	3.84		0.62	1.59	0.13		11	
2295	BW-60SE BOMAG D/D ROLLER	8 HP D	13,486	5.37		0.85	2.18	0.26		20	
2300	BW-90SE BOMAG D/D ROLLER	13 HP D	16,918	6.87		1.06	2.74	0.43		28	
2305	VPG600 WACKER VIBRO PLATE	9 HP G	3,530	2.11		0.22	0.57	0.64		7	
2310	DPS2350 WACKER VIBRO PLATE	7 HP D	3,736	1.68		0.23	0.60	0.23		4	
2315	DPU5050 WACKER VIBRO PLATE	11 HP D	12,566	5.15		0.79	2.03	0.36		10	
2320	W 55 T WACKER D/D ROLLER	8 HP D	11,474	4.62		0.72	1.86	0.26		17	
2325	W 74 T WACKER D/D ROLLER	8 HP D	12,906	5.15		0.81	2.09	0.26		19	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				OWT	
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL		
	CONCRETE BLASTERS *****										
	BLASTRAC										
2340	DSC-15 SURFACE PREP/CLEANING MACH	41 HP D	58,368	19.10		3.65	9.42	1.04		40	
	CONCRETE BUGGIES *****										
	AEROIL										
2355	5 CF WALK-BEHIND	5 HP G	1,811	0.92		0.11	0.29	0.28		3	
	WHITEMAN										
2365	MODWBS11 WALK & RIDE	8 HP G	4,589	1.99		0.29	0.75	0.44		7	
	CONCRETE FINISHERS *****										
	BOMAG										
2380	MOD F46B4 GYRO TROWEL	7 HP G	1,491	0.96		0.09	0.24	0.39		2	
2385	MOD RF2B4 DOUBLTROWEL	16 HP G	5,885	2.96		0.37	0.95	0.89		7	
2390	MOD RF3B3 TRIPLTROWEL	16 HP G	7,588	3.48		0.47	1.22	0.89		9	
	CONCRETE MIXERS *****										
2400	PORTABLE CONCRETE MIXER 2.5 CF	1 HP E	690	0.28		0.04	0.09	0.06		2	
2405	PORTABLE CONCRETE MIXER 4.0 CF	4 HP E	1,179	0.72		0.07	0.17	0.25		3	
2410	PORTABLE CONCRETE MIXER 3.5 CF	1 HP E	708	0.30		0.04	0.10	0.06		3	
2415	PORTABLE CONCRETE MIXER 6.0 CF	6 HP E	2,230	1.24		0.14	0.35	0.38		7	
2420	PORTABLE CONCRETE MIXER 6.0 CF	7 HP G	2,303	1.20		0.14	0.36	0.39		7	
2425	PORTABLE MORTAR MIXER 6.0 CF	7 HP G	1,701	1.02		0.10	0.26	0.39		6	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			GWT			
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
CONCRETE PAVERS												

CATERPILLAR												
2440	MOD SF - 175 SLIPFORM PAVER CURBS, MEDIANES, AND SIDEWALKS	142 HP D	138,190	32.30		6.58	14.81	3.35	263			
2445	MOD SF - 250 26' WIDE SLIPFORM UNIT, 0-80 FT/MIN, CRAWLER MTD.	208 HP D	262,966	59.57		12.53	28.19	4.90	540			
2450	MOD SF - 450 25' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD.	250 HP D	466,177	102.02		22.20	49.96	5.89	960			
2455	MOD SF - 500 24' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD.	400 HP D	536,861	120.88		25.58	57.55	9.42	1150			
GOMACO												
2465	MOD C-650 24' WIDE FORM PAVER W/4' FINISHING CYLINDERS	65 HP G	27,822	10.07		1.32	2.96	3.35	91			
2470	MOD HW-165 16'-6" WIDE SLIPFORM UNIT, AUTO VIBRATORS, CRLR MTD	100 HP D	128,184	29.00		6.11	13.74	2.36	255			
CONCRETE PLACERS, SHOTCRETE												

ALLENTOWN												
2485	R450 PNEUM. GUN N-1 3-4 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 365 CPM COMP.	12 HP D	25,362	6.97		1.36	3.33	0.42	45			
2490	R900 PNEUM. GUN N-2 6-10 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 600 CPM COMP.	20 HP D	28,983	8.22		1.55	3.81	0.69	60			
2495	GR600 ROTARY GUN 1-6 CY/HR INCL. HOSE,REQ. 550 CFM COMP.	550CFM A	8,367	2.32		0.45	1.09	0.00	9			
2500	GR1200 ROTARY GUN 4-12 CY/HR INCL. HOSE,REQ. 770 CPM COMP.	770CFM A	16,330	4.46		0.88	2.15	0.00	18			
CHALLENGE SQUEEZ-CRETE												
2510	250-D FOR WET SHOTCRETE 25 CY/HR TRAILER MOUNTED INCL. HOSE	62 HP D	45,406	14.27		2.45	6.03	2.15	70			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				GWT					
			CONDITION	STAND-BY	AVERAGE COND.		SEVERE COND.							
					AVERAGE	SEVERE	OWNER-SHIP	FUEL						
CONCRETE PUMPS *****														
MORGEN														
2525	MOD 204-305 TRAILER MTD 60 CY/HR 110 HP D	55,864	19.06		3.01	7.42	3.82		70					
2530	MOD 203-420 BOOM 72'-VT 120 CY/HR 210 HP D INCLUDES 24500 GVW TRUCK	147,475	49.19		7.91	19.47	9.17		255					
SCHWING														
2540	MOD BPA 350 TRAILER MTD 60 CY/HR 67 HP D	46,083	14.66		2.48	6.11	2.33		66					
2545	MOD BPA 650 TRAILER MTD 60 CY/HR 152 HP D	72,090	25.04		3.87	9.50	5.28		98					
2550	MOD BPA 901 TRAILER MTD 135 CY/HR 152 HP D	74,072	25.54		3.97	9.76	5.28		98					
2555	MOD BP 3000 TRAILER MTD 127 CY/HR 177 HP D	98,097	32.75		5.28	13.00	6.15		130					
2560	MOD BP 5000 TRAILER MTD 151 CY/HR 300 HP D	125,994	45.30		6.78	16.71	10.42		150					
2565	MOD BPL 580 TRUCK MTD 72 CY/HR 175 HP D INCLUDING TRUCK AND 75' BOOM	152,217	48.52		8.12	19.92	7.64		302					
2570	MOD BPL 801 TRUCK MTD 107 CY/HR 175 HP D INCLUDING TRUCK AND 92' BOOM	218,944	65.44		11.72	28.78	7.64		321					
2575	MOD BPL1200 TRUCK MTD 147 CY/HR 239 HP D INCLUDING TRUCK AND 102' BOOM	268,883	81.75		14.38	35.30	10.44		408					
CONCRETE SAWS ***** (SAWBLADE WEAR NOT INCLUDED)														
FELKER														
2590	MOD 8BCC 5" DEPTH OF CUT 8 HP G	1,675	1.17		0.09	0.22	0.57		3					
2595	MOD 12WOC 5" DEPTH OF CUT 12 HP G	2,095	1.64		0.11	0.27	0.85		3					
2600	MOD 14TOC 5" DEPTH OF CUT 14 HP G	2,074	1.83		0.11	0.27	0.99		3					
2605	MOD 140MR 8" DEPTH OF CUT 14 HP G	4,650	2.46		0.25	0.59	0.99		6					
2610	MOD 185MR 8" DEPTH OF CUT 18 HP G	5,901	3.15		0.32	0.75	1.28		7					
2615	MOD 300MR 8" DEPTH OF CUT 30 HP G	6,676	4.47		0.36	0.85	2.13		7					
2620	MOD 350MCA 10" DEPTH OF CUT 35 HP G	9,774	5.70		0.52	1.25	2.48		12					
2625	MOD 665MCA 15" DEPTH OF CUT 65 HP G	13,129	9.35		0.70	1.67	4.61		14					

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
CONCRETE SAWS (CONT'D)														

(SAWBLADE WEAR NOT INCLUDED)														
LONGYEAR														
2635	MOD 360-10HM WALL SAW 1700 PSI	10 HP G	10,763	3.62		0.58	1.38	0.71		2				
2640	MOD 360-35HM WALL SAW 2500 PSI	35 HP G	11,942	6.23		0.64	1.52	2.48		2				
2645	MOD 800WR 5" DEPTH OF CUT	8 HP G	1,257	1.06		0.07	0.16	0.57		2				
2650	MOD 815WR 7" DEPTH OF CUT	11 HP G	1,880	1.50		0.10	0.24	0.78		2				
2655	MOD 815EB 5" DEPTH OF CUT	5 HP G	2,020	0.96		0.11	0.26	0.35		2				
2660	MOD 1800W 5" DEPTH OF CUT	18 HP G	5,907	3.15		0.32	0.75	1.28		5				
2665	MOD 3535W 5" DEPTH OF CUT	35 HP G	7,792	5.20		0.41	0.99	2.48		9				
2670	MOD 6530-48 21" DEPTH OF CUT	65 HP G	13,089	9.34		0.70	1.67	4.61		13				
CRANES, SHOVEL, BACKHOE, DRAGLINE														

AMERICAN - CRAWLER TYPE														
	MOD 597-C 1.25 CY T/C 114 HP D 14'-7" CRAWLERS W/32" SHOES													
2690	DRAGLINE OR CLAMSHELL (LESS BUCKET)	284,104	42.56	50.74	11.40	23.32	2.12	25.84	2.69	814				
2695	CRANE 35-T W/65' BOOM	285,885	39.16	45.59	11.47	23.47	1.70	26.00	2.19	803				
	MOD 599-A LIFTING CRANE T/C 114 HP D 16'-0" CRAWLERS W/32" SHOES													
2705	CRANE 50-T W/75' BOOM	311,576	42.50	49.46	12.50	25.58	1.70	28.34	2.19	962				
	MOD 5299-A LIFTING CRANE T/C 125 HP D 17'-6" CRAWLERS W/36" SHOES													
2715	CRANE 60-T W/80' BOOM	325,091	44.43	51.74	13.04	26.68	1.86	29.57	2.40	1088				
	MOD 797-C 2 CY T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES													
2725	DRAGLINE OR CLAMSHELL (LESS BUCKET)	388,484	58.46	69.73	15.59	31.89	3.12	35.34	3.96	1278				
2730	CRANE 40-T W/75' BOOM	380,244	52.37	61.03	15.25	31.21	2.50	34.59	3.23	1262				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	
			AVERAGE	SEVERE						
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D) *****									
	AMERICAN - CRAWLER TYPE (CONT'D)									
2740	MOD 7250 STEEL ERECTOR T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES	402,898	49.96	56.82	15.22	28.41	2.50	30.68	3.23	1421
2750	CRANE 60-T W/80' BOOM	493,395	60.51	68.70	18.65	34.81	2.50	37.58	3.23	1886
2760	MOD 7260 LIFTING CRANE T/C 168 HP D 19'-6" CRAWLERS W/38" SHOES	672,883	83.56	95.05	25.43	47.46	4.27	51.25	5.52	2792
2770	CRANE 100T W/200' BOOM	702,754	87.05	98.97	26.55	49.57	4.27	53.52	5.52	3150
2775	MOD 999-C STEEL ERECTOR T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES	676,806	92.85	107.97	25.37	49.05	5.34	53.11	6.76	2950
2785	CRANE 110-T W/200' BOOM	760,894	93.81	106.60	28.75	53.67	4.27	57.95	5.52	3400
2795	MOD 9299 LIFTING CRANE T/C 287 HP D 24'-11" CRAWLERS W/44" SHOES	799,691	95.55	107.31	29.24	52.81	4.27	56.41	5.52	3580
2805	CRANE 165T W/290' BOOM	839,849	100.08	112.35	30.70	55.46	4.27	59.24	5.52	3990
	LINK BELT - CRAWLER TYPE									
2825	MOD LS-78 LIFTING CRANE T/C 84 HP D 13'-7" CRAWLERS W/24" SHOES	179,347	26.32	31.40	7.63	16.31	1.25	18.49	1.61	506
	CRANE 17.5-T W/40' BOOM									

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			GWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL				
CRANES, SHOVEL, B/H, DRAGLINE (CONT'D) *****												
LINK BELT - CRAWLER TYPE (CONT'D)												
2835	MOD LS-98 LIFTING CRANE T/C 110 HP D 15'-0" CRAWLERS W/24" SHOES	202,889	30.07	35.88	8.63	18.45	1.64	20.90	2.11	625		
2845	CRANE 25-T W/50' BOOM	228,807	31.72	36.98	9.18	18.79	1.67	20.82	2.15	727		
2860	MOD LS-98A LIFTING CRANE T/C 110 HP D 15'-1" CRAWLERS W/30" SHOES	215,403	29.95	34.90	8.65	17.69	1.64	19.59	2.11	772		
2870	CRANE 30-T W/40' BOOM	267,665	36.72	42.76	10.74	21.97	1.64	24.35	2.11	833		
2880	MOD LS-108B LIFTING CRANE T/C 110 HP D 15'-0" CRAWLERS W/30" SHOES	339,782	42.80	48.77	12.84	23.97	2.65	25.88	3.42	1232		
2890	CRANE 40-T W/50' BOOM	402,889	50.69	57.76	15.22	28.41	3.10	30.68	4.00	1445		
2900	MOD LS-318 LIFTING CRANE T/C 208 HP D 17'-0" CRAWLERS W/32" SHOES	500,219	62.03	70.53	18.90	35.28	3.10	38.09	4.00	1865		
2910	CRANE 50-T W/150' BOOM	583,812	72.43	82.38	22.06	41.18	3.65	44.46	4.71	2235		
2920	MOD LS-338 LIFTING CRANE T/C 208 HP D 20'-0" CRAWLERS W/38" SHOES	714,043	87.59	99.47	26.98	50.36	3.65	54.38	4.71	2826		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND	BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL	
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D) *****									
	LINK BELT - CRAWLER TYPE (CONT'D)									
2930	MOD LS-718 LIFTING CRANE T/C 450 HP D 30'-0" CRAWLERS W/50" SHOES	975,992	118.47	133.34	35.68	64.45	6.70	68.84	8.65	4388
2940	CRANE 250-T W/290' BOOM	1,234,740	147.67	165.85	45.14	81.54	6.70	87.09	8.65	5069
2950	MOD LS-818 LIFTING CRANE T/C 450 HP D 31'-5" CRAWLERS W/50" SHOES	2,030,847	240.29	269.43	74.25	134.11	8.93	143.24	11.53	6783
2960	MOD LS-918 LIFTING CRANE T/C 600 HP D 34'-10" CRAWLERS W/60" SHOES	2,431,071	285.46	319.72	88.88	160.54	8.93	171.48	11.53	8021
	MANITOWOC - CRAWLER TYPE									
2975	MOD 3900 VICON 3.5 CY T/C 287 HP D 20'-4" CRAWLERS W/38" SHOES	483,267	68.16	79.46	18.12	35.02	5.34	37.93	6.76	2306
2980	CRANE 100T W/210' BOOM	531,543	67.10	76.50	20.08	37.49	4.27	40.48	5.52	2354
2990	MOD 3900W VICON SER2 T/C 300 HP D 24'-0" CRAWLERS W/48" SHOES	627,970	78.56	89.47	23.73	44.29	4.46	47.83	5.77	2815
3000	MOD 4100W VICON SER1 5 CY T/C 360 HP D 26'-6" CRAWLERS W/48" SHOES	813,285	111.92	130.18	30.49	58.94	6.70	63.82	8.48	3788
3005	CRANE 200T W/260' BOOM	873,670	105.26	118.33	31.95	57.70	5.36	61.62	6.92	3929
3015	MOD 4600 VICON SERIES 3 7 CY T/C 685 HP D 26'-1" CRAWLERS W/60" SHOES	1,291,770	158.43	178.62	47.22	85.30	10.19	91.12	13.17	5200

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION		STAND BY	AVERAGE COND.	SEVERE COND.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D)									

MANITOWOC - CRAWLER TYPE (CONT'D)										
MOD 4600 VICON SERIES 3 7 CY T/C 685 HP D 26'-1" CRAWLERS W/60" SHOES										
3020	DRAGLINE OR CLAMSHELL (LESS BUCKET)	1,278,424	170.65	196.28	46.74	84.42	12.74	90.18	16.14	5100
NORTHWEST - CRAWLER TYPE										
MOD 50-D/5030 1.0 CY 190 HP D 15'-4" CRAWLERS W/30" SHOES										
3035	DRAGLINE OR CLAMSHELL (LESS BUCKET)	250,035	44.86	55.68	11.01	24.13	3.53	27.73	4.48	930
3040	CRANE 30-T W/40' BOOM	228,084	33.02	38.66	9.15	18.73	2.83	20.75	3.65	869
MOD 50-D/5035 1.25 CY 190 HP D 15'-4" CRAWLERS W/30" SHOES										
3050	DRAGLINE OR CLAMSHELL (LESS BUCKET)	261,340	41.06	49.09	10.49	21.46	3.53	23.77	4.48	932
3055	CRANE 35-T W/50' BOOM	238,256	34.33	40.20	9.55	19.55	2.83	21.68	3.65	872
MOD 50-D/5050 2.0 CY T/C 238 HP D 15'-4" CRAWLERS W/30" SHOES										
3065	DRAGLINE OR CLAMSHELL (LESS BUCKET)	302,539	47.93	57.33	12.13	24.83	4.43	27.52	5.61	957
3070	CRANE 50-T W/60' BOOM	301,049	43.33	50.72	12.07	24.71	3.54	27.38	4.57	952
MOD 70-D/7060 2.5 CY T/C 238 HP D 19'-0" CRAWLERS W/33" SHOES										
3080	DRAGLINE OR CLAMSHELL (LESS BUCKET)	375,265	58.17	69.49	15.05	30.80	4.43	34.13	5.61	1425
3085	CRANE 60-T W/50' BOOM	368,487	47.23	53.94	13.92	25.99	3.54	28.06	4.57	1403
MOD 70-D/7080 3.5 CY T/C 238 HP D 19'-0" CRAWLERS W/33" SHOES										
3095	DRAGLINE OR CLAMSHELL (LESS BUCKET)	412,296	58.00	67.58	15.46	29.88	4.43	32.35	5.61	1497
3100	CRANE 80-T W/160' BOOM	426,448	53.98	61.56	16.12	30.08	3.54	32.48	4.57	1524
MOD 80-D 3.0 CY T/C 263 HP D 15'-10" CRAWLERS W/30" SHOES										
3110	SHOVEL	478,721	92.73	115.00	21.08	46.20	5.71	53.10	7.50	1510

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				OWT
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D) *****									
	NORTHWEST - CRAWLER TYPE (CONT'D)									
	MOD 80-D 3.0 CY T/C 263 HP D 15'-10" CRAWLERS W/30" SHOES									
3115	DRAGLINE OR CLAMSHELL (LESS BUCKET)	412,387	63.96	76.41	16.54	33.85	4.89	37.51	6.20	1274
3120	CRANE 40-T W/50' BOOM	405,602	57.35	67.02	16.27	33.29	3.91	36.89	5.05	1267
	MOD 9570-WT 4.0 CY T/C 304 HP D 19'-0" CRAWLERS W/38" SHOES									
3130	DRAGLINE OR CLAMSHELL (LESS BUCKET)	453,816	64.78	75.60	17.01	32.89	5.65	35.61	7.16	1580
3135	CRANE 60-T W/50' BOOM	447,068	57.58	65.81	16.89	31.53	4.52	34.05	5.84	1565
	MOD 180-D SERIES 2 5 CY T/C 358 HP D 18'-1" CRAWLERS W/36" SHOES									
3145	SHOVEL	761,139	145.83	180.76	33.51	73.45	7.77	84.43	10.21	2571
3150	DRAGLINE OR CLAMSHELL (LESS BUCKET)	653,387	91.47	106.56	24.50	47.35	6.66	51.27	8.43	2365
3155	CRANE 97.5-T W/170' BOOM	680,666	85.76	97.73	25.72	48.01	5.33	51.84	6.88	2464
	MOD 190-D WT SERIES 3 T/C 456 HP D 21'-1" CRAWLERS W/54" SHOES									
3165	DRAGLINE 6.5 CY (LESS BUCKET)	704,556	95.87	110.46	25.76	46.53	8.48	49.70	10.74	2740
3170	CRANE 100-T W/170' BOOM	737,409	94.15	107.48	27.86	52.01	6.79	56.16	8.76	2872
	MOD 1200-C T/C 525 HP D 21'-10" CRAWLERS W/48" SHOES									
3180	CRANE 150-T W/240' BOOM	617,225	81.40	93.33	23.32	43.53	7.81	47.01	10.09	2822
	P & H - CRAWLER TYPE									
	MOD 320H .75 CY T/C 93 HP D 13'-7" CRAWLERS W/30" SHOES									
3195	DRAGLINE OR CLAMSHELL (LESS BUCKET)	133,232	23.70	29.41	5.87	12.86	1.73	14.78	2.19	580
3200	CRANE 25-T W/50' BOOM	134,805	20.37	24.35	5.74	12.27	1.38	13.89	1.79	610

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
CRANES, SHOVEL, B/H, DRAGLINE (CONT'D) *****														
P & H - CRAWLER TYPE (CONT'D)														
MOD C-65 2.00 CY T/C 130 HP D 18'-2" CRAWLERS W/30" SHOES														
3215	DRAGLINE OR CLAMSHELL (LESS BUCKET)	297,821	44.85	53.48	11.95	24.45	2.42	27.09	3.06	1171				
3220	CRANE 65-T W/180' BOOM	319,615	39.58	45.00	12.08	22.55	1.93	24.34	2.50	1352				
MOD 5100 3 CY T/C 188 HP D 21'-6" CRAWLERS W/36" SHOES														
3235	DRAGLINE OR CLAMSHELL (LESS BUCKET)	463,288	63.37	73.67	17.37	33.58	3.50	36.36	4.43	1485				
3240	CRANE 100-T W/210' BOOM	514,696	63.36	71.96	19.45	36.31	2.80	39.20	3.61	1880				
MOD C-120 4 CY T/C 260 HP D 24'-0" CRAWLERS W/36" SHOES														
3250	DRAGLINE OR CLAMSHELL (LESS BUCKET)	497,746	69.40	80.83	18.67	36.08	4.84	39.07	6.13	2203				
3255	CRANE 120-T W/230' BOOM	525,459	65.92	75.06	19.86	37.07	3.87	40.01	5.00	2340				
MOD C-165 5 CY T/C 260 HP D 26'-3" CRAWLERS W/42" SHOES														
3265	DRAGLINE OR CLAMSHELL (LESS BUCKET)	647,399	88.49	102.88	24.27	46.92	4.84	50.81	6.13	2510				
3270	CRANE 165-T W/270' BOOM	709,879	84.92	95.38	25.96	46.88	3.87	50.07	5.00	3333				
MOD DELTA 5250 LIFTING CRANE T/C 328 HP D 30'-5" CRAWLERS W/48" SHOES														
3280	CRANE 250-T W/290' BOOM	1,015,837	120.70	135.43	37.14	67.08	4.88	71.65	6.30	4373				
CRANES, HYDRAULIC SELF-PROPELLED *****														
BRODERSON														
3295	MOD IC-80-18 8.5 TON 64 HP D	51,836	8.67		2.02	4.02	1.51			150				
3300	MOD RTR-80-3B 9 TON 97 HP D	66,507	11.58		2.59	5.15	2.29			180				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				GWT					
			CONDITION	STAND-BY	AVERAGE	COND.	SEVERE	COND.						
					OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
CRANES, HYD SELF-PROPELLED (CONT'D) *****														
GROVE														
3310	MOD RT58A	14 TON	130 HP D	115,630	19.28	4.47	8.83	3.06	420					
3315	MOD RT515	15 TON	115 HP D	122,823	19.72	4.74	9.39	2.71	425					
3320	MOD RT518	18 TON	115 HP D	138,852	21.95	5.35	10.57	2.71	452					
3325	MOD RT520	20 TON	115 HP D	146,856	22.96	5.67	11.20	2.71	469					
3330	MOD RT522	22 TON	115 HP D	151,970	23.64	5.86	11.59	2.71	498					
3335	MOD RT625	25 TON	156 HP D	202,164	30.96	7.81	15.46	3.68	560					
3340	MOD RT630	30 TON	156 HP D	209,892	32.65	8.09	15.99	3.68	580					
3345	MOD RT635	35 TON	160 HP D	215,938	33.54	8.33	16.46	3.77	600					
3350	MOD RT745	45 TON	198 HP D	280,432	43.45	10.79	21.30	4.66	785					
3355	MOD RT760	60 TON	198 HP D	334,003	50.82	12.84	25.29	4.66	855					
3360	MOD RT865	65 TON	208 HP D	411,110	61.09	15.83	31.26	4.90	1100					
3365	MOD RT990	90 TON	280 HP D	537,111	80.51	20.65	40.68	6.60	1360					
3370	MOD RT1650	165 TON	512 HP D	1,002,044	149.82	38.52	75.90	12.06	2400					
LORAIN														
3380	MOD LRT150	15 TON	114 HP D	119,471	19.24	4.62	9.15	2.69	438					
3385	MOD LRT180	18 TON	121 HP D	136,172	21.56	5.27	10.45	2.85	450					
3390	MOD LRT200	20 TON	121 HP D	142,443	22.40	5.51	10.93	2.85	470					
3395	MOD LRT230	23 TON	121 HP D	148,555	23.37	5.73	11.34	2.85	490					
3400	MOD LRT250	25 TON	121 HP D	157,911	24.56	6.10	12.08	2.85	510					
3405	MOD LRT275	27.5 TON	121 HP D	162,798	25.16	6.29	12.45	2.85	520					
3410	MOD LRT330	33 TON	180 HP D	196,971	31.65	7.59	15.00	4.24	570					
P & H														
3420	MOD OMEGA 115	15 TON	128 HP D	139,115	22.19	5.38	10.67	3.02	437					
3425	MOD OMEGA 118	18 TON	128 HP D	140,537	22.38	5.44	10.79	3.02	439					
3430	MOD OMEGA 120	20 TON	128 HP D	149,112	23.47	5.78	11.46	3.02	440					
3435	MOD OMEGA 122	22 TON	128 HP D	149,830	23.55	5.80	11.51	3.02	438					

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT					
			CONDITION	STAND BY	AVERAGE	SEVERE	OWNER-SHIP	AVERAGE FUEL						
					AVERAGE	SEVERE	OWNER-SHIP	FUEL						
CRANES, HYD SELF-PROPELLED (CONT'D) *****														
P & H (CONT'D)														
3440	MOD OMEGA 25	25 TON	155 HP D	185,353	29.07		7.17	14.23	3.65	540				
3445	MOD OMEGA 30	30 TON	155 HP D	190,780	29.75		7.38	14.65	3.65	550				
3450	MOD OMEGA 35	35 TON	155 HP D	197,205	30.57		7.64	15.16	3.65	560				
3455	MOD OMEGA 40	40 TON	202 HP D	265,812	41.73		10.22	20.15	4.76	760				
3460	MOD OMEGA 45	45 TON	202 HP D	275,054	43.11		10.56	20.79	4.76	770				
3465	MOD OMEGA 50	50 TON	202 HP D	285,217	44.40		10.96	21.59	4.76	780				
3470	MOD OMEGA 65	65 TON	235 HP D	364,633	56.03		14.01	27.61	5.54	980				
PETTIBONE														
3480	MOD 16 MK P SERIES	8 TON	118 HP D	101,449	16.78		3.94	7.85	2.78	286				
3485	MOD 20 MK P SERIES	10 TON	118 HP D	105,024	17.29		4.07	8.10	2.78	302				
3490	MOD 25 MK P SERIES	12.5 TON	118 HP D	109,392	17.85		4.25	8.45	2.78	458				
3495	MOD 36 MK P SERIES	18 TON	118 HP D	126,785	20.32		4.90	9.70	2.78	494				
3500	MOD 45-SC P SERIES	22.5 TON	176 HP D	139,092	23.66		5.38	10.67	4.15	560				
3505	MOD 80-SC P SERIES	40 TON	176 HP D	232,597	36.73		8.93	17.55	4.15	862				
3510	MOD 100-SC	50 TON	188 HP D	287,086	43.99		11.06	21.82	4.43	1050				
3515	MOD 130-SC P SERIES	65 TON	212 HP D	324,268	50.20		12.43	24.44	4.99	1050				
CRANES, HYDRAULIC TRUCK MOUNTED *****														
(HP & FUEL LISTED EQUIP/CARRIER)														
GROVE														
3530	TMS250C	35 TON W/110' BOOM	183 HP D	213,578	29.22	34.05	7.97	15.30	4.31	16.56	5.67	514		
3535	TMS300B	40 TON W/136' BOOM	205 HP D	259,743	35.19	40.94	9.67	18.53	4.83	20.06	6.35	725		
3540	TMS475	50 TON W/140' BOOM	213 HP D	300,873	39.91	46.35	11.20	21.50	5.02	23.28	6.60	776		
3545	TMS760	60 TON W/150' BOOM	251 HP D	354,300	46.92	54.45	13.20	25.36	5.91	27.46	7.78	881		
3550	TMS875	75 TON W/146' BOOM	278 HP D	398,144	51.96	59.84	14.29	26.47	6.55	28.33	8.62	1032		
3555	TM890	90 TON W/146' BOOM	188/268 HP D/D	456,925	57.03	64.98	16.42	30.47	5.68	32.61	7.29	1209		
3560	TM1300	130 TON W/172' BOOM	196/335 HP D/D	723,254	85.21	95.80	25.22	45.39	6.19	48.16	7.91	1719		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL		
	CRANES, HYDRAULIC TRUCK MTD (CONT'D) ***** (HP & FUEL LISTED EQUIP/CARRIER)										
	GROVE (CONT'D)										
3565	TM1500 150 TON W/174' BOOM 196/391 HP D/D	854,382	99.15	111.18	29.82	53.74	6.45	57.03	8.21	1960	
	LINK BELT (FMC)										
3575	HTC-814 14 TON W/80' BOOM 200 HP D	190,611	29.48	35.19	7.59	15.43	4.71	17.09	6.20	482	
3580	HTC-825 25 TON W/80' BOOM 225 HP D	197,368	31.08	37.18	7.86	15.98	5.30	17.71	6.97	499	
3585	HTC-830 30 TON W/80' BOOM 225 HP D	204,660	29.50	34.60	7.63	14.66	5.30	15.86	6.97	505	
3590	HTC-835 35 TON W/101' BOOM 225 HP D	215,529	30.68	35.94	8.04	15.44	5.30	16.72	6.97	525	
3595	HTC-840 40 TON W/110' BOOM 238 HP D	252,096	35.29	41.27	9.38	17.98	5.61	19.47	7.38	650	
3600	HTC-1055 55 TON W/120' BOOM 238 HP D	315,229	42.22	49.05	11.74	22.55	5.61	24.41	7.38	662	
	P & H										
3610	OMEGA T-250 25 TON W/80' BOOM 210 HP D	190,703	29.81	35.63	7.59	15.43	4.95	17.09	6.51	492	
3615	OMEGA T-300 30 TON W/100' BOOM 210 HP D	203,149	28.89	33.83	7.57	14.54	4.95	15.73	6.51	523	
3620	OMEGA T-350 35 TON W/110' BOOM 210 HP D	208,807	29.51	34.53	7.78	14.95	4.95	16.18	6.51	525	
3625	OMEGA T-400 40 TON W/106' BOOM 225 HP D	270,404	37.08	43.23	10.06	19.27	5.30	20.84	6.97	730	
3630	OMEGA T-450 45 TON W/140' BOOM 225 HP D	287,432	38.94	45.34	10.70	20.50	5.30	22.19	6.97	758	
3635	OMEGA T-500 50 TON W/140' BOOM 225 HP D	297,727	40.06	46.60	11.08	21.24	5.30	22.99	6.97	760	
3640	OMEGA T-650 66 TON W/147' BOOM 335 HP D	352,176	48.39	56.13	12.66	23.48	7.89	25.14	10.38	900	
	PETTIBONE										
3650	50TKLSPC 25 TON W/98' BOOM 233 HP D	200,599	31.68	37.88	8.00	16.27	5.49	18.02	7.22	500	
3655	80TKLS 40 TON W/144' BOOM 244 HP D	255,610	35.86	41.93	9.51	18.24	5.75	19.74	7.56	740	
3660	110 TK P 55 TON W/114' BOOM 238 HP D	276,181	37.94	44.24	10.28	19.73	5.61	21.35	7.38	825	
3665	140 TK P 70 TON W/116' BOOM 322 HP D	346,859	47.65	55.25	12.45	23.05	7.59	24.67	9.98	1155	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
CRANES, TRUCK MOUNTED														
***** (HP & FUEL LISTED EQUIP/CARRIER)														
AMERICAN														
3680	5470	65 TON W/170' BOOM 115/238 HP D/D	423,332	52.34	59.94	15.75	30.18	3.82	32.66	4.86 1175				
3685	5530	75 TON W/170' BOOM 115/238 HP D/D	431,317	51.95	58.88	15.49	28.73	3.82	30.75	4.86 1245				
3690	7460	90 TON W/200' BOOM 213/230 HP D/D	530,579	65.36	74.41	19.09	35.45	6.09	37.95	7.86 1503				
3695	7530	125 TON W/220' BOOM 213/350 HP D/D	570,313	70.59	80.32	20.50	38.04	6.66	40.72	8.51 1696				
3700	8460	165 TON W/240' BOOM 268/350 HP D/D	817,278	96.51	108.59	28.57	51.59	7.95	54.75	10.22 2320				
3705	9530	220 TON W/260' BOOM 268/500 HP D/D	1,151,255	133.80	150.12	40.16	72.33	8.65	76.76	11.04 3480				
LINK BELT (FMC)														
3715	HC78B	35 TON W/100' BOOM 84/197 HP D/D	272,018	34.16	39.20	10.12	19.40	2.90	21.00	3.68 773				
3720	HC108C	50 TON W/150' BOOM 110/238 HP D/D	360,871	45.37	52.06	13.40	25.65	3.71	27.76	4.71 1197				
3725	HC138A	75 TON W/200' BOOM 165/318 HP D/D	441,999	55.07	62.66	15.89	29.46	5.38	31.53	6.85 1304				
3730	HC218A	100 TON W/220' BOOM 165/318 HP D/D	517,327	63.18	71.73	18.60	34.51	5.38	36.94	6.85 1688				
3735	HC238B	140 TON W/230' BOOM 171/318 HP D/D	635,619	74.58	83.78	22.20	40.01	5.52	42.46	7.04 2220				
3740	HC268	225 TON W/310' BOOM 314/440 HP D/D	980,914	116.21	130.80	34.26	61.77	9.46	65.55	12.14 2852				
LORAIN														
3750	MC790	90 TON W/220' BOOM 210/270 HP D/D	483,655	60.82	69.39	17.37	32.18	6.21	34.43	7.98 1594				
3755	MC11115	115 TON W/230' BOOM 210/301 HP D/D	526,400	65.54	74.67	18.91	35.06	6.36	37.54	8.15 1749				
3760	MC1400	140 TON W/230' BOOM 210/301 HP D/D	588,504	70.75	79.78	20.54	37.01	6.36	39.27	8.15 1950				
3765	MC1650	165 TON W/250' BOOM 220/315 HP D/D	721,702	85.16	95.75	25.20	45.41	6.66	48.19	8.54 2614				
P & H														
3775	9070	70 TON W/180' BOOM 140/335 HP D/D	382,349	47.71	54.26	13.75	25.54	4.87	27.34	6.17 1115				
3780	790BTC	90 TON W/200' BOOM 160/350 HP D/D	516,381	63.29	71.87	18.55	34.39	5.41	36.81	6.87 1606				
3785	9150	150 TON W/270' BOOM 210/350 HP D/D	677,345	80.26	90.29	23.66	42.67	6.59	45.28	8.42 1805				
3790	6250TC	300 TON W/320' BOOM 364/450 HP D/D	1,437,340	165.20	185.15	50.28	90.84	10.68	96.41	13.74 3928				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT	
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL		
	CRANES, TOWER *****										
	AMERICAN PECCO										
	MODEL SK135-2 FREE STANDING 7500# @ 132' RADIUS (L-2)	60 HP E									
3810	7-S16 TOWER SECTS=103 FT HIGH	282,479	43.63		10.76	19.38	3.51			740	
	OPT. 14'9-1/4" S16 TOWER SECT										
3820	ADD TO BASIC CRANE FOR EA SECT	11,996	1.41		0.45	0.82	0.00			51	
3825	TOP CLIMBING OPT. ADD TO BASIC	45,051	5.30		1.72	3.09	0.00			118	
	MODEL SK200 FREE STANDING 10600# @ 143' RADIUS (L-2)	105 HP E									
3835	7-S16 TOWER SECTS=103 FT HIGH	354,880	56.09		13.51	24.34	6.14			883	
	14'9-1/4" S16 TOWER SECTION										
3845	ADD TO BASIC CRANE FOR EA SECT	11,996	1.41		0.45	0.82	0.00			51	
3850	TOP CLIMBING OPT. ADD TO BASIC	45,051	5.30		1.72	3.09	0.00			118	
	MODEL SK400 FREE STANDING 18500# @ 162' RADIUS (L-2)	105 HP E									
3860	6-S35 TOWER SECTS=116 FT HIGH	433,830	65.38		16.52	29.76	6.14			1216	
	OPT. 19'4-1/4" S35 TOWER SECT.										
3870	ADD TO BASIC CRANE FOR EA SECT	15,025	1.77		0.57	1.03	0.00			84	
3875	TOP CLIMBING OPT. ADD TO BASIC	45,848	5.40		1.75	3.15	0.00			223	
	MODEL SK560 FREE STANDING 24500# @ 170' RADIUS (L-2)	165 HP E									
3885	6-S213 TOWER SECTS=116 FT HIGH	501,955	78.66		19.12	34.44	9.65			1547	
	OPT. 19'4-1/4" S213 TOWER SECT										
3895	ADD TO BASIC CRANE FOR EA SECT	15,941	1.87		0.60	1.09	0.00			100	
3900	TOP CLIMBING OPT. ADD TO BASIC	88,688	10.42		3.37	6.08	0.00			252	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
CRANES, TOWER (CONT'D) *****														
AMERICAN PECCO (CONT'D)														
MODEL SNG55 FREE STANDING 165 HP E 12300# @ 165' RADIUS (L-2) WITH LUFFING BOOM														
3910	6-S35 TOWER SECTS=116 FT HIGH	529,582	81.91		20.17	36.33	9.65			2152				
OPT. 19'4-1/4" S35 TOWER SECT														
3920	ADD TO BASIC CRANE FOR EA SECT	15,025	1.77		0.57	1.03	0.00			84				
3925	TOP CLIMBING OPT. ADD TO BASIC	93,487	10.99		3.56	6.41	0.00			159				
DRILLS, BLAST HOLE, CRAWLER MTD *****														
GARDNER DENVER														
3940	AT3100B/PR55 3.5" HOLE 12' FEED 600CFM A	67,122	14.34		3.20	7.21	0.00			92				
3945	AT3100B/PR123J 4.0" HOLE 12' FEED 750CFM A	70,998	15.12		3.38	7.62	0.00			91				
3950	AT3100B/PR66 4.0" HOLE 12' FEED 900CFM A	73,790	15.69		3.52	7.93	0.00			93				
3955	AT3800A/PR55 ANGLE DRILL 600CFM A 3.5" HOLE 20' FEED	83,630	17.72		3.99	8.98	0.00			123				
3960	ATD3800A/PR123J ANGLE DRILL 4.0" HOLE 20' FEED	750CFM A	87,526	18.51	4.17	9.40	0.00			124				
3965	AT3800A/PR66 ANGLE DRILL 4.0" HOLE 20' FEED	900CFM A	90,305	19.07	4.31	9.70	0.00			125				
3970	SCH3500BV HYDRAULIC DRILL 223 HP D 2.5" HOLE 12' FEED	221,214	54.46		10.55	23.76	6.50			125				
3975	HYDR. RING DRILL JUMBO 5'FEED 3.5" HOLE, HPRI DRILL & MOD1 POWER	75 HP E	164,202	42.47	7.83	17.64	5.40			144				
INGERSOLL-RAND														
3985	EQM350/VL140 3.5" HOLE 12' FEED 750CFM A	79,649	16.87		3.80	8.55	0.00			129				
3990	EQM350/VL671 4.0" HOLE 12' FEED 900CFM A	86,856	18.38		4.14	9.33	0.00			131				
3995	EQM 450Y 3.0" HOLE 12' FEED 100 HP D	119,805	27.78		5.71	12.86	2.91			188				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION		STAND BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	DRILLS, BLAST HOLE, CRLR MTD (CONT'D) *****									
	SULLIVAN									
4005	MAVRICK/VCR350 2.5" HOLE 12' FEED 450CFM A	45,639	9.71		2.18	4.90	0.00			60
4010	RAM STD/VCR260 4.0" HOLE 12' FEED 800CFM A	69,646	14.86		3.32	7.48	0.00			100
4015	RAM EXT/VCR260 4.0" HOLE 12' FEED 800CFM A	81,904	17.33		3.90	8.79	0.00			144
4020	MUSTANG VCR280 5.0" HOLE 20' FEED1200CFM A	101,229	21.33		4.83	10.87	0.00			184
4025	STALLION JH-6 5.5" HOLE 20' FEED 165 HP D	218,421	50.03		10.41	23.46	4.81			300
	DRILLS, CORE, COLUMN MOUNTED *****									
	ACKER									
4040	MOD 610-E 4" DIA. MAX	1 HP E	2,052	0.71		0.10	0.22	0.07		1
4045	MOD 930-E 9" DIA. MAX	2 HP E	2,521	0.96		0.12	0.27	0.14		2
4050	MOD 1050-E 10" DIA. MAX	3 HP E	4,062	1.43		0.19	0.43	0.22		3
4055	MOD 1080-E 10" DIA. MAX	11 HP E	9,278	4.04		0.45	1.00	0.79		6
	LONGYEAR									
4065	MOD 752 DRILL W/E4-230 MOTOR	3 HP E	3,383	1.20		0.16	0.36	0.22		2
4070	MOD 42N DRILL W/A4-350 MOTOR	165CFM A	3,620	1.14		0.17	0.39	0.00		3
	DRILLS, CORE, SKID MOUNTED *****									
	ACKER									
4085	TEREDO MARK-II NX 1000' MAX	44 HP D	35,719	8.79		1.70	3.83	1.28		45
4090	ACE MODEL C NX 400' MAX	20 HP D	24,745	5.72		1.18	2.66	0.58		35
4095	BUSH MASTER NX 900' MAX	48 HP D	42,642	10.34		2.03	4.58	1.40		45
	SPRAGUE AND HENWOOD									
4110	MOD 37-H NX 400' MAX	18 HP G	18,010	4.95		0.86	1.93	1.14		18
4115	MOD 40-CL NX 1050' MAX	49 HP D	27,889	7.39		1.33	2.99	1.43		27

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT			
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNERSHIP				
			AVERAGE	SEVERE								
DRILLS, ROTARY *****												
GARDNER-DENVER												
4130	MOD RDC-16B 3" TO 5 1/8"	131 HP D	167,391	29.20		6.73	13.40	3.82	310			
4135	MOD GD-25/35C 6" TO 8 3/4"	250 HP D	231,557	43.15		9.31	18.53	7.28	600			
4140	MOD GD-45C 6 3/4" TO 10 5/8"	325 HP D	364,860	65.22		14.67	29.20	9.47	775			
4145	MOD GD-100 9 7/8" TO 15"	626 HP E	730,808	124.89		26.67	48.49	39.44	2110			
4150	MOD GD-120 3 7/8" TO 17 1/2"	684 HP E	901,382	145.72		32.89	59.81	43.09	2910			
INGERSOLL-RAND												
4160	MOD DM-25 6 3/4" DRILLMASTER CRWL. MOUNTED	210 HP D	248,516	43.96		9.99	19.88	6.12	500			
4165	MOD T4-EH 7-7/8" DRILLMASTER TRK. MOUNTED	304 HP D	327,142	60.10		13.09	25.93	8.86	550			
4170	MOD TH-60 WATER WELL DRILL TRK. MOUNTED	435 HP D	304,258	61.78		12.19	24.17	12.68	460			
ROBBINS												
4180	RRT 35 TK MTD 6-1/4" TO 8-0" 335/225 HP D/D	334,986	63.78			13.41	26.57	10.81	600			
4185	RRT 50 TK MTD 6 3/4" TO 9" 335 HP D	486,951	84.63			19.49	38.59	9.76	860			
4190	RRT 60 TK MTD 6 3/4" TO 9 7/8" 350 HP D	550,840	94.38			22.06	43.71	10.20	960			
4195	RR10S ON D9H 6 3/4" TO 9" 410 HP D	400,340	73.72			16.10	32.04	11.95	1160			
4200	RR10HD ON D9H 6 3/4" TO 10 5/8" 410 HP D	464,567	82.90			18.68	37.18	11.95	1340			
4205	RR10XHD ON 41B 9 7/8" TO 12 1/4" 524 HP D	642,388	93.09			23.44	42.62	15.27	1830			
4210	RR12E CRLR MTD 9" TO 12 1/4" 725/450 HP E/E	1,182,682	229.55			43.15	78.47	82.12	2605			
FORK LIFTS *****												
CATERPILLAR												
LC = LOAD CENTER												
4230	M20 ELECT 2000# @ 24" LC	18 HP E	16,699	4.57		0.78	1.75	1.05	54			
4235	M25 ELECT 2500# @ 24" LC	18 HP E	16,789	4.60		0.80	1.77	1.05	54			
4240	MC30 ELECT 3000# @ 24" LC	18 HP E	17,533	4.74		0.83	1.84	1.05	85			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP				
FORK LIFTS (CONT'D)													

CATERPILLAR (CONT'D)													
4245	M40B ELECT 4000# @ 24" LC	32 HP E	24,305	7.16			1.15	2.56	1.87	95			
4250	M50B ELECT 5000# @ 24" LC	32 HP E	24,781	7.25			1.17	2.61	1.87	102			
4255	MC60B ELECT 6000# @ 24" LC	47 HP E	27,246	8.97			1.29	2.87	2.75	123			
4260	M70B ELECT 7000# @ 24" LC	53 HP E	33,826	10.70			1.59	3.55	3.10	134			
4265	M80B ELECT 8000# @ 24" LC	53 HP E	35,384	10.97			1.67	3.72	3.10	142			
4270	M100B ELECT 10000# @ 24" LC	53 HP E	37,315	11.32			1.77	3.95	3.10	160			
4275	V30D GAS 3000# @ 24" LC	37 HP G	16,086	5.30			0.77	1.71	1.90	37			
4280	V40C GAS 4000# @ 24" LC	48 HP G	21,435	7.01			1.01	2.24	2.47	41			
4285	V50C GAS 5000# @ 24" LC	48 HP G	21,878	7.12			1.02	2.24	2.47	45			
4290	V60E GAS 6000# @ 24" LC	63 HP G	30,289	9.58			1.42	3.17	3.24	52			
4295	V70E GAS 7000# @ 24" LC	63 HP G	30,618	9.64			1.44	3.20	3.24	56			
4300	V80E GAS 8000# @ 24" LC	63 HP G	31,839	9.87			1.50	3.34	3.24	59			
4305	V110 DIESEL 11000# @ 24" LC	66 HP D	45,823	10.34			2.16	4.80	1.55	82			
4310	V150 DIESEL 15000# @ 24" LC	70 HP D	49,332	11.10			2.32	5.17	1.65	92			
4315	V180B DIESEL 18000# @ 24" LC	125 HP D	65,373	15.70			3.05	6.75	2.94	114			
4320	V200B DIESEL 20000# @ 24" LC	125 HP D	71,217	16.77			3.33	7.38	2.94	124			
4325	V250B DIESEL 25000# @ 24" LC	125 HP D	73,052	17.11			3.42	7.57	2.94	154			
4330	V300B DIESEL 30000# @ 24" LC	125 HP D	82,015	18.79			3.83	8.46	2.94	165			
4335	R40 DIESEL 4000# @ 24" LC	68 HP D	28,462	7.22			1.33	2.94	1.60	107			
4340	R50 DIESEL 5000# @ 24" LC	68 HP D	29,148	7.35			1.36	3.02	1.60	112			
4345	R60 DIESEL 6000# @ 24" LC	68 HP D	35,277	8.46			1.65	3.67	1.60	128			
4350	R80 DIESEL 8000# @ 24" LC	68 HP D	36,619	8.77			1.70	3.73	1.60	138			
BYSTER - CHALLENGER													
4360	H30XL 3000# @ 24" LC	63 HP G	16,525	7.07			0.77	1.70	3.24	58			
4365	H60XL 6000# @ 24" LC	80 HP G	23,812	9.48			1.11	2.47	4.12	91			
4370	H110F 11000# @ 24" LC	116 HP G	46,927	16.01			2.22	4.93	5.97	163			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT									
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.												
			AVERAGE	SEVERE															
FORK LIFTS (CONT'D)																			

HYSTER - CHALLENGER (CONT'D)																			
4375	H150H 15000# @ 24" LC	127 HP G	64,074	19.94		2.99	6.61	6.54		234									
4380	H200HS20000# @ 24" LC	PS 127 HP G	74,850	21.91		3.50	7.77	6.54		256									
4385	H250H 25000# @ 24" LC	PS 127 HP G	75,032	21.96		3.51	7.75	6.54		295									
4390	H300B 30000# @ 24" LC	PS 127 HP G	81,234	23.06		3.81	8.45	6.54		360									
4395	H460CS46000# @ 36" LC	PS 190 HP G	167,499	42.96		7.85	17.42	9.78		590									
GENERATOR SETS, ELECTRIC																			

CATERPILLAR																			
T = TURBOCHARGED																			
TA = TURBOCHARGED AFTER COOLED																			
SKID MOUNTED																			
4415	MOD 3304B-T	240/480V 100 KW	148 HP D	17,262	8.00	10.09	0.93	2.29	3.49	2.56									
4420	MOD 3306B-T	240/480V 125 KW	187 HP D	22,629	10.28	12.96	1.22	3.01	4.41	3.36									
4425	MOD 3306B-TA	240/480V 150 KW	220 HP D	24,405	11.62	14.68	1.32	3.25	5.18	3.63									
4430	MOD 3406B-T	240/480V 200 KW	290 HP D	26,191	14.05	17.82	1.41	3.49	6.83	3.89									
4435	MOD 3406B-TA	240/480V 250 KW	370 HP D	29,979	17.19	21.87	1.61	3.99	8.72	4.46									
4440	MOD 3408B-T	240/480V 255 KW	370 HP D	35,590	18.39	23.30	1.92	4.74	8.72	5.30									
4445	MOD 3408B-TA	240/480V 310 KW	450 HP D	39,702	21.59	27.42	2.14	5.28	10.60	5.90									
4450	MOD 3412-T	240/480V 355 KW	500 HP D	48,011	24.83	31.46	2.59	6.39	11.78	7.14									
4455	MOD 3412-TA	240/480V 455 KW	650 HP D	65,217	32.87	41.61	3.51	8.68	15.31	9.69									
4460	MOD 3508	240/480V 600 KW	845 HP D	86,924	43.19	54.65	4.69	11.57	19.91	12.93									
4465	MOD 3512	240/480V 900 KW	1250 HP D	118,222	61.69	78.20	6.37	15.74	29.45	17.58									
4470	MOD 3516	480V 1100 KW	1450 HP D	155,281	75.41	95.34	8.37	20.67	34.16	23.09									
KOHLER																			
4480	2.25MBM25	PORTABLE 2.25 KW	5 HP G	852	0.50	0.63	0.04	0.11	0.26	0.12									
4485	3.5MM65	PORTABLE 3.50 KW	8 HP G	1,341	0.80	1.01	0.08	0.18	0.41	0.20									
4490	5MM65	PORTABLE 5.00 KW	12 HP G	1,742	1.14	1.44	0.10	0.23	0.62	0.26									
										2									

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND BY	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL										
			AVERAGE	SEVERE															
GENERATOR SETS, ELECTRIC (CONT'D) *****																			
ONAN																			
SKID MOUNTED																			
4505	120/240V 2.5 KW	6 HP G	1,538	0.70	0.89	0.08	0.20	0.31	0.23	0.40									
4510	120/240V 6.5 KW	14 HP G	3,464	1.64	2.06	0.19	0.47	0.72	0.52	0.94									
4515	120/240V 10.0 KW	20 HP G	3,786	2.08	2.63	0.20	0.50	1.03	0.57	1.34									
4520	120/240V 3.0 KW	6 HP D	4,009	1.02	1.25	0.22	0.53	0.14	0.59	0.19									
4525	120/240V 6.0 KW	12 HP D	5,321	1.48	1.82	0.29	0.71	0.28	0.79	0.37									
4530	120/240V 12.0 KW	22 HP D	7,659	2.27	2.78	0.41	1.02	0.52	1.13	0.68									
4535	120/240V 15 KW	27 HP D	7,851	2.47	3.04	0.43	1.05	0.64	1.17	0.84									
4540	120/240V 30 KW	63 HP D	11,646	4.32	5.40	0.63	1.55	1.48	1.74	1.95									
4545	120/240V 45 KW	87 HP D	15,399	5.82	7.28	0.83	2.05	2.05	2.29	2.70									
4550	120/240V 60 KW	102 HP D	17,698	6.75	8.44	0.96	2.36	2.40	2.64	3.16									
4555	120/240V 75 KW	162 HP D	21,060	9.22	11.60	1.14	2.80	3.82	3.13	5.02									
4560	120/240V 90 KW	162 HP D	22,065	9.44	11.86	1.19	2.94	3.82	3.28	5.02									
4565	120/240V 125 KW	210 HP D	25,533	11.58	14.57	1.38	3.40	4.95	3.79	6.51									
4570	120/240V 150 KW	276 HP D	30,257	14.50	18.33	1.63	4.03	6.50	4.50	8.56									
OVERLOW																			
4580	KP2250R PORTABLE	2.25 KW	5 HP G	955	0.53	0.67	0.06	0.13	0.26	0.15									
4585	KP3000R PORTABLE	3.00 KW	7 HP G	1,041	0.67	0.85	0.06	0.14	0.36	0.16									
4590	KP3750BIC PORTABLE	3.75 KW	8 HP G	1,462	0.82	1.05	0.08	0.19	0.41	0.22									
4595	KP5000BIC PORTABLE	5.00 KW	10 HP G	1,849	1.03	1.30	0.10	0.25	0.51	0.27									
4600	KP6500BICB PORTABLE	6.50 KW	16 HP G	1,940	1.42	1.82	0.10	0.25	0.82	0.28									
4605	KP7500BICB PORTABLE	7.50 KW	16 HP G	1,837	1.41	1.80	0.10	0.24	0.82	0.27									

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
GRADERS, MOTOR														

CATERPILLAR														
4620	MOD 120-G	POWER SHIFT ARTIC	125 HP D	106,164	19.09	23.94	4.61	9.41	2.71	10.72	3.56	272		
4625	MOD 130-G	POWER SHIFT ARTIC	135 HP D	120,905	21.51	26.94	5.26	10.74	2.93	12.24	3.85	293		
4630	MOD 12-G	POWER SHIFT ARTIC	135 HP D	132,521	23.19	29.04	5.76	11.77	2.93	13.42	3.85	316		
4635	MOD 140-G	POWER SHIFT ARTIC	150 HP D	133,413	23.79	29.83	5.79	11.81	3.25	13.47	4.28	318		
4640	MOD 14-G	POWER SHIFT ARTIC	180 HP D	188,639	32.95	41.31	8.15	16.54	3.91	18.85	5.13	441		
4645	MOD 16-G	POWER SHIFT ARTIC	250 HP D	274,656	47.69	59.78	11.85	24.04	5.42	27.39	7.13	581		
CHAMPION														
4655	MOD 710A	ARTICULATED	135 HP D	104,140	19.15	24.04	4.51	9.19	2.93	10.47	3.85	286		
4660	MOD 720A	ARTICULATED	152 HP D	124,631	22.61	28.40	5.40	11.00	3.30	12.55	4.34	335		
4665	MOD 730A	ARTICULATED	180 HP D	128,329	23.97	30.13	5.57	11.34	3.91	12.93	5.13	340		
4670	MOD 740A	ARTICULATED	210 HP D	140,937	26.65	33.51	6.12	12.48	4.56	14.23	5.99	345		
4675	MOD 710	NON-ARTICULATED	135 HP D	97,938	18.26	22.94	4.24	8.63	2.93	9.83	3.85	280		
4680	MOD 720	NON-ARTICULATED	152 HP D	108,563	20.32	25.55	4.70	9.56	3.30	10.89	4.34	315		
4685	MOD 730	NON-ARTICULATED	180 HP D	117,265	22.38	28.16	5.08	10.34	3.91	11.79	5.13	330		
4690	MOD 740	NON-ARTICULATED	210 HP D	132,890	25.49	32.09	5.77	11.75	4.56	13.40	5.99	345		
4695	MOD 760	NON-ARTICULATED	210 HP D	151,874	28.56	35.94	6.54	13.23	4.56	15.06	5.99	390		
FIAT-ALLIS														
4705	MOD-65B	DIRECT DRIVE	68 HP D	58,319	10.47	13.15	2.53	5.16	1.48	5.90	1.94	135		
4710	MOD-PG75	POWER SHIFT	130 HP D	91,029	17.09	21.49	3.94	8.02	2.82	9.14	3.71	300		
4715	MOD-PG85	POWER SHIFT	145 HP D	97,922	18.58	23.36	4.24	8.62	3.15	9.82	4.14	310		
4720	MOD-PG95	POWER SHIFT	160 HP D	104,786	20.13	25.35	4.51	9.14	3.47	10.41	4.56	330		
GALION/DRESSER														
4730	MOD 400E	POWER SHIFT	125 HP D	103,565	18.72	23.47	4.50	9.17	2.71	10.45	3.56	286		
4735	MOD 450E	POWER SHIFT	145 HP D	112,553	20.59	25.85	4.89	9.98	3.15	11.38	4.14	306		
4740	MOD A-500	POWER SHIFT	145 HP D	118,817	21.52	26.99	5.16	10.53	3.15	12.00	4.14	318		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
GRADERS, MOTOR (CONT'D) *****														
GALION/DRESSER (CONT'D)														
4745	MOD A-550	POWER SHIFT	175 HP D	132,970	24.47	30.72	5.77	11.78	3.80	13.43	4.99	327		
4750	MOD A-600	POWER SHIFT	197 HP D	137,922	25.80	32.44	5.99	12.22	4.27	13.94	5.62	336		
4755	MOD A-606	POWER SHIFT	197 HP D	154,359	28.18	35.38	6.71	13.69	4.27	15.60	5.62	342		
JOHN DEERE														
4765	MOD 570A	POWER SHIFT	85 HP D	85,265	14.93	18.70	3.70	7.52	1.84	8.57	2.42	205		
4770	MOD 670A	POWER SHIFT	125 HP D	104,986	18.92	23.74	4.56	9.30	2.71	10.61	3.56	275		
4775	MOD 672A	POWER SHIFT	125 HP D	123,979	21.69	27.17	5.38	10.97	2.71	12.51	3.56	286		
4780	MOD 770A	POWER SHIFT	150 HP D	120,326	21.90	27.49	5.22	10.65	3.25	12.14	4.28	310		
4785	MOD 772A	POWER SHIFT	150 HP D	139,688	24.67	30.92	6.07	12.39	3.25	14.13	4.28	320		
KOMATSU														
4795	GD 505A-2	ARTIC	130 HP D	99,560	18.34	23.04	4.31	8.77	2.82	10.00	3.71	275		
4800	GD 605A-2	ARTIC	145 HP D	118,828	21.58	27.11	5.15	10.48	3.15	11.95	4.14	336		
4805	GD 705A-4	ARTIC	200 HP D	164,902	30.12	37.87	7.10	14.39	4.34	16.41	5.70	425		
4810	GD 825A-1	ARTIC	280 HP D	263,932	47.04	59.04	11.38	23.06	6.08	26.28	7.99	578		
TROJAN														
4820	MOD F105	POWER SHIFT	112 HP D	99,247	17.82	22.37	4.29	8.72	2.43	9.94	3.19	205		
4825	MOD F155	POWER SHIFT	152 HP D	114,942	21.26	26.71	4.97	10.11	3.30	11.52	4.34	317		
4830	MOD F155A	POWER SHIFT	170 HP D	126,702	23.46	29.50	5.49	11.17	3.69	12.74	4.85	324		
HOISTS *****														
AIR TUGGERS BEEBE														
4845	2000P110-24	1.0 T 225 CFM RQD		6,040	1.27		0.29	0.65	0.00		5			
4850	5000P120-24	2.5 T 500 CFM RQD		9,667	2.06		0.46	1.04	0.00		16			
4855	10000P 50-24	5.0 T 500 CFM RQD		11,694	2.56		0.56	1.26	0.00		22			
4860	20000P 50-40	10.0 T 850 CFM RQD		30,282	6.25		1.44	3.24	0.00		55			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
HOISTS (CONT'D)														

SKAGIT														
4870	BU-18 DOUBLE DRUM W/5/8" CABLE	100 HP D	73,015	17.01		3.48	7.81	2.36		85				
4875	G-70 DOUBLE DRUM W/7/8" CABLE	100 HP D	98,679	21.96		4.70	10.56	2.36		126				
4880	RB-80 DOUBLE DRUM W/1-1/8" CABLE	130 HP D	151,675	33.05		7.22	16.23	3.06		240				
4885	RB-90W DOUBLE DRUM W/1-3/8" CABLE	150 HP D	169,024	36.97		8.05	18.08	3.53		300				
HYDRAULIC EXCAVATOR, CRAWLER MOUNTED														

T/B = TELESCOPING BOOM														
B/H = BACKHOE														
AKERMAN														
4900	MOD H7C	.92 CY B/H	145 HP D	127,069	31.98	43.75	6.65	15.38	3.15	19.37				
4905	MOD H10B	1.37 CY B/H	166 HP D	152,327	33.97	43.88	7.24	16.22	3.60	19.32				
4910	MOD H14B	1.64 CY B/H	209 HP D	181,663	40.81	52.70	8.64	19.35	4.54	23.03				
4915	MOD H16D	1.90 CY B/H	262 HP D	279,851	61.32	79.13	13.32	29.82	5.69	35.48				
4920	MOD H25C	2.55 CY B/H	326 HP D	440,326	87.52	108.72	19.39	42.50	7.07	48.85				
BADGER (HOPTO)														
4930	MOD 311	1.88 CY B/H	235 HP D	239,523	52.75	68.09	11.40	25.52	5.10	30.36				
4935	MOD 900B	2.00 CY B/H	308 HP D	288,764	64.25	82.95	13.75	30.77	6.68	36.61				
4940	MOD 1900	5.00 CY B/H	616 HP D	602,582	124.26	154.68	26.53	58.15	13.37	66.84				
BADGER (HOPTO) (CONT'D)														
4955	MOD 880D "E" BOOM	.63 CY B/H	114 HP D	75,393	19.80	27.06	3.95	9.12	2.47	11.49				
4960	MOD 1080	.75 CY B/H	153 HP D	98,336	25.96	35.47	5.15	11.90	3.32	15.00				
4965	MOD 1280B	1.00 CY B/H	198 HP D	124,426	29.39	37.98	5.93	13.26	4.30	15.78				
CATERPILLAR														
4975	MOD 205	.50 CY B/H	71 HP D	66,876	16.67	22.81	3.50	8.09	1.54	10.19				
4980	MOD 211	.68 CY B/H	94 HP D	84,251	21.13	28.93	4.41	10.19	2.04	12.85				
4985	MOD 213	.86 CY B/H	102 HP D	96,548	24.04	32.92	5.05	11.68	2.21	14.72				
										2.91				
										358				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
HYDRAULIC EXCAVATOR,CRLR MTD (CONT'D)															
***** T/B = TELESCOPING BOOM B/H = BACKHOE															
CATERPILLAR (CONT'D)															
4990	MOD 215B LC	1.00 CY B/H 105 HP D	120,353	29.31	40.16	6.30	14.56	2.28	18.35	2.99	400				
4995	MOD 225	1.25 CY B/H 135 HP D	162,665	35.19	45.40	7.74	17.33	2.93	20.62	3.85	504				
5000	MOD 235	1.50 CY B/H 195 HP D	295,279	62.57	80.70	14.05	31.46	4.23	37.43	5.56	904				
5005	MOD 245	2.50 CY B/H 325 HP D	459,058	97.83	126.23	21.84	48.90	7.05	58.20	9.27	1395				
FIAT-ALLIS															
5015	MOD FE18	.74 CY B/H 86 HP D	105,999	25.63	35.11	5.55	12.83	1.87	16.16	2.45	372				
5020	MOD FE20	.90 CY B/H 105 HP D	120,735	29.41	40.28	6.33	14.62	2.28	18.41	2.99	452				
5025	MOD FE28	1.33 CY B/H 152 HP D	162,675	35.63	46.00	7.74	17.33	3.30	20.62	4.34	585				
5030	MOD FE40L	2.10 CY B/H 243 HP D	252,923	55.56	71.74	12.03	26.94	5.27	32.07	6.93	984				
GRADALL															
5040	MOD G-660C	.88 CY T/B 145 HP D	167,723	40.82	55.93	8.78	20.30	3.15	25.58	4.14	452				
5045	MOD G-880C	1.00 CY T/B 145 HP D	199,724	47.78	65.50	10.45	24.17	3.15	30.45	4.14	536				
5050	MOD G-1000	1.25 CY T/B 272 HP D	269,684	59.58	76.93	12.83	28.73	5.90	34.19	7.76	787				
HITACHI															
5060	MOD UH 083	1.13 CY B/H 115 HP D	113,895	25.17	32.50	5.42	12.13	2.50	14.44	3.28	408				
5065	MOD UH 123	1.50 CY B/H 157 HP D	178,075	38.76	50.03	8.47	18.97	3.41	22.58	4.48	573				
5070	MOD UH 181	2.38 CY B/H 270 HP D	272,850	60.15	77.65	12.98	29.07	5.86	34.59	7.70	904				
5075	MOD UH 261	3.38 CY B/H 476 HP D	395,145	83.39	103.94	17.40	38.13	10.33	43.83	13.58	1320				
5080	MOD UH 501	5.25 CY B/H 540 HP D	533,216	106.66	129.31	21.99	45.97	11.72	51.45	15.40	1980				
5085	MOD UH 801	8.38 CY B/H 800 HP D	941,723	184.24	222.95	38.83	81.18	17.36	90.88	22.82	3460				
INSLEY															
5095	MOD H600C	.75 CY B/H 135 HP D	104,612	26.79	36.63	5.48	12.66	2.93	15.95	3.85	385				
5100	MOD H800C	1.00 CY B/H 160 HP D	126,906	32.39	44.29	6.65	15.36	3.47	19.35	4.56	440				
5105	MOD H1000C	1.25 CY B/H 180 HP D	149,439	33.78	43.63	7.11	15.92	3.91	18.94	5.13	517				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
HYDRAULIC EXCAVATOR, CRLR MTD (CONT'D)															

T/B = TELESCOPING BOOM B/H = BACKHOE															
INSLEY (CONT'D)															
5110	MOD H1500C	1.75 CY B/H 255 HP D	230,629	51.54	66.55	10.97	24.57	5.53	29.24	7.27	783				
5115	MOD H2500C	2.25 CY B/H 290 HP D	269,166	59.96	77.42	12.81	28.68	6.29	34.13	8.27	955				
5120	MOD H3500C	3.50 CY B/H 400 HP D	378,300	78.36	97.56	16.66	36.51	8.68	41.96	11.41	1300				
JOHN DEERE															
5130	MOD 490	.50 CY B/H 75 HP D	74,557	18.47	25.27	3.91	9.03	1.63	11.37	2.14	265				
5135	MOD 690 C	.875 CY B/H 125 HP D	106,860	26.98	36.91	5.60	12.94	2.71	16.30	3.56	400				
5140	MOD 790	1.00 CY B/H 155 HP D	138,277	34.70	47.50	7.24	16.73	3.36	21.08	4.42	510				
5145	MOD 792	1.50 CY B/H 180 HP D	169,298	37.65	48.61	8.06	18.04	3.91	21.46	5.13	644				
5150	MOD 990	2.125 CY B/H 260 HP D	256,922	56.80	73.32	12.23	27.38	5.64	32.57	7.42	912				
KOEHRING															
5160	MOD 6605	.20 CY B/H 46 HP D	41,623	10.43	14.27	2.18	5.04	1.00	6.34	1.31	118				
5165	MOD 6608	.34 CY B/H 64 HP D	52,770	13.39	18.31	2.76	6.38	1.39	8.04	1.83	163				
5170	MOD 6611	.52 CY B/H 74 HP D	71,511	17.77	24.32	3.75	8.66	1.61	10.90	2.11	246				
5175	MOD 6614	.85 CY B/H 93 HP D	90,037	22.36	30.62	4.71	10.89	2.02	13.73	2.65	310				
5180	MOD 6620	1.18 CY B/H 122 HP D	119,609	26.46	34.17	5.69	12.74	2.65	15.16	3.48	432				
5185	MOD 6625	1.46 CY B/H 162 HP D	156,639	34.72	44.82	7.46	16.69	3.52	19.86	4.62	560				
5190	MOD 6644	2.00 CY B/H 257 HP D	273,570	59.96	77.40	13.02	29.14	5.58	34.69	7.33	920				
5195	MOD 866E	3.25 CY B/H 332 HP D	453,532	90.03	111.83	19.97	43.77	7.20	50.31	9.47	1306				
5200	MOD 1066E	4.00 CY B/H 420 HP D	563,628	112.09	139.25	24.82	54.39	9.11	62.52	11.98	1640				
5205	MOD 1166E	5.00 CY B/H 464 HP D	627,814	124.75	154.96	27.64	60.58	10.07	69.64	13.23	1890				
5210	MOD 1266	5.50 CY B/H 664 HP D	913,699	175.74	212.33	37.67	78.76	14.41	88.17	18.94	2600				
5215	MOD 1466	9.00 CY B/H 832 HP D	1,066,791	206.70	249.92	43.98	91.96	18.05	102.95	23.73	2900				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
HYDRAULIC EXCAVATOR, CRLR MTD (CONT'D)														

T/B = TELESCOPING BOOM B/H = BACKHOE														
KOMATSU														
5225	MOD PC 120-3	.65 CY B/H 82 HP D	85,825	21.12	28.93	4.50	10.39	1.78	13.09	2.34				
5230	MOD PC 150-3	.82 CY B/H 99 HP D	102,140	25.18	34.47	5.35	12.36	2.15	15.57	2.82				
5235	MOD PC 200 LC-3	1.05 CY B/H 118 HP D	135,082	29.37	37.91	6.43	14.39	2.56	17.12	3.37				
5240	MOD PC 220 LC-3	1.31 CY B/H 148 HP D	171,951	37.33	48.19	8.18	18.32	3.21	21.81	4.22				
5245	MOD PC 300 LC-3	1.70 CY B/H 197 HP D	207,645	45.54	58.80	9.88	22.12	4.27	26.32	5.62				
5250	MOD PC 650-1	3.60 CY B/H 404 HP D	498,823	100.06	124.35	21.97	48.14	8.77	55.33	11.52				
UNIT														
5260	MOD H202CT SER II	1.25 CY B/H 152 HP D	152,854	33.71	43.54	7.27	16.28	3.30	19.38	4.34				
5265	MOD H342	1.63 CY B/H 228 HP D	246,910	54.02	69.71	11.75	26.31	4.95	31.30	6.50				
5270	MOD H471	1.75 CY B/H 304 HP D	305,599	67.42	87.03	14.55	32.56	6.60	38.75	8.67				
HYDRAULIC EXCAVATOR, TRUCK MOUNTED														

(HP & FUEL LISTED EQUIP/CARRIER) T/B = TELESCOPING BOOM B/H = BACKHOE														
CATERPILLAR														
5285	MOD 206	.59 CY B/H 71 HP D	77,312	11.79	14.04	3.06	6.17	1.67	6.83	2.20				
5290	MOD 212	.77 CY B/H 94 HP D	96,801	14.85	17.68	3.84	7.77	2.21	8.59	2.91				
5295	MOD 214	.95 CY B/H 102 HP D	108,605	16.51	19.65	4.32	8.74	2.40	9.67	3.16				
5300	MOD 224	1.18 CY B/H 124 HP D	139,587	19.29	22.50	5.20	9.97	2.92	10.79	3.84				
GRADALL														
5310	MOD G-3R	.50 CY T/B 125 HP D	128,482	19.51	23.22	5.13	10.43	2.94	11.54	3.87				
5315	MOD G-3W	.50 CY T/B 125/205 HP D/D	139,288	22.25	26.43	5.54	11.23	3.90	12.43	4.99				
5320	MOD G-660C	.88 CY T/B 145/210 HP D/G	187,745	29.55	35.32	7.48	15.22	5.05	16.86	6.62				
5325	MOD G-880C	1.00 CY T/B 145/210 HP D/D	227,879	33.55	39.66	9.08	18.46	4.40	20.45	5.64				
5330	MOD G-1000	1.25 CY T/B 272/312 HP D/D	298,167	43.19	50.44	11.11	21.33	7.87	23.09	10.14				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LAND CLEARING EQUIPMENT *****														
(ADD TO LOADER/TRACTOR) (INCLUDES HYDRAULICS)														
BALDERSO/FLBOO														
5345	MOD BHIS 30 HYDR. TREE SHEAR FOR 953 LOADER	16,857	3.64	4.56	0.81	1.81	0.00	2.15	0.00	32				
5350	MOD BMA8 MULTIAPPLICATION RAKE FOR D8L TRACTOR	20,275	4.19	5.31	0.96	2.17	0.00	2.59	0.00	83				
5355	MOD BTXC973 CLAMP RAKE FOR 973 LOADER	22,792	4.67	5.93	1.08	2.44	0.00	2.91	0.00	63				
5360	MOD BBL7 BLADE RAKE FOR D7G TRACTOR	10,938	2.35	2.95	0.52	1.17	0.00	1.40	0.00	37				
5365	MOD BRK8 ROCK & ROOT RAKE FOR D8L TRACTOR	18,725	3.90	4.92	0.89	2.01	0.00	2.39	0.00	80				
5370	MOD VT8 V-TREE CUTTER FOR D8L TRACTOR	29,569	6.08	7.71	1.41	3.17	0.00	3.78	0.00	140				
5375	LOGGING PORK FOR 988 LOADER	23,421	5.00	6.28	1.12	2.51	0.00	2.99	0.00	70				
5380	HEAVY DUTY CLEARING RAKE FOR D8L	18,349	3.83	4.83	0.88	1.97	0.00	2.34	0.00	71				
LAWNMOWERS *****														
EXCEL														
5395	HUSTLER 275-60"	23 HP G	8,583	5.23		0.70	2.03	1.45		21				
5400	HUSTLER 295-60"	25 HP G	9,973	5.96		0.83	2.37	1.58		24				
5405	HUSTLER 305D-60"	32 HP D	11,146	5.62		0.92	2.65	0.93		25				
5410	HUSTLER 320-72"	22 HP D	10,110	4.84		0.83	2.40	0.64		24				
5415	HUSTLER 340-72"	28 HP D	10,880	5.37		0.89	2.58	0.82		24				
5420	HUSTLER 400-72"	44 HP G	9,887	7.40		0.81	2.34	2.78		24				
TORO														
5430	MOD 20624 21" REAR BAGGER-PUSH	4 HP G	654	0.58		0.06	0.16	0.25		1				
5435	MOD 725 21" REAR BAG-ENG.RIDER	7 HP G	1,208	1.03		0.10	0.26	0.44		3				
5440	MOD1132 32" RIDER	11 HP G	1,611	1.49		0.13	0.35	0.69		4				
5445	MOD1142 42" LAWN TRACTOR	11 HP G	2,458	1.84		0.20	0.56	0.69		5				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LAWNMOWERS (CONT'D)														

TORO (CONT'D)														
5450	MOD 117 52" GROUNMASTER	17 HP G	6,560	3.95		0.54	1.55	1.07		9				
5455	MOD 217D 62" GROUNMASTER	17 HP D	10,757	4.93		0.89	2.56	0.50		13				
5460	MOD 220 62" GROUNMASTER	20 HP G	9,224	5.25		0.76	2.18	1.26		11				
5465	MOD 327 72" GROUNMASTER	27 HP G	12,540	7.15		1.04	2.99	1.71		17				
5470	MOD 322D 72" GROUNMASTER	22 HP D	13,314	6.13		1.10	3.17	0.64		14				
LIGHTING SETS, TRAILER MOUNTED														

ALLMAND METALLIC VAPOR														
5485	MAXI-LITE III 4/1000W	15 HP D	14,111	5.09		0.73	1.67	0.46		29				
AMIDA														
METALLIC VAPOR														
5495	MOD 5000 3.0KW 2/1000W W GENERATO	6 HP G	10,256	3.77		0.53	1.20	0.40		2				
5500	MOD 5000 4.0KW 2/1000W W GENERATO	10 HP D	8,891	3.22		0.46	1.04	0.31		2				
5505	MOD 5000 6.5KW 4/1000W W GENERATO	14 HP G	11,121	4.72		0.58	1.31	0.94		3				
5510	MOD 5000 8.0KW 4/1000W W GENERATO	15 HP D	12,801	4.67		0.67	1.52	0.46		3				
OVER-LOWE														
METALLIC VAPOR														
5520	TM 352 2/1000W 3 KW	6 HP D	11,188	3.81		0.58	1.32	0.19		17				
5525	TM 354 4/1000W 6 KW	12 HP D	14,786	5.19		0.76	1.75	0.37		22				
5530	TM 356 6/1000W 8 KW	15 HP D	17,406	6.15		0.90	2.07	0.46		24				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, BELT														

KOLMAN														
5545	101XHD 24"X50' 355 T/HR	28 HP D	33,432	8.29	10.93	1.55	3.41	0.66	4.05	0.87	116			
OPTIONAL EQUIPMENT SELECT AS NEEDED														
5555	PLATE FEEDER DOZER TRAP MODEL 45		7,226	1.47	1.90	0.34	0.77	0.00	0.93	0.00	37			
5560	BELT FEEDER DOZER TRAP MODEL	3 HP D	9,706	2.07	2.66	0.46	1.04	0.07	1.24	0.09	36			
5565	WING WALLS STATIONARY		1,403	0.29	0.37	0.07	0.15	0.00	0.18	0.00	9			
5570	TUNNEL EXTENSION W/BACKBOARDS		7,050	1.44	1.85	0.34	0.76	0.00	0.90	0.00	61			
5575	SINGLE DECK SCREEN SB-70 7'X42		4,145	0.85	1.09	0.20	0.45	0.00	0.53	0.00	19			
5580	DOUBLE DECK SCREEN DC-70-42 7'X42		6,172	1.26	1.62	0.29	0.66	0.00	0.79	0.00	27			
5585	TRIPLE DECK SCREEN TC-70-42 7'X42		8,934	1.82	2.33	0.43	0.96	0.00	1.13	0.00	34			
5590	XHD CONVEYOR JACKLEG		1,236	0.25	0.33	0.06	0.13	0.00	0.16	0.00	9			
5595	101XHD 30"X50' 615 T/HR	42 HP D	37,066	9.60	12.69	1.72	3.77	0.99	4.47	1.30	135			
OPTIONAL EQUIPMENT SELECT AS NEEDED														
5605	PLATE FEEDER DOZER TRAP MODEL 45		8,454	1.73	2.21	0.41	0.91	0.00	1.08	0.00	42			
5610	BELT FEEDER DOZER TRAP MODEL	3 HP D	10,367	2.20	2.83	0.50	1.11	0.07	1.32	0.09	40			
5615	WING WALLS STATIONARY		1,403	0.29	0.37	0.07	0.15	0.00	0.18	0.00	9			
5620	TUNNEL EXTENSION W/BACKBOARDS		7,050	1.44	1.85	0.34	0.76	0.00	0.90	0.00	61			
5625	SINGLE DECK SCREEN SB-80 8'X48		5,205	1.05	1.37	0.24	0.55	0.00	0.67	0.00	23			
5630	DOUBLE DECK SCREEN DC-80-48 8'X48		7,296	1.48	1.91	0.35	0.78	0.00	0.93	0.00	35			
5635	TRIPLE DECK SCREEN TC-80-48 8'X48		10,029	2.04	2.63	0.48	1.07	0.00	1.28	0.00	43			
5640	XHD CONVEYOR JACKLEG		1,236	0.25	0.33	0.06	0.13	0.00	0.16	0.00	9			
5645	101XHD 36"X50' 910 T/HR	56 HP D	42,070	11.30	15.00	1.94	4.24	1.32	5.03	1.74	160			
OPTIONAL EQUIPMENT SELECT AS NEEDED														
5655	PLATE FEEDER DOZER TRAP MODEL 45		8,934	1.82	2.33	0.43	0.96	0.00	1.13	0.00	45			
5660	BELT FEEDER DOZER TRAP MODEL	5 HP D	11,200	2.43	3.12	0.53	1.20	0.12	1.43	0.15	42			
5665	WING WALLS STATIONARY		1,403	0.29	0.37	0.07	0.15	0.00	0.18	0.00	9			
5670	TUNNEL EXTENSION W/BACKBOARDS		7,050	1.44	1.85	0.34	0.76	0.00	0.90	0.00	61			
5675	SINGLE DECK SCREEN SB-90 9'X54		5,788	1.18	1.51	0.28	0.62	0.00	0.73	0.00	28			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, BELT (CONT'D) *****														
KOLMAN (CONT'D)														
5680	DOUBLE DECK SCREEN DC-90-54 9'X54	8,165	1.67	2.14	0.39	0.88	0.00	1.04	0.00	43				
5685	TRIPLE DECK SCREEN TC-90-54 9'X54	12,142	2.47	3.18	0.58	1.30	0.00	1.55	0.00	54				
5690	XHD CONVEYOR JACKLEG	1,236	0.25	0.33	0.06	0.13	0.00	0.16	0.00	9				
5695	101XHD 42"X50' 1260 T/HR	84 HP D	54,568	15.11	20.09	2.51	5.49	1.98	6.51	2.60	180			
OPTIONAL EQUIPMENT SELECT AS NEEDED														
5705	PLATE FEEDER DOZER TRAP MODEL 45	10,986	2.24	2.87	0.53	1.18	0.00	1.40	0.00	48				
5710	BELT FEEDER DOZER TRAP MODEL 5 HP D	14,383	3.08	3.95	0.69	1.54	0.12	1.83	0.15	45				
5715	WING WALLS STATIONARY	1,403	0.29	0.37	0.07	0.15	0.00	0.18	0.00	9				
5720	TUNNEL EXTENSION W/BACKBOARDS	7,050	1.44	1.85	0.34	0.76	0.00	0.90	0.00	61				
5725	SINGLE DECK SCREEN SB-100 60"X10'	7,529	1.54	1.97	0.36	0.81	0.00	0.96	0.00	37				
5730	DOUBLE DECK SCREEN DC-100 60"X10'	9,621	1.96	2.51	0.46	1.03	0.00	1.22	0.00	55				
5735	XHD CONVEYOR JACKLEG	1,236	0.25	0.33	0.06	0.13	0.00	0.16	0.00	9				
5740	101XHD 48"X50' 1700 T/HR	128 HP D	93,870	24.01	31.37	4.39	9.72	3.02	11.56	3.97	265			
OPTIONAL EQUIPMENT SELECT AS NEEDED														
5750	PLATE FEEDER DOZER TRAP MODEL 45	13,490	2.75	3.52	0.65	1.45	0.00	1.71	0.00	51				
5755	WING WALLS STATIONARY	1,403	0.29	0.37	0.07	0.15	0.00	0.18	0.00	9				
5760	TUNNEL EXTENSION W/BACKBOARDS	7,088	1.44	1.85	0.34	0.76	0.00	0.90	0.00	66				
5765	SINGLE DECK SCREEN SB-120 60"X12'	10,953	2.23	2.86	0.52	1.17	0.00	1.39	0.00	53				
5770	DOUBLE DECK SCREEN DC-120 60"X12'	16,081	3.27	4.21	0.77	1.72	0.00	2.05	0.00	77				
5775	TRIPLE DECK SCREEN TC-120 60"X12'	22,673	4.61	5.92	1.08	2.42	0.00	2.88	0.00	80				
5780	XHD CONVEYOR JACKLEG	1,236	0.25	0.33	0.06	0.13	0.00	0.16	0.00	9				
5785	303 48"X50' 2000 CY/HR	125 HP D	173,021	43.25	57.47	8.00	17.53	2.94	20.81	3.87	627			
5790	303 48"X60' 2000 CY/HR	185 HP D	192,410	49.11	65.10	8.92	19.59	4.36	23.26	5.73	662			
5795	303 60"X50' 3600 CY/HR	185 HP D	198,788	52.18	69.86	9.13	19.94	4.36	23.67	5.73	682			
5800	303 60"X60' 3600 CY/HR	290 HP D	228,914	62.67	83.94	10.52	22.96	6.83	27.24	8.99	737			
5805	404 48"X50' 2000 CY/HR	185 HP D	213,868	53.39	70.54	9.94	21.90	4.36	26.01	5.73	616			
5810	404 48"X60' 2000 CY/HR	185 HP D	225,979	55.94	73.88	10.51	23.18	4.36	27.54	5.73	650			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, BELT (CONT'D) *****														
KOLMAN (CONT'D)														
5815	404	60"X50' 3600 CY/HR	290 HP D	256,454	67.09	89.11	11.89	26.12	6.83	31.01	8.99	671		
5820	404	60"X60' 3600 CY/HR	290 HP D	283,762	73.84	98.29	13.13	28.83	6.83	34.23	8.99	724		
OPTIONAL EQUIPMENT SELECT AS NEEDED														
5830		SINGLE DECK SCREEN SB-120 72"X12"		16,337	3.32	4.27	0.77	1.74	0.00	2.08	0.00	58		
5835		DOUBLE DECK SCREEN DC-120 72"X12"		21,484	4.38	5.62	1.03	2.30	0.00	2.74	0.00	85		
5840		TRIPLE DECK SCREEN TC-120 72"X12"		24,586	5.00	6.43	1.17	2.63	0.00	3.13	0.00	90		
5845		SINGLE DECK VIBRATING GRIZZLE 72"W		24,676	5.02	6.45	1.18	2.64	0.00	3.14	0.00	89		
LOADERS, FRONT END, CRAWLER TYPE *****														
CASE														
5860	455 C	1 CY	63 HP D	61,279	16.90	21.29	2.92	6.57	1.60	7.82	2.11	150		
5865	855 C	1-1/2 CY	78 HP D	67,352	18.87	23.80	3.21	7.22	1.98	8.60	2.61	216		
5870	1155 D	1-3/4 CY	110 HP D	90,652	25.59	32.27	4.32	9.72	2.80	11.57	3.68	282		
5875	1455 B	2-1/4 CY	140 HP D	106,272	30.38	38.35	5.06	11.39	3.56	13.57	4.69	360		
CATERPILLAR														
5885	931B	1 CY	65 HP D	43,143	12.63	15.94	2.06	4.63	1.65	5.50	2.18	160		
5890	931B LGP	1 CY	65 HP D	47,702	13.72	17.32	2.28	5.12	1.65	6.09	2.18	177		
5895	943	1-1/2 CY	80 HP D	85,418	23.27	29.32	4.07	9.15	2.03	10.91	2.68	257		
5900	943B LGP	1-1/2 CY	80 HP D	87,833	23.86	30.04	4.19	9.42	2.03	11.21	2.68	259		
5905	953	2 CY	110 HP D	107,732	29.69	37.39	5.13	11.55	2.80	13.75	3.68	300		
5910	953B LGP	2 CY	110 HP D	111,380	30.56	38.49	5.30	11.94	2.80	14.22	3.68	308		
5915	963	2-1/2 CY	150 HP D	140,764	39.00	49.15	6.71	15.09	3.81	17.97	5.02	399		
5920	963B LGP	2-1/2 CY	150 HP D	144,850	39.97	50.37	6.90	15.52	3.81	18.49	5.02	407		
5925	973	3-3/4 CY	210 HP D	199,838	55.27	69.63	9.52	21.42	5.34	25.51	7.03	540		
5930	973B LGP	3-3/4 CY	210 HP D	205,061	56.53	71.20	9.77	21.99	5.34	26.18	7.03	558		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
LOADERS, F.E., CRAWLER TYPE (CONT'D) *****															
FIAT-ALLIS															
5940	FL5	1 CY	63 HP D	46,578	13.37	16.87	2.22	4.99	1.60	5.94	2.11	165			
5945	FL7	1-1/4 CY	78 HP D	56,451	16.26	20.52	2.69	6.05	1.98	7.20	2.61	198			
5950	FL9	1-5/8 CY	87 HP D	65,689	18.80	23.73	3.14	7.05	2.21	8.39	2.91	252			
5955	FL10C	2 CY	122 HP D	88,117	25.41	32.06	4.20	9.45	3.10	11.25	4.08	300			
5960	FL14C	2-5/8 CY	150 HP D	118,003	33.55	42.32	5.62	12.65	3.81	15.06	5.02	410			
5965	FL20	3-1/2 CY	223 HP D	170,662	48.72	61.50	8.13	18.29	5.67	21.79	7.47	585			
INTERNATIONAL															
5975	100-E	1-1/8 CY	65 HP D	51,572	14.64	18.47	2.46	5.53	1.65	6.58	2.18	161			
5980	125-E	1-3/8 CY	78 HP D	65,783	18.50	23.33	3.14	7.05	1.98	8.40	2.61	199			
5985	175-C	2 CY	130 HP D	102,839	29.22	36.85	4.90	11.03	3.30	13.13	4.35	338			
5990	250-C	2-3/4 CY	190 HP D	151,842	43.07	54.32	7.24	16.28	4.83	19.38	6.36	452			
JOHN DEERE															
6000	JD350-C	3/4 CY	42 HP D	37,906	10.56	13.31	1.80	4.06	1.07	4.84	1.41	119			
6005	JD455-E	1-1/4 CY	70 HP D	49,533	14.33	18.09	2.36	5.31	1.78	6.33	2.34	172			
6010	JD555-B	1-3/8 CY	78 HP D	61,511	17.47	22.06	2.93	6.59	1.98	7.86	2.61	188			
6015	JD655-B	2 CY	120 HP D	90,682	25.95	32.74	4.32	9.72	3.05	11.57	4.02	324			
6020	JD755-B	2-1/4 CY	140 HP D	105,842	30.29	38.22	5.04	11.35	3.56	13.52	4.69	355			
6025	JD855	2-3/4 CY	200 HP D	158,472	45.00	56.77	7.55	16.99	5.08	20.23	6.70	460			
KOMATSU															
6035	D31S-17	1.3 CY	66 HP D	46,202	13.39	16.91	2.20	4.95	1.68	5.90	2.21	156			
6040	D41S-3	1.6 CY	90 HP D	65,963	18.97	23.94	3.14	7.07	2.29	8.42	3.01	262			
6045	D53S-16	1.8 CY	110 HP D	85,028	24.24	30.58	4.05	9.11	2.80	10.85	3.68	300			
6050	D57S-1	2.1 CY	135 HP D	108,159	30.66	38.68	5.16	11.60	3.43	13.81	4.52	340			
6055	D66S-1	2.6 CY	160 HP D	130,049	36.79	46.40	6.19	13.94	4.07	16.60	5.36	418			
6060	D75S-3	3.3 CY	200 HP D	157,526	44.77	56.49	7.51	16.89	5.08	20.11	6.70	485			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, F.E., CRAWLER TYPE (CONT'D) *****														
KOMATSU (CONT'D)														
6065	D155S-1	5.9 CY	350 HP	D	308,171	86.15	108.60	14.68	33.03	8.90	39.34	11.72	950	
LOADERS, FRONT END, WHEEL TYPE ***** (ARTIC = ARTICULATED)														
BOBCAT/MELROE														
6080	MOD 440	6 CWT. SKID STEER	16 HP	G	8,782	2.71	3.51	0.41	0.88	0.82	1.04	1.07	21	
6085	MOD 443	6 CWT. SKID STEER	15 HP	D	10,530	2.44	3.16	0.49	1.06	0.35	1.26	0.46	24	
6090	MOD 540	8 CWT. SKID STEER	23 HP	G	11,907	3.72	4.81	0.56	1.20	1.18	1.43	1.54	31	
6095	MOD 543	8 CWT. SKID STEER	22 HP	D	13,387	3.16	4.07	0.62	1.35	0.52	1.61	0.68	33	
6100	MOD 641	10 CWT. SKID STEER	28 HP	D	15,790	3.80	4.88	0.74	1.60	0.66	1.90	0.87	39	
6105	MOD 642	10 CWT. SKID STEER	32 HP	G	14,554	4.83	6.22	0.69	1.48	1.65	1.75	2.15	38	
6110	MOD 742	13 CWT. SKID STEER	34 HP	G	16,757	5.34	6.88	0.79	1.70	1.75	2.02	2.28	45	
6115	MOD 743	13 CWT. SKID STEER	36 HP	D	17,969	4.46	5.73	0.85	1.83	0.85	2.17	1.12	46	
6120	MOD 843	17 CWT. SKID STEER	54 HP	D	23,126	6.13	8.01	1.07	2.30	1.27	2.73	1.67	63	
6125	MOD 943	24 CWT. SKID STEER	69 HP	D	28,708	7.64	9.97	1.33	2.86	1.63	3.39	2.14	88	
6130	MOD 974	37 CWT. SKID STEER	78 HP	D	42,497	10.87	14.52	1.95	4.12	1.84	4.87	2.42	121	
6135	MOD 975	37 CWT. SKID STEER	82 HP	D	42,987	11.09	14.80	1.97	4.17	1.93	4.93	2.54	122	
CASE														
6145	W-4	1/2 CY ARTIC	37 HP	D	25,665	5.93	7.65	1.20	2.59	0.87	3.07	1.15	48	
6150	W-11 B	1 CY ARTIC	66 HP	D	45,402	10.68	13.96	2.11	4.52	1.55	5.35	2.05	118	
6155	W-14	1-1/2 CY ARTIC	83 HP	D	61,932	14.36	18.74	2.88	6.17	1.96	7.30	2.57	146	
6160	W-20 C	2 CY ARTIC	110 HP	D	84,838	19.95	26.44	3.91	8.31	2.59	9.83	3.41	230	
6165	W-30	3 CY ARTIC	153 HP	D	107,385	25.39	33.33	4.98	10.64	3.60	12.58	4.74	290	
6170	W-36	4 CY ARTIC	185 HP	D	137,855	32.50	42.94	6.36	13.55	4.36	16.03	5.73	398	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			AVERAGE	SEVERE	STAND BY	AVERAGE COND. OWNER-SHIP	SEVERE COND. OWNER-SHIP	FUEL					
LOADERS, F.E., WHEEL TYPE (CONT'D) *****													
CATERPILLAR													
6180	910	1-1/4 CY ARTIC	65 HP D	48,547	11.32	14.85	2.25	4.81	1.53	5.69	2.01	145	
6185	IT12 (INTEGRATED TOOL CARRIER)	65 HP D	57,681	12.94	16.88	2.68	5.75	1.53	6.81	2.01	172		
6190	916	1-1/2 CY ARTIC	85 HP D	70,096	15.87	20.64	3.26	7.01	2.00	8.29	2.63	183	
6195	IT18 (INTEGRATED TOOL CARRIER)	85 HP D	75,107	16.76	21.76	3.50	7.53	2.00	8.91	2.63	204		
6200	920	1-3/4 CY ARTIC	80 HP D	71,315	15.92	20.70	3.32	7.14	1.88	8.45	2.48	186	
6205	926	2 CY ARTIC	105 HP D	80,080	18.31	23.74	3.74	8.04	2.47	9.52	3.25	198	
6210	IT28 (INTEGRATED TOOL CARRIER)	105 HP D	85,430	19.25	24.93	3.98	8.58	2.47	10.17	3.25	231		
6215	930	2-1/4 CY ARTIC	100 HP D	81,690	18.58	24.18	3.80	8.16	2.36	9.65	3.10	212	
6220	936	2-1/2 CY ARTIC	125 HP D	100,703	22.77	29.49	4.70	10.11	2.94	11.97	3.87	261	
6225	950-B	3 CY ARTIC	155 HP D	130,978	29.63	38.66	6.09	13.06	3.65	15.46	4.80	328	
6230	966-D	4 CY ARTIC	200 HP D	181,546	40.84	53.49	8.42	18.02	4.71	21.32	6.20	441	
6235	980-C	5-1/4 CY ARTIC	270 HP D	244,928	51.67	67.59	10.50	22.56	6.36	25.88	8.37	601	
6240	988-B	7 CY ARTIC	375 HP D	353,121	72.57	94.69	15.01	32.00	8.83	36.68	11.62	892	
6245	992-C	13-1/2 CY ARTIC	690 HP D	720,870	148.19	196.00	30.36	64.25	16.26	73.60	21.39	1928	
CLARK/MICHIGAN													
6255	35C	1-1/2 CY	85 HP D	61,953	14.37	18.69	2.88	6.19	2.00	7.32	2.63	180	
6260	45C	2 CY	110 HP D	72,615	17.16	22.31	3.39	7.27	2.59	8.61	3.41	206	
6265	55C	2-1/2 CY ARTIC	121 HP D	84,589	19.78	25.76	3.94	8.45	2.85	10.01	3.75	262	
6270	75C	3 CY ARTIC	154 HP D	123,826	28.51	37.44	5.74	12.26	3.63	14.51	4.77	313	
6275	125C	4 CY ARTIC	203 HP D	166,975	38.65	51.06	7.71	16.42	4.78	19.41	6.29	437	
6280	175C	5 CY ARTIC	279 HP D	227,291	49.13	64.58	9.72	20.85	6.57	23.92	8.65	565	
6285	275C	7 CY ARTIC	360 HP D	332,767	67.75	87.47	14.23	30.52	8.48	35.01	11.16	864	
6290	475C	12 CY ARTIC	612 HP D	624,272	127.45	167.05	26.45	56.25	14.42	64.45	18.97	1689	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, F.E., WHEEL TYPE (CONT'D)														

FIAT-ALLIS														
6300	FR-07	1-1/3 CY ARTIC	70 HP D	47,573	11.29	14.77	2.21	4.73	1.65	5.59	2.17	145		
6305	345-B	1-1/2 CY ARTIC	80 HP D	55,261	12.98	16.92	2.57	5.52	1.88	6.53	2.48	151		
6310	FR-10	2-1/4 CY ARTIC	110 HP D	70,187	16.63	21.55	3.28	7.05	2.59	8.35	3.41	212		
6315	FR-12	2-1/2 CY ARTIC	127 HP D	77,147	18.67	24.36	3.59	7.69	2.99	9.10	3.94	230		
6320	FR-15	3 CY ARTIC	164 HP D	109,015	26.29	34.76	5.03	10.71	3.86	12.67	5.08	296		
6325	FR-20	4-1/2 CY ARTIC	223 HP D	168,845	39.65	52.35	7.79	16.61	5.25	19.64	6.91	445		
6330	FR-30	5-1/4 CY ARTIC	275 HP D	222,509	48.25	63.51	9.51	20.39	6.48	23.39	8.52	605		
6335	FR-35	7 CY ARTIC	350 HP D	272,309	57.84	75.51	11.57	24.66	8.25	28.28	10.85	755		
FORD														
6345	340B	16 CF	48 HP D	22,174	5.83	7.71	1.02	2.17	1.13	2.57	1.49	66		
6350	445A	3/4 CY	48 HP D	25,816	6.47	8.51	1.19	2.54	1.13	3.01	1.49	73		
6355	545A	3/4 CY	60 HP D	29,144	7.47	9.78	1.35	2.89	1.41	3.41	1.86	75		
6360	555B	1 CY	63 HP D	64,256	13.93	17.99	3.00	6.46	1.48	7.64	1.95	173		
INTERNATIONAL/DRESSER														
6370	510B	1-3/8 CY	80 HP D	55,130	12.98	16.97	2.56	5.48	1.88	6.50	2.48	140		
6375	515B	1-5/8 CY	100 HP D	67,835	15.98	20.80	3.16	6.78	2.36	8.02	3.10	167		
6380	520B	2-1/4 CY ARTIC	120 HP D	78,896	18.75	24.44	3.67	7.87	2.83	9.31	3.72	232		
6385	530	2-3/4 CY ARTIC	155 HP D	114,799	26.77	35.06	5.33	11.40	3.65	13.48	4.80	291		
6390	540	3-3/4 CY ARTIC	189 HP D	159,819	36.79	48.62	7.37	15.71	4.45	18.58	5.86	360		
6395	550	5-1/4 CY ARTIC	209 HP D	226,475	51.23	68.68	10.36	21.91	4.92	25.88	6.48	544		
6400	560B	7-1/2 CY ARTIC	415 HP D	332,381	69.37	89.60	14.21	30.48	9.78	34.96	12.86	830		
6405	570	12 CY ARTIC	590 HP D	621,023	124.30	160.81	26.52	56.80	13.90	65.14	18.29	1350		
JOHN DEERE														
6415	300B	3/4 CY	43 HP D	23,544	5.84	7.60	1.10	2.34	1.01	2.77	1.33	69		
6420	444C	1-1/2 CY	85 HP D	63,216	14.59	18.98	2.95	6.32	2.00	7.48	2.63	179		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, F.E., WHEEL TYPE (CONT'D) *****														
JOHN DEERE (CONT'D)														
6425	544C	2 CY ARTIC	105 HP D	76,672	17.61	22.77	3.58	7.72	2.47	9.14	3.25	197		
6430	644C	3 CY ARTIC	145 HP D	110,276	25.51	33.34	5.12	10.97	3.42	12.98	4.49	260		
6435	844	4-1/2 CY ARTIC	260 HP D	205,169	45.05	59.59	8.74	18.71	6.13	21.45	8.06	490		
KAWASAKI														
6445	KSS-65Z	2.2 CY	104 HP D	66,636	16.03	21.01	3.08	6.60	2.45	7.81	3.22	225		
6450	KSS-70	3.0 CY	158 HP D	93,699	23.12	30.52	4.32	9.22	3.72	10.90	4.90	305		
6455	KSS-80ZII	3.5 CY	165 HP D	100,358	24.60	32.43	4.63	9.88	3.89	11.70	5.11	327		
6460	KSS-85ZII	4.0 CY	217 HP D	136,643	33.45	44.28	6.30	13.40	5.11	15.83	6.73	409		
6465	KSS-95ZII	5.5 CY	305 HP D	188,813	43.40	57.35	8.05	17.23	7.19	19.76	9.45	615		
6470	KSS-110Z	7.5 CY	383 HP D	296,246	63.77	84.13	12.49	26.48	9.02	30.34	11.87	864		
MASSEY FERGUSON														
6480	MF 30E	3/4 CY	48 HP D	27,471	6.64	8.56	1.28	2.76	1.13	3.26	1.49	69		
6485	MF 50E	3/4 CY	65 HP D	29,905	7.69	9.98	1.39	2.99	1.53	3.54	2.01	80		
6490	MF 50HX	1 CY	72 HP D	33,182	8.73	11.52	1.53	3.25	1.70	3.84	2.23	96		
TEREX (GM)														
6500	33C	2 CY	103 HP D	66,296	15.94	20.89	3.07	6.57	2.43	7.77	3.19	216		
6505	44D	2-1/2 CY	123 HP D	77,443	18.58	24.25	3.59	7.71	2.90	9.14	3.81	250		
6510	55C	3-1/4 CY	144 HP D	107,509	25.17	33.09	4.98	10.63	3.39	12.57	4.46	280		
6515	60C	3-1/2 CY	168 HP D	115,496	27.39	35.92	5.35	11.45	3.96	13.54	5.21	309		
6520	66C	4 CY	210 HP D	150,028	35.55	46.84	6.93	14.79	4.95	17.48	6.51	425		
6525	70C	4-1/2 CY	247 HP D	168,395	36.42	46.79	7.28	15.76	5.82	18.10	7.66	433		
6530	80C	5-1/2 CY	307 HP D	227,246	49.99	65.72	9.72	20.85	7.23	23.92	9.52	590		
6535	90C	7-1/2 CY	460 HP D	338,671	72.87	95.35	14.36	30.59	10.84	35.06	14.26	989		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			GWT			
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
LOADERS, F.E., WHEEL TYPE (CONT'D) *****												
TROJAN												
6545	1500Z	1-3/4 CY ARTIC	93 HP D	60,489	14.58	19.16	2.80	5.98	2.19	7.06	2.88	180
6550	1900Z	2-1/2 CY ARTIC	119 HP G	76,563	22.41	29.17	3.56	7.63	6.13	9.02	7.98	220
6555	2000Z	3 CY ARTIC	160 HP D	102,229	24.70	32.49	4.73	10.10	3.77	11.94	4.96	306
6560	3500Z	3-3/4 CY ARTIC	185 HP D	118,618	29.47	39.54	5.42	11.44	4.36	13.51	5.73	380
6565	5500	5-1/2 CY ARTIC	285 HP D	224,236	49.11	64.89	9.57	20.48	6.71	23.49	8.83	616
6570	7500	7 CY ARTIC	400 HP D	295,082	62.99	81.88	12.57	26.87	9.42	30.81	12.40	846
LOADER/BACKHOE, WHEEL TYPE TRACTOR *****												
CASE												
6585	480D LDR/BHOE	7/8 CY FE BUCKET 24" B/H DIPPER	47 HP D	37,361	8.67	11.00	1.74	3.73	1.11	4.42	1.46	100
6590	580E LDR/BHOE	1.0 CY FE BUCKET 24" B/H DIPPER	63 HP D	46,324	10.85	13.75	2.16	4.66	1.48	5.53	1.95	118
6595	680H LDR/BHOE	1-1/4 CY FE BUCKET 30" B/H DIPPER	80 HP D	74,316	16.76	21.20	3.48	7.49	1.88	8.86	2.48	165
6600	780B LDR/BHOE	1-3/4 CY FE BUCKET 30" B/H DIPPER	111 HP D	85,709	19.97	25.28	3.99	8.59	2.62	10.17	3.44	210
JOHN DEERE												
6610	310B LDR/BH	3/4 CY FE BUCKET 24" B/H DIPPER	58 HP D	40,954	9.74	12.34	1.91	4.10	1.37	4.85	1.80	135
6615	410B LDR/BH	1 CY FE BUCKET 24" B/H DIPPER	62 HP D	48,749	11.33	14.38	2.27	4.88	1.46	5.79	1.92	138
6620	510B LDR/BHOE	1-1/8 CY FE BUCKET 24" B/H DIPPER	70 HP D	56,579	13.12	16.63	2.64	5.66	1.65	6.70	2.17	150
6625	610B LDR/BH	1-1/3 CY FE BUCKET 24" B/H DIPPER	80 HP D	64,811	14.97	18.97	3.02	6.50	1.88	7.70	2.48	163
6630	710B LDR/BHOE	1-1/2 CY FE BUCKET 30" B/H DIPPER	100 HP D	77,835	18.22	23.11	3.62	7.75	2.36	9.17	3.10	220

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADER/BH, WHL. TYPE TRACTOR (CONT'D) *****														
FORD														
6640	340B LDR/BH 16 CF FE BUCKET 24" B/H DIPPER	48 HP D	33,321	7.96	10.13	1.55	3.32	1.13	3.93	1.49	103			
6645	445A LDR/BH 3/4 CY FE BUCKET 24" B/H DIPPER	48 HP D	36,994	8.64	10.99	1.72	3.69	1.13	4.37	1.49	114			
6650	545A LDR/BH 3/4 CY FE BUCKET 24" B/H DIPPER	60 HP D	39,386	9.47	12.04	1.83	3.94	1.41	4.66	1.86	119			
6655	555B LDR/BH 1 CY FE BUCKET 24" B/H DIPPER	63 HP D	44,095	10.55	13.40	2.05	4.38	1.48	5.18	1.95	135			
6660	655A LDR/BH 1 CY FE BUCKET 24" B/H DIPPER	72 HP D	49,158	11.79	14.97	2.28	4.90	1.70	5.80	2.23	149			
6665	755A LDR/BH 1 1/2 CY FE BUCKET 24" B/H DIPPER	100 HP D	70,033	16.59	21.02	3.27	7.05	2.36	8.34	3.10	167			
MASSEY FERGUSON														
6675	MF 30E LDR/BH 3/4 CY FE BUCKET 24" B/H DIPPER	48 HP D	37,867	8.73	11.05	1.78	3.83	1.13	4.54	1.49	107			
6680	MF 50E LDR/BH 1 CY FE BUCKET 24" B/H DIPPER	65 HP D	43,055	10.27	13.01	2.02	4.34	1.53	5.14	2.01	120			
6685	MF 50HX LDR/BH 1 CY FE BUCKET 24" B/H DIPPER	72 HP D	45,512	11.10	14.10	2.11	4.52	1.70	5.34	2.23	129			
LOADER/BACKHOE, CRLR TYPE TRACTOR *****														
CASE														
6700	455C LDR/BHOE 1 CY FE BUCKET 24" B/H DIPPER	63 HP D	72,084	19.48	24.54	3.43	7.72	1.60	9.21	2.11	191			
6705	855C LDR/BHOE 1 1/2 CY FE BUCKET 24" B/H DIPPER	78 HP D	79,993	21.90	27.59	3.81	8.57	1.98	10.21	2.61	245			
CATERPILLAR														
6715	931BLDR/BHOE 1 CY FE BUCKET 30" B/H DIPPER	65 HP D	55,999	15.71	19.81	2.67	6.01	1.65	7.15	2.18	207			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT
			CONDITION	STAND-BY	AVERAGE	SEVERE	AVERAGE COND.	SEVERE COND.	
					OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
LOADER/BACKHOE ATTACHMENTS *****									
HYDRAULICALLY OPERATED IMPACTOR MOUNTED ON BACKHOE OR HYDRAULIC EXCAVATOR (ADD TO THE BASIC LOADER-BACKHOE OR EXCAVATOR)									
6725	KENT RAM 555 W/NARROW CHISEL	5,335	2.10	0.31	0.73	0.00			6
6730	KENT RAM 999 W/NARROW CHISEL	11,059	4.35	0.64	1.52	0.00			10
6735	KENT RAM 2600 W/CHISEL-MIN 3/4CY B/H	22,295	8.65	1.30	3.07	0.00			22
6740	KENT KHP-12 HYDRA-PAK TAMPER	5,357	1.85	0.31	0.74	0.00			9
6745	KENT KHP225 HYDRA-PAK MIN 3/4CY B/H	8,395	2.88	0.49	1.16	0.00			15
PILE EXTRACTORS *****									
VULCAN									
6760	400A 500 FT-LBS	450CFM A	18,825	5.89	1.10	2.59	0.00		30
6765	800A 1000 FT-LBS	900CFM A	24,560	7.83	1.43	3.38	0.00		57
6770	1200A 1640 FT-LBS	1350CFM A	28,885	9.42	1.69	3.98	0.00		97
PILE HAMMERS, DIESEL ***** (FUEL NOT INCLUDED)									
MKT CORPORATION									
6785	DE-30B/20B (6-FT) 12,000 FT-LBS		44,259	13.54	2.58	6.10	0.00		64
6790	DE-30B/20B (6-FT) 16,800 FT-LBS		45,730	13.98	2.67	6.30	0.00		72
6795	DE-70B/50B (6-FT) 30,000 FT-LBS		71,169	21.77	4.16	9.81	0.00		127
6800	DE-70B/50B (6-FT) 42,000 FT-LBS		74,461	22.85	4.35	10.26	0.00		148
PILE HAMMERS, SINGLE ACTING *****									
VULCAN									
6815	1 15000 FT-LBS	750CFM A	35,411	11.02	2.07	4.88	0.00		101
6820	06 19500 FT-LBS	900CFM A	41,906	13.03	2.45	5.78	0.00		121
6825	08 26000 FT-LBS	1100CFM A	47,683	14.85	2.78	6.57	0.00		175
6830	010 32500 FT-LBS	1350CFM A	51,251	16.06	3.00	7.07	0.00		195

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
PILE HAMMERS, SINGLE ACTING (CONT'D) *****														
VULCAN (CONT'D)														
6835	012	39000 FT-LBS	1500CFM A	60,727	18.79		3.55	8.37	0.00	287				
6840	014	42000 FT-LBS	1750CFM A	73,224	22.82		4.28	10.09	0.00	283				
6845	016	48750 FT-LBS	1750CFM A	83,243	25.81		4.86	11.47	0.00	320				
6850	020	60000 FT-LBS	2150CFM A	109,352	33.83		6.39	15.07	0.00	425				
6855	030	90000 FT-LBS	2350CFM A	124,497	38.47		7.28	17.16	0.00	575				
PILE HAMMERS, DOUBLE ACTING *****														
I.C.E														
6870	180	8100 FT-LBS	23 HP D	28,257	9.15		1.65	3.89	0.54	54				
6875	440	18100 FT-LBS	50 HP D	59,462	19.33		3.48	8.20	1.18	130				
6880	520	30000 FT-LBS	76 HP D	68,901	22.95		4.03	9.50	1.79	156				
6885	640	40000 FT-LBS	90 HP D	72,500	24.47		4.24	10.00	2.12	186				
6890	660	50000 FT-LBS	133 HP D	97,999	33.42		5.73	13.51	3.13	309				
6895	1070	70000 FT-LBS	136 HP D	116,648	39.09		6.82	16.08	3.20	252				
MITSUBISHI														
6905	MH-15	16300 FT-LBS	45 HP D	64,332	20.94		3.75	8.86	1.06	95				
6910	MH-25	27500 FT-LBS	79 HP D	78,389	26.36		4.58	10.80	1.86	147				
6915	MH-35	38600 FT-LBS	116 HP D	97,736	33.38		5.71	13.47	2.73	205				
6920	MH-45	50200 FT-LBS	129 HP D	125,039	42.06		7.30	17.23	3.04	271				
6925	MH-72	LAND 79500 FT-LBS	216 HP D	234,062	77.95		13.67	32.25	5.09	456				
6930	MH-80 OFFSHORE	88000 FT-LBS	268 HP D	269,535	90.47		15.75	37.15	6.31	456				
MKT CORPORATION														
6940	9-B-3	8750 FT-LBS	900CFM A	34,751	10.88		2.03	4.79	0.00	72				
6945	10-B-3	13100 FT-LBS	1200CFM A	36,951	11.69		2.16	5.09	0.00	111				
6950	11-B-3	19150 FT-LBS	1200CFM A	49,331	15.39		2.89	6.80	0.00	141				
6955	5 (SELF STOP)	1000 FT-LBS	375CFM A	12,611	4.02		0.74	1.74	0.00	17				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
PILE HAMMERS, DOUBLE ACTING (CONT'D) *****														
MKT CORPORATION (CONT'D)														
6960	6 (SELF STOP) 2500 FT-LBS	600CFM A	15,937	5.11		0.93	2.20	0.00		31				
6965	7 (SELF STOP) 4150 FT-LBS	750CFM A	19,878	6.37		1.16	2.73	0.00		50				
VULCAN														
6975	50C 15100 FT-LBS	1250CFM A	47,882	14.98		2.80	6.60	0.00		153				
6980	65C 19200 FT-LBS	1450CFM A	54,871	17.18		3.20	7.56	0.00		153				
6985	80C 24450 FT-LBS	1750CFM A	58,883	18.54		3.44	8.12	0.00		184				
6990	100C 32900 FT-LBS	2050CFM A	72,133	22.66		4.21	9.94	0.00		232				
6995	140C 36000 FT-LBS	2150CFM A	89,146	27.80		5.21	12.29	0.00		287				
7000	200C 50200 FT-LBS	2550CFM A	129,456	40.05		7.56	17.84	0.00		398				
PILE HAMMERS, VIBRATORY *****														
MKT CORPORATION														
7015	V5B WITH POWER PACK	95 HP D	66,478	22.82		3.88	9.16	2.24		110				
7020	V16B WITH POWER PACK	156 HP D	118,079	40.14		6.90	16.27	3.68		215				
7025	V20 WITH POWER PACK	310 HP D	173,899	61.59		10.15	23.96	7.30		257				
7030	V30 WITH POWER PACK	510 HP D	200,734	75.84		11.73	27.67	12.02		350				
7035	V36 WITH POWER PACK	580 HP D	254,933	94.20		14.89	35.13	13.66		450				
PIPELAYER *****														
CATERPILLAR														
7050	561D 15 FT BOOM, 40,000 LB CAP 105 HP D	122,700	21.12	26.15		5.38	11.07	1.37	12.63	1.76				
7055	571G 18 FT BOOM, 60,000 LB CAP 200 HP D	198,715	34.74	43.07		8.71	17.93	2.60	20.47	3.35				
7060	572G 18 FT BOOM, 90,000 LB CAP 200 HP D	226,885	39.14	48.49		9.94	20.47	2.60	23.36	3.35				
7065	583K 20 FT BOOM, 140,000 LB CAP 300 HP D	284,821	50.04	62.02		12.48	25.70	3.91	29.33	5.02				
7070	594H 24 FT BOOM, 200,000 LB CAP 410 HP D	397,731	69.72	86.41		17.43	35.89	5.34	40.96	6.86				
										1229				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL						
PUMPS, GROUT *****													
CHEMGROUT													
7085	CG-500 VERSATILE AIR OPERATED GROUT PLANT-100 PSI, 230 CFM	12,819	3.40		0.69	1.70	0.00		11				
7090	CG-550 AIR OPERATED MINI GROUT PLANT-100 PSI, 150 CFM	4,732	1.30		0.26	0.63	0.00		5				
7095	CG-600 AIR OPERATED COLLOIDAL MIXER AND PUMP-100 PSI, 450 CFM	18,914	5.10		1.02	2.51	0.00		18				
7100	CG-620 COLLOIDAL ADD-ON TO CG-500	8,167	2.12		0.44	1.08	0.00		11				
PUMPS, WATER (FOR CORE DRILLS) *****													
ACKER													
7115	MOD APS 11-5 6 GPM UP TO 100 PS 2 HP G	772	0.34		0.04	0.08	0.14		2				
PUMPS, WATER, CENTRIFUGAL, DEWATERING *****													
HOMELITE - SKID MOUNTED													
7130	MOD 110S 1-1/2"-5000 GPH @ 30' H 2 HP G	480	0.28		0.02	0.05	0.14		1				
7135	MOD 111S 2" - 9000 GPH @ 22' H 3 HP G	619	0.40		0.03	0.07	0.21		1				
7140	MOD 120S 3" - 18000 GPH @ 20' H 8 HP G	1,148	0.96		0.05	0.11	0.57		2				
MARLOW - WHEEL MOUNTED													
7150	MOD 4D2 465 GPM @ 20' HEAD 43 HP G	9,161	5.76		0.43	0.94	3.05		14				
7155	MOD 4C7 595 GPM @ 20' HEAD 30 HP D	9,263	3.12		0.44	0.96	0.99		10				
7160	MOD 6E4A 1100 GPM @ 20' HEAD 79 HP G	12,901	9.83		0.61	1.32	5.61		15				
7165	MOD 6E4A 1100 GPM @ 20' HEAD 60 HP D	14,500	5.45		0.69	1.49	1.97		24				
7170	MOD 8FA3 2320 GPM @ 20' HEAD 70 HP D	22,457	7.41		1.07	2.31	2.30		23				
7175	MOD 10FA61 2775 GPM @ 20' HEAD 68 HP D	23,896	7.59		1.13	2.46	2.23		30				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
PUMPS, WATER, CENTRIFUGAL, TRASH *****														
HOMELITE - SKID MOUNTED														
7190	MOD 121TP 2" - 11500 GPH @ 20' H 5 HP G	995	0.65			0.05	0.10	0.35		1				
7195	MOD 120 3" - 23000 GPH @ 20' H 8 HP G	1,359	1.01			0.07	0.14	0.57		2				
7200	MOD 160TP 4" - 36500 GPH @ 20' H 16 HP G	2,787	2.03			0.13	0.29	1.14		4				
PUMPS, WATER, DIAPHRAGM *****														
HOMELITE - SKID MOUNTED														
7215	MOD 111DP 2" - 1900 GPH @ 10' HD 3 HP G	1,246	0.52			0.06	0.13	0.21		1				
7220	MOD 111DP 3" - 4800 GPH @ 10' HD 3 HP G	1,388	0.54			0.07	0.14	0.21		2				
PUMPS, WATER, SUBMERSIBLE *****														
GORMAN-RUPP														
7235	MOD S2A1 2" - 138 GPM @ 20' HD 2 HP E	1,687	0.47			0.08	0.17	0.16		2				
7240	MOD S3A1 3" - 278GPM @ 20' HD 5 HP E	2,410	0.93			0.12	0.25	0.40		3				
7245	MOD S4A1 4" - 860 GPM @ 40' HD 25 HP E	8,554	4.18			0.41	0.88	2.02		12				
7250	MOD S6A1 6" - 1950 GPM @ 40' HD 60 HP E	11,154	8.67			0.53	1.14	4.86		14				
MARLOW														
7260	MOD 2S11 2" - 84 GPM @ 20' HD 1 HP E	1,301	0.32			0.07	0.14	0.08		1				
7265	MOD 3S22 3" - 190 GPM @ 20' HD 2 HP E	1,851	0.50			0.09	0.19	0.16		1				
7270	MOD 4S83 4" - 550 GPM @ 25' HD 8 HP E	2,528	1.31			0.12	0.26	0.65		1				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP		
RIPPER & HYDRAULIC BANK SLOPER **** (DOES NOT INCLUDE COST OF POINT WEAR)											
	ATECO										
7285	V-RAR-1	SINGLE SHANK EXTREME SVC	39,178	9.30	12.72	2.08	5.00	0.00	6.34	0.00	141
7290	V-RAR-1	SHANKS EA W/GUARD	3,066	0.72	0.99	0.17	0.39	0.00	0.50	0.00	15
7295	LPAF-D8K	PARALLEL LIFT	24,822	5.89	8.07	1.32	3.16	0.00	4.02	0.00	101
7300	D-8K	SHANKS EA	1,948	0.46	0.63	0.11	0.25	0.00	0.32	0.00	11
7305	LPAF-D7G	PARALLEL LIFT	18,559	4.42	6.04	0.99	2.37	0.00	3.01	0.00	57
7310	D-7G	SHANKS EA	853	0.19	0.28	0.04	0.10	0.00	0.14	0.00	5
7315	V-LPRF-TD25E	PARALLEL LIFT STD SVC	21,321	5.09	6.94	1.14	2.73	0.00	3.45	0.00	97
7320	TD-25C	SHANKS EA	1,926	0.44	0.62	0.10	0.24	0.00	0.31	0.00	8
7325	V-LPRF-TD20E	PARALLEL LIFT STD SVC	15,428	3.69	5.02	0.82	1.97	0.00	2.49	0.00	51
7330	TD-20E	SHANKS EA	1,232	0.28	0.40	0.06	0.15	0.00	0.20	0.00	4
7335	PS-TD15C	RADIAL LIFT	9,028	2.20	2.98	0.49	1.16	0.00	1.46	0.00	22
7340	TD-15C	SHANKS EA	490	0.11	0.15	0.02	0.06	0.00	0.07	0.00	1
7345	V-LPRF 82-50	PARALLEL LIFT STD SVC	23,792	5.64	7.71	1.27	3.04	0.00	3.85	0.00	105
7350	82-50	SHANKS EA	1,926	0.44	0.62	0.10	0.24	0.00	0.31	0.00	8
7355	V-LPRF-82-30B	PARALLEL LIFT	21,149	5.02	6.86	1.13	2.70	0.00	3.42	0.00	89
7360	82-30	SHANKS EA	2,607	0.61	0.84	0.14	0.33	0.00	0.43	0.00	8
7365	HBS-HYDR	BANK SLOPER 260-475 HP	9,322	1.87	2.38	0.45	1.00	0.00	1.19	0.00	28
CATERPILLAR											
7375	D-10	MULTI-SHANK BEAM	52,177	12.41	16.96	2.78	6.66	0.00	8.44	0.00	218
7380	D-10	SHANKS EA	3,803	0.89	1.21	0.21	0.49	0.00	0.61	0.00	15
7385	D-10	SINGLE-SHANK BEAM	55,544	13.19	18.02	2.96	7.09	0.00	8.98	0.00	209
7390	D-9L	MULTI-SHANK BEAM W/HYD-CONTROL	44,228	10.50	14.34	2.36	5.65	0.00	7.15	0.00	162
7395	D-9L	SHANKS EA	3,419	0.80	1.09	0.19	0.44	0.00	0.55	0.00	14
7400	D-9L	SINGLE-SHANK BEAM HYD-CNTL&SHANK	41,167	9.78	13.37	2.19	5.26	0.00	6.66	0.00	156
7405	D-8L	MULTI-SHANK BEAM HYD-CONTROL	29,835	7.07	9.67	1.59	3.81	0.00	4.83	0.00	98
7410	D-8L	SHANKS EA	1,922	0.44	0.62	0.10	0.24	0.00	0.31	0.00	7

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
RIPPER & HYDR BANK SLOPER (CONT'D) *****														
(DOES NOT INCLUDE COST OF POINT WEAR)														
CATERPILLAR (CONT'D)														
7415	D-8L SINGLE-SHANK BEAM HYD-CNTL&SHANK	29,009	6.88	9.40	1.54	3.70	0.00	4.69	0.00	101				
7420	D-7G MULTI-SHANK BEAM HYD-CONTROL	16,672	3.98	5.43	0.89	2.13	0.00	2.70	0.00	57				
7425	D-7G SHANKS EA	994	0.24	0.32	0.06	0.13	0.00	0.16	0.00	3				
7430	D-6D MULTI-SHANK BEAM HYD-CONTROL	10,427	2.53	3.43	0.56	1.34	0.00	1.69	0.00	34				
7435	D-6D SHANKS EA	505	0.11	0.16	0.02	0.06	0.00	0.08	0.00	1				
7440	D-4E MULTI-SHANK BEAM HYD-CONTROL	6,198	1.54	2.07	0.34	0.80	0.00	1.00	0.00	22				
7445	D-4E SHANKS EA	262	0.07	0.08	0.02	0.04	0.00	0.04	0.00	1				
7450	D-3B FIVE-SHANK BEAM HYD-CONTROL	2,751	0.72	0.96	0.15	0.35	0.00	0.44	0.00	7				
7455	D-3B SHANKS EA	145	0.03	0.04	0.00	0.01	0.00	0.02	0.00	1				
FIAT-ALLIS														
7465	FD-50 W/HYD-CNTL AND 1 SHANK	56,003	13.37	18.25	2.98	7.15	0.00	9.06	0.00	280				
7470	FD-40 W/HYD-CNTL AND 2 SHANKS	44,141	10.51	14.36	2.35	5.63	0.00	7.14	0.00	200				
7475	FD-30 W/HYD-CNTL AND 2 SHANKS	33,356	7.90	10.79	1.78	4.26	0.00	5.39	0.00	108				
7480	RP20B W/HYD-CNTL AND 3 SHANKS	20,752	4.94	6.75	1.11	2.65	0.00	3.36	0.00	88				
ROLLER, RUBBER TIRED, SELF-PROPELLED														

FERGUSON														
7495	MOD SP-912	12 TON	85 HP D	41,475	10.58		1.96	4.36	2.00	99				
7500	MOD SP-915	15 TON	85 HP D	45,800	11.42		2.17	4.82	2.00	135				
7505	MOD SP-1118	18 TON	85 HP D	53,182	12.86		2.51	5.59	2.00	124				
7510	MOD SP-1130	30 TON	125 HP D	85,154	20.41		3.99	8.83	2.94	242				
INGRAM														
7520	9-2800-P	12 TON	76 HP D	36,279	9.31		1.71	3.80	1.79	73				
7525	9-2800-PA	12 TON	76 HP D	39,012	9.85		1.84	4.10	1.79	86				
7530	9-3400-P	15 TON	78 HP D	39,916	10.08		1.88	4.19	1.84	97				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ROLLER, R/T, SELF-PROPELLED (CONT'D) *****														
INGRAM (CONT'D)														
7535	11-2700	15 TON	107 HP G	38,475	14.36		1.81	4.02	5.51	89				
7540	11-2700	15 TON	76 HP D	42,848	10.60		2.02	4.49	1.79	91				
7545	13-2300	15 TON	107 HP G	40,225	14.72		1.89	4.19	5.51	86				
7550	13-2300	15 TON	76 HP D	44,614	10.96		2.10	4.66	1.79	90				
7555	9-6000	27 TON	117 HP D	97,616	22.67		4.56	10.07	2.76	205				
TAMPO														
7565	SP-312	12 TON	68 HP D	39,573	9.71		1.86	4.15	1.60	66				
7570	SP-518	15 TON	68 HP D	49,045	11.57		2.32	5.16	1.60	95				
7575	SP-950	27 TON	130 HP D	101,167	23.71		4.74	10.48	3.06	198				
7580	SP-1070 M	35 TON	130 HP D	121,744	28.25		5.59	12.20	3.06	258				
ROLLER, RUBBER TIRED, TOWED *****														
FERGUSON														
7595	RT-100S	50 TON		67,078	12.93		2.86	5.84	0.00	200				
7600	RT-120S	60 TON		79,113	15.88		3.58	7.71	0.00	218				
SOUTHWEST														
7610	C 50	50 TON		82,430	16.08		3.61	7.55	0.00	344				
7615	C 75	75 TON		89,354	17.37		3.82	7.82	0.00	408				
7620	C 100XL	100 TON		122,264	23.97		5.39	11.34	0.00	601				
TAMPO														
7630	R-13	14 TON		10,039	2.04		0.45	0.97	0.00	35				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT					
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.								
					OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
ROLLER, SHEEPSFOOT, DOUBLE DRUM, TOWED *****														
FERGUSON														
7645	MOD 112	40"X48" 3-7 TON	14,184	2.90	0.68	1.52	0.00		65					
7650	MOD 112W	40"X48" 4.5-8 TON	18,031	3.63	0.86	1.92	0.00		91					
7655	MOD 112W-48	48"X48" 5-10 TON	18,575	3.75	0.89	1.99	0.00		105					
7660	MOD 120	60"X60" 8-18 TON	27,814	5.54	1.33	2.98	0.00		157					
7665	MOD 120 MOD	60"X60" 8-18 TON	42,557	8.39	2.03	4.55	0.00		230					
7670	MOD 120-RE	60"X60" 16-20 TON	64,479	12.63	3.07	6.89	0.00		327					
7675	MOD 22	60"X72" 16-20 TON	42,069	8.30	2.00	4.49	0.00		215					
7680	MOD 22 MOD	60"X72" 16-20 TON	48,916	9.61	2.33	5.22	0.00		269					
7685	MOD 144-RE	60"X72" 19-24 TON	75,897	14.84	3.62	8.11	0.00		385					
TAMPO														
7695	H-1 TF	40"X48" 2.6TON	6,270	1.37	0.30	0.67	0.00		32					
7700	H-2 TF	40"X48" 5 TON	12,681	2.61	0.60	1.35	0.00		63					
ROLLER, SHEEPSFOOT, DD, SELF-PROPELLED *****														
CATERPILLAR														
7715	815B	40.5" X 38"	210 HP D	161,948	37.48	7.71	17.30	4.95	420					
7720	816B LANDFILL	63" X 40" W/BLADE	170 HP D	162,617	36.44	7.74	17.37	4.01	451					
7725	825C	51" X 44"	654 HP D	244,237	66.38	11.63	26.09	15.41	633					
7730	825C	W/S BLADE	706 HP D	258,257	70.60	12.30	27.59	16.63	684					
7735	826C LANDFILL	60" X 48" W/BLADE	310 HP D	255,464	58.49	12.16	27.29	7.30	680					
HYSTER														
7745	C455-B TANDEM	80"X80" ARTIC	330 HP D	268,422	61.59	12.78	28.67	7.77	573					

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ROLLER, SMOOTH WHEEL, SELF-PROPELLED *****														
FERGUSON														
7760	3-5 TON	TANDEM	52 HP D	27,889	6.92		1.33	2.98	1.23	77				
7765	4-6 TON	TANDEM	52 HP D	33,273	7.97		1.59	3.56	1.23	96				
7770	5-8 TON	TANDEM	85 HP D	50,834	12.32		2.42	5.43	2.00	136				
7775	8-10 TON	TANDEM	85 HP D	53,116	12.76		2.53	5.67	2.00	174				
7780	8-12 TON	TANDEM	85 HP D	55,492	13.22		2.65	5.93	2.00	176				
7785	10-14 TON	TANDEM	85 HP D	57,812	13.66		2.75	6.17	2.00	219				
INGRAM														
7795	12 TON EB 3 WHEEL 3" OVERLAP	107 HP G	55,560	17.59		2.65	5.94	5.51		194				
7800	12 TON EB 3 WHEEL 3" OVERLAP	85 HP D	59,625	14.02		2.84	6.37	2.00		196				
7805	14 TON EB 3 WHEEL 3" OVERLAP	107 HP G	58,925	18.23		2.80	6.29	5.51		221				
7810	14 TON EB 3 WHEEL 3" OVERLAP	85 HP D	62,990	14.67		3.00	6.73	2.00		223				
7815	4-6 TON FB 2 WHEEL	TANDEM	54 HP G	27,288	8.73		1.30	2.91	2.78	82				
7820	6-9 TON GB 2 WHEEL	TANDEM	107 HP G	37,010	13.99		1.76	3.95	5.51	133				
7825	6-9 TON GB 2 WHEEL	TANDEM	85 HP D	41,076	10.42		1.95	4.38	2.00	135				
7830	8-12 TON HB 2 WHEEL	TANDEM	107 HP G	44,887	15.51		2.14	4.79	5.51	171				
7835	8-12 TON HB 2 WHEEL	TANDEM	85 HP D	48,953	11.95		2.33	5.23	2.00	173				
7840	10-14 TON HB 2 WHEEL	TANDEM	107 HP G	48,413	16.20		2.31	5.17	5.51	203				
7845	10-14 TON HB 2 WHEEL	TANDEM	85 HP D	52,478	12.63		2.50	5.60	2.00	205				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ROLLER, VIBRATORY, SINGLE DRUM, TOWED														
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS														
DYNAPAC														
7860	CK-11 40HZ 30"X55"	5 TON 18 HP G	13,706	5.29		0.73	1.74	1.28		31				
7865	CF-11 40HZ TF 30"X55"	5 TON 18 HP G	16,784	6.10		0.90	2.14	1.28		32				
7870	CH-47 27HZ 47"X74"	13 TON 43 HP D	35,456	11.17		1.89	4.51	1.41		130				
7875	CF-47 27HZ TF 47"X74"	13 TON 43 HP D	38,862	12.08		2.07	4.95	1.41		135				
7880	CK-51 25HZ 59"X83"	24 TON 95 HP D	54,276	18.38		2.89	6.91	3.12		221				
7885	CF-51 25HZ TF 59"X83"	24 TON 95 HP D	57,245	19.16		3.04	7.28	3.12		226				
FERGUSON														
7895	65 25HZ TF 60"X72"	11 TON 49 HP D	38,197	12.17		2.03	4.86	1.61		110				
7900	65T 30HZ TF 44"X72"	11 TON 49 HP D	41,526	13.04		2.21	5.28	1.61		127				
7905	230 25HZ 66"X78"	20 TON 77 HP D	66,803	20.88		3.55	8.49	2.53		237				
7910	230T 25HZ TF 66"X78"	21 TON 77 HP D	72,730	22.44		3.87	9.25	2.53		268				
HYSSTER														
7920	C200B 30HZ 48"X60"	9 TON 36 HP G	25,168	9.99		1.34	3.20	2.56		72				
7925	C210A 30HZ TF 58"X60"	9 TON 36 HP G	30,844	11.48		1.64	3.92	2.56		92				
RAYGO														
7935	SF-54A TF 38HZ 30"X54"	7.5TON 30 HP D	19,773	6.50		1.05	2.51	0.99		48				
7940	SM-54A 38HZ 30"X54"	7.5TON 30 HP D	17,934	6.02		0.95	2.28	0.99		48				
SOUTHWEST														
7950	756 25HZ TF 66"X78" 23.5TON	75 HP D	91,806	27.36		4.88	11.67	2.46		240				
7955	566 33HZ TF 56"X72" 25.5TON	50 HP D	62,021	18.46		3.30	7.89	1.64		165				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				OWT										
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.													
ROLLER, VIB, SINGLE DRUM, SELF-PROPELLED *****																			
TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS																			
DYNAPAC																			
7970	CA-15 29HZ	48"X66"	11 TON	73 HP D	62,406	19.60	3.30	7.85	2.40	132									
7975	CA-15A 42HZ	48"X66"	12 TON	85 HP D	72,043	22.75	3.76	8.87	2.79	144									
7980	CA-15PD 29HZ	TF 53"X66"	13 TON	85 HP D	82,398	25.37	4.36	10.40	2.79	157									
7985	CA-25A 40HZ	60"X84"	18 TON	125 HP D	92,315	29.79	4.85	11.50	4.11	200									
7990	CA-25 28HZ	60"X84"	18 TON	125 HP D	86,059	28.13	4.52	10.73	4.11	200									
7995	CA-25S 28HZ	61"X84"	22 TON	125 HP D	92,585	29.85	4.87	11.57	4.11	225									
8000	CA-25PD 28HZ	68"X84"	22 TON	125 HP D	106,825	33.58	5.62	13.37	4.11	248									
8005	CA-30 28HZ	61"X84"	22 TON	125 HP D	95,391	30.58	5.02	11.92	4.11	242									
8010	CA-30D 28HZ	61"X84"	22 TON	125 HP D	103,299	32.66	5.44	12.92	4.11	252									
FERGUSON																			
8020	SP 266A 42HZ	48"X66"	15 TON	125 HP D	89,746	29.00	4.78	11.42	4.11	225									
8025	SP 75 30HZ	60"X84"	22.5 TON	85 HP D	74,017	23.23	3.88	9.20	2.79	191									
8030	SP 75D 30HZ	60"X84"	22.5 TON	120 HP D	78,569	25.95	4.13	9.78	3.94	193									
8035	SP 75DT 30HZ	TF 60"X84"	22.5 TON	120 HP D	89,289	28.76	4.69	11.14	3.94	236									
INGERSOLL RAND																			
8045	SPP-56 30HZ	TF 56"X84"	21 TON	115 HP D	95,157	30.09	5.01	11.89	3.78	222									
8050	SP-60DD 25HZ	60"X100"	30 TON	203 HP D	141,199	46.11	7.40	17.52	6.67	377									
RAYCO																			
8060	RASCAL 220A 30HZ	TF38"X48"	6 TON	70 HP D	57,947	18.27	3.07	7.32	2.30	97									
8065	RASCAL 303A 38HZ	48"X66"	8 TON	70 HP D	57,807	18.28	3.06	7.27	2.30	137									
8070	RASCAL 320A 25HZ	TF48"X60"	8 TON	80 HP D	77,087	23.75	4.08	9.74	2.63	151									
8075	RASCAL 320S 25HZ	48"X60"	8 TON	80 HP D	66,663	21.03	3.52	8.39	2.63	144									
8080	RUSTLER 304A 28HZ	48"X66"	8 TON	70 HP D	65,333	20.35	3.40	8.02	2.30	130									
8085	RUSTLER 404B 28HZ	59"X84"	13.5TON	88 HP D	87,244	26.82	4.59	10.90	2.89	175									

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ROLLER, VIBRATORY, SD, S/P (CONT'D)														

TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS														
RAYGO (CONT'D)														
8090	RASCAL 420C 25HZ	TF60"X84" 16 TON 119 HP D	100,892	31.76		5.31	12.63	3.91		225				
8095	RASCAL 4000 25HZ	60"X84" 20 TON 125 HP D	80,673	26.72		4.24	10.05	4.11		224				
8100	RASCAL 510A 25HZ	60"X80"22.5TON 119 HP D	118,871	36.50		6.25	14.87	3.91		358				
8105	RASCAL 600A 25HZ	60"X100"22.5TON 119 HP D	103,367	32.43		5.43	12.90	3.91		316				
8110	RASCAL 450A 28HZ	59"X84"28.5TON 125 HP D	88,274	28.78		4.61	10.91	4.11		263				
TAMPO														
8120	RS-16A 26HZ	48"X24" 7.5TON 68 HP D	67,185	20.74		3.50	8.25	2.23		124				
8125	RS-16 26HZ	48"X24" 8 TON 68 HP D	59,264	18.56		3.13	7.46	2.23		115				
8130	RS-16D 26HZ	48"X24" 8 TON 80 HP D	69,470	21.77		3.68	8.76	2.63		123				
8135	RH-16A 26HZ	48"X24" 9 TON 75 HP D	76,248	23.43		3.98	9.41	2.46		153				
8140	RP-16D 26HZ TF	48"X24" 9 TON 80 HP D	75,828	23.43		4.01	9.56	2.63		127				
8145	RP-28D 25HZ TF	63"X84" 15 TON 110 HP D	99,657	31.05		5.25	12.46	3.61		212				
8150	RS-28C 25HZ	60"X84" 15 TON 107 HP D	82,839	26.51		4.35	10.32	3.52		202				
8155	RS-28D 25HZ	60"X84" 15 TON 107 HP D	89,571	28.29		4.71	11.18	3.52		208				
8160	RH-28D 28HZ	60"X84"22.5TON 110 HP D	114,128	34.85		6.01	14.30	3.61		259				
ROLLER, VIB, DOUBLE DRUM, SELF-PROPELLED														

TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS														
DYNAPAC														
8175	LR-50 60HZ	TANDEM 2 TON 16 HP D	11,750	3.78		0.62	1.49	0.53		25				
8180	CC-10 50HZ	TANDEM 2 TON 34 HP D	31,065	9.64		1.65	3.95	1.12		50				
8185	CC-21 50HZ	TANDEM 4 TON 71 HP D	73,253	22.32		3.90	9.32	2.33		137				
8190	CC-42II 42HZ	TANDEM 12 TON 125 HP D	98,361	31.26		5.23	12.51	4.11		200				
8195	CC-50A 40HZ	TANDEM 18 TON 155 HP D	119,093	38.00		6.33	15.14	5.09		310				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL				
ROLLER, VIBRATORY, DD, S/P (CONT'D) *****												
TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS												
DYNAPAC (CONT'D)												
8200	CC-50S	28HZ	TANDEM	22 TON 181 HP D	143,896	45.65	7.65	18.30	5.95	342		
8205	CC-50PD	28HZ	TF TANDEM	22 TON 181 HP D	166,891	51.68	8.87	21.22	5.95	419		
RAYGO												
8215	REBEL 1-36	40HZ	TANDEM	2 TON 16 HP D	11,260	3.66	0.60	1.43	0.53	23		
8220	ROMPER 2-36	40HZ	TANDEM	4 TON 35 HP D	25,891	8.33	1.38	3.30	1.15	40		
8225	RUSTLER 5604A	50HZ	TANDEM	5.5TON 70 HP D	67,286	20.72	3.58	8.56	2.30	132		
8230	RUSTLER 7204A	38HZ	TANDEM	8 TON 115 HP D	89,619	28.52	4.76	11.39	3.78	250		
8235	RANGER 2-66	38HZ	TANDEM	8 TON 119 HP D	119,551	36.56	6.35	15.20	3.91	215		
TAMPO												
8245	RS-03	60HZ	36"X24"	2 TON 14 HP G	11,600	4.35	0.62	1.47	0.99	23		
8250	RS-144A	50HZ	42"X48"	8 TON 52 HP D	60,068	18.04	3.19	7.64	1.71	100		
8255	RS-166A	36HZ	48"X66"	16 TON 80 HP D	89,461	26.97	4.76	11.38	2.63	200		
8260	RS-188A	36HZ	60"X84"	30 TON 156 HP D	113,610	36.60	6.03	14.44	5.13	320		
8265	RH-199	25HZ	60"X96"	45 TON 262 HP D	202,235	64.48	10.75	25.72	8.61	491		
ROOFING EQUIPMENT *****												
AEROIL												
8280	EZ LOAD 240 GAL. KETTLE				5,922	2.33	0.38	0.99	0.00	17		
8285	EZ LOAD 400 GAL. KETTLE				7,416	2.79	0.47	1.23	0.00	23		
8290	EZ LOAD 600 GAL. KETTLE				9,740	3.75	0.61	1.60	0.00	38		
8295	JOB TANK 2000 GAL. TRLR MTD.				27,030	9.70	1.63	4.21	0.00	81		
8300	MOD 52 HYDRAULIC CONVEYOR 52'H			23 HP G	19,094	7.29	1.22	3.22	1.09	39		
8305	MOD 62 HYDRAULIC CONVEYOR 62'H			23 HP G	21,284	7.95	1.35	3.58	1.09	55		
8310	MOD 68 HYDRAULIC CONVEYOR 68'H			23 HP G	24,159	8.84	1.53	4.06	1.09	58		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ROOFING EQUIPMENT (CONT'D)														
AEROIL (CONT'D)														
8315	MOD S RHINO ROOF PEELER 16" WIDE 10 HP G	3,433	1.66		0.22	0.58	0.48			4				
8320	MARK I ROOF CUTTER SINGLE BLADE 7 HP G	1,101	0.76		0.07	0.19	0.33			2				
8325	MARKII ROOF CUTTER DOUBLE BLADE 10 HP G	1,725	1.12		0.11	0.29	0.48			3				
GARLOCK														
8335	MOD 115 KETTLE 115 GAL.	1,763	1.03		0.11	0.28	0.00			9				
8340	MOD 175 KETTLE 175 GAL. W/PUMP	3,481	1.56		0.22	0.57	0.00			12				
8345	MOD 380 KETTLE 380 GAL. W/PUMP	5,252	2.37		0.33	0.87	0.00			24				
8350	MOD 580 KETTLE 580 GAL. W/PUMP	6,586	2.78		0.42	1.09	0.00			32				
8355	MOD 62 HYDRAULIC CONVEYOR 62'H	20,852	7.97		1.34	3.54	1.19			60				
8360	MOD 72 HYDRAULIC CONVEYOR 72'H	26,563	9.74		1.70	4.50	1.19			70				
8365	MOD 1400 HYDR. SWING HOIST	7,480	3.39		0.47	1.26	0.86			7				
8370	MOD 82 POWER SWEeper	1,489	0.70		0.09	0.25	0.19			2				
8375	ROTARY PLANER	8 HP G	1,218	0.84		0.07	0.20	0.38		2				
8380	MOD 21 ROOF CUTTER 21"	10 HP G	1,507	1.05		0.09	0.25	0.48		3				
8385	MOD 30 ROOF CUTTER 30"	10 HP G	1,548	1.07		0.10	0.26	0.48		3				
SCRAPERS, SELF-PROPELLED														
(CAPACITY AS RECOMMENDED BY MGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH FULL ATTACHMENT)														
CATERPILLAR														
8400	613-C 13 T 11 CY P.S.	175 HP D	145,054	34.93	45.32	6.73	14.83	4.23	17.62	5.53				
8405	615 19 T 14-16 CY P.S.	250 HP D	213,159	50.57	66.42	9.86	22.26	6.04	26.52	7.90				
8410	621-B 24 T 14-20 CY P.S.	330 HP D	269,670	61.51	80.66	12.52	28.34	7.16	33.78	9.41				
8415	623-B 25 T 22 CY P.S.	330 HP D	299,811	69.37	90.50	13.97	31.70	7.98	37.79	10.43				
8420	627-B 24 T 14-20 CY P.S. 225/225 HP D/D	308,895	75.96	100.55	14.40	32.70	10.32	39.00	13.39	733				
8425	627-B PP 24 T 14-20 CY P.S. 225/225 HP D/D	328,071	79.42	104.89	15.32	34.83	10.32	41.56	13.39	776				
8430	631-D 37.5T 21-31 CY P.S.	450 HP D	413,201	92.43	121.09	19.20	43.49	9.76	51.85	12.83				
										934				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
SCRAPERS, SELF-PROPELLED (CONT'D) ***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)															
CATERPILLAR (CONT'D)															
8435	633-D	37.5T 34 CY P.S. 450 HP D	470,638	106.34	138.50	21.96	49.89	10.88	59.50	14.23	1042				
8440	637-D	37.5T 21-31 CY P.S. 450/250 HP D/D	507,231	122.52	161.53	23.72	53.97	16.06	64.38	20.83	1053				
8445	637-D PP	37.5T 21-31 CY P.S. 450/250 HP D/D	529,280	126.49	166.51	24.77	56.42	16.06	67.31	20.83	1077				
8450	639-D	37.5T 24-34 CY P.S. 450/250 HP D/D	585,445	139.21	184.17	27.31	62.06	16.06	74.03	20.83	1223				
8455	651-E	52 T 32-44 CY P.S. 550 HP D	542,697	120.53	158.08	25.19	57.01	11.93	67.96	15.69	1314				
8460	657-E	52 T 32-44 CY P.S. 550/400 HP D/D	661,425	161.38	213.11	30.89	70.23	21.79	83.78	28.27	1516				
8465	657-E PP	52 T 32-44 CY P.S. 550/400 HP D/D	702,261	168.76	222.34	32.85	74.78	21.79	89.21	28.27	1589				
FIAT-ALLIS															
8475	161	18.7 T 15 CY P.S. 229 HP D	186,290	43.99	57.45	8.67	19.66	5.54	23.44	7.24	466				
8480	260B	25.0 T 15-21 CY P.S. 325 HP D	245,796	56.83	74.59	11.40	25.79	7.05	30.75	9.27	585				
8485	261B	26.5 T 23 CY P.S. 325 HP D	276,575	64.39	83.88	12.90	29.32	7.86	34.98	10.28	635				
8490	262B	25.0 T 15-21 CY P.S. 325/171 HP D/D	297,362	74.29	97.87	13.90	31.64	11.38	37.74	14.76	679				
8495	263-B	26.5 T 23 CY P.S. 325/171 HP D/D	355,225	85.20	111.87	16.65	37.97	11.38	45.30	14.76	742				
INTERNATIONAL															
8505	412B	13 T 11 CY P.S. 125 HP D	134,187	30.96	40.08	6.24	13.76	3.02	16.34	3.95	335				
8510	431B	24 T 14-21 CY P.S. 326 HP D	263,165	60.24	79.09	12.21	27.61	7.07	32.91	9.30	609				
8515	433B	24 T 14-21 CY P.S. 326/185 HP D/D	309,030	77.75	102.87	14.40	32.71	11.72	39.02	15.21	700				
8520	442B	25 T 22 CY P.S. 326 HP D	294,159	68.21	89.07	13.69	31.06	7.88	37.04	10.31	680				
JOHN DEERE															
8530	JD762A	13.7 T 11 CY P.S. 175 HP D	134,021	32.62	42.26	6.23	13.74	4.23	16.33	5.53	355				
8535	JD862	20.0 T 16 CY P.S. 250 HP D	182,744	44.00	57.51	8.50	19.26	6.04	22.96	7.90	492				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND BY	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL										
			AVERAGE	SEVERE															
SCRAPERS, SELF-PROPELLED (CONT'D)																			
***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)																			
M-R-S																			
8545	I- 92/90ES 17T 14 CY P.S. 240 HP D	204,275	48.47	63.66	9.45	21.34	5.80	25.44	7.59	484									
8550	I-100/S100 25T 15-22 CY P.S. 310 HP D	326,194	75.34	100.87	14.90	33.31	6.73	39.66	8.84	872									
8555	I-100/100ES 25T 22 CY P.S. 310 HP D	342,217	80.82	107.74	15.67	35.09	7.50	41.80	9.80	930									
8560	I-105/S105 37T 21-30 CY P.S. 422 HP D	401,086	91.99	122.08	18.44	41.43	9.16	49.34	12.04	924									
8565	I-105/105ES 31T 27 CY P.S. 422 HP D	413,052	97.49	128.96	19.02	42.76	10.20	50.94	13.34	990									
8570	I-110/S105 37T 21-30 CY P.S. 482 HP D	475,533	110.03	146.93	21.83	48.96	10.46	58.30	13.75	954									
8575	I-110/105ES 31T 27 CY P.S. 482 HP D	487,498	116.07	154.50	22.40	50.29	11.65	59.90	15.24	1020									
8580	I-110/110ES 40T 32 CY P.S. 482 HP D	510,868	120.42	160.03	23.50	52.80	11.65	62.90	15.24	1092									
8585	I-110/S110 42T 25-34 CY P.S. 482 HP D	491,864	113.02	150.76	22.59	50.68	10.46	60.36	13.75	1061									
8590	I-115/S105 37T 21-30 CY P.S. 550 HP D	512,158	119.97	160.58	23.49	52.66	11.93	62.72	15.69	994									
8595	I-115/S110 42T 25-34 CY P.S. 550 HP D	528,489	122.98	164.40	24.25	54.39	11.93	64.77	15.69	1101									
8600	I-115/S120 48T 30-39 CY P.S. 550 HP D	578,811	131.79	175.44	26.66	59.99	11.93	71.47	15.69	1236									
8605	I-115/110ES 40T 32 CY P.S. 550 HP D	547,493	130.78	174.15	25.16	56.50	13.30	67.30	17.39	1132									
8610	I-120/S110 42T 25-34 CY P.S. 615 HP D	558,935	130.18	173.52	25.71	57.78	13.35	68.83	17.54	1121									
8615	I-120/S120 48T 30-39 CY P.S. 615 HP D	609,257	139.97	186.31	27.95	62.67	13.35	74.63	17.54	1256									
TEREX (GM)																			
8625	S-24C 40.8T 24-34 CY P.S. 480 HP D	428,542	97.07	127.64	19.84	44.81	10.42	53.41	13.69	1012									
8630	TS-14B 23.5T 14-20 CY P.S. 144/144 HP D/D	276,486	64.52	85.39	12.90	29.31	6.61	34.96	8.57	544									
8635	TS-24 40 T 24-32 CY P.S. 394/225 HP D/D	454,442	110.32	145.97	21.20	48.15	14.20	57.43	18.42	960									
8640	TS-24C 40.8T 24-34 CY P.S. 480/260 HP D/D	558,043	134.46	177.64	26.05	59.23	16.98	70.65	22.02	1119									

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND-BY	AVERAGE OWNER-SHIP	SEVERE OWNER-SHIP	COND.	SEVERE COND.										
			AVERAGE	SEVERE															
SCRAPER, TRACTOR DRAWN *****																			
M-R-S																			
8655	PS-80 11T 9 CY HYDR./CONTROL	61,716	11.49	13.76	2.58	5.24	0.00	5.98	0.00	245									
8660	PS-90 17T 14 CY HYDR./CONTROL	84,482	15.74	18.91	3.50	7.06	0.00	8.05	0.00	320									
8665	PS-100 22T 18 CY HYDR./CONTROL	98,798	18.45	22.14	4.10	8.27	0.00	9.42	0.00	370									
ROME																			
8675	R67H 18T 12-17CY HYDR/CONTROL	77,454	14.40	17.14	3.27	6.73	0.00	7.68	0.00	235									
8680	R89H 27T 18-26CY HYDR/CONTROL	102,815	19.00	22.79	4.29	8.69	0.00	9.90	0.00	365									
SOUTHWEST-HUME																			
8690	SOUTHWEST DS18 DRAG SCRAPER 8.8 CY	37,129	6.78	8.12	1.55	3.15	0.00	3.58	0.00	137									
SOIL STABILIZER *****																			
BOMAG																			
8705	MOD MPH-50 12"DEEP BY 82"WIDE 152 HP D	98,111	23.66	30.94	4.63	10.34	3.68	12.31	4.81	208									
8710	MOD MPH-100 14.5"DEEP X 79"WIDE 304 HP D	159,361	40.73	53.56	7.49	16.66	7.35	19.81	9.61	300									
BROS																			
8720	MOD LSPRM-8A MASTER MIXER 19" DP 335 HP D	153,052	39.26	50.93	7.26	16.27	8.10	19.38	10.59	300									
TRACTOR, CRAWLER (DOZER) *****																			
(ADD ATTACHMENTS TO TRACTOR)																			
CASE																			
8735	450C P.S. POWER ANGLE/TILT DOZER 63 HP D	43,969	11.84	15.23	2.08	4.53	1.60	5.37	2.11	118									
8740	850C P.S. HYDR. ANGLE/TILT DOZER 78 HP D	63,283	16.59	21.34	3.00	6.52	1.98	7.73	2.61	171									
8745	1150D P.S. HYDR. ANGLE/TILT DOZER 110 HP D	90,855	23.76	30.55	4.30	9.36	2.80	11.09	3.68	239									
8750	1450B P.S. POWER ANGLE/TILT DOZER 140 HP D	127,175	32.77	42.13	6.01	13.10	3.56	15.53	4.69	330									

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRACTOR, CRAWLER (DOZER) (CONT'D) ***** (ADD ATTACHMENTS TO TRACTOR)														
CATERPILLAR														
8760	D-3B TRACTOR P.S.	65 HP D	38,453	10.68	13.77	1.82	3.96	1.65	4.70	2.18	136			
8765	D-3B LGP (LOW GROUND PRESSURE)	65 HP D	43,774	11.85	15.26	2.07	4.51	1.65	5.34	2.18	153			
8770	3P -POWER ANGLE & POWER TILT		8,106	1.64	2.08	0.39	0.87	0.00	1.03	0.00	24			
8775	53 -WINCH (W/O CABLE)		5,865	1.21	1.53	0.28	0.63	0.00	0.75	0.00	9			
8780	D-4E TRACTOR P.S.	80 HP D	58,289	15.56	20.03	2.75	6.00	2.03	7.12	2.68	205			
8785	D-4E LGP (LOW GROUND PRESSURE)	80 HP D	65,909	17.24	22.17	3.12	6.79	2.03	8.05	2.68	237			
8790	4A -STRAIGHT BLADE HYDRAULIC		8,422	1.69	2.16	0.40	0.90	0.00	1.08	0.00	25			
8795	4S -ANGLE BLADE HYDRAULIC		10,752	2.14	2.74	0.51	1.15	0.00	1.38	0.00	28			
8800	54 -WINCH (W/O CABLE)		11,403	2.28	2.89	0.55	1.23	0.00	1.45	0.00	16			
8805	D-5B TRACTOR P.S.	105 HP D	85,138	22.32	28.72	4.02	8.76	2.67	10.39	3.52	247			
8810	D-5B LGP (LOW GROUND PRESSURE)	105 HP D	96,957	24.92	32.05	4.58	9.98	2.67	11.84	3.52	293			
8815	5A -STRAIGHT BLADE HYDRAULIC		11,604	2.30	2.94	0.55	1.24	0.00	1.48	0.00	38			
8820	5S -ANGLE BLADE HYDRAULIC		14,945	2.96	3.76	0.72	1.61	0.00	1.90	0.00	43			
8825	55 -WINCH (W/O CABLE)		15,840	3.12	3.99	0.76	1.70	0.00	2.02	0.00	22			
8830	D-6D TRACTOR P.S.	140 HP D	117,169	30.56	39.32	5.54	12.06	3.56	14.31	4.69	299			
8835	D-6D LGP (LOW GROUND PRESSURE)	140 HP D	135,504	34.59	44.48	6.41	13.95	3.56	16.55	4.69	353			
8840	6S -STRAIGHT BLADE HYDRAULIC		15,415	3.04	3.89	0.74	1.65	0.00	1.97	0.00	49			
8845	6A -ANGLE BLADE HYDRAULIC		19,174	3.76	4.81	0.91	2.05	0.00	2.44	0.00	53			
8850	56 -WINCH (W/O CABLE)		17,170	3.38	4.32	0.82	1.84	0.00	2.19	0.00	25			
8855	D-7G TRACTOR P.S.	200 HP D	171,445	44.55	57.31	8.10	17.65	5.08	20.94	6.70	382			
8860	D-7G LGP (LOW GROUND PRESSURE)	200 HP D	198,932	50.59	65.03	9.40	20.48	5.08	24.29	6.70	433			
8865	7S -STRAIGHT BLADE HYDRAULIC		22,132	4.33	5.55	1.05	2.37	0.00	2.83	0.00	77			
8870	7U -UNIVERSAL BLADE HYDRAULIC		24,235	4.73	6.07	1.15	2.59	0.00	3.10	0.00	84			
8875	7A -ANGLE BLADE HYDRAULIC		21,982	4.30	5.50	1.05	2.36	0.00	2.80	0.00	72			
8880	57 -WINCH (W/O CABLE)		19,941	3.92	5.03	0.95	2.13	0.00	2.55	0.00	30			
8885	D-8L TRACTOR P.S.	335 HP D	261,458	63.86	82.38	12.45	28.02	8.52	33.37	11.22	735			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION		STAND-	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE	BY	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL				
TRACTOR, CRAWLER (DOZER) (CONT'D)													
***** (ADD ATTACHMENTS TO TRACTOR)													
CATERPILLAR (CONT'D)													
8890	8S -STRAIGHT BLADE HYDRAULIC	33,753	6.60	8.46	1.61	3.62	0.00	4.31	0.00	123			
8895	8U -UNIVERSAL BLADE HYDRAULIC	37,204	7.27	9.32	1.77	3.98	0.00	4.75	0.00	136			
8900	8A -ANGLE BLADE HYDRAULIC	34,803	6.81	8.72	1.66	3.73	0.00	4.44	0.00	136			
8905	-PUSH PLATE USE W/BS	934	0.23	0.28	0.05	0.10	0.00	0.12	0.00	6			
8910	58 -WINCH (W/O CABLE)	25,760	5.10	6.51	1.23	2.77	0.00	3.29	0.00	44			
8915	D-9L TRACTOR P.S. 460 HP D	348,674	76.01	94.91	15.36	33.79	11.69	38.85	15.40	1004			
8920	9S -STRAIGHT BLADE HYDRAULIC	44,336	8.69	11.13	2.11	4.75	0.00	5.66	0.00	184			
8925	9U -UNIVERSAL BLADE HYDRAULIC	46,850	9.18	11.76	2.23	5.02	0.00	5.98	0.00	195			
8930	9C -CUSHION BLADE	39,060	7.66	9.81	1.87	4.19	0.00	4.99	0.00	160			
8935	-REAR CUSHION PUSH BLOCK	11,554	2.34	2.98	0.55	1.24	0.00	1.48	0.00	41			
8940	-FRONT PUSH PLATE	1,254	0.32	0.39	0.06	0.13	0.00	0.16	0.00	9			
8945	59 -WINCH (W/O CABLE)	27,895	5.57	7.09	1.34	3.00	0.00	3.56	0.00	45			
8950	D-10 TRACTOR P.S. 700 HP D	586,311	125.50	156.54	25.83	56.82	17.79	65.33	23.44	1539			
8955	10S -STRAIGHT BLADE HYDRAULIC	69,654	13.66	17.48	3.32	7.47	0.00	8.89	0.00	286			
8960	10U -UNIVERSAL BLADE HYDRAULIC	76,605	15.00	19.20	3.65	8.21	0.00	9.77	0.00	292			
8965	-FRONT PUSH PLATE	1,447	0.35	0.43	0.07	0.15	0.00	0.18	0.00	8			
8970	10C -CUSHION BLADE	49,898	9.78	12.52	2.38	5.35	0.00	6.37	0.00	198			
FIAT-ALLIS													
8980	FD5 P.S. W/HYD. ANGLE TILT BLADE 63 HP D	45,754	12.23	15.74	2.16	4.71	1.60	5.59	2.11	140			
8985	FD7 P.S. W/POW. ANGLE TILT BLADE 78 HP D	54,754	14.71	18.94	2.59	5.64	1.98	6.68	2.61	175			
8990	8-B P.S. 88 HP D	58,776	15.96	20.54	2.78	6.06	2.24	7.18	2.95	215			
8995	8-HA ANGLE BLADE HYDRAULIC	9,127	1.82	2.34	0.43	0.97	0.00	1.17	0.00	30			
9000	8-HSU SEMI-U BLADE HYDRAULIC	9,114	1.79	2.30	0.43	0.97	0.00	1.16	0.00	30			
9005	FD9 P.S. W/SEMI-U TILT BLADE 107 HP D	78,509	20.93	26.94	3.71	8.08	2.72	9.59	3.58	239			
9010	10-C P.S. 122 HP D	82,195	22.26	28.66	3.89	8.46	3.10	10.04	4.08	280			
9015	10-HA ANGLE BLADE HYDRAULIC	10,162	2.03	2.59	0.48	1.09	0.00	1.30	0.00	36			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRACTOR, CRAWLER (DOZER) (CONT'D)														
***** (ADD ATTACHMENTS TO TRACTOR)														
FIAT-ALLIS (CONT'D)														
9020	10-HSU	SEMI-U BLADE HYDRAULIC	12,430	2.44	3.11	0.60	1.34	0.00	1.58	0.00	38			
9025	14-C	P.S. 150 HP D	110,045	29.34	37.77	5.20	11.33	3.81	13.44	5.02	335			
9030	14-HA	ANGLE BLADE HYDRAULIC	15,555	3.07	3.92	0.74	1.67	0.00	1.98	0.00	51			
9035	14-HSU	SEMI-U BLADE HYDRAULIC	15,531	3.03	3.88	0.74	1.66	0.00	1.98	0.00	51			
9040	FD 20	P.S. 223 HP D	165,098	43.96	56.57	7.81	17.00	5.67	20.16	7.47	535			
9045	20-HA	ANGLE BLADE HYDRAULIC	16,569	3.27	4.17	0.79	1.78	0.00	2.11	0.00	66			
9050	20-HS	STRAIGHT BLADE HYDRAULIC	17,398	3.42	4.37	0.83	1.86	0.00	2.22	0.00	66			
9055	20-HSU	SEMI-U BLADE HYDRAULIC	23,607	4.58	5.88	1.13	2.53	0.00	3.01	0.00	79			
9060	FD 30	P.S. 300 HP D	248,313	60.08	77.45	11.83	26.62	7.63	31.70	10.04	775			
9065	30HSU	SEMI-U BLADE HYDRAULIC	32,890	6.43	8.23	1.56	3.52	0.00	4.19	0.00	127			
9070	30-HU	FULL-U BLADE HYDRAULIC	33,370	6.51	8.34	1.59	3.58	0.00	4.26	0.00	114			
9075	FD40	P.S. 455 HP D	357,683	77.45	96.67	15.75	34.66	11.57	39.86	15.23	1128			
9080	40-HSU	SEMI-U BLADE HYDRAULIC	49,757	9.77	12.50	2.37	5.33	0.00	6.35	0.00	222			
9085	40-HU	FULL-U BLADE HYDRAULIC	50,931	10.03	12.83	2.43	5.46	0.00	6.51	0.00	254			
9090	40-HC	CUSHION BLADE	31,800	6.23	7.97	1.51	3.41	0.00	4.06	0.00	120			
9095	FD 50	P.S. 525 HP D	480,680	101.34	126.32	21.17	46.57	13.35	53.56	17.58	1280			
9100	50-HSU	SEMI-U BLADE HYDRAULIC	57,298	11.26	14.41	2.73	6.14	0.00	7.32	0.00	250			
9105	50-HU	FULL-U BLADE HYDRAULIC	65,581	12.84	16.44	3.12	7.03	0.00	8.37	0.00	280			
9110	50-RC	CUSHION BLADE	36,605	7.15	9.16	1.75	3.93	0.00	4.67	0.00	140			
INTERNATIONAL/DRESSER														
9120	TD-7-E	P.S. W/HYD BLADE 65 HP D	49,737	13.16	16.95	2.35	5.12	1.65	6.08	2.18	139			
9125	TD-8-E	P.S. W/HYD BLADE 78 HP D	63,523	16.64	21.41	3.00	6.54	1.98	7.76	2.61	172			
9130	TD-12	P.S. W/HYD BLADE 110 HP D	95,138	24.70	31.76	4.50	9.80	2.80	11.62	3.68	272			
9135	TD-15-C	P.S. 140 HP D	117,258	30.59	39.35	5.55	12.08	3.56	14.32	4.69	271			
9140	15D-2	SEMI-U BLADE HYDRAULIC	12,689	2.49	3.18	0.60	1.36	0.00	1.62	0.00	46			
9145	15G-2	ANGLE BLADE HYDRAULIC	14,308	2.80	3.59	0.69	1.54	0.00	1.83	0.00	50			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				QWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	AVERAGE COND.	SEVERE COND.							
					OWNER-SHIP	FUEL	OWNER-SHIP	FUEL							
TRACTOR, CRAWLER (DOZER) (CONT'D) ***** (ADD ATTACHMENTS TO TRACTOR)															
INTERNATIONAL/DRESSER (CONT'D)															
9150	TD-20-E P.S.	210 HP D	182,332	47.30	60.82	8.63	18.78	5.34	22.27	7.03	476				
9155	20D-2 SEMI-U BLADE HYDRAULIC		22,453	4.35	5.60	1.07	2.40	0.00	2.87	0.00	61				
9160	20G-2 ANGLE BLADE HYDRAULIC		15,167	2.96	3.80	0.72	1.62	0.00	1.94	0.00	71				
9165	TD-25-G P.S.	320 HP D	234,260	57.87	74.65	11.16	25.11	8.13	29.90	10.71	700				
9170	25D-2 SEMI-U BLADE HYDRAULIC		27,649	5.41	6.93	1.32	2.97	0.00	3.53	0.00	113				
9175	25G-2 ANGLE BLADE HYDRAULIC		22,831	4.50	5.76	1.08	2.44	0.00	2.92	0.00	115				
9180	FRONT PUSHER CUSHION		9,595	1.92	2.44	0.46	1.03	0.00	1.22	0.00	29				
9185	REAR PUSHER CUSHION		5,574	1.19	1.50	0.26	0.59	0.00	0.71	0.00	23				
9190	FRONT PUSH BLK FOR S/BLD		870	0.24	0.29	0.04	0.09	0.00	0.11	0.00	12				
JOHN DEERE															
9200	JD350C/6305 D.D. W/HYD BLADE	42 HP D	35,330	9.20	11.85	1.67	3.63	1.07	4.31	1.41	107				
9205	JD450E/6405 D.D. W/HYD BLADE	70 HP D	46,704	12.68	16.32	2.21	4.81	1.78	5.71	2.34	147				
9210	JD550B/6405 P.S. W/HYD BLADE	78 HP D	55,218	14.82	19.08	2.62	5.69	1.98	6.75	2.61	156				
9215	JD750B H.S. W/HYD BLADE	120 HP D	85,807	22.99	29.59	4.05	8.83	3.05	10.48	4.02	291				
9220	JD750B LPG H.S. W/TILT BLADE	120 HP D	89,861	23.88	30.73	4.25	9.25	3.05	10.97	4.02	313				
9225	JD850B H.S. W/TILT BLADE	165 HP D	115,091	30.97	39.86	5.44	11.85	4.19	14.05	5.52	363				
9230	JD850B LPG H.S. W/TILT BLADE	165 HP D	128,580	33.93	43.66	6.08	13.24	4.19	15.70	5.52	435				
KOMATSU															
9240	D31A-17 H.S.	66 HP D	40,326	11.14	14.34	1.91	4.16	1.68	4.92	2.21	132				
9245	ANGLE TILTDOZER BLADE		6,533	1.40	1.77	0.31	0.70	0.00	0.84	0.00	20				
9250	D41A-3 H.S.	90 HP D	60,759	16.45	21.17	2.87	6.25	2.29	7.42	3.01	231				
9255	STRAIGHT TILTDOZER BLADE		7,092	1.51	1.90	0.34	0.76	0.00	0.90	0.00	24				
9260	D53A-17 H.S.	124 HP D	93,656	24.85	31.96	4.43	9.65	3.15	11.43	4.15	246				
9265	ANGLE TILTDOZER BLADE		7,781	1.65	2.07	0.38	0.84	0.00	0.99	0.00	42				
9270	D65E-7 H.S.	165 HP D	131,952	34.68	44.60	6.24	13.59	4.19	16.11	5.52	377				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRACTOR, CRAWLER (DOZER) (CONT'D)														
***** (ADD ATTACHMENTS TO TRACTOR)														
KOMATSU (CONT'D)														
9275	ANGLE TILTDOZER BLADE	10,160	2.10	2.66	0.48	1.09	0.00	1.30	0.00	61				
9280	D85E-18 H.S. 220 HP D	185,058	48.23	62.05	8.75	19.05	5.59	22.60	7.37	437				
9285	ANGLE TILTDOZER BLADE	15,901	3.23	4.11	0.76	1.70	0.00	2.03	0.00	99				
9290	U-DOZER BLADE	16,966	3.46	4.38	0.81	1.82	0.00	2.16	0.00	104				
9295	D155A-1 H.S. 320 HP D	259,543	62.99	81.23	12.36	27.82	8.13	33.13	10.71	690				
9300	ANGLE TILTDOZER BLADE	21,824	4.53	5.73	1.04	2.34	0.00	2.79	0.00	140				
9305	U-DOZER BLADE	23,049	4.76	6.03	1.10	2.47	0.00	2.94	0.00	142				
9310	D355A-3 H.S. 410 HP D	332,801	80.77	104.16	15.86	35.68	10.42	42.49	13.73	945				
9315	U-DOZER BLADE	29,666	6.10	7.72	1.41	3.18	0.00	3.78	0.00	196				
9320	STRAIGHT DOZER BLADE	27,012	5.77	7.25	1.29	2.90	0.00	3.45	0.00	184				
9325	D455A-1 H.S. 620 HP D	539,357	114.69	143.02	23.76	52.27	15.76	60.10	20.76	1445				
9330	FULL U-DOZER BLADE	71,354	14.34	18.26	3.40	7.65	0.00	9.11	0.00	229				
9335	U-DOZER BLADE	67,061	13.49	17.17	3.19	7.19	0.00	8.56	0.00	211				
9340	STRAIGHT DOZER BLADE	62,767	12.63	16.09	2.99	6.72	0.00	8.01	0.00	193				
TEREX (GM)														
9350	D700A P.S. (W/O BLADE) 205 HP D	161,297	42.51	54.67	7.63	16.61	5.21	19.69	6.86	409				
9355	SEMI-U BLADE HYDRAULIC	15,746	3.08	3.94	0.75	1.69	0.00	2.01	0.00	58				
9360	ANGLE BLADE HYDRAULIC	17,634	3.44	4.40	0.84	1.89	0.00	2.25	0.00	69				
9365	FULL-U BLADE HYDRAULIC	18,053	3.51	4.50	0.86	1.93	0.00	2.30	0.00	68				
9370	D750 P.S. (W/O BLADE) 260 HP D	188,270	46.60	60.13	8.97	20.18	6.61	24.04	8.70	555				
9375	SEMI-U BLADE HYDRAULIC	22,263	4.33	5.55	1.06	2.39	0.00	2.84	0.00	91				
9380	ANGLE BLADE HYD. W/DUAL TILT	29,205	5.66	7.26	1.39	3.13	0.00	3.73	0.00	118				
9385	FULL-U BLADE HYDRAULIC	24,301	4.72	6.05	1.16	2.61	0.00	3.10	0.00	107				
9390	D800 P.S. (W/O BLADE) 350 HP D	252,043	62.46	80.58	12.01	27.02	8.90	32.18	11.72	787				
9395	SEMI-U BLADE HYDRAULIC	29,087	5.71	7.31	1.39	3.12	0.00	3.72	0.00	118				
9400	FULL-U BLADE HYDRAULIC	31,888	6.25	8.01	1.52	3.42	0.00	4.08	0.00	129				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRACTOR, CRAWLER (DOZER) (CONT'D) *****														
(ADD ATTACHMENTS TO TRACTOR)														
TEREX (GM) (CONT'D)														
9405	CUSHIONED PUSH BLADE	27,867	5.45	6.99	1.32	2.98	0.00	3.56	0.00	113				
9410	PUSH PLATE (WELD ON)	1,176	0.27	0.34	0.05	0.12	0.00	0.15	0.00	6				
9415	PUSH BLOCK (CUSHION REAR)	7,463	1.54	1.95	0.36	0.80	0.00	0.95	0.00	21				
TRACTOR, WHEEL TYPE (DOZER) *****														
CATERPILLAR														
9430	814-B ARTICULATED ST BLADE P.S. 210 HP D	167,257	37.42	49.63	7.87	17.99	4.95	21.48	6.51	465				
9435	824-C ARTICULATED ST BLADE P.S. 310 HP D	242,758	56.31	76.98	11.26	25.46	7.30	30.35	9.61	624				
9440	834-B ARTICULATED ST BLADE P.S. 450 HP D	358,224	80.38	108.52	16.53	37.25	10.60	44.39	13.95	892				
CLARK														
9450	280B ARTICULATED ST BLADE P.S. 302 HP D	258,691	59.43	81.62	11.97	27.03	7.12	32.22	9.36	749				
9455	380B ARTICULATED ST BLADE P.S. 572 HP D	437,213	98.79	133.31	20.18	45.47	13.48	54.19	17.73	1253				
TRACTOR, WHEEL TYPE (FARM) *****														
JOHN DEERE														
9470	MOD 401 D	62 HP D	19,524	5.45	7.17	0.92	2.10	1.46	2.52	1.92				
9475	MOD 2150	50 HP D	16,020	4.52	6.03	0.75	1.70	1.18	2.03	1.55				
9480	MOD 2350	62 HP D	17,613	5.18	6.89	0.82	1.87	1.46	2.23	1.92				
9485	MOD 2750	83 HP D	21,592	6.48	8.55	1.02	2.32	1.96	2.77	2.57				
TRENCHER, CHAIN *****														
DITCH WITCH														
9500	MOD C99 6"X24" TRENCH	9 HP G	3,407	1.29	1.69	0.15	0.34	0.46	0.42	0.60				
9505	MOD 2200 8"X36" TRENCH	18 HP G	13,859	4.04	5.21	0.66	1.47	0.93	1.74	1.21				
9510	MOD 2300 10"X36" TRENCH	28 HP G	19,284	5.80	7.50	0.92	2.04	1.44	2.42	1.88				
9515	MOD 6510 12"X54" TRENCH	64 HP D	35,151	9.16	11.87	1.65	3.67	1.51	4.37	1.98				
										106				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRENCHER, CHAIN (CONT'D) *****														
DITCH WITCH (CONT'D)														
9520	MOD R100 10"X72" TRENCH	105 HP D	71,996	17.95	23.22	3.39	7.56	2.47	9.00	3.25				
VERMEER														
9530	MOD V-430 10"X40" TRENCH	24 HP D	23,643	5.57	7.18	1.12	2.50	0.57	2.97	0.74				
9535	MOD M-455 18"X72" TRENCH	44 HP D	46,443	10.86	14.03	2.19	4.88	1.04	5.81	1.36				
9540	MOD M-475 18"X72" TRENCH	55 HP D	51,334	12.20	15.75	2.43	5.41	1.30	6.43	1.70				
9545	MOD T-600024"X96" TRENCH	113 HP D	81,136	19.94	25.72	3.87	8.68	2.66	10.33	3.50				
9550	MOD T-800B36"X96" TRENCH	175 HP D	160,092	37.90	48.85	7.63	17.13	4.12	20.38	5.42				
TRENCHER, WHEEL TYPE *****														
BARBER-GREENE														
9565	MOD TA 56 16"X5'-10" TRENCH	100 HP D	144,042	32.37	41.68	6.86	15.41	2.36	18.34	3.10				
9570	MOD TA 65 28"X7'-6" TRENCH	160 HP D	209,629	47.54	61.23	9.99	22.42	3.77	26.69	4.96				
9575	MOD TA 77 32"X8'-6" TRENCH	160 HP D	276,374	61.14	78.70	13.16	29.55	3.77	35.19	4.96				
CLEVELAND														
9585	MOD 236 16"X72" TRENCH	67 HP D	103,868	23.19	29.85	4.95	11.11	1.58	13.22	2.08				
9590	MOD 236HD 16"X72" TRENCH	67 HP D	112,232	24.89	32.04	5.34	12.00	1.58	14.29	2.08				
9595	MOD 246 22"X72" TRENCH	67 HP D	116,181	25.69	33.07	5.53	12.42	1.58	14.79	2.08				
9600	MOD 7036 28"X84" TRENCH	102 HP D	146,065	32.84	42.28	6.96	15.63	2.40	18.59	3.16				
9605	MOD 400WHD36"X114" TRENCH	175 HP D	272,341	60.77	78.24	12.97	29.13	4.12	34.68	5.42				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCKS, HIGHWAY														
***** (CHASSIS ONLY)														
FORD														
9620	F150 4X2 1/2T PKUP	6100 GW 137 HP G	8,711	4.61	5.95	0.52	1.27	1.60	1.47	2.14	38			
9625	F150 4X4 1/2T PKUP	6250 GW 137 HP G	10,831	5.23	6.77	0.65	1.59	1.60	1.85	2.14	42			
9630	F250 4X2 3/4T PKUP	6900 GW 137 HP G	9,599	4.88	6.30	0.56	1.38	1.60	1.61	2.14	40			
9635	F250 4X4 3/4T PKUP	7400 GW 137 HP G	11,310	5.41	6.97	0.68	1.65	1.60	1.91	2.14	44			
9640	F350 2AX	10000 GW 137 HP G	10,270	5.13	6.63	0.60	1.46	1.60	1.70	2.14	42			
9645	F600 2AX	18500 GW 154 HP G	17,977	9.45	12.48	0.90	2.01	4.20	2.52	5.41	65			
9650	F600 2AX	18500 GW 162 HP D	24,935	8.61	11.58	1.27	2.84	2.53	3.57	3.29	65			
9655	F700 2AX	24500 GW 177 HP G	20,827	10.86	14.33	1.05	2.35	4.83	2.95	6.21	65			
9660	F700 2AX	24500 GW 162 HP D	28,171	9.29	12.49	1.44	3.24	2.53	4.05	3.29	73			
9665	F800 2AX	27000 GW 177 HP G	22,952	11.34	14.99	1.16	2.59	4.83	3.24	6.21	72			
9670	F800 2AX	27000 GW 162 HP D	29,532	9.85	13.23	1.48	3.27	2.53	4.09	3.29	76			
9675	LT800 3AX	43000 GW 223 HP G	35,813	20.13	26.60	1.83	4.24	9.04	5.34	11.65	110			
9680	LT8000 3AX	44800 GW 175 HP D	49,189	16.40	22.12	2.52	5.85	4.09	7.38	5.32	126			
9685	LTS8000 3AX	46000 GW 175 HP D	51,490	16.91	22.80	2.64	6.13	4.09	7.73	5.32	130			
9690	LNT8000 3AX	46000 GW 175 HP D	48,680	16.31	21.98	2.50	5.78	4.09	7.29	5.32	124			
9695	CT8000 3AX	46000 GW 175 HP D	56,770	18.02	24.35	2.92	6.79	4.09	8.57	5.32	136			
9700	LT9000 3AX 58000 GW	82000 GCW 239 HP D	74,775	24.04	32.48	3.85	8.94	5.59	11.28	7.27	172			
9705	LTS9000 3AX 60000 GW	82000 GCW 239 HP D	79,442	25.09	33.89	4.08	9.48	5.59	11.96	7.27	180			
9710	LNT9000 3AX 60000 GW	82000 GCW 239 HP D	75,347	24.22	32.69	3.86	8.97	5.59	11.31	7.27	175			
9715	CLT9000 3AX	82000 GCW 286 HP D	74,053	25.18	33.97	3.82	8.90	6.69	11.23	8.70	149			
GMC AND CHEVROLET														
9725	C10903 4X2 1/2T PKUP	6100 GW 165 HP G	8,694	5.03	6.51	0.52	1.27	1.93	1.46	2.57	46			
9730	C10906 4X2 SUBURBAN	6800 GW 165 HP G	11,237	5.74	7.43	0.67	1.64	1.93	1.91	2.57	52			
9735	K10906 4X4 SUBURBAN	7000 GW 165 HP G	12,368	6.10	7.88	0.74	1.82	1.93	2.12	2.57	56			
9740	C20903 4X2 3/4T PKUP	8600 GW 165 HP G	10,375	5.51	7.12	0.62	1.52	1.93	1.76	2.57	49			
9745	K20903 4X4 3/4T PKUP	6600 GW 165 HP G	12,079	6.03	7.78	0.72	1.77	1.93	2.06	2.57	54			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCKS, HIGHWAY (CONT'D)														
***** (CHASSIS ONLY)														
GMC AND CHEVROLET (CONT'D)														
9750	C30903	2AX	9000 GVW 160 HP G	11,644	5.88	7.58	0.69	1.67	1.87	1.93	2.50	62		
9755	C5D042	2AX	18500 GVW 161 HP G	16,581	9.42	12.40	0.83	1.84	4.40	2.31	5.65	59		
9760	C6D042	2AX	19200 GVW 161 HP G	18,001	9.71	12.80	0.90	2.01	4.40	2.52	5.65	63		
9765	C6D042	2AX	23160 GVW 165 HP D	25,535	8.79	11.83	1.30	2.92	2.57	3.66	3.35	73		
9770	C7D042	2AX	23160 GVW 179 HP G	19,089	10.63	13.98	0.96	2.13	4.89	2.66	6.28	78		
9775	C7D042	2AX	29900 GVW 225 HP D	38,130	12.69	17.10	1.94	4.36	3.51	5.48	4.56	96		
9780	C7D064	3AX	44860 GVW 207 HP G	34,276	19.10	25.22	1.73	3.97	8.40	5.00	10.82	123		
9785	C7D064	3AX	44500 GVW 205 HP D	41,199	15.62	20.96	2.10	4.84	4.80	6.10	6.24	127		
9790	J8C042	2AX	33200 GVW 235 HP D	47,279	17.64	23.69	2.44	5.67	5.50	7.15	7.15	107		
9795	J8C064	3AX	48860 GVW 210 HP D	53,132	18.31	24.66	2.74	6.35	4.91	8.00	6.39	140		
9800	J9C042	2AX	53911 GVW 230 HP D	52,390	15.87	21.44	2.66	5.99	3.59	7.52	4.66	122		
9805	J9C064	3AX	48860 GVW 300 HP D	61,871	22.87	30.74	3.20	7.45	7.02	9.39	9.13	144		
9810	N9E064	3AX	52000 GVW 307 HP D	64,057	23.72	31.83	3.28	7.60	7.18	9.58	9.34	141		
9815	N9E064	3AX	62000 GVW 307 HP D	74,743	26.10	35.10	3.84	8.90	7.18	11.22	9.34	180		
INTERNATIONAL														
9825	1654	2AX	16000 GVW 155 HP D	19,026	7.18	9.61	0.96	2.17	2.42	2.73	3.14	57		
9830	1724	2AX	16000 GVW 147 HP G	16,965	8.92	11.77	0.86	1.93	4.01	2.42	5.16	65		
9835	1754	2AX	16000 GVW 165 HP D	24,454	8.50	11.42	1.26	2.83	2.57	3.55	3.35	71		
9840	1954	2AX	21700 GVW 180 HP D	30,843	10.19	13.71	1.58	3.56	2.81	4.45	3.65	100		
9845	F2554	3AX	43000 GVW 210 HP D	49,363	17.51	23.56	2.53	5.87	4.91	7.41	6.39	123		
9850	F2574	3AX	50000 GVW 230 HP D	65,347	21.50	29.02	3.38	7.88	5.38	9.94	7.00	123		
9855	F4370	3AX	48860 GVW 300 HP D	68,584	24.29	32.71	3.55	8.29	7.02	10.46	9.13	133		
9860	F5050	3AX	54000 GVW 210 HP D	66,766	21.20	28.66	3.46	8.06	4.91	10.17	6.39	138		
9865	F5070	3AX	54000 GVW 230 HP D	69,787	22.44	30.33	3.61	8.43	5.38	10.65	7.00	140		

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	SEVERE COND.				
			AVERAGE	SEVERE		OWNER-SHIP	FUEL		OWNER-SHIP					
TRUCKS, HIGHWAY (CONT'D)														
(CHASSIS ONLY)														
KENWORTH														
9875	K100 3AX 48000 GVW 85000 GOW 300 HP D	73,430	25.41	34.23	3.80	8.86	7.02	11.18	9.13	138				
9880	W900 3AX 48000 GVW 85000 GOW 300 HP D	73,991	25.51	34.40	3.82	8.92	7.02	11.27	9.13	140				
9885	C500 3AX 56000 GVW 85000 GOW 270 HP D	79,565	25.80	34.85	4.12	9.62	6.32	12.15	8.21	144				
PETERBILT														
9895	MOD 348 3AX 50000 GVW 85000 GOW 245 HP D	81,673	25.75	34.85	4.21	9.81	5.73	12.39	7.45	121				
9900	MOD 362 3AX 46000 GVW 85000 GOW 300 HP D	71,640	25.03	33.71	3.71	8.64	7.02	10.90	9.13	131				
9905	MOD 359 3AX 46000 GVW 85000 GOW 300 HP D	69,069	24.48	32.96	3.56	8.31	7.02	10.49	9.13	134				
9910	MOD 353 3AX 56000 GVW 130000 GOW 350 HP D	77,012	27.66	37.22	3.99	9.31	8.19	11.75	10.65	174				
TRUCK ACCESSORIES														
(CHASIS NOT INCLUDED)														
CRANES, HYDRAULIC														
9925	5.3T05'RAD 24000 GVW MIN	26,567	5.98		1.42	3.39	0.00			79				
9930	8.0T03'RAD 26500 GVW MIN	31,947	7.17		1.70	4.07	0.00			84				
9935	12.5T04'RAD 27000 GVW MIN	49,459	11.04		2.63	6.30	0.00			142				
9940	13.5T04'RAD 44000 GVW MIN	61,189	13.64		3.25	7.79	0.00			158				
9945	15.0T04'RAD 48000 GVW MIN	67,644	15.06		3.59	8.61	0.00			211				
DUMP BODY, REAR, W/ROIST														
9955	5CY 24000 TO 26000 GVW	6,359	1.50	2.03	0.34	0.81	0.00	1.03	0.00	26				
9960	AIR GATE 8CY 27000 TO 30000 GVW	10,047	2.31	3.16	0.54	1.28	0.00	1.63	0.00	44				
9965	AIR GATE 10CY 36000 AND UP GVW	10,159	2.34	3.18	0.54	1.30	0.00	1.64	0.00	45				
9970	AIR GATE 12CY 36000 AND UP GVW	10,304	2.37	3.22	0.55	1.31	0.00	1.66	0.00	46				
FLATBEDS W/CONT. SIDES														
9980	8'X9.5'	2,044	0.45		0.11	0.26	0.00			11				
9985	8'X10.5'	2,108	0.47		0.11	0.27	0.00			12				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP					
TRUCK ACCESSORIES (CONT'D)													
***** (CHASIS NOT INCLUDED)													
FLATBEDS W/CONT. SIDES (CONT'D)													
9990	8'X12.5'	2,304	0.52		0.13	0.30	0.00		14				
9995	8'X14.5'	2,739	0.61		0.15	0.35	0.00		16				
10000	8'X16.5'	3,000	0.67		0.17	0.39	0.00		18				
10005	FLATBED-HOIST	2,854	0.63		0.15	0.36	0.00		10				
HOISTS, ELECTRIC													
10015	1500LB@1.75'	2,438	0.63		0.13	0.31	0.00		4				
10020	2400LB@3'	2,833	0.72		0.15	0.36	0.00		6				
10025	5000LB@4'	7,831	1.82		0.41	0.99	0.00		15				
10030	6000LB@6'	8,838	2.04		0.47	1.12	0.00		14				
TRANSIT MIXERS													
10040	7 CY 40000 - 50000 GVW RQD	27,596	6.23		1.46	3.51	0.00		63				
10045	8 CY 50000 - 70000 GVW RQD	28,021	6.33		1.49	3.57	0.00		66				
10050	8.5CY 55000 - 75000 GVW RQD	28,307	6.39		1.50	3.60	0.00		68				
10055	9 CY 61000 - 80000 GVW RQD	28,710	6.49		1.53	3.66	0.00		73				
WATER TANKS													
10065	2000 GAL 23500-28000 GVW	12,285	2.72		0.66	1.57	0.00		35				
10070	2500 GAL 25000-34950 GVW	12,940	2.87		0.69	1.65	0.00		39				
10075	3000 GAL 29000-40000 GVW	13,750	3.04		0.73	1.75	0.00		44				
TRUCK TRAILERS													

BOTTOM DUMP													
10090	18CY 27T	26,907	5.10	6.50	1.24	2.78	0.00	3.31	0.00				
10095	20CY 30T	31,926	5.99	7.65	1.48	3.34	0.00	3.98	0.00				
10100	30CY 30T	32,206	6.04	7.71	1.50	3.37	0.00	4.02	0.00				
10105	28CY 42T	38,398	7.25	9.24	1.76	3.96	0.00	4.73	0.00				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCK TRAILERS (CONT'D) *****														
BOTTOM DUMP (CONT'D)														
10110	20CY 35T OFF-HIGHWAY	45,379	8.41	10.76	2.11	4.79	0.00	5.71	0.00	175				
10115	32CY 55T OFF-HIGHWAY	96,281	18.25	23.24	4.39	9.80	0.00	11.66	0.00	365				
10120	43CY 70T OFF-HIGHWAY	107,626	20.45	26.05	4.89	10.89	0.00	12.96	0.00	445				
END DUMP														
10130	20CY 24T	35,726	6.65	8.50	1.66	3.76	0.00	4.48	0.00	146				
LOWBOY, RIGID NECK, DROP DECK														
10140	25 TON 2 AXLE	21,174	3.60		0.95	1.89	0.00			89				
10145	30 TON 2 AXLE	23,483	3.98		1.05	2.11	0.00			94				
10150	35 TON 2 AXLE	25,608	4.30		1.15	2.31	0.00			109				
10155	35 TON 3 AXLE	29,468	5.04		1.31	2.61	0.00			134				
10160	40 TON 3 AXLE	30,749	5.26		1.36	2.71	0.00			144				
10165	50 TON 3 AXLE	35,402	5.99		1.58	3.16	0.00			161				
10170	60 TON 3 AXLE	38,220	6.60		1.69	3.33	0.00			188				
10175	70 TON 3 AXLE	46,453	7.84		2.07	4.13	0.00			213				
10180	75 TON 3 AXLE	47,874	8.05		2.13	4.27	0.00			228				
10185	80 TON 4 AXLE	54,744	9.13		2.46	4.96	0.00			266				
10190	90 TON 4 AXLE	58,982	9.91		2.63	5.28	0.00			297				
10195	100 TON 4 AXLE	66,231	11.11		2.96	5.94	0.00			313				
10200	120 TON 4 AXLE	76,953	13.10		3.40	6.74	0.00			351				
10205	HELPER DOLLY 60 T TRAILER MAX	18,207	3.17		0.80	1.58	0.00			62				
PLATFORM TRAILERS														
10215	25 TON 2 AXLE	17,104	3.00		0.75	1.47	0.00			110				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			GWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL				
TRUCK TRAILERS (CONT'D)												
PUP TRAILERS												
10225	8 CY LONG TONGUE	21,216	3.64		0.94	1.87	0.00		86			
10230	10CY LONG TONGUE	21,381	3.67		0.95	1.89	0.00		86			
TIILT TRAILERS												
10240	12 TON 2 AXLE	11,259	2.03		0.49	0.96	0.00		62			
10245	16 TON 2 AXLE	12,914	2.33		0.56	1.09	0.00		65			
10250	20 TON 2 AXLE	14,054	2.53		0.61	1.19	0.00		67			
WATER TANKER TRAILERS												
10260	4000 GAL	63 HP D	32,350	6.46		1.40	2.93	1.48	120			
10265	5000 GAL	63 HP D	34,124	6.81		1.46	3.01	1.48	150			
10270	6000 GAL	63 HP D	35,633	7.02		1.52	3.15	1.48	160			
TRUCKS, OFF-HIGHWAY												
CATERPILLAR												
10285	769-C 35T 22-30 CY	P.S. 450 HP D	289,068	57.02	73.83	12.44	26.84	6.70	30.81	8.65	711	
10290	773-B 50T 30-45 CY	P.S. 650 HP D	406,207	81.94	106.89	17.39	37.35	9.67	42.86	12.49	908	
10295	777 85T 47-67 CY	P.S. 870 HP D	575,256	112.66	146.68	24.41	51.99	12.95	59.60	16.72	1410	
10300	768C PRIME MOVER TRACTOR	P.S. 450 HP D	255,703	52.01	67.62	10.97	23.61	6.70	27.09	8.65	523	
10305	772B PRIME MOVER TRACTOR	P.S. 650 HP D	383,057	80.57	106.40	16.25	34.59	9.67	39.65	12.49	716	
10310	776 PRIME MOVER TRACTOR	P.S. 870 HP D	509,327	104.41	137.59	21.34	44.93	12.95	51.44	16.72	1120	
DJB/CATERPILLAR (ARTICULATED FRAME)												
10320	D-25C 25T 14-18 CY	P.S. 260 HP D	198,649	38.61	50.18	8.48	18.18	3.87	20.86	5.00	424	
10325	D-35C 35T 18-25 CY	P.S. 260 HP D	252,047	46.62	60.10	10.83	23.35	3.87	26.80	5.00	526	
10330	D350C 35T 20-26 CY	P.S. 260 HP D	254,069	47.96	62.26	10.80	23.03	3.87	26.40	5.00	514	
10335	D400 40T 23-31 CY	P.S. 385 HP D	289,549	55.78	72.07	12.36	26.47	5.73	30.35	7.40	568	
10340	D-44 44T 23-31 CY	P.S. 450 HP D	347,482	66.67	86.24	14.90	32.04	6.70	36.76	8.65	684	

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				GWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCKS, OFF-HIGHWAY (CONT'D) *****														
DJB/CATERPILLAR (CONT'D) (ARTICULATED FRAME)														
10345	D550	55T 32-43 CY P.S. 450 HP D	412,433	78.01	101.03	17.56	37.52	6.70	43.02	8.65	834			
EUCLID														
10355	R25-215FD	25T 14-19 CY P.S. 214 HP D	195,246	35.52	45.61	8.39	18.09	3.18	20.77	4.11	404			
10360	R35-302TD	35T 22-30 CY P.S. 450 HP D	310,136	60.18	77.74	13.37	28.88	6.70	33.15	8.65	623			
10365	R50-301LD	50T 31-41 CY P.S. 608 HP D	408,175	81.40	106.17	17.48	37.54	9.05	43.07	11.69	836			
10370	R75-301ND	75T 46-69 CY P.S. 646 HP D	545,430	102.79	133.58	23.19	49.49	9.61	56.74	12.42	1123			
10375	R85-306ND	85T 52-67 CY P.S. 755 HP D	561,480	108.30	141.15	23.80	50.66	11.23	58.06	14.51	1227			
TEREX														
10385	33-03B	22T 15-18 CY P.S. 215 HP D	173,515	32.89	42.45	7.49	16.17	3.20	18.56	4.13	400			
10390	33-05B	30T 19-23 CY P.S. 321 HP D	252,836	48.37	62.60	10.89	23.50	4.78	26.96	6.17	525			
10395	33-07	40T 25-32 CY P.S. 493 HP D	311,965	64.28	84.62	13.27	28.32	7.34	32.47	9.48	756			
10400	33-09	55T 34-44 CY P.S. 624 HP D	420,000	85.60	112.60	17.88	38.17	9.29	43.77	11.99	992			
10405	33-11D	85T 51-65 CY P.S. 840 HP D	619,498	118.70	154.13	26.36	56.28	12.50	64.53	16.14	1350			
10410	33-14	120T 65-88 CY P.S. 1092 HP D	906,099	170.78	221.72	38.56	82.35	16.25	94.42	20.99	1950			
WABCO														
10420	HAULPAK35D	35T 23-29 CY P.S. 420 HP D	307,878	59.23	76.54	13.27	28.66	6.25	32.90	8.07	630			
10425	HAULPAK50B	50T 31-40 CY P.S. 576 HP D	439,386	85.44	111.14	18.86	40.57	8.57	46.55	11.07	792			
10430	HAULPAK60B	60T 34-48 CY P.S. 642 HP D	471,227	93.64	122.59	20.13	43.13	9.55	49.47	12.34	900			
10435	75C	75T 44-57 CY P.S. 679 HP D	534,481	101.24	131.31	22.76	48.66	10.10	55.79	13.05	950			
10440	85D	85T 47-67 CY P.S. 818 HP D	597,294	114.92	149.44	25.37	54.12	12.17	62.05	15.72	1240			
10445	100	100T 47-77 CY P.S. 1050 HP D	726,103	142.93	187.17	30.63	64.92	15.62	74.37	20.18	1606			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCKS, WATER														

TRACTOR DRAWN - KLEIN														
10460	KT-50	5000 GAL. CAT 613B P.S. 150 HP D	137,679	25.93	31.96	5.90	12.30	3.53	14.07	4.65	320			
10465	KT-60	6000 GAL. CAT 621B P.S. 330 HP D	243,850	48.79	60.46	10.36	21.38	7.77	24.42	10.23	564			
10470	KT-80	8000 GAL. CAT 631D P.S. 450 HP D	339,532	67.91	84.18	14.38	29.63	10.60	33.84	13.95	751			
10475	KT-100	10000 GAL. CAT 631D P.S. 450 HP D	347,322	69.07	85.56	14.73	30.37	10.60	34.68	13.95	811			
10480	KT-100	10000 GAL. CAT 651E P.S. 550 HP D	418,782	83.60	103.59	17.74	36.56	12.96	41.74	17.05	1001			
10485	KT-120	12000 GAL. CAT 651E P.S. 550 HP D	424,791	84.48	104.65	18.01	37.12	12.96	42.39	17.05	1097			
TRACTOR DRAWN - SOUTHWEST														
10495	STT-60	6000 GAL. CAT 621B P.S. 330 HP D	244,239	48.84	60.53	10.37	21.41	7.77	24.46	10.23	594			
10500	STT-80	8000 GAL. CAT 631D P.S. 450 HP D	335,163	67.27	83.41	14.19	29.22	10.60	33.37	13.95	811			
10505	STT-100	10000 GAL. CAT 631D P.S. 450 HP D	339,613	67.93	84.18	14.39	29.64	10.60	33.84	13.95	840			
10510	STT-120	12000 GAL. CAT 651E P.S. 550 HP D	434,416	85.89	106.35	18.43	38.02	12.96	43.42	17.05	1135			
10515	STT-140	14000 GAL. CAT 651E P.S. 550 HP D	440,803	86.83	107.48	18.72	38.62	12.96	44.11	17.05	1170			
WAGONS, BOTTOM DUMP														

CATERPILLAR-ATHey														
10530	621B/PW621B	33T 22-25CY P.S. 330 HP D	265,377	54.71	71.48	11.32	24.23	7.77	27.78	10.23	579			
10535	768C/PW768C	63T 42-48CY P.S. 450 HP D	391,379	79.83	104.09	16.59	35.32	10.60	40.48	13.95	935			
10540	772B/PW772B	100T 60-67CY P.S. 650 HP D	624,164	127.10	166.96	26.36	55.93	15.31	64.09	20.15	1360			
EUCLID														
10550	E30-303TDT301W	30T 21-27CY P.S. 277 HP D	251,237	50.79	66.35	10.69	22.85	6.53	26.21	8.59	483			
10555	B70-203LDT147W	70T 47-62CY P.S. 456 HP D	423,247	82.37	106.59	18.01	38.48	10.74	44.12	14.14	934			

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
WAGONS, REAR DUMP *****														
CATERPILLAR-ATHEY														
10570	621B/PR621B 33T 22-26CY P.S. 330 HP D	274,953	56.14	73.27	11.74	25.15	7.77	28.85	10.23	630				
10575	631D/PR631D 40T 27-32CY P.S. 450 HP D	394,563	79.43	103.44	16.89	36.25	10.60	41.58	13.95	833				
WATER BLASTER *****														
ACE														
10590	MOD S6 3000GE PORTABLE 3000 PSI 18 HP D	4,723	2.46			0.29	0.73	0.62		3				
10595	MOD S5 3500GE PORTABLE 3000 PSI 18 HP D	4,801	2.48			0.29	0.74	0.62		3				
10600	MOD S5 3000E SKID MTD 3000 PSI 10 HP E	3,942	1.40			0.24	0.61	0.00		3				
10605	MOD S6 3000E SKID MTD 3000 PSI 15 HP E	4,508	1.59			0.27	0.69	0.00		3				
AMERICAN AERO/WEATHERFORD														
10615	WBD 90 10000 PSI @ 10 GPM W/2 NOZ 91 HP D TRAILER MOUNTED	34,565	16.40			2.15	5.55	3.16		42				
10620	WBD150 10000 PSI @ 20 GPM W/2 NOZ 160 HP D TRAILER MOUNTED	52,328	25.84			3.26	8.41	5.56		70				
WATER TANKS *****														
SKID MOUNTED														
10635	WST-8 8000 GAL. SOUTHWEST	15,856	2.20			0.69	1.48	0.00		107				
10640	WST-10 10000 GAL. SOUTHWEST	18,476	2.57			0.82	1.73	0.00		122				
10645	WST-12 12000 GAL. SOUTHWEST	21,496	2.98			0.95	2.01	0.00		142				
PORTABLE (WITH WHEELS)														
10655	EWT-8 8000 GAL. SOUTHWEST 8 HP G	28,856	4.60			1.25	2.61	0.41		130				
10660	EWT-10 10000 GAL. SOUTHWEST 8 HP G	32,608	5.11			1.41	2.95	0.41		170				
10665	EWT-12 12000 GAL. SOUTHWEST 8 HP G	36,172	5.61			1.57	3.29	0.41		185				

TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.				
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
WELDERS												

ELECTRIC DRIVE - AC 3 PHASE 60 HZ												
10680	300 AMP	SKID MTD	20 HP E	2,465	1.83	0.13	0.30	1.08	7			
10685	400 AMP	SKID MTD	25 HP E	2,945	2.27	0.16	0.36	1.35	9			
GASOLINE ENGINE DRIVE												
10695	200 AMP	W/1 AXLE TRLR	39 HP G	4,945	4.08	0.25	0.56	2.46	11			
10700	250 AMP	W/1 AXLE TRLR	39 HP G	5,199	4.14	0.27	0.59	2.46	17			
10705	300 AMP	W/1 AXLE TRLR	65 HP G	5,653	6.28	0.29	0.64	4.11	17			
10710	400 AMP	W/1 AXLE TRLR	69 HP G	7,196	6.91	0.37	0.82	4.36	21			
DIESEL ENGINE DRIVE												
10720	250 AMP	W/1 AXLE TRLR	27 HP D	6,730	2.38	0.34	0.76	0.79	21			
10725	300 AMP	W/1 AXLE TRLR	38 HP D	7,198	2.88	0.37	0.82	1.11	21			
10730	350 AMP	W/2 AXLE TRLR	38 HP D	8,094	3.08	0.41	0.90	1.11	25			
10735	400 AMP	W/2 AXLE TRLR	64 HP D	8,753	4.15	0.44	0.98	1.86	30			
MIG												
10745	300AMP W/WIRE FEED AND SHOP GEAR	10 HP E	2,512	1.13	0.13	0.30	0.54	5				
10750	450AMP W/WIRE FEED AND SHOP GEAR	20 HP E	2,585	1.86	0.14	0.32	1.08	5				
RECTIFIER												
10760	200 AMP	W/SHOP RUNNING GEAR	19 HP E	1,134	1.53	0.06	0.13	1.03	4			
10765	300 AMP	W/SHOP RUNNING GEAR	24 HP E	1,453	1.94	0.07	0.17	1.30	6			
10770	750 AMP	W/SHOP RUNNING GEAR	30 HP E	3,992	2.81	0.21	0.49	1.62	7			
10775	1000AMP	W/SHOP RUNNING GEAR	42 HP E	6,995	4.19	0.37	0.86	2.27	10			
TRANSFORMER-RECTIFIER												
10785	250 AMP	W/SHOP RUNNING GEAR	19 HP E	518	1.44	0.03	0.07	1.03	4			
10790	300 AMP	W/SHOP RUNNING GEAR	24 HP E	1,739	1.99	0.09	0.21	1.30	6			



TABLE 3-2. EQUIPMENT AGE ADJUSTMENT FACTORS FOR OWNERSHIP COSTS

The "Age Adjustment Factors for Ownership Costs" in TABLE 3-2 are used when the age of an item of equipment is other than the age of the equipment listed in TABLE 3-1. The factors given in TABLE 3-2 are multiplied by the hourly ownership costs shown in TABLE 3-1 and result in an ownership rate adjusted for the actual age of the equipment being considered. When the "life" of the equipment has exceeded the economic service life given in APPENDIX D, the age will be determined as given in paragraph 3-2.f.

Examples: Assume that a two-year old 50-ton truck crane listed in TABLE 3-1 has a total hourly rate of \$55.00 per hour and an ownership rate of \$30.00 per hour.

A. If an equivalent crane owned by a contractor had been purchased new in 1981, the total hourly rate can be determined as follows:

Total Hourly Rate	= \$55.00/Hr.
Ownership Rate	(-) \$30.00/Hr.
Ownership adjusted for Age: (Ownership Rate) x (Age Adj. Factor)	
= (\$30.00) x (.88)	= (+) \$26.40/Hr.
Adjusted Total Hourly Rate	= \$51.40/Hr.

B. If an equivalent crane owned by a Contractor had been purchased new in 1970, this crane is over-age and the total hourly rate can be determined as follows:

Total Hourly Rate	= \$55.00/Hr.
Ownership Rate	(-) \$30.00/Hr.
Ownership adjusted for Age: (Ownership Rate) x (Oldest Age Adj. Factor)	
= (\$30.00) x (.51)	= (+) \$15.30/Hr.
Adjusted Total Hourly Rate	= \$40.30/Hr.

C. If an equivalent crane, manufactured in 1970, had been purchased used in 1978 by the Contractor, the crane is over-age and the rate computation would be identical to Example B.

D. If an equivalent crane, manufactured in 1981, had been purchased used in 1983 by the Contractor, the used crane is not over-age and the rate computation would be identical to Example A.

TABLE 3-2. EQUIPMENT AGE ADJUSTMENT FACTORS FOR OWNERSHIP COSTS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
15	AGGREGATE SPREADERS	1.04	1.00	1.00	0.97	0.95	0.97	0.97	0.90					
30	AIR COMPRESSORS	1.04	1.00	1.00	0.97	0.97	0.95	0.95	0.88					
45	AIR TOOLS, SANDBLASTERS, ETC	1.04	1.00	1.00										
60	ASPHALT DISTRIBUTORS	1.03	1.00	1.00	0.97	0.96	0.97	0.97	0.90					
65	ASPHALT AND CONCRETE PAVERS	1.03	1.00	1.00	0.97	0.96	0.97	0.97	0.90					
70	ASPHALT KETTLES AND RECYCLERS	1.05	1.01	1.00	0.98	0.97	0.94							
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.05	1.01	1.00	0.98	0.97	0.94	0.87						
80	BRUSH CHIPPERS	1.05	1.01	1.00	0.98	0.97	0.94	0.87						
90	BUCKETS, CLAMSHELL & DRAGLINE	1.06	1.02	1.00	0.97	0.96	0.98	0.92						
95	BUCKETS, CONCRETE	1.06	1.02	1.00	0.97	0.96	0.98	0.92						
105	CONCRETE OR GROUT PUMP	1.05	1.01	1.00	0.98	0.97	0.94							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.05	1.01	1.00	0.98	0.97	0.94							
125	CONCRETE FINISHERS, BLASTERS & BUGGIES	1.05	1.01	1.00	0.98	0.96								
130	CONCRETE SAWS	1.05	1.01	1.00	0.98	0.97	0.94							
135	CONCRETE VIBRATORS	1.04	1.00	1.00										
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	1.04	1.00	1.00	0.97	0.97								
150	0 THRU 25 TON	1.08	1.03	1.00	0.98	0.96	0.94	0.87	0.80	0.71				
165	OVER 25 TON THRU 50 TON	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.72	0.65	0.60		
170	OVER 50 TON THRU 150 TON	1.08	1.03	1.00	0.98	0.96	0.94	0.87	0.80	0.71	0.64	0.59	0.55	0.49
180	OVER 150 TON DRAGLINE & CLAMSHELL,CRAWLER	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.71	0.65	0.59	0.55	0.50
185	0 THRU 1 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.87	0.80	0.71				
190	OVER 1 CY THRU 2-1/2 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.72	0.65	0.60		
195	OVER 2-1/2 CY THRU 5 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.72	0.65	0.60	0.56	0.51
196	OVER 5 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.71	0.65	0.59	0.55	0.50
200	CRANES, HYDRAULIC, SELF-PROPELLED	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.72	0.65	0.60	0.55	
205	CRANES, TOWER CRANES & HYD. EXC. , TRK MTD	1.08	1.03	1.00	0.98	0.96	0.94	0.87	0.79	0.70	0.63	0.58	0.53	0.48
210	UNDER 26 T. (THRU 1 CY)	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.72	0.65	0.59		
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.72	0.65	0.60	0.56	0.51
230	66 THRU 125 T	1.07	1.03	1.00	0.98	0.96	0.94	0.88	0.81	0.72	0.65	0.60	0.56	0.51
240	OVER 125 T	1.07	1.03	1.00	0.98	0.96	0.94	0.88	0.81	0.72	0.66	0.61	0.57	0.51
255	DRILL, AUGER	1.02	0.99	1.00	0.99	1.00	0.99	0.91						
270	DRILL, BLAST HOLE	1.02	0.99	1.00	0.99	1.00	0.99	0.91						
300	DRILL, CORE	1.02	0.99	1.00	0.99	1.00	0.99	0.91						
315	DRILL, ROTARY TO 11" DIA. HOLE	1.02	0.99	1.00	0.99	1.00	0.99	0.91	0.78	0.67	0.61	0.55		
330	DRILL, ROTARY OVER 11" DIA.	1.02	0.99	1.00	0.99	1.00	0.99	0.91	0.78	0.68	0.62	0.56	0.54	0.51
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.02	0.99	1.00	0.99	1.00	0.99	0.91	0.78	0.68	0.62	0.56	0.54	0.51
375	FORK LIFTS	1.05	1.01	1.00	0.98	0.97	0.94	0.87						
390	GRADERS	1.04	1.00	1.00	0.97	0.97	0.94	0.85	0.76	0.66				
420	GENERATORS	1.04	1.00	1.00	0.96	0.94	0.91							
435	HOIST HYD. EXCAVATOR (SEE KEY NO. 570-601)	1.05	1.01	1.00	0.98	0.97	0.94	0.87						
438	LAWN MOWERS	1.05	1.01	1.00										
440	LIGHT PLANTS	1.05	1.01	1.00	0.98	0.96	0.94							
450	LOADER, BELT	1.05	1.01	1.00	0.98	0.97	0.94	0.87						
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.03	1.00	1.00	1.01	1.01	0.97	0.87						
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.04	1.00	1.00	0.99	0.97	0.94	0.84						
470	OVER 225 HP	1.04	1.00	1.00	0.99	0.97	0.95	0.85	0.71	0.62				

TABLE 3-2. EQUIPMENT AGE ADJUSTMENT FACTORS FOR OWNERSHIP COSTS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW											
		1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976
475	LOADER, FRONT END WITH BACKHOE, WHEEL TYPE	1.04	1.00	1.00	0.99	0.97	0.94	0.94	0.84				
480	PILE EXTRACTOR, FILE HAMMER & HYDRAULIC IMPACTOR	1.06	1.02	1.00	0.98	0.96							
485	PIPELAYERS	1.03	1.00	1.00	1.01	1.01	0.96	0.87	0.78	0.68			
	PUMP, GROUT (SEE KEY NO. 105)												
495	PUMP, WATER, ENGINE DRIVE	1.05	1.01	1.00	0.98	0.96	0.94	0.86					
500	PUMP, WATER, ELECTRIC DRIVE	1.05	1.01	1.00	0.98	0.96	0.94	0.86					
510	RIPPERS	1.03	1.00	1.00	1.01	1.01	0.97						
525	ROLLERS, EXCEPT VIB. ROLLERS	1.06	1.02	1.00	0.95	0.90	0.81	0.75					
530	ROLLERS, VIBRATORY	1.06	1.02	1.00	0.95	0.90	0.81						
535	ROOFING EQUIPMENT	1.04	1.00	1.00	0.97	0.97							
540	SCRAPERS, STANDARD	1.04	1.00	1.00	0.97	0.97	0.95	0.86					
542	SCRAPERS, TANDEM POWERED	1.04	1.00	1.00	0.97	0.97	0.95	0.86					
	SCRAPERS, ELEVATING												
545	0 THRU 200 HP	1.04	1.00	1.00	0.97	0.97	0.94	0.86					
550	OVER 200 HP	1.04	1.00	1.00	0.97	0.97	0.95	0.86					
555	SCRAPERS, TRACTOR DRAWN	1.04	1.00	1.00	0.97	0.97	0.95	0.86	0.77	0.68			
560	SOIL STABILIZERS	1.04	1.00	1.00	0.97	0.97	0.94	0.86					
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED												
570	0 THRU 1 CY	1.09	1.03	1.00	0.98	0.96	0.93						
585	OVER 1 CY THRU 2-1/2 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.87					
595	OVER 2-1/2 CY THRU 5 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.87	0.80	0.71			
600	OVER 5 CY	1.08	1.03	1.00	0.98	0.96	0.94	0.88	0.80	0.71	0.65		
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.08	1.03	1.00	0.98	0.96	0.94	0.87	0.80	0.71	0.64	0.59	0.55
615	0 THRU 225 HP	1.04	1.00	1.00	1.01	1.01	0.96	0.87					
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.03	1.00	1.00	1.01	1.01	0.97	0.87					
625	OVER 425 HP	1.03	1.00	1.00	1.01	1.01	0.97	0.88	0.79	0.70			
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.03	1.00	1.00	1.01	1.01	0.97	0.87					
645	TRACTOR, WHEEL TYPE	1.04	1.00	1.00	0.95	0.92	0.92	0.83					
650	TRENCHER	1.05	1.01	1.00	0.99	0.97	0.90	0.77					
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.05	1.01	1.00	0.98	0.97	0.94	0.87					
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.05	1.01	1.00	0.98	0.96	0.93	0.85					
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING												
670	DUMP BODIES	1.05	1.01	1.00	0.98	0.97	0.94						
675	ALL OTHER ACCESSORIES	1.05	1.01	1.00	0.98	0.97	0.94						
	TRUCK, HIGHWAY												
690	0 THRU 10,000 GVW	1.15	1.06	1.00	0.97	0.92							
695	OVER 10,000 THRU 30,000 GVW	1.15	1.06	1.00	0.97	0.92	0.87						
705	OVER 30,000 GVW	1.14	1.06	1.00	0.97	0.92	0.88						
720	TRUCK, OFF-HIGHWAY	1.04	1.00	1.00	0.99	0.98	0.95	0.87	0.75	0.64			
765	WAGON, BOTTOM & REAR DUMP	1.04	1.00	1.00	0.99	0.98	0.95	0.87	0.75	0.64			
780	WAGON, WATER	1.04	1.00	1.00	0.99	0.98	0.95	0.86	0.74	0.63			
785	WATER BLASTER	1.05	1.01	1.00	0.98	0.96							
795	WATER TANKS	1.05	1.01	1.00	0.98	0.97	0.94	0.87	0.77	0.66			
810	WELDERS	1.05	1.01	1.00	0.98	0.96	0.93						
811	WELDERS ELECTRIC POWER	1.05	1.01	1.00	0.98	0.96	0.94						

TABLE 3-3. EQUIPMENT AGE ADJUSTMENT FACTORS FOR STANDBY COSTS

The "Age Adjustment Factors for Standby Costs" in TABLE 3-3 are used when the age of a piece of equipment is other than the age of the equipment listed in TABLE 3-1. The factors given in TABLE 3-3 are multiplied by the hourly standby costs shown in TABLE 3-1 and result in a standby rate adjusted for the actual age of the equipment being considered. When the "life" of the equipment has exceeded the economic service life given in APPENDIX D, the age will be determined as given in paragraph 3-2.f.

Example: Assume that a two-year old 50-ton truck crane listed in TABLE 3-1 has an hourly standby rate of \$18.00 per hour. If an equivalent crane owned by a Contractor had been purchased new in 1981, the hourly standby rate can be determined as follows:

Hourly Standby Rate	= \$18.00/Hr.
Standby Adjusted for Age (Standby Rate) x (Age Adj. Factor) = (\$18.00) x (.89)	= \$16.02/Hr.

TABLE 3-3. EQUIPMENT AGE ADJUSTMENT FACTORS FOR STANDBY COSTS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
15	AGGREGATE SPREADERS	1.03	1.00	1.00	0.97	0.96	0.97	0.97	0.91					
30	AIR COMPRESSORS	1.03	1.00	1.00	0.97	0.98	0.96	0.96	0.90					
45	AIR TOOLS, SANDBLASTERS, ETC	1.04	1.00	1.00										
60	ASPHALT DISTRIBUTORS	1.03	1.00	1.00	0.97	0.96	0.97	0.97	0.91					
65	ASPHALT AND CONCRETE PAVERS	1.03	1.00	1.00	0.97	0.96	0.97	0.97	0.91					
70	ASPHALT KETTLES AND RECYCLERS BACKHOE (SEE KEY NO. 570-601)	1.04	1.01	1.00	0.98	0.97	0.97	0.95						
75	BROOMS	1.04	1.01	1.00	0.98	0.97	0.95	0.95	0.88					
80	BRUSH CHIPPERS	1.04	1.01	1.00	0.98	0.97	0.95	0.95	0.88					
90	BUCKETS, CLAMSHELL & DRAGLINE	1.05	1.02	1.00	0.98	0.96	0.98	0.98	0.93					
95	BUCKETS, CONCRETE	1.05	1.02	1.00	0.97	0.96	0.98	0.98	0.93					
105	CONCRETE OR GROUT PUMP	1.04	1.01	1.00	0.98	0.97	0.95							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.04	1.01	1.00	0.98	0.97	0.95							
125	CONCRETE FINISHERS, BLASTERS & BUGGIES	1.05	1.01	1.00	0.98	0.97								
130	CONCRETE SAWS	1.04	1.01	1.00	0.98	0.97	0.95							
135	CONCRETE VIBRATORS	1.04	1.00	1.00										
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	1.04	1.00	1.00	0.97	0.98								
150	0 THRU 25 TON	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74				
165	OVER 25 TON THRU 50 TON	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74	0.68	0.63		
170	OVER 50 TON THRU 150 TON	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.60	0.56
180	OVER 150 TON	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.61	0.56
	DRAGLINE & CLAMSHELL, CRAWLER													
185	0 THRU 1 CY	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74				
190	OVER 1 CY THRU 2-1/2 CY	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74	0.68	0.63		
195	OVER 2-1/2 CY THRU 5 CY	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.75	0.69	0.64	0.60	0.55
196	OVER 5 CY	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.61	0.56
200	CRANES, HYDRAULIC, SELF- PROPELLED	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74	0.68	0.64	0.60	
205	CRANES, TOWER	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.61	0.56
	CRANES & HYD. EXC., TRK MTD													
210	UNDER 26 T. (THRU 1 CY)	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74	0.68	0.63		
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.75	0.69	0.64	0.60	0.55
230	66 THRU 125 T	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.60	0.56
240	OVER 125 T	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.61	0.56
255	DRILL, AUGER	1.02	0.99	1.00	0.99	1.00	0.99	0.92						
270	DRILL, BLAST HOLE	1.02	0.99	1.00	0.99	1.00	0.99	0.92						
300	DRILL, CORE	1.02	0.99	1.00	0.99	1.00	0.99	0.92						
315	DRILL, ROTARY TO 11" DIA. HOLE	1.02	0.99	1.00	0.99	1.00	0.99	0.92	0.80	0.71	0.66	0.60		
330	DRILL, ROTARY OVER 11" DIA.	1.02	0.99	1.00	0.99	1.00	0.99	0.92	0.81	0.72	0.67	0.62	0.59	0.57
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.02	0.99	1.00	0.99	1.00	0.99	0.92	0.81	0.72	0.67	0.62	0.59	0.57
375	FORK LIFTS	1.04	1.01	1.00	0.98	0.97	0.95	0.88						
390	GRADERS	1.03	1.00	1.00	0.97	0.97	0.95	0.87	0.80	0.71				
420	GENERATORS	1.03	1.00	1.00	0.97	0.94	0.92							
435	HOIST HYD. EXCAVATOR (SEE KEY NO. 570-601)	1.04	1.01	1.00	0.98	0.97	0.95	0.88						
438	LAWN MOWERS	1.05	1.01	1.00										
440	LIGHT PLANTS	1.04	1.01	1.00	0.98	0.97	0.94							
450	LOADER, BELT	1.04	1.01	1.00	0.98	0.97	0.95	0.88						
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE, CRAWLER TYPE	1.03	1.00	1.00	1.01	1.01	0.97	0.89						
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.03	1.00	1.00	0.99	0.97	0.95	0.86						
470	OVER 225 HP	1.03	1.00	1.00	0.99	0.97	0.95	0.86	0.74	0.65				

TABLE 3-3. EQUIPMENT AGE ADJUSTMENT FACTORS FOR STANDBY COSTS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
475	LOADER, FRONT END WITH BACKHOE, WHEEL TYPE	1.03	1.00	1.00	0.99	0.97	0.95	0.95	0.86					
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.05	1.01	1.00	0.98	0.97								
485	PIPELAYERS PUMP, GROUT (SEE KEY NO. 105)	1.03	1.00	1.00	1.01	1.01	0.97	0.89	0.81	0.73				
495	PUMP, WATER, ENGINE DRIVE	1.04	1.01	1.00	0.98	0.97	0.95	0.95	0.88					
500	PUMP, WATER, ELECTRIC DRIVE	1.04	1.01	1.00	0.98	0.97	0.95	0.95	0.88					
510	RIPPERS	1.03	1.00	1.00	1.01	1.01	0.97							
525	ROLLERS, EXCEPT VIB. ROLLERS	1.05	1.02	1.00	0.96	0.91	0.83	0.78						
530	ROLLERS, VIBRATORY	1.06	1.02	1.00	0.96	0.91	0.83							
535	ROOFING EQUIPMENT	1.03	1.00	1.00	0.97	0.97								
540	SCRAPERS, STANDARD	1.03	1.00	1.00	0.97	0.97	0.95	0.87						
542	SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING	1.03	1.00	1.00	0.97	0.97	0.95	0.87						
545	0 THRU 200 HP	1.03	1.00	1.00	0.97	0.97	0.95	0.87						
550	OVER 200 HP	1.03	1.00	1.00	0.97	0.97	0.95	0.87						
555	SCRAPERS, TRACTOR DRAWN	1.03	1.00	1.00	0.97	0.97	0.95	0.87	0.80	0.72				
560	SOIL STABILIZERS SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED	1.03	1.00	1.00	0.97	0.97	0.95	0.87						
570	0 THRU 1 CY	1.07	1.03	1.00	0.98	0.96	0.94							
585	OVER 1 CY THRU 2-1/2 CY	1.07	1.03	1.00	0.98	0.97	0.94	0.88						
595	OVER 2-1/2 CY THRU 5 CY	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74				
600	OVER 5 CY	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.82	0.74	0.68			
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.07	1.02	1.00	0.98	0.97	0.95	0.89	0.83	0.75	0.69	0.64	0.60	0.56
615	0 THRU 225 HP	1.03	1.00	1.00	1.01	1.01	0.97	0.88						
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.03	1.00	1.00	1.01	1.01	0.97	0.89						
625	OVER 425 HP	1.03	1.00	1.00	1.01	1.01	0.97	0.89	0.81	0.73				
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.03	1.00	1.00	1.01	1.01	0.97	0.89						
645	TRACTOR, WHEEL TYPE	1.03	1.00	1.00	0.96	0.93	0.92	0.85						
650	TRENCHER	1.05	1.01	1.00	0.99	0.97	0.91	0.80						
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.04	1.01	1.00	0.98	0.97	0.95	0.88						
660	TRAILERS, FLATBED, LO-BOY AND TILT TRUCK ACCESSORIES FOR CHASSIS MOUNTING	1.04	1.01	1.00	0.98	0.97	0.95	0.88						
670	DUMP BODIES	1.04	1.01	1.00	0.98	0.97	0.95							
675	ALL OTHER ACCESSORIES TRUCK, HIGHWAY	1.04	1.01	1.00	0.98	0.97	0.95							
690	0 THRU 10,000 GW	1.13	1.05	1.00	0.97	0.93								
695	OVER 10,000 THRU 30,000 GW	1.13	1.05	1.00	0.97	0.93	0.89							
705	OVER 30,000 GW	1.13	1.05	1.00	0.97	0.93	0.89							
720	TRUCK, OFF-HIGHWAY	1.03	1.00	1.00	0.99	0.98	0.96	0.88	0.77	0.67				
765	WAGON, BOTTOM & REAR DUMP	1.03	1.00	1.00	0.99	0.98	0.96	0.88	0.77	0.67				
780	WAGON, WATER	1.03	1.00	1.00	0.99	0.98	0.96	0.88	0.77	0.67				
785	WATER BLASTER	1.05	1.01	1.00	0.98	0.97								
795	WATER TANKS	1.04	1.01	1.00	0.98	0.97	0.95	0.88	0.80	0.70				
810	WELDERS	1.05	1.01	1.00	0.98	0.97	0.94							
811	WELDERS ELECTRIC POWER	1.04	1.01	1.00	0.98	0.97	0.94							

EP 1110-1-8
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EQUIPMENT RATE CALCULATIONS FOR USE WITH EP 1110-1-8							DATE	SHT OF
PROJECT	LOCATION					EFFECTIVE PERIOD		
						ESTIMATOR	CHECKED BY	
SPECIAL INFORMATION STANDBY								
EQUIPMENT	UNIT NO.	YEAR PURCHASE	KEY NO.	STANDBY RATE 3-1	AGE FACTOR 3-3	ADJUSTED RATE (e x f)	NUMBER ON SITE (h)	TOTAL COSTS (g x h) (i)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
TOTAL STANDBY COSTS / HOUR								

TABLE 3-4. SHIFT ADJUSTMENT FACTORS FOR OWNERSHIP COSTS

The "Shift Adjustment Factors" in TABLE 3-4 are used when the working hours per week are greater than 40 hours per week. The factors given in TABLE 3-4 are multiplied by the adjusted hourly ownership cost (if adjusted for age) and result in an ownership rate adjusted for working hours other than 40 hours per week.

Example: Assume that the truck crane in Example A of TABLE 3-2 is to be worked 10 hours per day, 6 days per week. The total hourly rate for this piece of equipment (Service Life = 18,000 Hrs.) can be determined as follows:

Total Hourly Rate (adjusted for age)	= \$51.40/Hr.
Ownership Rate (adjusted for age)	(-) \$26.40/Hr.
Ownership Adjusted for Work Hours (Ownership Rate) x (Work Hr Adj. Factor)	
= (\$26.40) x (.88)	= (+) \$23.23/Hr.
Adjusted Total Hourly Rate	= \$48.23/Hr.

TABLE 3-4. SHIFT ADJUSTMENT FACTORS FOR OWNERSHIP COSTS (CONTINUED)

Service Life From APP. D	Equipment Usage - Hours per Week												
	40	45	48	54	60	66	72	80	90	100	110	120	140
4,000	1.00	0.98	0.98	0.96	0.95	0.95	0.94	0.93	0.92	0.92	0.91	0.91	0.90
6,000	1.00	0.98	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87
8,000	1.00	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
9,000	1.00	0.97	0.96	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83
10,000	1.00	0.97	0.96	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82
11,000	1.00	0.97	0.95	0.93	0.91	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.80
12,000	1.00	0.97	0.95	0.92	0.90	0.89	0.87	0.85	0.84	0.83	0.82	0.81	0.79
13,000	1.00	0.97	0.95	0.92	0.90	0.88	0.86	0.85	0.83	0.82	0.81	0.80	0.78
14,000	1.00	0.96	0.95	0.92	0.89	0.87	0.86	0.84	0.82	0.81	0.80	0.79	0.77
15,000	1.00	0.96	0.94	0.91	0.89	0.87	0.85	0.83	0.81	0.80	0.79	0.78	0.76
16,000	1.00	0.96	0.94	0.91	0.88	0.86	0.85	0.83	0.81	0.79	0.78	0.77	0.75
18,000	1.00	0.96	0.94	0.90	0.88	0.85	0.83	0.81	0.79	0.78	0.76	0.75	0.73
20,000	1.00	0.96	0.93	0.90	0.87	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.72
22,000	1.00	0.95	0.93	0.89	0.86	0.83	0.81	0.79	0.77	0.75	0.73	0.72	0.70
50,000	1.00	0.93	0.90	0.84	0.79	0.76	0.73	0.69	0.66	0.63	0.61	0.59	0.56

TABLE 3-5. HOURLY RATE ELEMENT

UNIT NO	AVERAGE CONDITIONS						SEVERE CONDITIONS						TOTAL RATE
	DEPR	CPC	FUEL	FOG	TIRE WEAR	RPR	DEPR	CPC	FUEL	FOG	TIRE WEAR	RPR	
1015	4.54	1.63	7.32	1.76	0.23	0.03	4.26		19.77				
1020	5.08	1.82	2.60	0.62	0.23	0.03	4.78		15.16				
1030	4.71	1.69	5.45	1.31	0.23	0.03	4.43		17.85				
1035	4.77	1.71	5.45	1.31	0.23	0.03	4.48		17.98				
1050	0.84	0.33	2.57	0.82	0.02	0.00	0.85		5.43				
1055	1.01	0.40	0.78	0.22	0.02	0.00	1.02		3.45				
1060	1.03	0.40	3.60	1.15	0.02	0.00	1.04		7.24				
1065	1.10	0.43	1.20	0.34	0.02	0.00	1.10		4.19				
1070	1.13	0.44	3.60	1.15	0.02	0.00	1.13		7.47				
1075	1.28	0.50	1.27	0.36	0.02	0.00	1.29		4.72				
1080	1.16	0.46	3.60	1.15	0.02	0.00	1.17		7.56				
1085	1.37	0.54	1.63	0.46	0.02	0.00	1.38		5.40				
1090	1.61	0.63	2.07	0.58	0.03	0.00	1.62		6.54				
1095	2.49	0.99	2.87	0.80	0.15	0.02	2.51		9.83				
1100	3.24	1.29	3.58	1.00	0.15	0.02	3.27		12.55				
1105	3.90	1.54	4.43	1.24	0.17	0.03	3.93		15.24				
1110	4.54	1.79	5.37	1.50	0.17	0.03	4.57		17.97				
1115	5.17	2.04	6.13	1.72	0.17	0.03	5.21		20.47				
1120	5.68	2.23	6.36	1.78	0.17	0.03	5.72		21.97				
1125	5.52	2.17	6.93	1.94	0.17	0.03	5.56		22.32				
1130	7.62	2.99	9.42	2.64	0.17	0.03	7.67		30.54				
1135	8.61	3.38	10.74	3.01	0.21	0.03	8.66		34.64				
1150	0.31	0.05	0.00	0.06	0.00	0.00	0.62		1.04				
1155	0.56	0.09	0.00	0.06	0.00	0.00	1.12		1.83				
1160	0.56	0.09	0.00	0.06	0.00	0.00	1.13		1.84				
1165	0.62	0.10	0.00	0.13	0.00	0.00	1.24		2.09				
1170	0.84	0.13	0.00	0.13	0.00	0.00	1.68		2.78				
1175	2.36	0.38	0.00	0.28	0.05	0.01	4.77		7.85				
1180	2.80	0.47	0.00	0.41	0.14	0.02	5.70		9.54				
1185	3.46	0.58	0.00	0.51	0.14	0.02	7.02		11.73				
1195	0.19	0.03	0.00	0.06	0.00	0.00	0.37		0.65				
1200	0.41	0.06	0.00	0.11	0.00	0.00	0.82		1.40				
1205	0.19	0.03	0.00	0.06	0.00	0.00	0.38		0.66				
1210	0.20	0.03	0.00	0.06	0.00	0.00	0.41		0.70				
1215	0.22	0.04	0.00	0.06	0.00	0.00	0.45		0.77				
1220	0.75	0.12	0.00	0.13	0.00	0.00	1.51		2.51				
1230	0.40	0.06	0.00	0.15	0.00	0.00	1.35		1.96				
1235	0.26	0.04	0.00	0.13	0.00	0.00	0.87		1.30				
1240	0.23	0.04	0.00	0.10	0.00	0.00	0.78		1.15				
1245	0.21	0.03	0.00	0.08	0.00	0.00	0.70		1.02				
1250	0.16	0.03	0.00	0.06	0.00	0.00	0.55		0.80				
1265	2.55	0.89	2.32	0.74	0.00	0.00	2.90		9.40				
1270	2.61	0.92	2.32	0.74	0.00	0.00	2.97		9.56				
1275	2.80	0.98	2.32	0.74	0.00	0.00	3.18		10.02				
1280	3.14	1.10	2.32	0.74	0.00	0.00	3.57		10.87				
1295	7.23	2.59	1.65	0.46	0.37	0.06	8.74		21.10				
1300	11.91	4.29	2.24	0.63	0.81	0.12	14.41		34.41				
1305	13.44	4.82	3.06	0.86	0.81	0.12	16.25		39.36				
1310	16.28	5.70	3.06	0.86	0.00	0.00	19.58		45.48				
1320	3.87	1.41	0.71	0.20	0.35	0.05	4.70		11.29				
1325	6.53	2.34	1.04	0.29	0.35	0.05	7.89		18.49				
1330	8.70	3.12	1.32	0.37	0.52	0.08	10.52		24.63				
1335	10.47	3.78	2.24	0.63	0.81	0.12	12.67		30.72				
1340	12.44	4.50	2.17	0.61	0.99	0.15	15.06		35.92				
1345	16.15	5.85	3.49	0.98	1.38	0.21	19.57		47.63				

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
1350	11.93	4.17	2.12	0.59	0.00	0.00	14.35	33.16								
1355	14.35	5.02	2.94	0.82	0.00	0.00	17.26	40.39								
1370	0.39	0.12	0.00	1.02	0.02	0.00	0.43	1.98								
1375	0.47	0.14	0.00	1.13	0.02	0.00	0.51	2.27								
1385	0.27	0.08	0.00	0.89	0.02	0.00	0.29	1.55								
1390	0.31	0.09	0.00	1.14	0.03	0.00	0.34	1.91								
1405	0.89	0.26	0.36	1.71	0.03	0.00	0.96	4.21								
1420	0.52	0.19	0.00	0.24	0.02	0.00	0.57	1.54								
1425	0.68	0.24	1.54	0.37	0.02	0.00	0.74	3.59								
1430	0.26	0.09	0.00	0.10	0.00	0.00	0.28	0.73								
1435	0.47	0.16	0.00	0.14	0.00	0.00	0.51	1.28								
1450	0.31	0.11	0.39	0.13	0.02	0.00	0.38	1.34								
1455	0.37	0.13	0.65	0.21	0.02	0.00	0.46	1.84								
1460	0.80	0.28	2.15	0.69	0.02	0.00	0.98	4.92								
1465	1.01	0.36	1.27	0.36	0.02	0.00	1.24	4.26								
1475	0.95	0.33	5.38	1.72	0.00	0.00	1.16	9.54								
1480	1.02	0.37	5.38	1.72	0.04	0.01	1.25	9.79								
1495	0.99	0.32	0.00	0.00	0.00	0.00	0.89	2.20	1.24	0.33	0.00	0.00	0.00	0.00	1.28	2.85
1500	1.07	0.34	0.00	0.00	0.00	0.00	0.96	2.37	1.33	0.35	0.00	0.00	0.00	0.00	1.37	3.05
1505	1.53	0.49	0.00	0.00	0.00	0.00	1.38	3.40	1.91	0.50	0.00	0.00	0.00	0.00	1.97	4.38
1510	1.77	0.57	0.00	0.00	0.00	0.00	1.60	3.94	2.22	0.58	0.00	0.00	0.00	0.00	2.28	5.08
1515	2.31	0.74	0.00	0.00	0.00	0.00	2.08	5.13	2.89	0.76	0.00	0.00	0.00	0.00	2.97	6.62
1520	2.45	0.78	0.00	0.00	0.00	0.00	2.21	5.44	3.06	0.80	0.00	0.00	0.00	0.00	3.15	7.01
1525	2.65	0.85	0.00	0.00	0.00	0.00	2.38	5.88	3.31	0.87	0.00	0.00	0.00	0.00	3.41	7.59
1530	2.92	0.93	0.00	0.00	0.00	0.00	2.63	6.48	3.65	0.95	0.00	0.00	0.00	0.00	3.75	8.35
1535	3.15	1.01	0.00	0.00	0.00	0.00	2.84	7.00	3.94	1.03	0.00	0.00	0.00	0.00	4.06	9.03
1540	3.35	1.07	0.00	0.00	0.00	0.00	3.02	7.44	4.19	1.10	0.00	0.00	0.00	0.00	4.31	9.60
1545	3.69	1.18	0.00	0.00	0.00	0.00	3.32	8.19	4.61	1.21	0.00	0.00	0.00	0.00	4.75	10.57
1550	3.83	1.23	0.00	0.00	0.00	0.00	3.45	8.51	4.79	1.25	0.00	0.00	0.00	0.00	4.93	10.97
1555	4.04	1.29	0.00	0.00	0.00	0.00	3.63	8.96	5.04	1.32	0.00	0.00	0.00	0.00	5.19	11.55
1560	4.23	1.35	0.00	0.00	0.00	0.00	3.81	9.39	5.29	1.39	0.00	0.00	0.00	0.00	5.45	12.13
1565	4.39	1.40	0.00	0.00	0.00	0.00	3.96	9.75	5.49	1.44	0.00	0.00	0.00	0.00	5.65	12.58
1575	1.29	0.41	0.00	0.00	0.00	0.00	1.17	2.87	1.62	0.42	0.00	0.00	0.00	0.00	1.66	3.70
1580	1.29	0.41	0.00	0.00	0.00	0.00	1.17	2.87	1.62	0.42	0.00	0.00	0.00	0.00	1.67	3.71
1585	1.88	0.60	0.00	0.00	0.00	0.00	1.70	4.18	2.35	0.62	0.00	0.00	0.00	0.00	2.42	5.39
1590	2.03	0.65	0.00	0.00	0.00	0.00	1.83	4.51	2.54	0.66	0.00	0.00	0.00	0.00	2.61	5.81
1595	2.58	0.82	0.00	0.00	0.00	0.00	2.32	5.72	3.22	0.84	0.00	0.00	0.00	0.00	3.32	7.38
1600	2.82	0.90	0.00	0.00	0.00	0.00	2.54	6.26	3.53	0.92	0.00	0.00	0.00	0.00	3.63	8.08
1605	3.22	1.03	0.00	0.00	0.00	0.00	2.90	7.15	4.02	1.05	0.00	0.00	0.00	0.00	4.14	9.21
1610	3.46	1.11	0.00	0.00	0.00	0.00	3.12	7.69	4.33	1.13	0.00	0.00	0.00	0.00	4.45	9.91
1615	3.72	1.19	0.00	0.00	0.00	0.00	3.35	8.26	4.65	1.22	0.00	0.00	0.00	0.00	4.78	10.65
1620	4.07	1.30	0.00	0.00	0.00	0.00	3.67	9.04	5.09	1.33	0.00	0.00	0.00	0.00	5.24	11.66
1625	4.29	1.37	0.00	0.00	0.00	0.00	3.87	9.53	5.36	1.40	0.00	0.00	0.00	0.00	5.52	12.28
1630	4.50	1.44	0.00	0.00	0.00	0.00	4.05	9.99	5.63	1.47	0.00	0.00	0.00	0.00	5.79	12.89
1635	4.74	1.51	0.00	0.00	0.00	0.00	4.27	10.52	5.92	1.55	0.00	0.00	0.00	0.00	6.10	13.57
1640	4.94	1.58	0.00	0.00	0.00	0.00	4.45	10.97	6.17	1.62	0.00	0.00	0.00	0.00	6.35	14.14
1645	5.14	1.64	0.00	0.00	0.00	0.00	4.62	11.40	6.42	1.68	0.00	0.00	0.00	0.00	6.61	14.71
1655	1.46	0.47	0.00	0.00	0.00	0.00	1.31	3.24	1.82	0.48	0.00	0.00	0.00	0.00	1.88	4.18
1660	1.49	0.48	0.00	0.00	0.00	0.00	1.34	3.31	1.86	0.49	0.00	0.00	0.00	0.00	1.91	4.26
1665	2.14	0.68	0.00	0.00	0.00	0.00	1.93	4.75	2.68	0.70	0.00	0.00	0.00	0.00	2.75	6.13
1670	2.61	0.83	0.00	0.00	0.00	0.00	2.35	5.79	3.26	0.85	0.00	0.00	0.00	0.00	3.36	7.47
1675	3.00	0.96	0.00	0.00	0.00	0.00	2.71	6.67	3.76	0.98	0.00	0.00	0.00	0.00	3.86	8.60
1680	3.25	1.04	0.00	0.00	0.00	0.00	2.93	7.22	4.07	1.06	0.00	0.00	0.00	0.00	4.19	9.32
1685	3.59	1.15	0.00	0.00	0.00	0.00	3.23	7.97	4.48	1.17	0.00	0.00	0.00	0.00	4.61	10.26
1690	3.85	1.23	0.00	0.00	0.00	0.00	3.47	8.55	4.82	1.26	0.00	0.00	0.00	0.00	4.96	11.04

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS						SEVERE CONDITIONS						TOTAL RATE		
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR			
1695	3.95	1.26	0.00	0.00	0.00	0.00	3.56	8.77	4.94	1.29	0.00	0.00	0.00	5.08	11.31
1700	4.27	1.36	0.00	0.00	0.00	0.00	3.84	9.47	5.33	1.40	0.00	0.00	0.00	5.49	12.22
1705	4.52	1.44	0.00	0.00	0.00	0.00	4.07	10.03	5.65	1.48	0.00	0.00	0.00	5.81	12.94
1710	4.75	1.52	0.00	0.00	0.00	0.00	4.28	10.55	5.94	1.56	0.00	0.00	0.00	6.11	13.61
1715	5.05	1.61	0.00	0.00	0.00	0.00	4.55	11.21	6.31	1.65	0.00	0.00	0.00	6.50	14.46
1720	5.24	1.67	0.00	0.00	0.00	0.00	4.72	11.63	6.55	1.71	0.00	0.00	0.00	6.74	15.00
1725	5.49	1.75	0.00	0.00	0.00	0.00	4.94	12.18	6.86	1.80	0.00	0.00	0.00	7.06	15.72
1740	0.25	0.09	0.00	0.00	0.00	0.00	0.24	0.58							
1745	0.27	0.09	0.00	0.00	0.00	0.00	0.26	0.62							
1750	0.27	0.10	0.00	0.00	0.00	0.00	0.26	0.63							
1755	0.29	0.10	0.00	0.00	0.00	0.00	0.28	0.67							
1760	0.33	0.12	0.00	0.00	0.00	0.00	0.31	0.76							
1765	0.41	0.15	0.00	0.00	0.00	0.00	0.40	0.96							
1770	0.49	0.17	0.00	0.00	0.00	0.00	0.47	1.13							
1775	0.56	0.20	0.00	0.00	0.00	0.00	0.54	1.30							
1785	0.13	0.04	0.00	0.00	0.00	0.00	0.12	0.29							
1790	0.16	0.06	0.00	0.00	0.00	0.00	0.15	0.37							
1795	0.20	0.07	0.00	0.00	0.00	0.00	0.20	0.47							
1800	0.29	0.10	0.00	0.00	0.00	0.00	0.28	0.67							
1805	0.36	0.13	0.00	0.00	0.00	0.00	0.35	0.84							
1815	0.52	0.18	0.00	0.00	0.00	0.00	0.50	1.20							
1820	0.54	0.19	0.00	0.00	0.00	0.00	0.52	1.25							
1825	0.56	0.20	0.00	0.00	0.00	0.00	0.54	1.30							
1830	0.74	0.26	0.00	0.00	0.00	0.00	0.71	1.71							
1835	0.77	0.27	0.00	0.00	0.00	0.00	0.74	1.78							
1840	1.11	0.39	0.00	0.00	0.00	0.00	1.07	2.57							
1845	1.33	0.47	0.00	0.00	0.00	0.00	1.28	3.08							
1855	0.59	0.21	0.00	0.00	0.00	0.00	0.57	1.37							
1860	0.66	0.23	0.00	0.00	0.00	0.00	0.63	1.52							
1865	0.76	0.27	0.00	0.00	0.00	0.00	0.73	1.76							
1870	0.85	0.30	0.00	0.00	0.00	0.00	0.82	1.97							
1875	1.00	0.35	0.00	0.00	0.00	0.00	0.96	2.31							
1890	0.30	0.10	0.00	0.00	0.00	0.00	0.27	0.67	0.37	0.10	0.00	0.00	0.00	0.38	0.85
1895	0.35	0.11	0.00	0.00	0.00	0.00	0.32	0.78	0.44	0.12	0.00	0.00	0.00	0.46	1.02
1900	0.43	0.14	0.00	0.00	0.00	0.00	0.39	0.96	0.54	0.14	0.00	0.00	0.00	0.56	1.24
1905	0.51	0.16	0.00	0.00	0.00	0.00	0.46	1.13	0.64	0.17	0.00	0.00	0.00	0.66	1.47
1910	0.60	0.19	0.00	0.00	0.00	0.00	0.54	1.33	0.75	0.20	0.00	0.00	0.00	0.77	1.72
1915	0.74	0.24	0.00	0.00	0.00	0.00	0.67	1.65	0.92	0.24	0.00	0.00	0.00	0.95	2.11
1920	0.82	0.26	0.00	0.00	0.00	0.00	0.74	1.82	1.02	0.27	0.00	0.00	0.00	1.05	2.34
1925	1.00	0.32	0.00	0.00	0.00	0.00	0.90	2.22	1.25	0.33	0.00	0.00	0.00	1.28	2.86
1930	1.06	0.34	0.00	0.00	0.00	0.00	0.95	2.35	1.32	0.35	0.00	0.00	0.00	1.36	3.03
1935	1.28	0.41	0.00	0.00	0.00	0.00	1.15	2.84	1.60	0.42	0.00	0.00	0.00	1.64	3.66
1940	1.38	0.44	0.00	0.00	0.00	0.00	1.25	3.07	1.73	0.45	0.00	0.00	0.00	1.78	3.96
1945	1.51	0.48	0.00	0.00	0.00	0.00	1.36	3.35	1.89	0.50	0.00	0.00	0.00	1.95	4.34
1950	1.68	0.54	0.00	0.00	0.00	0.00	1.51	3.73	2.10	0.55	0.00	0.00	0.00	2.16	4.81
1955	1.94	0.62	0.00	0.00	0.00	0.00	1.74	4.30	2.42	0.63	0.00	0.00	0.00	2.49	5.54
1960	2.11	0.67	0.00	0.00	0.00	0.00	1.90	4.68	2.63	0.69	0.00	0.00	0.00	2.71	6.03
1965	2.59	0.83	0.00	0.00	0.00	0.00	2.33	5.75	3.24	0.85	0.00	0.00	0.00	3.33	7.42
1970	2.98	0.95	0.00	0.00	0.00	0.00	2.68	6.61	3.72	0.97	0.00	0.00	0.00	3.83	8.52
1980	0.35	0.11	0.00	0.00	0.00	0.00	0.31	0.77	0.43	0.11	0.00	0.00	0.00	0.45	0.99
1985	0.43	0.14	0.00	0.00	0.00	0.00	0.39	0.96	0.53	0.14	0.00	0.00	0.00	0.55	1.22
1990	0.53	0.17	0.00	0.00	0.00	0.00	0.47	1.17	0.66	0.17	0.00	0.00	0.00	0.68	1.51
1995	0.63	0.20	0.00	0.00	0.00	0.00	0.57	1.40	0.79	0.21	0.00	0.00	0.00	0.81	1.81
2000	0.72	0.23	0.00	0.00	0.00	0.00	0.65	1.60	0.91	0.24	0.00	0.00	0.00	0.93	2.08
2005	0.87	0.28	0.00	0.00	0.00	0.00	0.78	1.93	1.08	0.28	0.00	0.00	0.00	1.11	2.47

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CPC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CPC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
2305	0.47	0.10	0.64	0.15	0.00	0.00	0.75	2.11								
2310	0.49	0.11	0.23	0.06	0.00	0.00	0.79	1.68								
2315	1.66	0.37	0.36	0.09	0.00	0.00	2.67	5.15								
2320	1.52	0.34	0.26	0.06	0.00	0.00	2.44	4.62								
2325	1.71	0.38	0.26	0.06	0.00	0.00	2.74	5.15								
2340	7.70	1.72	1.04	0.29	0.00	0.00	8.35	19.10								
2355	0.24	0.05	0.28	0.09	0.00	0.00	0.26	0.92								
2365	0.61	0.14	0.44	0.14	0.00	0.00	0.66	1.99								
2380	0.20	0.04	0.39	0.12	0.00	0.00	0.21	0.96								
2385	0.78	0.17	0.89	0.28	0.00	0.00	0.84	2.96								
2390	1.00	0.22	0.89	0.28	0.00	0.00	1.09	3.48								
2400	0.07	0.02	0.06	0.03	0.02	0.00	0.08	0.28								
2405	0.14	0.03	0.25	0.13	0.02	0.00	0.15	0.72								
2410	0.08	0.02	0.06	0.03	0.02	0.00	0.09	0.30								
2415	0.28	0.07	0.38	0.19	0.02	0.00	0.30	1.24								
2420	0.29	0.07	0.39	0.12	0.02	0.00	0.31	1.20								
2425	0.21	0.05	0.39	0.12	0.02	0.00	0.23	1.02								
2440	10.97	3.84	3.35	0.94	0.00	0.00	13.20	32.30								
2445	20.88	7.31	4.90	1.37	0.00	0.00	25.11	59.57								
2450	37.01	12.95	5.89	1.65	0.00	0.00	44.52	102.02								
2455	42.63	14.92	9.42	2.64	0.00	0.00	51.27	120.88								
2465	2.19	0.77	3.35	1.07	0.04	0.01	2.64	10.07								
2470	10.18	3.56	2.36	0.66	0.00	0.00	12.24	29.00								
2485	2.63	0.70	0.42	0.12	0.07	0.01	3.02	6.97								
2490	3.01	0.80	0.69	0.19	0.07	0.01	3.45	8.22								
2495	0.86	0.23	0.00	0.19	0.04	0.01	0.99	2.32								
2500	1.70	0.45	0.00	0.31	0.04	0.01	1.95	4.46								
2510	4.78	1.25	2.15	0.60	0.02	0.00	5.47	14.27								
2525	5.88	1.54	3.82	1.07	0.02	0.00	6.73	19.06								
2530	15.41	4.06	9.17	2.57	0.27	0.04	17.67	49.19								
2540	4.84	1.27	2.33	0.65	0.02	0.00	5.55	14.66								
2545	7.51	1.99	5.28	1.48	0.15	0.02	8.61	25.04								
2550	7.72	2.04	5.28	1.48	0.15	0.02	8.85	25.54								
2555	10.30	2.70	6.15	1.72	0.07	0.01	11.80	32.75								
2560	13.24	3.47	10.42	2.92	0.07	0.01	15.17	45.30								
2565	15.73	4.19	7.64	2.14	0.66	0.10	18.06	48.52								
2570	22.75	6.03	7.64	2.14	0.68	0.10	26.10	65.44								
2575	27.90	7.40	10.44	2.92	0.93	0.14	32.02	81.75								
2590	0.17	0.05	0.57	0.18	0.00	0.00	0.20	1.17								
2595	0.21	0.06	0.85	0.27	0.00	0.00	0.25	1.64								
2600	0.21	0.06	0.99	0.32	0.00	0.00	0.25	1.83								
2605	0.46	0.13	0.99	0.32	0.00	0.00	0.56	2.46								
2610	0.58	0.17	1.28	0.41	0.00	0.00	0.71	3.15								
2615	0.66	0.19	2.13	0.68	0.00	0.00	0.81	4.47								
2620	0.97	0.28	2.48	0.79	0.00	0.00	1.18	5.70								
2625	1.30	0.37	4.61	1.48	0.00	0.00	1.59	9.35								
2635	1.07	0.31	0.71	0.23	0.00	0.00	1.30	3.62								
2640	1.18	0.34	2.48	0.79	0.00	0.00	1.44	6.23								
2645	0.12	0.04	0.57	0.18	0.00	0.00	0.15	1.06								
2650	0.19	0.05	0.78	0.25	0.00	0.00	0.23	1.50								
2655	0.20	0.06	0.35	0.11	0.00	0.00	0.24	0.96								
2660	0.58	0.17	1.28	0.41	0.00	0.00	0.71	3.15								
2665	0.77	0.22	2.48	0.79	0.00	0.00	0.94	5.20								
2670	1.30	0.37	4.61	1.48	0.00	0.00	1.58	9.34								
2690	15.90	7.42	2.12	0.42	0.00	0.00	16.70	42.56	18.35	7.49	2.69	0.54	0.00	0.00	21.67	50.74

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CPC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
3195	9.32	3.54	1.73	0.55	0.00	0.00	8.56	23.70	11.19	3.59	2.19	0.70	0.00	0.00	11.74	29.41
3200	8.71	3.56	1.38	0.44	0.00	0.00	6.28	20.37	10.29	3.60	1.79	0.57	0.00	0.00	8.10	24.35
3215	16.67	7.78	2.42	0.48	0.00	0.00	17.50	44.85	19.23	7.86	3.06	0.61	0.00	0.00	22.72	53.48
3220	13.96	8.59	1.93	0.43	0.00	0.00	14.67	39.58	15.70	8.64	2.50	0.55	0.00	0.00	17.61	45.00
3235	21.61	11.97	3.50	0.77	0.00	0.00	25.52	63.37	24.31	12.05	4.43	0.97	0.00	0.00	31.91	73.67
3240	22.48	13.83	2.80	0.62	0.00	0.00	23.63	63.36	25.29	13.91	3.61	0.79	0.00	0.00	28.36	71.96
3250	23.22	12.86	4.84	1.06	0.00	0.00	27.42	69.40	26.12	12.95	6.13	1.35	0.00	0.00	34.28	80.83
3255	22.95	14.12	3.87	0.85	0.00	0.00	24.13	65.92	25.81	14.20	5.00	1.10	0.00	0.00	28.95	75.06
3265	30.20	16.72	4.84	1.06	0.00	0.00	35.67	88.49	33.97	16.84	6.13	1.35	0.00	0.00	44.59	102.88
3270	27.90	18.98	3.87	0.93	0.00	0.00	33.24	84.92	31.00	19.07	5.00	1.20	0.00	0.00	39.11	95.38
3280	39.92	27.16	4.88	1.17	0.00	0.00	47.57	120.70	44.36	27.29	6.30	1.51	0.00	0.00	55.97	135.43
3295	2.67	1.35	1.51	0.45	0.20	0.03	2.46	8.67								
3300	3.42	1.73	2.29	0.69	0.26	0.04	3.15	11.58								
3310	5.82	3.01	3.06	0.92	0.94	0.14	5.39	19.28								
3315	6.20	3.19	2.71	0.81	0.94	0.14	5.73	19.72								
3320	6.96	3.61	2.71	0.81	1.23	0.18	6.45	21.95								
3325	7.38	3.82	2.71	0.81	1.23	0.18	6.83	22.96								
3330	7.64	3.95	2.71	0.81	1.27	0.19	7.07	23.64								
3335	10.20	5.26	3.68	1.10	1.12	0.17	9.43	30.96								
3340	10.53	5.46	3.68	1.10	1.86	0.28	9.74	32.65								
3345	10.84	5.62	3.77	1.13	1.86	0.28	10.04	33.54								
3350	14.01	7.29	4.66	1.40	2.71	0.41	12.97	43.45								
3355	16.60	8.69	4.66	1.40	3.56	0.53	15.38	50.82								
3360	20.57	10.69	4.90	1.47	3.83	0.58	19.05	61.09								
3365	26.71	13.97	6.60	1.98	5.64	0.85	24.76	80.51								
3370	49.84	26.06	12.06	3.62	10.47	1.57	46.20	149.82								
3380	6.04	3.11	2.69	0.81	0.88	0.13	5.58	19.24								
3385	6.91	3.54	2.85	0.86	0.88	0.13	6.39	21.56								
3390	7.23	3.70	2.85	0.86	0.94	0.14	6.68	22.40								
3395	7.48	3.86	2.85	0.86	1.22	0.18	6.92	23.37								
3400	7.97	4.11	2.85	0.86	1.22	0.18	7.37	24.56								
3405	8.22	4.23	2.85	0.86	1.22	0.18	7.60	25.16								
3410	9.88	5.12	4.24	1.27	1.73	0.26	9.15	31.65								
3420	7.05	3.62	3.02	0.90	0.95	0.14	6.51	22.19								
3425	7.13	3.66	3.02	0.90	0.95	0.14	6.58	22.38								
3430	7.58	3.88	3.02	0.90	0.95	0.14	7.00	23.47								
3435	7.61	3.90	3.02	0.90	0.95	0.14	7.03	23.55								
3440	9.41	4.82	3.65	1.10	1.22	0.18	8.69	29.07								
3445	9.69	4.96	3.65	1.10	1.22	0.18	8.95	29.75								
3450	10.03	5.13	3.65	1.10	1.22	0.18	9.26	30.57								
3455	13.24	6.91	4.76	1.43	2.71	0.41	12.27	41.73								
3460	13.64	7.15	4.76	1.43	3.03	0.45	12.65	43.11								
3465	14.17	7.42	4.76	1.43	3.03	0.45	13.14	44.40								
3470	18.13	9.48	5.54	1.66	3.83	0.58	16.81	56.03								
3480	5.21	2.64	2.78	0.83	0.45	0.07	4.80	16.78								
3485	5.37	2.73	2.78	0.83	0.55	0.08	4.95	17.29								
3490	5.60	2.85	2.78	0.83	0.55	0.08	5.16	17.85								
3495	6.40	3.30	2.78	0.83	0.95	0.14	5.92	20.32								
3500	7.05	3.62	4.15	1.24	0.95	0.14	6.51	23.66								
3505	11.50	6.05	4.15	1.24	2.71	0.41	10.67	36.73								
3510	14.35	7.47	4.43	1.33	2.71	0.41	13.29	43.99								
3515	16.01	8.43	4.99	1.50	3.83	0.58	14.86	50.20								
3530	9.78	5.52	4.31	1.12	0.67	0.10	7.72	29.22	11.00	5.56	5.67	1.47	0.82	0.12	9.41	34.05
3535	11.82	6.71	4.83	1.26	1.06	0.16	9.35	35.19	13.30	6.76	6.35	1.65	1.30	0.19	11.39	40.94
3540	13.73	7.77	5.02	1.30	1.08	0.16	10.85	39.91	15.45	7.83	6.60	1.72	1.32	0.20	13.23	46.35

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE
3920	0.61	0.42	0.00	0.00	0.00	0.00	0.74	1.77							
3925	3.80	2.61	0.00	0.00	0.00	0.00	4.58	10.99							
3940	5.35	1.86	0.00	0.80	0.00	0.00	6.33	14.34							
3945	5.65	1.97	0.00	0.80	0.00	0.00	6.70	15.12							
3950	5.88	2.05	0.00	0.80	0.00	0.00	6.96	15.69							
3955	6.66	2.32	0.00	0.85	0.00	0.00	7.89	17.72							
3960	6.97	2.43	0.00	0.85	0.00	0.00	8.26	18.51							
3965	7.19	2.51	0.00	0.85	0.00	0.00	8.52	19.07							
3970	17.62	6.14	6.50	3.32	0.00	0.00	20.88	54.46							
3975	13.08	4.56	5.40	3.93	0.00	0.00	15.50	42.47							
3985	6.34	2.21	0.00	0.80	0.00	0.00	7.52	16.87							
3990	6.92	2.41	0.00	0.85	0.00	0.00	8.20	18.38							
3995	9.54	3.32	2.91	0.70	0.00	0.00	11.31	27.78							
4005	3.63	1.27	0.00	0.50	0.00	0.00	4.31	9.71							
4010	5.55	1.93	0.00	0.81	0.00	0.00	6.57	14.86							
4015	6.52	2.27	0.00	0.81	0.00	0.00	7.73	17.33							
4020	8.06	2.81	0.00	0.91	0.00	0.00	9.55	21.33							
4025	17.40	6.06	4.81	1.15	0.00	0.00	20.61	50.03							
4040	0.16	0.06	0.07	0.23	0.00	0.00	0.19	0.71							
4045	0.20	0.07	0.14	0.31	0.00	0.00	0.24	0.96							
4050	0.32	0.11	0.22	0.40	0.00	0.00	0.38	1.43							
4055	0.74	0.26	0.79	1.37	0.00	0.00	0.88	4.04							
4065	0.27	0.09	0.22	0.30	0.00	0.00	0.32	1.20							
4070	0.29	0.10	0.00	0.41	0.00	0.00	0.34	1.14							
4085	2.84	0.99	1.28	0.31	0.00	0.00	3.37	8.79							
4090	1.97	0.69	0.58	0.14	0.00	0.00	2.34	5.72							
4095	3.40	1.18	1.40	0.34	0.00	0.00	4.02	10.34							
4110	1.43	0.50	1.14	0.18	0.00	0.00	1.70	4.95							
4115	2.22	0.77	1.43	0.34	0.00	0.00	2.63	7.39							
4130	8.89	4.51	3.82	1.45	0.00	0.00	10.53	29.20							
4135	12.29	6.24	7.28	2.77	0.00	0.00	14.57	43.15							
4140	19.37	9.83	9.47	3.60	0.00	0.00	22.95	65.22							
4145	29.10	19.39	39.44	19.72	0.00	0.00	17.24	124.89							
4150	35.89	23.92	43.09	21.55	0.00	0.00	21.27	145.72							
4160	13.19	6.69	6.12	2.33	0.00	0.00	15.63	43.96							
4165	17.12	8.81	8.86	3.37	1.39	0.21	20.34	60.10							
4170	15.97	8.20	12.68	4.82	0.99	0.15	18.97	61.78							
4180	17.55	9.02	10.81	4.11	1.25	0.19	20.85	63.78							
4185	25.47	13.12	9.76	3.71	1.99	0.30	30.28	84.63							
4190	28.87	14.84	10.20	3.88	1.99	0.30	34.30	94.38							
4195	21.26	10.78	11.95	4.54	0.00	0.00	25.19	73.72							
4200	24.67	12.51	11.95	4.54	0.00	0.00	29.23	82.90							
4205	25.58	17.04	15.27	4.89	0.00	0.00	30.31	93.09							
4210	47.09	31.38	82.12	41.06	0.00	0.00	27.90	229.55							
4230	1.29	0.46	1.05	0.47	0.06	0.01	1.23	4.57							
4235	1.30	0.47	1.05	0.47	0.06	0.01	1.24	4.60							
4240	1.35	0.49	1.05	0.47	0.08	0.01	1.29	4.74							
4245	1.88	0.68	1.87	0.84	0.09	0.01	1.79	7.16							
4250	1.92	0.69	1.87	0.84	0.09	0.01	1.83	7.25							
4255	2.11	0.76	2.75	1.24	0.09	0.01	2.01	8.97							
4260	2.61	0.94	3.10	1.40	0.14	0.02	2.49	10.70							
4265	2.74	0.98	3.10	1.40	0.12	0.02	2.61	10.97							
4270	2.91	1.04	3.10	1.40	0.09	0.01	2.77	11.32							
4275	1.26	0.45	1.90	0.46	0.03	0.00	1.20	5.30							
4280	1.64	0.60	2.47	0.59	0.12	0.02	1.57	7.01							

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR		
5630	0.58	0.20	0.00	0.00	0.00	0.00	0.70	1.48	0.72	0.21	0.00	0.00	0.00	0.00	0.98	1.91
5635	0.79	0.28	0.00	0.00	0.00	0.00	0.97	2.04	0.99	0.29	0.00	0.00	0.00	0.00	1.35	2.63
5640	0.10	0.03	0.00	0.00	0.00	0.00	0.12	0.25	0.12	0.04	0.00	0.00	0.00	0.00	0.17	0.33
5645	3.07	1.17	1.32	0.37	1.36	0.20	3.81	11.30	3.83	1.20	1.74	0.49	2.13	0.32	5.29	15.00
5655	0.71	0.25	0.00	0.00	0.00	0.00	0.86	1.82	0.88	0.25	0.00	0.00	0.00	0.00	1.20	2.33
5660	0.89	0.31	0.12	0.03	0.00	0.00	1.08	2.43	1.11	0.32	0.15	0.04	0.00	0.00	1.50	3.12
5665	0.11	0.04	0.00	0.00	0.00	0.00	0.14	0.29	0.14	0.04	0.00	0.00	0.00	0.00	0.19	0.37
5670	0.56	0.20	0.00	0.00	0.00	0.00	0.68	1.44	0.70	0.20	0.00	0.00	0.00	0.00	0.95	1.85
5675	0.46	0.16	0.00	0.00	0.00	0.00	0.56	1.18	0.57	0.16	0.00	0.00	0.00	0.00	0.78	1.51
5680	0.65	0.23	0.00	0.00	0.00	0.00	0.79	1.67	0.81	0.23	0.00	0.00	0.00	0.00	1.10	2.14
5685	0.96	0.34	0.00	0.00	0.00	0.00	1.17	2.47	1.20	0.35	0.00	0.00	0.00	0.00	1.63	3.18
5690	0.10	0.03	0.00	0.00	0.00	0.00	0.12	0.25	0.12	0.04	0.00	0.00	0.00	0.00	0.17	0.33
5695	3.97	1.52	1.98	0.55	1.88	0.28	4.93	15.11	4.96	1.55	2.60	0.73	2.96	0.44	6.85	20.09
5705	0.87	0.31	0.00	0.00	0.00	0.00	1.06	2.24	1.09	0.31	0.00	0.00	0.00	0.00	1.47	2.87
5710	1.14	0.40	0.12	0.03	0.00	0.00	1.39	3.08	1.42	0.41	0.15	0.04	0.00	0.00	1.93	3.95
5715	0.11	0.04	0.00	0.00	0.00	0.00	0.14	0.29	0.14	0.04	0.00	0.00	0.00	0.00	0.19	0.37
5720	0.56	0.20	0.00	0.00	0.00	0.00	0.68	1.44	0.70	0.20	0.00	0.00	0.00	0.00	0.95	1.85
5725	0.60	0.21	0.00	0.00	0.00	0.00	0.73	1.54	0.75	0.21	0.00	0.00	0.00	0.00	1.01	1.97
5730	0.76	0.27	0.00	0.00	0.00	0.00	0.93	1.96	0.95	0.27	0.00	0.00	0.00	0.00	1.29	2.51
5735	0.10	0.03	0.00	0.00	0.00	0.00	0.12	0.25	0.12	0.04	0.00	0.00	0.00	0.00	0.17	0.33
5740	7.11	2.61	3.02	0.84	1.45	0.22	8.76	24.01	8.89	2.67	3.97	1.11	2.23	0.33	12.17	31.37
5750	1.07	0.38	0.00	0.00	0.00	0.00	1.30	2.75	1.33	0.38	0.00	0.00	0.00	0.00	1.81	3.52
5755	0.11	0.04	0.00	0.00	0.00	0.00	0.14	0.29	0.14	0.04	0.00	0.00	0.00	0.00	0.19	0.37
5760	0.56	0.20	0.00	0.00	0.00	0.00	0.68	1.44	0.70	0.20	0.00	0.00	0.00	0.00	0.95	1.85
5765	0.87	0.30	0.00	0.00	0.00	0.00	1.06	2.23	1.08	0.31	0.00	0.00	0.00	0.00	1.47	2.86
5770	1.27	0.45	0.00	0.00	0.00	0.00	1.55	3.27	1.59	0.46	0.00	0.00	0.00	0.00	2.16	4.21
5775	1.79	0.63	0.00	0.00	0.00	0.00	2.19	4.61	2.24	0.64	0.00	0.00	0.00	0.00	3.04	5.92
5780	0.10	0.03	0.00	0.00	0.00	0.00	0.12	0.25	0.12	0.04	0.00	0.00	0.00	0.00	0.17	0.33
5785	12.71	4.82	2.94	0.82	5.39	0.81	15.76	43.25	15.89	4.92	3.87	1.08	8.54	1.28	21.89	57.47
5790	14.23	5.36	4.36	1.22	5.50	0.82	17.62	49.11	17.79	5.47	5.73	1.61	8.72	1.31	24.47	65.10
5795	14.41	5.53	4.36	1.22	7.60	1.14	17.92	52.18	18.02	5.65	5.73	1.61	12.14	1.82	24.89	69.86
5800	16.59	6.37	6.83	1.91	8.99	1.35	20.63	62.67	20.73	6.51	8.99	2.52	14.38	2.16	28.65	83.94
5805	15.95	5.95	4.36	1.22	5.39	0.81	19.71	53.39	19.93	6.08	5.73	1.61	8.54	1.28	27.37	70.54
5810	16.89	6.29	4.36	1.22	5.50	0.82	20.86	55.94	21.11	6.43	5.73	1.61	8.72	1.31	28.97	73.88
5815	18.98	7.14	6.83	1.91	7.60	1.14	23.49	67.09	23.72	7.29	8.99	2.52	12.14	1.82	32.63	89.11
5820	20.93	7.90	6.83	1.91	8.99	1.35	25.93	73.84	26.16	8.07	8.99	2.52	14.38	2.16	36.01	98.29
5830	1.29	0.45	0.00	0.00	0.00	0.00	1.58	3.32	1.62	0.46	0.00	0.00	0.00	0.00	2.19	4.27
5835	1.70	0.60	0.00	0.00	0.00	0.00	2.08	4.38	2.13	0.61	0.00	0.00	0.00	0.00	2.88	5.62
5840	1.95	0.68	0.00	0.00	0.00	0.00	2.37	5.00	2.43	0.70	0.00	0.00	0.00	0.00	3.30	6.43
5845	1.95	0.69	0.00	0.00	0.00	0.00	2.38	5.02	2.44	0.70	0.00	0.00	0.00	0.00	3.31	6.45
5860	4.87	1.70	1.60	0.61	0.00	0.00	8.12	16.90	6.08	1.74	2.11	0.80	0.00	0.00	10.56	21.29
5865	5.35	1.87	1.98	0.75	0.00	0.00	8.92	18.87	6.69	1.91	2.61	0.99	0.00	0.00	11.60	23.80
5870	7.20	2.52	2.80	1.06	0.00	0.00	12.01	25.59	9.00	2.57	3.68	1.40	0.00	0.00	15.62	32.27
5875	8.44	2.95	3.56	1.35	0.00	0.00	14.08	30.38	10.55	3.02	4.69	1.78	0.00	0.00	18.31	38.35
5885	3.43	1.20	1.65	0.63	0.00	0.00	5.72	12.63	4.28	1.22	2.18	0.83	0.00	0.00	7.43	15.94
5890	3.79	1.33	1.65	0.63	0.00	0.00	6.32	13.72	4.74	1.35	2.18	0.83	0.00	0.00	8.22	17.32
5895	6.78	2.37	2.03	0.77	0.00	0.00	11.32	23.27	8.48	2.43	2.68	1.02	0.00	0.00	14.71	29.32
5900	6.98	2.44	2.03	0.77	0.00	0.00	11.64	23.86	8.72	2.49	2.68	1.02	0.00	0.00	15.13	30.04
5905	8.56	2.99	2.80	1.06	0.00	0.00	14.28	29.69	10.69	3.06	3.68	1.40	0.00	0.00	18.56	37.39
5910	8.85	3.09	2.80	1.06	0.00	0.00	14.76	30.56	11.06	3.16	3.68	1.40	0.00	0.00	19.19	38.49
5915	11.18	3.91	3.81	1.45	0.00	0.00	18.65	39.00	13.97	4.00	5.02	1.91	0.00	0.00	24.25	49.15
5920	11.50	4.02	3.81	1.45	0.00	0.00	19.19	39.97	14.38	4.11	5.02	1.91	0.00	0.00	24.95	50.37
5925	15.87	5.55	5.34	2.03	0.00	0.00	26.48	55.27	19.84	5.67	7.03	2.67	0.00	0.00	34.42	69.63
5930	16.29	5.70	5.34	2.03	0.00	0.00	27.17	56.53	20.36	5.82	7.03	2.67	0.00	0.00	35.32	71.20
5940	3.70	1.29	1.60	0.61	0.00	0.00	6.17	13.37	4.62	1.32	2.11	0.80	0.00	0.00	8.02	16.87

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS						TOTAL RATE	SEVERE CONDITIONS						TOTAL RATE		
	DEPR	CFC	FUEL	FOG	TIRE WEAR	RPR		DEPR	CFC	FUEL	FOG	TIRE WEAR	RPR			
6585	2.66	1.07	1.11	0.35	0.34	0.05	3.09	8.67	3.33	1.09	1.46	0.47	0.48	0.07	4.10	11.00
6590	3.33	1.33	1.48	0.47	0.33	0.05	3.86	10.85	4.17	1.36	1.95	0.62	0.46	0.07	5.12	13.75
6595	5.35	2.14	1.88	0.60	0.53	0.08	6.18	16.76	6.68	2.18	2.48	0.79	0.75	0.11	8.21	21.20
6600	6.13	2.46	2.62	0.84	0.71	0.11	7.10	19.97	7.66	2.51	3.44	1.10	0.99	0.15	9.43	25.28
6610	2.92	1.18	1.37	0.44	0.38	0.06	3.39	9.74	3.65	1.20	1.80	0.58	0.53	0.08	4.50	12.34
6615	3.48	1.40	1.46	0.47	0.42	0.06	4.04	11.33	4.36	1.43	1.92	0.62	0.60	0.09	5.36	14.38
6620	4.03	1.63	1.65	0.53	0.53	0.08	4.67	13.12	5.04	1.66	2.17	0.69	0.75	0.11	6.21	16.63
6625	4.64	1.86	1.88	0.60	0.53	0.08	5.38	14.97	5.80	1.90	2.48	0.79	0.75	0.11	7.14	18.97
6630	5.51	2.24	2.36	0.75	0.83	0.13	6.40	18.22	6.89	2.28	3.10	0.99	1.17	0.18	8.50	23.11
6640	2.36	0.96	1.13	0.36	0.36	0.05	2.74	7.96	2.95	0.98	1.49	0.48	0.51	0.08	3.64	10.13
6645	2.63	1.06	1.13	0.36	0.36	0.05	3.05	8.64	3.29	1.08	1.49	0.48	0.51	0.08	4.06	10.99
6650	2.81	1.13	1.41	0.45	0.36	0.05	3.26	9.47	3.51	1.15	1.86	0.60	0.51	0.08	4.33	12.04
6655	3.11	1.27	1.48	0.47	0.52	0.08	3.62	10.55	3.89	1.29	1.95	0.62	0.74	0.11	4.80	13.40
6660	3.49	1.41	1.70	0.54	0.52	0.08	4.05	11.79	4.36	1.44	2.23	0.71	0.74	0.11	5.38	14.97
6665	5.04	2.01	2.36	0.75	0.52	0.08	5.83	16.59	6.29	2.05	3.10	0.99	0.74	0.11	7.74	21.02
6675	2.74	1.09	1.13	0.36	0.21	0.03	3.17	8.73	3.43	1.11	1.49	0.48	0.29	0.04	4.21	11.05
6680	3.10	1.24	1.53	0.49	0.28	0.04	3.59	10.27	3.88	1.26	2.01	0.64	0.39	0.06	4.77	13.01
6685	3.21	1.31	1.70	0.54	0.53	0.08	3.73	11.10	4.01	1.33	2.23	0.71	0.75	0.11	4.96	14.10
6700	5.72	2.00	1.60	0.61	0.00	0.00	9.55	19.48	7.16	2.05	2.11	0.80	0.00	0.00	12.42	24.54
6705	6.35	2.22	1.98	0.75	0.00	0.00	10.60	21.90	7.94	2.27	2.61	0.99	0.00	0.00	13.78	27.59
6715	4.45	1.56	1.65	0.63	0.00	0.00	7.42	15.71	5.56	1.59	2.18	0.83	0.00	0.00	9.65	19.81
6725	0.56	0.17	0.00	0.51	0.00	0.00	0.86	2.10								
6730	1.17	0.35	0.00	1.05	0.00	0.00	1.78	4.35								
6735	2.36	0.71	0.00	1.99	0.00	0.00	3.59	8.65								
6740	0.57	0.17	0.00	0.25	0.00	0.00	0.86	1.85								
6745	0.89	0.27	0.00	0.37	0.00	0.00	1.35	2.88								
6760	1.99	0.60	0.00	0.27	0.00	0.00	3.03	5.89								
6765	2.60	0.78	0.00	0.50	0.00	0.00	3.95	7.83								
6770	3.06	0.92	0.00	0.79	0.00	0.00	4.65	9.42								
6785	4.69	1.41	0.00	0.32	0.00	0.00	7.12	13.54								
6790	4.84	1.46	0.00	0.32	0.00	0.00	7.36	13.98								
6795	7.54	2.27	0.00	0.50	0.00	0.00	11.46	21.77								
6800	7.88	2.38	0.00	0.60	0.00	0.00	11.99	22.85								
6815	3.75	1.13	0.00	0.44	0.00	0.00	5.70	11.02								
6820	4.44	1.34	0.00	0.50	0.00	0.00	6.75	13.03								
6825	5.05	1.52	0.00	0.60	0.00	0.00	7.68	14.85								
6830	5.43	1.64	0.00	0.74	0.00	0.00	8.25	16.06								
6835	6.43	1.94	0.00	0.64	0.00	0.00	9.78	18.79								
6840	7.75	2.34	0.00	0.94	0.00	0.00	11.79	22.82								
6845	8.81	2.66	0.00	0.94	0.00	0.00	13.40	25.81								
6850	11.58	3.49	0.00	1.16	0.00	0.00	17.60	33.83								
6855	13.18	3.98	0.00	1.27	0.00	0.00	20.04	38.47								
6870	2.99	0.90	0.54	0.17	0.00	0.00	4.55	9.15								
6875	6.30	1.90	1.18	0.38	0.00	0.00	9.57	19.33								
6880	7.30	2.20	1.79	0.57	0.00	0.00	11.09	22.95								
6885	7.68	2.32	2.12	0.68	0.00	0.00	11.67	24.47								
6890	10.38	3.13	3.13	1.00	0.00	0.00	15.78	33.42								
6895	12.35	3.73	3.20	1.03	0.00	0.00	18.78	39.09								
6905	6.81	2.05	1.06	0.66	0.00	0.00	10.36	20.94								
6910	8.30	2.50	1.86	1.08	0.00	0.00	12.62	26.36								
6915	10.35	3.12	2.73	1.45	0.00	0.00	15.73	33.38								
6920	13.24	3.99	3.04	1.66	0.00	0.00	20.13	42.06								
6925	24.78	7.47	5.09	2.93	0.00	0.00	37.68	77.95								
6930	28.54	8.61	6.31	3.62	0.00	0.00	43.39	90.47								
6940	3.68	1.11	0.00	0.50	0.00	0.00	5.59	10.88								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
6945	3.91	1.18	0.00	0.65	0.00	0.00	5.95	11.69								
6950	5.22	1.58	0.00	0.65	0.00	0.00	7.94	15.39								
6955	1.34	0.40	0.00	0.25	0.00	0.00	2.03	4.02								
6960	1.69	0.51	0.00	0.34	0.00	0.00	2.57	5.11								
6965	2.10	0.63	0.00	0.44	0.00	0.00	3.20	6.37								
6975	5.07	1.53	0.00	0.67	0.00	0.00	7.71	14.98								
6980	5.81	1.75	0.00	0.79	0.00	0.00	8.83	17.18								
6985	6.24	1.88	0.00	0.94	0.00	0.00	9.48	18.54								
6990	7.64	2.30	0.00	1.11	0.00	0.00	11.61	22.66								
6995	9.44	2.85	0.00	1.16	0.00	0.00	14.35	27.80								
7000	13.71	4.13	0.00	1.37	0.00	0.00	20.84	40.05								
7015	7.04	2.12	2.24	0.72	0.00	0.00	10.70	22.82								
7020	12.50	3.77	3.68	1.18	0.00	0.00	19.01	40.14								
7025	18.41	5.55	7.30	2.34	0.00	0.00	27.99	61.59								
7030	21.26	6.41	12.02	3.84	0.00	0.00	32.31	75.84								
7035	26.99	8.14	13.66	4.37	0.00	0.00	41.04	94.20								
7050	7.59	3.48	1.37	0.55	0.00	0.00	8.13	21.12	9.11	3.52	1.76	0.70	0.00	0.00	11.06	26.15
7055	12.30	5.63	2.60	1.04	0.00	0.00	13.17	34.74	14.76	5.71	3.35	1.34	0.00	0.00	17.91	43.07
7060	14.04	6.43	2.60	1.04	0.00	0.00	15.03	39.14	16.85	6.51	3.35	1.34	0.00	0.00	20.44	48.49
7065	17.63	8.07	3.91	1.56	0.00	0.00	18.87	50.04	21.15	8.18	5.02	2.01	0.00	0.00	25.66	62.02
7070	24.62	11.27	5.34	2.14	0.00	0.00	26.35	69.72	29.54	11.42	6.86	2.75	0.00	0.00	35.84	86.41
7085	1.35	0.35	0.00	0.15	0.00	0.00	1.55	3.40								
7090	0.50	0.13	0.00	0.10	0.00	0.00	0.57	1.30								
7095	1.99	0.52	0.00	0.31	0.00	0.00	2.28	5.10								
7100	0.86	0.22	0.00	0.05	0.00	0.00	0.99	2.12								
7115	0.06	0.02	0.14	0.05	0.00	0.00	0.07	0.34								
7130	0.04	0.01	0.14	0.05	0.00	0.00	0.04	0.28								
7135	0.05	0.02	0.21	0.07	0.00	0.00	0.05	0.40								
7140	0.08	0.03	0.57	0.18	0.00	0.00	0.10	0.96								
7150	0.68	0.26	3.05	0.98	0.00	0.00	0.79	5.76								
7155	0.69	0.27	0.99	0.37	0.00	0.00	0.80	3.12								
7160	0.95	0.37	5.61	1.79	0.00	0.00	1.11	9.83								
7165	1.07	0.42	1.97	0.75	0.00	0.00	1.24	5.45								
7170	1.66	0.65	2.30	0.87	0.00	0.00	1.93	7.41								
7175	1.77	0.69	2.23	0.85	0.00	0.00	2.05	7.59								
7190	0.07	0.03	0.35	0.11	0.00	0.00	0.09	0.65								
7195	0.10	0.04	0.57	0.18	0.00	0.00	0.12	1.01								
7200	0.21	0.08	1.14	0.36	0.00	0.00	0.24	2.03								
7215	0.09	0.04	0.21	0.07	0.00	0.00	0.11	0.52								
7220	0.10	0.04	0.21	0.07	0.00	0.00	0.12	0.54								
7235	0.12	0.05	0.16	0.07	0.00	0.00	0.07	0.47								
7240	0.18	0.07	0.40	0.18	0.00	0.00	0.10	0.93								
7245	0.63	0.25	2.02	0.91	0.00	0.00	0.37	4.18								
7250	0.82	0.32	4.86	2.19	0.00	0.00	0.48	8.67								
7260	0.10	0.04	0.08	0.04	0.00	0.00	0.06	0.32								
7265	0.14	0.05	0.16	0.07	0.00	0.00	0.08	0.50								
7270	0.19	0.07	0.65	0.29	0.00	0.00	0.11	1.31								
7285	3.89	1.11	0.00	0.15	0.00	0.00	4.15	9.30	5.19	1.15	0.00	0.15	0.00	0.00	6.23	12.72
7290	0.30	0.09	0.00	0.00	0.00	0.00	0.33	0.72	0.41	0.09	0.00	0.00	0.00	0.00	0.49	0.99
7295	2.46	0.70	0.00	0.10	0.00	0.00	2.63	5.89	3.29	0.73	0.00	0.10	0.00	0.00	3.95	8.07
7300	0.19	0.06	0.00	0.00	0.00	0.00	0.21	0.46	0.26	0.06	0.00	0.00	0.00	0.00	0.31	0.63
7305	1.84	0.53	0.00	0.08	0.00	0.00	1.97	4.42	2.46	0.55	0.00	0.08	0.00	0.00	2.95	6.04
7310	0.08	0.02	0.00	0.00	0.00	0.00	0.09	0.19	0.11	0.03	0.00	0.00	0.00	0.00	0.14	0.28
7315	2.12	0.61	0.00	0.10	0.00	0.00	2.26	5.09	2.82	0.63	0.00	0.10	0.00	0.00	3.39	6.94
7320	0.19	0.05	0.00	0.00	0.00	0.00	0.20	0.44	0.25	0.06	0.00	0.00	0.00	0.00	0.31	0.62

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	
7325	1.53	0.44	0.00	0.08	0.00	0.00	1.64	3.69	2.04	0.45	0.00	0.08	0.00	0.00	2.45	5.02	
7330	0.12	0.03	0.00	0.00	0.00	0.00	0.13	0.28	0.16	0.04	0.00	0.00	0.00	0.00	0.20	0.40	
7335	0.90	0.26	0.00	0.08	0.00	0.00	0.96	2.20	1.19	0.27	0.00	0.08	0.00	0.00	1.44	2.98	
7340	0.05	0.01	0.00	0.00	0.00	0.00	0.05	0.11	0.06	0.01	0.00	0.00	0.00	0.00	0.08	0.15	
7345	2.36	0.68	0.00	0.08	0.00	0.00	2.52	5.64	3.15	0.70	0.00	0.08	0.00	0.00	3.78	7.71	
7350	0.19	0.05	0.00	0.00	0.00	0.00	0.20	0.44	0.25	0.06	0.00	0.00	0.00	0.00	0.31	0.62	
7355	2.10	0.60	0.00	0.08	0.00	0.00	2.24	5.02	2.80	0.62	0.00	0.08	0.00	0.00	3.36	6.86	
7360	0.26	0.07	0.00	0.00	0.00	0.00	0.28	0.61	0.35	0.08	0.00	0.00	0.00	0.00	0.41	0.84	
7365	0.74	0.26	0.00	0.08	0.00	0.00	0.79	1.87	0.93	0.26	0.00	0.08	0.00	0.00	1.11	2.38	
7375	5.18	1.48	0.00	0.22	0.00	0.00	5.53	12.41	6.91	1.53	0.00	0.22	0.00	0.00	8.30	16.96	
7380	0.38	0.11	0.00	0.00	0.00	0.00	0.40	0.89	0.50	0.11	0.00	0.00	0.00	0.00	0.60	1.21	
7385	5.51	1.58	0.00	0.21	0.00	0.00	5.89	13.19	7.35	1.63	0.00	0.21	0.00	0.00	8.83	18.02	
7390	4.39	1.26	0.00	0.16	0.00	0.00	4.69	10.50	5.85	1.30	0.00	0.16	0.00	0.00	7.03	14.34	
7395	0.34	0.10	0.00	0.00	0.00	0.00	0.36	0.80	0.45	0.10	0.00	0.00	0.00	0.00	0.54	1.09	
7400	4.09	1.17	0.00	0.16	0.00	0.00	4.36	9.78	5.45	1.21	0.00	0.16	0.00	0.00	6.55	13.37	
7405	2.96	0.85	0.00	0.10	0.00	0.00	3.16	7.07	3.95	0.88	0.00	0.10	0.00	0.00	4.74	9.67	
7410	0.19	0.05	0.00	0.00	0.00	0.00	0.20	0.44	0.25	0.06	0.00	0.00	0.00	0.00	0.31	0.62	
7415	2.88	0.82	0.00	0.10	0.00	0.00	3.08	6.88	3.84	0.85	0.00	0.10	0.00	0.00	4.61	9.40	
7420	1.66	0.47	0.00	0.08	0.00	0.00	1.77	3.98	2.21	0.49	0.00	0.08	0.00	0.00	2.65	5.43	
7425	0.10	0.03	0.00	0.00	0.00	0.00	0.11	0.24	0.13	0.03	0.00	0.00	0.00	0.00	0.16	0.32	
7430	1.04	0.30	0.00	0.08	0.00	0.00	1.11	2.53	1.38	0.31	0.00	0.08	0.00	0.00	1.66	3.43	
7435	0.05	0.01	0.00	0.00	0.00	0.00	0.05	0.11	0.07	0.01	0.00	0.00	0.00	0.00	0.08	0.16	
7440	0.62	0.18	0.00	0.08	0.00	0.00	0.66	1.54	0.82	0.18	0.00	0.08	0.00	0.00	0.99	2.07	
7445	0.03	0.01	0.00	0.00	0.00	0.00	0.03	0.07	0.03	0.01	0.00	0.00	0.00	0.00	0.04	0.08	
7450	0.27	0.08	0.00	0.08	0.00	0.00	0.29	0.72	0.36	0.08	0.00	0.08	0.00	0.00	0.44	0.96	
7455	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.04	
7465	5.56	1.59	0.00	0.28	0.00	0.00	5.94	13.37	7.41	1.65	0.00	0.28	0.00	0.00	8.91	18.25	
7470	4.38	1.25	0.00	0.20	0.00	0.00	4.68	10.51	5.84	1.30	0.00	0.20	0.00	0.00	7.02	14.36	
7475	3.31	0.95	0.00	0.10	0.00	0.00	3.54	7.90	4.41	0.98	0.00	0.10	0.00	0.00	5.30	10.79	
7480	2.06	0.59	0.00	0.09	0.00	0.00	2.20	4.94	2.75	0.61	0.00	0.09	0.00	0.00	3.30	6.75	
7495	3.20	1.16	2.00	0.48	0.18	0.03	3.53	10.58									
7500	3.54	1.28	2.00	0.48	0.18	0.03	3.91	11.42									
7505	4.11	1.48	2.00	0.48	0.22	0.03	4.54	12.86									
7510	6.46	2.37	2.94	0.71	0.68	0.10	7.15	20.41									
7520	2.79	1.01	1.79	0.43	0.18	0.03	3.08	9.31									
7525	3.01	1.09	1.79	0.43	0.18	0.03	3.32	9.85									
7530	3.08	1.11	1.84	0.44	0.18	0.03	3.40	10.08									
7535	2.95	1.07	5.51	1.32	0.22	0.03	3.26	14.36									
7540	3.30	1.19	1.79	0.43	0.22	0.03	3.64	10.60									
7545	3.07	1.12	5.51	1.32	0.26	0.04	3.40	14.72									
7550	3.42	1.24	1.79	0.43	0.26	0.04	3.78	10.96									
7555	7.35	2.72	2.76	0.66	0.90	0.13	8.15	22.67									
7565	3.05	1.10	1.60	0.38	0.18	0.03	3.37	9.71									
7570	3.79	1.37	1.60	0.38	0.22	0.03	4.18	11.57									
7575	7.66	2.82	3.06	0.74	0.82	0.12	8.49	23.71									
7580	8.81	3.39	3.06	0.74	2.08	0.31	9.86	28.25									
7595	3.97	1.87	0.00	0.21	1.92	0.29	4.67	12.93									
7600	5.51	2.20	0.00	0.23	1.50	0.22	6.22	15.88									
7610	5.25	2.30	0.00	0.39	1.82	0.27	6.05	16.08									
7615	5.33	2.49	0.00	0.44	2.49	0.37	6.25	17.37									
7620	7.93	3.41	0.00	0.66	2.49	0.37	9.11	23.97									
7630	0.69	0.28	0.00	0.05	0.21	0.03	0.78	2.04									
7645	1.12	0.40	0.00	0.15	0.00	0.00	1.23	2.90									
7650	1.42	0.50	0.00	0.15	0.00	0.00	1.56	3.63									
7655	1.47	0.52	0.00	0.15	0.00	0.00	1.61	3.75									

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE
7660	2.20	0.78	0.00	0.15	0.00	0.00	2.41	5.54								
7665	3.36	1.19	0.00	0.15	0.00	0.00	3.69	8.39								
7670	5.09	1.80	0.00	0.15	0.00	0.00	5.59	12.63								
7675	3.32	1.17	0.00	0.16	0.00	0.00	3.65	8.30								
7680	3.86	1.36	0.00	0.15	0.00	0.00	4.24	9.61								
7685	5.99	2.12	0.00	0.15	0.00	0.00	6.58	14.84								
7695	0.50	0.17	0.00	0.16	0.00	0.00	0.54	1.37								
7700	1.00	0.35	0.00	0.16	0.00	0.00	1.10	2.61								
7715	12.79	4.51	4.95	1.19	0.00	0.00	14.04	37.48								
7720	12.84	4.53	4.01	0.96	0.00	0.00	14.10	36.44								
7725	19.28	6.81	15.41	3.70	0.00	0.00	21.18	66.38								
7730	20.39	7.20	16.63	3.99	0.00	0.00	22.39	70.60								
7735	20.17	7.12	7.30	1.75	0.00	0.00	22.15	58.49								
7745	21.19	7.48	7.77	1.87	0.00	0.00	23.28	61.59								
7760	2.20	0.78	1.23	0.29	0.00	0.00	2.42	6.92								
7765	2.63	0.93	1.23	0.29	0.00	0.00	2.89	7.97								
7770	4.01	1.42	2.00	0.48	0.00	0.00	4.41	12.32								
7775	4.19	1.48	2.00	0.48	0.00	0.00	4.61	12.76								
7780	4.38	1.55	2.00	0.48	0.00	0.00	4.81	13.22								
7785	4.56	1.61	2.00	0.48	0.00	0.00	5.01	13.66								
7795	4.39	1.55	5.51	1.32	0.00	0.00	4.82	17.59								
7800	4.71	1.66	2.00	0.48	0.00	0.00	5.17	14.02								
7805	4.65	1.64	5.51	1.32	0.00	0.00	5.11	18.23								
7810	4.97	1.76	2.00	0.48	0.00	0.00	5.46	14.67								
7815	2.15	0.76	2.78	0.67	0.00	0.00	2.37	8.73								
7820	2.92	1.03	5.51	1.32	0.00	0.00	3.21	13.99								
7825	3.24	1.14	2.00	0.48	0.00	0.00	3.56	10.42								
7830	3.54	1.25	5.51	1.32	0.00	0.00	3.89	15.51								
7835	3.87	1.36	2.00	0.48	0.00	0.00	4.24	11.95								
7840	3.82	1.35	5.51	1.32	0.00	0.00	4.20	16.20								
7845	4.14	1.46	2.00	0.48	0.00	0.00	4.55	12.63								
7860	1.35	0.39	1.28	0.41	0.00	0.00	1.86	5.29								
7865	1.66	0.48	1.28	0.41	0.00	0.00	2.27	6.10								
7870	3.50	1.01	1.41	0.45	0.00	0.00	4.80	11.17								
7875	3.84	1.11	1.41	0.45	0.00	0.00	5.27	12.08								
7880	5.36	1.55	3.12	1.00	0.00	0.00	7.35	18.38								
7885	5.65	1.63	3.12	1.00	0.00	0.00	7.76	19.16								
7895	3.77	1.09	1.61	0.52	0.00	0.00	5.18	12.17								
7900	4.10	1.18	1.61	0.52	0.00	0.00	5.63	13.04								
7905	6.59	1.90	2.53	0.81	0.00	0.00	9.05	20.88								
7910	7.18	2.07	2.53	0.81	0.00	0.00	9.85	22.44								
7920	2.48	0.72	2.56	0.82	0.00	0.00	3.41	9.99								
7925	3.04	0.88	2.56	0.82	0.00	0.00	4.18	11.48								
7935	1.95	0.56	0.99	0.32	0.00	0.00	2.68	6.50								
7940	1.77	0.51	0.99	0.32	0.00	0.00	2.43	6.02								
7950	9.06	2.61	2.46	0.79	0.00	0.00	12.44	27.36								
7955	6.12	1.77	1.64	0.53	0.00	0.00	8.40	18.46								
7970	6.07	1.78	2.40	0.77	0.19	0.03	8.36	19.60								
7975	6.82	2.05	2.79	0.89	0.65	0.10	9.45	22.75								
7980	8.05	2.35	2.79	0.89	0.18	0.03	11.08	25.37								
7985	8.87	2.63	4.11	1.31	0.55	0.08	12.24	29.79								
7990	8.28	2.45	4.11	1.31	0.48	0.07	11.43	28.13								
7995	8.93	2.64	4.11	1.31	0.48	0.07	12.31	29.85								
8000	10.33	3.04	4.11	1.31	0.48	0.07	14.24	33.58								
8005	9.20	2.72	4.11	1.31	0.48	0.07	12.69	30.58								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CPC	FUEL	FOG	TIKE	TIKE	REPR	TOTAL RATE	DEPR	CPC	FUEL	FOG	TIKE	TIKE	REPR	
					WEAR	RPR										
8010	9.98	2.94	4.11	1.31	0.48	0.07	13.77	32.66								
8020	8.86	2.56	4.11	1.31	0.00	0.00	12.16	29.00								
8025	7.09	2.11	2.79	0.89	0.48	0.07	9.80	23.23								
8030	7.54	2.24	3.94	1.26	0.48	0.07	10.42	25.95								
8035	8.60	2.54	3.94	1.26	0.48	0.07	11.87	28.76								
8045	9.18	2.71	3.78	1.21	0.48	0.07	12.66	30.09								
8050	13.50	4.02	6.67	2.13	0.98	0.15	18.66	46.11								
8060	5.67	1.65	2.30	0.74	0.10	0.01	7.80	18.27								
8065	5.62	1.65	2.30	0.74	0.20	0.03	7.74	18.28								
8070	7.55	2.19	2.63	0.84	0.14	0.02	10.38	23.75								
8075	6.49	1.90	2.63	0.84	0.20	0.03	8.94	21.03								
8080	6.16	1.86	2.30	0.74	0.65	0.10	8.54	20.35								
8085	8.42	2.48	2.89	0.93	0.42	0.06	11.62	26.82								
8090	9.76	2.87	3.91	1.25	0.44	0.07	13.46	31.76								
8095	7.75	2.30	4.11	1.31	0.48	0.07	10.70	26.72								
8100	11.49	3.38	3.91	1.25	0.55	0.08	15.84	36.50								
8105	9.96	2.94	3.91	1.25	0.55	0.08	13.74	32.43								
8110	8.40	2.51	4.11	1.31	0.72	0.11	11.62	28.78								
8120	6.34	1.91	2.23	0.72	0.65	0.10	8.79	20.74								
8125	5.77	1.69	2.23	0.72	0.18	0.03	7.94	18.56								
8130	6.78	1.98	2.63	0.84	0.18	0.03	9.33	21.77								
8135	7.24	2.17	2.46	0.79	0.65	0.10	10.02	23.43								
8140	7.40	2.16	2.63	0.84	0.18	0.03	10.19	23.43								
8145	9.62	2.84	3.61	1.16	0.48	0.07	13.27	31.05								
8150	7.96	2.36	3.52	1.13	0.48	0.07	10.99	26.51								
8155	8.63	2.55	3.52	1.13	0.48	0.07	11.91	28.29								
8160	11.05	3.25	3.61	1.16	0.48	0.07	15.23	34.85								
8175	1.16	0.33	0.53	0.17	0.00	0.00	1.59	3.78								
8180	3.07	0.88	1.12	0.36	0.00	0.00	4.21	9.64								
8185	7.23	2.09	2.33	0.75	0.00	0.00	9.92	22.32								
8190	9.71	2.80	4.11	1.31	0.00	0.00	13.33	31.26								
8195	11.75	3.39	5.09	1.63	0.00	0.00	16.14	38.00								
8200	14.20	4.10	5.95	1.90	0.00	0.00	19.50	45.65								
8205	16.47	4.75	5.95	1.90	0.00	0.00	22.61	51.68								
8215	1.11	0.32	0.53	0.17	0.00	0.00	1.53	3.66								
8220	2.56	0.74	1.15	0.37	0.00	0.00	3.51	8.33								
8225	6.64	1.92	2.30	0.74	0.00	0.00	9.12	20.72								
8230	8.84	2.55	3.78	1.21	0.00	0.00	12.14	28.52								
8235	11.80	3.40	3.91	1.25	0.00	0.00	16.20	36.56								
8245	1.14	0.33	0.99	0.32	0.00	0.00	1.57	4.35								
8250	5.93	1.71	1.71	0.55	0.00	0.00	8.14	18.04								
8255	8.83	2.55	2.63	0.84	0.00	0.00	12.12	26.97								
8260	11.21	3.23	5.13	1.64	0.00	0.00	15.39	36.60								
8265	19.96	5.76	8.61	2.75	0.00	0.00	27.40	64.48								
8280	0.82	0.17	0.00	0.50	0.02	0.00	0.82	2.33								
8285	1.02	0.21	0.00	0.50	0.03	0.00	1.03	2.79								
8290	1.32	0.28	0.00	0.75	0.05	0.01	1.34	3.75								
8295	3.44	0.77	0.00	1.50	0.41	0.06	3.52	9.70								
8300	2.67	0.55	1.09	0.26	0.03	0.00	2.69	7.29								
8305	2.97	0.61	1.09	0.26	0.03	0.00	2.99	7.95								
8310	3.37	0.69	1.09	0.26	0.03	0.00	3.40	8.84								
8315	0.48	0.10	0.48	0.11	0.00	0.00	0.49	1.66								
8320	0.16	0.03	0.33	0.08	0.00	0.00	0.16	0.76								
8325	0.24	0.05	0.48	0.11	0.00	0.00	0.24	1.12								
8335	0.23	0.05	0.00	0.50	0.02	0.00	0.23	1.03								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE	
8340	0.47	0.10	0.00	0.50	0.02	0.00	0.47	1.56								
8345	0.72	0.15	0.00	0.75	0.02	0.00	0.73	2.37								
8350	0.90	0.19	0.00	0.75	0.03	0.00	0.91	2.78								
8355	2.94	0.60	1.19	0.29	0.00	0.00	2.95	7.97								
8360	3.74	0.76	1.19	0.29	0.00	0.00	3.76	9.74								
8365	1.05	0.21	0.86	0.21	0.00	0.00	1.06	3.39								
8370	0.21	0.04	0.19	0.05	0.00	0.00	0.21	0.70								
8375	0.17	0.03	0.38	0.09	0.00	0.00	0.17	0.84								
8380	0.21	0.04	0.48	0.11	0.00	0.00	0.21	1.05								
8385	0.22	0.04	0.48	0.11	0.00	0.00	0.22	1.07								
8400	10.80	4.03	4.23	1.69	2.77	0.42	10.99	34.93	13.50	4.12	5.53	2.21	4.61	0.69	14.66	45.32
8405	16.53	5.73	6.04	1.93	5.77	0.87	13.70	50.57	20.66	5.86	7.90	2.53	9.59	1.44	18.44	66.42
8410	21.09	7.25	7.16	2.29	6.62	0.99	16.11	61.51	26.36	7.42	9.41	3.01	11.00	1.65	21.81	80.66
8415	23.64	8.06	7.98	2.55	6.62	0.99	19.53	69.37	29.54	8.25	10.43	3.34	11.00	1.65	26.29	90.50
8420	24.40	8.30	10.32	2.68	8.78	1.32	20.16	75.96	30.50	8.50	13.39	3.48	15.25	2.29	27.14	100.55
8425	26.02	8.81	10.32	2.68	8.78	1.32	21.49	79.42	32.53	9.03	13.39	3.48	15.25	2.29	28.92	104.89
8430	32.39	11.10	9.76	3.12	9.85	1.48	24.73	92.43	40.48	11.37	12.83	4.11	16.36	2.45	33.49	121.09
8435	37.24	12.65	10.88	3.48	9.85	1.48	30.76	106.34	46.55	12.95	14.23	4.55	16.36	2.45	41.41	138.50
8440	40.34	13.63	16.06	4.18	13.06	1.96	33.29	122.52	50.42	13.96	20.83	5.42	22.69	3.40	44.81	161.53
8445	42.20	14.22	16.06	4.18	13.06	1.96	34.81	126.49	52.75	14.56	20.83	5.42	22.69	3.40	46.86	166.51
8450	46.33	15.73	16.06	4.18	16.21	2.43	38.27	139.21	57.92	16.11	20.83	5.42	28.16	4.22	51.51	184.17
8455	42.43	14.58	11.93	3.82	13.36	2.00	32.41	120.53	53.03	14.93	15.69	5.02	22.19	3.33	43.89	158.08
8460	52.46	17.77	21.79	5.67	17.72	2.66	43.31	161.38	65.58	18.20	28.27	7.35	30.78	4.62	58.31	213.11
8465	55.91	18.87	21.79	5.67	17.72	2.66	46.14	168.76	69.89	19.32	28.27	7.35	30.78	4.62	62.11	222.34
8475	14.65	5.01	5.54	1.77	4.27	0.64	12.11	43.99	18.31	5.13	7.24	2.32	7.09	1.06	16.30	57.45
8480	19.19	6.60	7.05	2.26	6.15	0.92	14.66	56.83	23.99	6.76	9.27	2.97	10.21	1.53	19.86	74.59
8485	21.89	7.43	7.86	2.51	5.76	0.86	18.08	64.39	27.37	7.61	10.28	3.29	9.56	1.43	24.34	83.88
8490	23.65	7.99	11.38	2.96	7.64	1.15	19.52	74.29	29.56	8.18	14.76	3.84	13.27	1.99	26.27	97.87
8495	28.43	9.54	11.38	2.96	8.22	1.23	23.44	85.20	35.53	9.77	14.76	3.84	14.28	2.14	31.55	111.87
8505	10.03	3.73	3.02	1.21	2.41	0.36	10.20	30.96	12.53	3.81	3.95	1.58	4.01	0.60	13.60	40.08
8510	20.54	7.07	7.07	2.26	6.62	0.99	15.69	60.24	25.67	7.24	9.30	2.98	11.00	1.65	21.25	79.09
8515	24.41	8.30	11.72	3.05	8.78	1.32	20.17	77.75	30.52	8.50	15.21	3.95	15.25	2.29	27.15	102.87
8520	23.16	7.90	7.88	2.52	6.62	0.99	19.14	68.21	28.95	8.09	10.31	3.30	11.00	1.65	25.77	89.07
8530	10.01	3.73	4.23	1.69	2.41	0.36	10.19	32.62	12.52	3.81	5.53	2.21	4.01	0.60	13.58	42.26
8535	14.35	4.91	6.04	1.93	4.27	0.64	11.86	44.00	17.93	5.03	7.90	2.53	7.09	1.06	15.97	57.51
8545	15.85	5.49	5.80	1.86	5.50	0.83	13.14	48.47	19.82	5.62	7.59	2.43	9.15	1.37	17.68	63.66
8550	24.55	8.76	6.73	2.15	12.42	1.86	18.87	75.34	30.69	8.97	8.84	2.83	20.85	3.13	25.56	100.87
8555	25.90	9.19	7.50	2.40	12.42	1.86	21.55	80.82	32.38	9.42	9.80	3.14	20.85	3.13	29.02	107.74
8560	30.65	10.78	9.16	2.93	13.02	1.95	23.50	91.99	38.31	11.03	12.04	3.85	21.76	3.26	31.83	122.08
8565	31.66	11.10	10.20	3.27	13.02	1.95	26.29	97.49	39.58	11.36	13.34	4.27	21.76	3.26	35.39	128.96
8570	36.18	12.78	10.46	3.35	16.96	2.54	27.76	110.03	45.22	13.08	13.75	4.40	28.59	4.29	37.60	146.93
8575	37.19	13.10	11.65	3.73	16.96	2.54	30.90	116.07	46.49	13.41	15.24	4.88	28.59	4.29	41.60	154.50
8580	39.07	13.73	11.65	3.73	17.21	2.58	32.45	120.42	48.84	14.06	15.24	4.88	28.98	4.35	43.68	160.03
8585	37.46	13.22	10.46	3.35	17.21	2.58	28.74	113.02	46.83	13.53	13.75	4.40	28.98	4.35	38.92	150.76
8590	38.90	13.76	11.93	3.82	18.87	2.83	29.86	119.97	48.63	14.09	15.69	5.02	31.92	4.79	40.44	160.58
8595	40.19	14.20	11.93	3.82	19.13	2.87	30.84	122.98	50.23	14.54	15.69	5.02	32.30	4.85	41.77	164.40
8600	44.44	15.55	11.93	3.82	19.13	2.87	34.05	131.79	55.55	15.92	15.69	5.02	32.30	4.85	46.11	175.44
8605	41.79	14.71	13.30	4.26	19.13	2.87	34.72	130.78	52.24	15.06	17.39	5.57	32.30	4.85	46.74	174.15
8610	42.76	15.02	13.35	4.27	19.13	2.87	32.78	130.18	53.45	15.38	17.54	5.61	32.30	4.85	44.39	173.52
8615	46.30	16.37	13.35	4.27	21.00	3.15	35.53	139.97	57.87	16.76	17.54	5.61	35.14	5.27	48.12	186.31
8625	33.30	11.51	10.42	3.33	11.35	1.70	25.46	97.07	41.62	11.79	13.69	4.38	18.85	2.83	34.48	127.64
8630	21.88	7.43	6.61	1.72	7.66	1.15	18.07	64.52	27.35	7.61	8.57	2.23	13.30	2.00	24.33	85.39
8635	35.94	12.21	14.20	3.69	12.69	1.90	29.69	110.32	44.93	12.50	18.42	4.79	22.05	3.31	39.97	145.97
8640	44.24	14.99	16.98	4.41	15.05	2.26	36.53	134.46	55.30	15.35	22.02	5.73	26.14	3.92	49.18	177.64
8655	3.55	1.69	0.00	1.00	1.58	0.24	3.43	11.49	4.26	1.72	0.00	1.00	2.06	0.31	4.41	13.76

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CPC	FUEL	FOG	TIRES	TIRES	REPR	TOTAL RATE	DEPR	CPC	FUEL	FOG	TIRES	TIRES	REPR	
					WEAR	RPR						WEAR	RPR			
8660	4.75	2.31	0.00	1.25	2.45	0.37	4.61	15.74	5.70	2.35	0.00	1.25	3.20	0.48	5.93	18.91
8665	5.56	2.71	0.00	1.50	2.85	0.43	5.40	18.45	6.67	2.75	0.00	1.50	3.72	0.56	6.94	22.14
8675	4.61	2.12	0.00	1.50	1.52	0.23	4.42	14.40	5.53	2.15	0.00	1.50	1.98	0.30	5.68	17.14
8680	5.87	2.82	0.00	1.50	2.72	0.41	5.68	19.00	7.04	2.86	0.00	1.50	3.56	0.53	7.30	22.79
8690	2.13	1.02	0.00	0.50	0.93	0.14	2.06	6.78	2.55	1.03	0.00	0.50	1.22	0.18	2.64	8.12
8705	7.61	2.73	3.68	1.03	0.81	0.12	7.68	23.66	9.52	2.79	4.81	1.35	1.38	0.21	10.88	30.94
8710	12.23	4.43	7.35	2.06	1.99	0.30	12.37	40.73	15.28	4.53	9.61	2.69	3.42	0.51	17.52	53.56
8720	12.02	4.25	8.10	2.27	0.45	0.07	12.10	39.26	15.03	4.35	10.59	2.97	0.74	0.11	17.14	50.93
8735	3.27	1.26	1.60	0.58	0.00	0.00	5.13	11.84	4.08	1.29	2.11	0.76	0.00	0.00	6.99	15.23
8740	4.70	1.82	1.98	0.71	0.00	0.00	7.38	16.59	5.88	1.85	2.61	0.94	0.00	0.00	10.06	21.34
8745	6.75	2.61	2.80	1.01	0.00	0.00	10.59	23.76	8.43	2.66	3.68	1.33	0.00	0.00	14.45	30.55
8750	9.45	3.65	3.56	1.28	0.00	0.00	14.83	32.77	11.81	3.72	4.69	1.69	0.00	0.00	20.22	42.13
8760	2.86	1.10	1.65	0.59	0.00	0.00	4.48	10.68	3.57	1.13	2.18	0.78	0.00	0.00	6.11	13.77
8765	3.25	1.26	1.65	0.59	0.00	0.00	5.10	11.85	4.06	1.28	2.18	0.78	0.00	0.00	6.96	15.26
8770	0.64	0.23	0.00	0.08	0.00	0.00	0.69	1.64	0.80	0.23	0.00	0.08	0.00	0.00	0.97	2.08
8775	0.47	0.16	0.00	0.08	0.00	0.00	0.50	1.21	0.58	0.17	0.00	0.08	0.00	0.00	0.70	1.53
8780	4.33	1.67	2.03	0.73	0.00	0.00	6.80	15.56	5.41	1.71	2.68	0.96	0.00	0.00	9.27	20.03
8785	4.90	1.89	2.03	0.73	0.00	0.00	7.69	17.24	6.12	1.93	2.68	0.96	0.00	0.00	10.48	22.17
8790	0.67	0.23	0.00	0.08	0.00	0.00	0.71	1.69	0.84	0.24	0.00	0.08	0.00	0.00	1.00	2.16
8795	0.85	0.30	0.00	0.08	0.00	0.00	0.91	2.14	1.07	0.31	0.00	0.08	0.00	0.00	1.28	2.74
8800	0.91	0.32	0.00	0.08	0.00	0.00	0.97	2.28	1.13	0.32	0.00	0.08	0.00	0.00	1.36	2.89
8805	6.32	2.44	2.67	0.96	0.00	0.00	9.93	22.32	7.90	2.49	3.52	1.27	0.00	0.00	13.54	28.72
8810	7.20	2.78	2.67	0.96	0.00	0.00	11.31	24.92	9.00	2.84	3.52	1.27	0.00	0.00	15.42	32.05
8815	0.92	0.32	0.00	0.08	0.00	0.00	0.98	2.30	1.15	0.33	0.00	0.08	0.00	0.00	1.38	2.94
8820	1.19	0.42	0.00	0.08	0.00	0.00	1.27	2.96	1.48	0.42	0.00	0.08	0.00	0.00	1.78	3.76
8825	1.26	0.44	0.00	0.08	0.00	0.00	1.34	3.12	1.57	0.45	0.00	0.08	0.00	0.00	1.89	3.99
8830	8.70	3.36	3.56	1.28	0.00	0.00	13.66	30.56	10.88	3.43	4.69	1.69	0.00	0.00	18.63	39.32
8835	10.06	3.89	3.56	1.28	0.00	0.00	15.80	34.59	12.58	3.97	4.69	1.69	0.00	0.00	21.55	44.48
8840	1.22	0.43	0.00	0.08	0.00	0.00	1.31	3.04	1.53	0.44	0.00	0.08	0.00	0.00	1.84	3.89
8845	1.52	0.53	0.00	0.08	0.00	0.00	1.63	3.76	1.90	0.54	0.00	0.08	0.00	0.00	2.29	4.81
8850	1.36	0.48	0.00	0.08	0.00	0.00	1.46	3.38	1.70	0.49	0.00	0.08	0.00	0.00	2.05	4.32
8855	12.73	4.92	5.08	1.83	0.00	0.00	19.99	44.55	15.92	5.02	6.70	2.41	0.00	0.00	27.26	57.31
8860	14.77	5.71	5.08	1.83	0.00	0.00	23.20	50.59	18.47	5.82	6.70	2.41	0.00	0.00	31.63	65.03
8865	1.76	0.61	0.00	0.08	0.00	0.00	1.88	4.33	2.20	0.63	0.00	0.08	0.00	0.00	2.64	5.55
8870	1.92	0.67	0.00	0.08	0.00	0.00	2.06	4.73	2.41	0.69	0.00	0.08	0.00	0.00	2.89	6.07
8875	1.75	0.61	0.00	0.08	0.00	0.00	1.86	4.30	2.18	0.62	0.00	0.08	0.00	0.00	2.62	5.50
8880	1.58	0.55	0.00	0.10	0.00	0.00	1.69	3.92	1.98	0.57	0.00	0.10	0.00	0.00	2.38	5.03
8885	20.76	7.26	8.52	2.38	0.00	0.00	24.94	63.86	25.95	7.42	11.22	3.14	0.00	0.00	34.65	82.38
8890	2.68	0.94	0.00	0.12	0.00	0.00	2.86	6.60	3.35	0.96	0.00	0.12	0.00	0.00	4.03	8.46
8895	2.95	1.03	0.00	0.13	0.00	0.00	3.16	7.27	3.69	1.06	0.00	0.13	0.00	0.00	4.44	9.32
8900	2.76	0.97	0.00	0.13	0.00	0.00	2.95	6.81	3.45	0.99	0.00	0.13	0.00	0.00	4.15	8.72
8905	0.07	0.03	0.00	0.05	0.00	0.00	0.08	0.23	0.09	0.03	0.00	0.05	0.00	0.00	0.11	0.28
8910	2.05	0.72	0.00	0.15	0.00	0.00	2.18	5.10	2.56	0.73	0.00	0.15	0.00	0.00	3.07	6.51
8915	24.57	9.22	11.69	2.81	0.00	0.00	27.72	76.01	29.48	9.37	15.40	3.70	0.00	0.00	36.96	94.91
8920	3.52	1.23	0.00	0.18	0.00	0.00	3.76	8.69	4.40	1.26	0.00	0.18	0.00	0.00	5.29	11.13
8925	3.72	1.30	0.00	0.19	0.00	0.00	3.97	9.18	4.65	1.33	0.00	0.19	0.00	0.00	5.59	11.76
8930	3.10	1.09	0.00	0.16	0.00	0.00	3.31	7.66	3.88	1.11	0.00	0.16	0.00	0.00	4.66	9.81
8935	0.92	0.32	0.00	0.12	0.00	0.00	0.98	2.34	1.15	0.33	0.00	0.12	0.00	0.00	1.38	2.98
8940	0.10	0.03	0.00	0.08	0.00	0.00	0.11	0.32	0.12	0.04	0.00	0.08	0.00	0.00	0.15	0.39
8945	2.22	0.78	0.00	0.20	0.00	0.00	2.37	5.57	2.77	0.79	0.00	0.20	0.00	0.00	3.33	7.09
8950	41.32	15.50	17.79	4.27	0.00	0.00	46.62	125.50	49.58	15.75	23.44	5.62	0.00	0.00	62.15	156.54
8955	5.53	1.94	0.00	0.28	0.00	0.00	5.91	13.66	6.91	1.98	0.00	0.28	0.00	0.00	8.31	17.48
8960	6.08	2.13	0.00	0.29	0.00	0.00	6.50	15.00	7.60	2.17	0.00	0.29	0.00	0.00	9.14	19.20
8965	0.11	0.04	0.00	0.08	0.00	0.00	0.12	0.35	0.14	0.04	0.00	0.08	0.00	0.00	0.17	0.43
8970	3.96	1.39	0.00	0.20	0.00	0.00	4.23	9.78	4.95	1.42	0.00	0.20	0.00	0.00	5.95	12.52

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	
8980	3.40	1.31	1.60	0.58	0.00	0.00	5.34	12.23	4.25	1.34	2.11	0.76	0.00	0.00	7.28	15.74	
8985	4.07	1.57	1.98	0.71	0.00	0.00	6.38	14.71	5.08	1.60	2.61	0.94	0.00	0.00	8.71	18.94	
8990	4.37	1.69	2.24	0.81	0.00	0.00	6.85	15.96	5.46	1.72	2.95	1.06	0.00	0.00	9.35	20.54	
8995	0.72	0.25	0.00	0.08	0.00	0.00	0.77	1.82	0.91	0.26	0.00	0.08	0.00	0.00	1.09	2.34	
9000	0.72	0.25	0.00	0.05	0.00	0.00	0.77	1.79	0.90	0.26	0.00	0.05	0.00	0.00	1.09	2.30	
9005	5.83	2.25	2.72	0.98	0.00	0.00	9.15	20.93	7.29	2.30	3.58	1.29	0.00	0.00	12.48	26.94	
9010	6.10	2.36	3.10	1.12	0.00	0.00	9.58	22.26	7.63	2.41	4.08	1.47	0.00	0.00	13.07	28.66	
9015	0.81	0.28	0.00	0.08	0.00	0.00	0.86	2.03	1.01	0.29	0.00	0.08	0.00	0.00	1.21	2.59	
9020	0.99	0.35	0.00	0.05	0.00	0.00	1.05	2.44	1.23	0.35	0.00	0.05	0.00	0.00	1.48	3.11	
9025	8.17	3.16	3.81	1.37	0.00	0.00	12.83	29.34	10.22	3.22	5.02	1.81	0.00	0.00	17.50	37.77	
9030	1.24	0.43	0.00	0.08	0.00	0.00	1.32	3.07	1.54	0.44	0.00	0.08	0.00	0.00	1.86	3.92	
9035	1.23	0.43	0.00	0.05	0.00	0.00	1.32	3.03	1.54	0.44	0.00	0.05	0.00	0.00	1.85	3.88	
9040	12.26	4.74	5.67	2.04	0.00	0.00	19.25	43.96	15.33	4.83	7.47	2.69	0.00	0.00	26.25	56.57	
9045	1.32	0.46	0.00	0.08	0.00	0.00	1.41	3.27	1.64	0.47	0.00	0.08	0.00	0.00	1.98	4.17	
9050	1.38	0.48	0.00	0.08	0.00	0.00	1.48	3.42	1.73	0.49	0.00	0.08	0.00	0.00	2.07	4.37	
9055	1.87	0.66	0.00	0.05	0.00	0.00	2.00	4.58	2.34	0.67	0.00	0.05	0.00	0.00	2.82	5.88	
9060	19.72	6.90	7.63	2.14	0.00	0.00	23.69	60.08	24.65	7.05	10.04	2.81	0.00	0.00	32.90	77.45	
9065	2.61	0.91	0.00	0.12	0.00	0.00	2.79	6.43	3.26	0.93	0.00	0.12	0.00	0.00	3.92	8.23	
9070	2.65	0.93	0.00	0.10	0.00	0.00	2.83	6.51	3.31	0.95	0.00	0.10	0.00	0.00	3.98	8.34	
9075	25.21	9.45	11.57	2.78	0.00	0.00	28.44	77.45	30.25	9.61	15.23	3.66	0.00	0.00	37.92	96.67	
9080	3.95	1.38	0.00	0.22	0.00	0.00	4.22	9.77	4.94	1.41	0.00	0.22	0.00	0.00	5.93	12.50	
9085	4.04	1.42	0.00	0.25	0.00	0.00	4.32	10.03	5.06	1.45	0.00	0.25	0.00	0.00	6.07	12.83	
9090	2.53	0.88	0.00	0.12	0.00	0.00	2.70	6.23	3.16	0.90	0.00	0.12	0.00	0.00	3.79	7.97	
9095	33.87	12.70	13.35	3.20	0.00	0.00	38.22	101.34	40.65	12.91	17.58	4.22	0.00	0.00	50.96	126.32	
9100	4.55	1.59	0.00	0.26	0.00	0.00	4.86	11.26	5.69	1.63	0.00	0.26	0.00	0.00	6.83	14.41	
9105	5.21	1.82	0.00	0.25	0.00	0.00	5.56	12.84	6.51	1.86	0.00	0.25	0.00	0.00	7.82	16.44	
9110	2.91	1.02	0.00	0.12	0.00	0.00	3.10	7.15	3.63	1.04	0.00	0.12	0.00	0.00	4.37	9.16	
9120	3.69	1.43	1.65	0.59	0.00	0.00	5.80	13.16	4.62	1.46	2.18	0.78	0.00	0.00	7.91	16.95	
9125	4.72	1.82	1.98	0.71	0.00	0.00	7.41	16.64	5.90	1.86	2.61	0.94	0.00	0.00	10.10	21.41	
9130	7.07	2.73	2.80	1.01	0.00	0.00	11.09	24.70	8.83	2.79	3.68	1.33	0.00	0.00	15.13	31.76	
9135	8.71	3.37	3.56	1.28	0.00	0.00	13.67	30.59	10.89	3.43	4.69	1.69	0.00	0.00	18.65	39.35	
9140	1.01	0.35	0.00	0.05	0.00	0.00	1.08	2.49	1.26	0.36	0.00	0.05	0.00	0.00	1.51	3.18	
9145	1.14	0.40	0.00	0.05	0.00	0.00	1.21	2.80	1.42	0.41	0.00	0.05	0.00	0.00	1.71	3.59	
9150	13.54	5.24	5.34	1.92	0.00	0.00	21.26	47.30	16.93	5.34	7.03	2.53	0.00	0.00	28.99	60.82	
9155	1.78	0.62	0.00	0.05	0.00	0.00	1.90	4.35	2.23	0.64	0.00	0.05	0.00	0.00	2.68	5.60	
9160	1.20	0.42	0.00	0.05	0.00	0.00	1.29	2.96	1.51	0.43	0.00	0.05	0.00	0.00	1.81	3.80	
9165	18.60	6.51	8.13	2.28	0.00	0.00	22.35	57.87	23.25	6.65	10.71	3.00	0.00	0.00	31.04	74.65	
9170	2.20	0.77	0.00	0.10	0.00	0.00	2.34	5.41	2.74	0.79	0.00	0.10	0.00	0.00	3.30	6.93	
9175	1.81	0.63	0.00	0.12	0.00	0.00	1.94	4.50	2.27	0.65	0.00	0.12	0.00	0.00	2.72	5.76	
9180	0.76	0.27	0.00	0.08	0.00	0.00	0.81	1.92	0.95	0.27	0.00	0.08	0.00	0.00	1.14	2.44	
9185	0.44	0.15	0.00	0.13	0.00	0.00	0.47	1.19	0.55	0.16	0.00	0.13	0.00	0.00	0.66	1.50	
9190	0.07	0.02	0.00	0.08	0.00	0.00	0.07	0.24	0.09	0.02	0.00	0.08	0.00	0.00	0.10	0.29	
9200	2.62	1.01	1.07	0.38	0.00	0.00	4.12	9.20	3.28	1.03	1.41	0.51	0.00	0.00	5.62	11.85	
9205	3.47	1.34	1.78	0.64	0.00	0.00	5.45	12.68	4.34	1.37	2.34	0.84	0.00	0.00	7.43	16.32	
9210	4.10	1.59	1.98	0.71	0.00	0.00	6.44	14.82	5.13	1.62	2.61	0.94	0.00	0.00	8.78	19.08	
9215	6.37	2.46	3.05	1.10	0.00	0.00	10.01	22.99	7.97	2.51	4.02	1.45	0.00	0.00	13.64	29.59	
9220	6.67	2.58	3.05	1.10	0.00	0.00	10.48	23.88	8.34	2.63	4.02	1.45	0.00	0.00	14.29	30.73	
9225	8.55	3.30	4.19	1.51	0.00	0.00	13.42	30.97	10.68	3.37	5.52	1.99	0.00	0.00	18.30	39.86	
9230	9.55	3.69	4.19	1.51	0.00	0.00	14.99	33.93	11.94	3.76	5.52	1.99	0.00	0.00	20.45	43.66	
9240	3.00	1.16	1.68	0.60	0.00	0.00	4.70	11.14	3.74	1.18	2.21	0.80	0.00	0.00	6.41	14.34	
9245	0.52	0.18	0.00	0.15	0.00	0.00	0.55	1.40	0.65	0.19	0.00	0.15	0.00	0.00	0.78	1.77	
9250	4.51	1.74	2.29	0.82	0.00	0.00	7.09	16.45	5.64	1.78	3.01	1.08	0.00	0.00	9.66	21.17	
9255	0.56	0.20	0.00	0.15	0.00	0.00	0.60	1.51	0.70	0.20	0.00	0.15	0.00	0.00	0.85	1.90	
9260	6.96	2.69	3.15	1.13	0.00	0.00	10.92	24.85	8.69	2.74	4.15	1.49	0.00	0.00	14.89	31.96	
9265	0.62	0.22	0.00	0.15	0.00	0.00	0.66	1.65	0.77	0.22	0.00	0.15	0.00	0.00	0.93	2.07	

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	
9270	9.80	3.79	4.19	1.51	0.00	0.00	15.39	34.68	12.25	3.86	5.52	1.99	0.00	0.00	20.98	44.60	
9275	0.81	0.28	0.00	0.15	0.00	0.00	0.86	2.10	1.01	0.29	0.00	0.15	0.00	0.00	1.21	2.66	
9280	13.74	5.31	5.59	2.01	0.00	0.00	21.58	48.23	17.18	5.42	7.37	2.65	0.00	0.00	29.43	62.05	
9285	1.26	0.44	0.00	0.18	0.00	0.00	1.35	3.23	1.58	0.45	0.00	0.18	0.00	0.00	1.90	4.11	
9290	1.35	0.47	0.00	0.20	0.00	0.00	1.44	3.46	1.68	0.48	0.00	0.20	0.00	0.00	2.02	4.38	
9295	20.61	7.21	8.13	2.28	0.00	0.00	24.76	62.99	25.76	7.37	10.71	3.00	0.00	0.00	34.39	81.23	
9300	1.73	0.61	0.00	0.34	0.00	0.00	1.85	4.53	2.17	0.62	0.00	0.34	0.00	0.00	2.60	5.73	
9305	1.83	0.64	0.00	0.34	0.00	0.00	1.95	4.76	2.29	0.65	0.00	0.34	0.00	0.00	2.75	6.03	
9310	26.43	9.25	10.42	2.92	0.00	0.00	31.75	80.77	33.04	9.45	13.73	3.84	0.00	0.00	44.10	104.16	
9315	2.36	0.82	0.00	0.40	0.00	0.00	2.52	6.10	2.94	0.84	0.00	0.40	0.00	0.00	3.54	7.72	
9320	2.15	0.75	0.00	0.58	0.00	0.00	2.29	5.77	2.68	0.77	0.00	0.58	0.00	0.00	3.22	7.25	
9325	38.01	14.26	15.76	3.78	0.00	0.00	42.88	114.69	45.61	14.49	20.76	4.98	0.00	0.00	57.18	143.02	
9330	5.67	1.98	0.00	0.64	0.00	0.00	6.05	14.34	7.08	2.03	0.00	0.64	0.00	0.00	8.51	18.26	
9335	5.33	1.86	0.00	0.61	0.00	0.00	5.69	13.49	6.66	1.90	0.00	0.61	0.00	0.00	8.00	17.17	
9340	4.98	1.74	0.00	0.59	0.00	0.00	5.32	12.63	6.23	1.78	0.00	0.59	0.00	0.00	7.49	16.09	
9350	11.98	4.63	5.21	1.88	0.00	0.00	18.81	42.51	14.97	4.72	6.86	2.47	0.00	0.00	25.65	54.67	
9355	1.25	0.44	0.00	0.05	0.00	0.00	1.34	3.08	1.56	0.45	0.00	0.05	0.00	0.00	1.88	3.94	
9360	1.40	0.49	0.00	0.05	0.00	0.00	1.50	3.44	1.75	0.50	0.00	0.05	0.00	0.00	2.10	4.40	
9365	1.43	0.50	0.00	0.05	0.00	0.00	1.53	3.51	1.79	0.51	0.00	0.05	0.00	0.00	2.15	4.50	
9370	14.95	5.23	6.61	1.85	0.00	0.00	17.96	46.60	18.69	5.35	8.70	2.44	0.00	0.00	24.95	60.13	
9375	1.77	0.62	0.00	0.05	0.00	0.00	1.89	4.33	2.21	0.63	0.00	0.05	0.00	0.00	2.66	5.55	
9380	2.32	0.81	0.00	0.05	0.00	0.00	2.48	5.66	2.90	0.83	0.00	0.05	0.00	0.00	3.48	7.26	
9385	1.93	0.68	0.00	0.05	0.00	0.00	2.06	4.72	2.41	0.69	0.00	0.05	0.00	0.00	2.90	6.05	
9390	20.02	7.00	8.90	2.49	0.00	0.00	24.05	62.46	25.02	7.16	11.72	3.28	0.00	0.00	33.40	80.58	
9395	2.31	0.81	0.00	0.12	0.00	0.00	2.47	5.71	2.89	0.83	0.00	0.12	0.00	0.00	3.47	7.31	
9400	2.53	0.89	0.00	0.13	0.00	0.00	2.70	6.25	3.17	0.91	0.00	0.13	0.00	0.00	3.80	8.01	
9405	2.21	0.77	0.00	0.11	0.00	0.00	2.36	5.45	2.77	0.79	0.00	0.11	0.00	0.00	3.32	6.99	
9410	0.09	0.03	0.00	0.05	0.00	0.00	0.10	0.27	0.12	0.03	0.00	0.05	0.00	0.00	0.14	0.34	
9415	0.59	0.21	0.00	0.11	0.00	0.00	0.63	1.54	0.74	0.21	0.00	0.11	0.00	0.00	0.89	1.95	
9430	13.50	4.49	4.95	1.39	2.46	0.37	10.26	37.42	16.88	4.60	6.51	1.82	5.16	0.77	13.89	49.63	
9435	18.94	6.52	7.30	2.05	6.12	0.92	14.46	56.31	23.67	6.68	9.61	2.69	12.82	1.92	19.59	76.98	
9440	27.63	9.62	10.60	2.97	7.32	1.10	21.14	80.38	34.53	9.86	13.95	3.91	15.34	2.30	28.63	108.52	
9450	20.08	6.95	7.12	1.99	6.90	1.04	15.35	59.43	25.10	7.12	9.36	2.62	14.46	2.17	20.79	81.62	
9455	33.72	11.75	13.48	3.77	8.92	1.34	25.81	98.79	42.16	12.03	17.73	4.96	18.68	2.80	34.95	133.31	
9470	1.58	0.52	1.46	0.41	0.24	0.04	1.20	5.45	1.98	0.54	1.92	0.54	0.49	0.07	1.63	7.17	
9475	1.27	0.43	1.18	0.33	0.30	0.04	0.97	4.52	1.59	0.44	1.55	0.43	0.62	0.09	1.31	6.03	
9480	1.40	0.47	1.46	0.41	0.32	0.05	1.07	5.18	1.75	0.48	1.92	0.54	0.66	0.10	1.44	6.89	
9485	1.74	0.58	1.96	0.55	0.29	0.04	1.32	6.48	2.18	0.59	2.57	0.72	0.61	0.09	1.79	8.55	
9500	0.25	0.09	0.46	0.13	0.04	0.01	0.31	1.29	0.32	0.10	0.60	0.17	0.05	0.01	0.44	1.69	
9505	1.08	0.39	0.93	0.26	0.05	0.01	1.32	4.04	1.35	0.39	1.21	0.34	0.07	0.01	1.84	5.21	
9510	1.50	0.54	1.44	0.40	0.07	0.01	1.84	5.80	1.87	0.55	1.88	0.53	0.10	0.02	2.55	7.50	
9515	2.69	0.98	1.51	0.42	0.21	0.03	3.32	9.16	3.37	1.00	1.98	0.56	0.30	0.05	4.61	11.87	
9520	5.56	2.00	2.47	0.69	0.34	0.05	6.84	17.95	6.95	2.05	3.25	0.91	0.49	0.07	9.50	23.22	
9530	1.84	0.66	0.57	0.16	0.07	0.01	2.26	5.57	2.30	0.67	0.74	0.21	0.10	0.02	3.14	7.18	
9535	3.59	1.29	1.04	0.29	0.21	0.03	4.41	10.86	4.49	1.32	1.36	0.38	0.30	0.05	6.13	14.03	
9540	3.98	1.43	1.30	0.36	0.21	0.03	4.89	12.20	4.97	1.46	1.70	0.48	0.30	0.05	6.79	15.75	
9545	6.42	2.26	2.66	0.75	0.00	0.00	7.85	19.94	8.02	2.31	3.50	0.98	0.00	0.00	10.91	25.72	
9550	12.67	4.46	4.12	1.15	0.00	0.00	15.50	37.90	15.83	4.55	5.42	1.52	0.00	0.00	21.53	48.85	
9565	11.40	4.01	2.36	0.66	0.00	0.00	13.94	32.37	14.24	4.10	3.10	0.87	0.00	0.00	19.37	41.68	
9570	16.58	5.84	3.77	1.06	0.00	0.00	20.29	47.54	20.73	5.96	4.96	1.39	0.00	0.00	28.19	61.23	
9575	21.86	7.69	3.77	1.06	0.00	0.00	26.76	61.14	27.33	7.86	4.96	1.39	0.00	0.00	37.16	78.70	
9585	8.22	2.89	1.58	0.44	0.00	0.00	10.06	23.19	10.27	2.95	2.08	0.58	0.00	0.00	13.97	29.85	
9590	8.88	3.12	1.58	0.44	0.00	0.00	10.87	24.89	11.10	3.19	2.08	0.58	0.00	0.00	15.09	32.04	
9595	9.19	3.23	1.58	0.44	0.00	0.00	11.25	25.69	11.49	3.30	2.08	0.58	0.00	0.00	15.62	33.07	
9600	11.56	4.07	2.40	0.67	0.00	0.00	14.14	32.84	14.44	4.15	3.16	0.89	0.00	0.00	19.64	42.28	

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CPC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CPC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
9605	21.55	7.58	4.12	1.15	0.00	0.00	26.37	60.77	26.93	7.75	5.42	1.52	0.00	0.00	36.62	78.24
9620	1.00	0.27	1.60	0.45	0.13	0.02	1.14	4.61	1.20	0.27	2.14	0.60	0.16	0.02	1.56	5.95
9625	1.26	0.33	1.60	0.45	0.15	0.02	1.42	5.23	1.51	0.34	2.14	0.60	0.20	0.03	1.95	6.77
9630	1.09	0.29	1.60	0.45	0.17	0.03	1.25	4.88	1.31	0.30	2.14	0.60	0.21	0.03	1.71	6.30
9635	1.30	0.35	1.60	0.45	0.20	0.03	1.48	5.41	1.56	0.35	2.14	0.60	0.26	0.04	2.02	6.97
9640	1.15	0.31	1.60	0.45	0.27	0.04	1.31	5.13	1.38	0.32	2.14	0.60	0.34	0.05	1.80	6.63
9645	1.48	0.53	4.20	1.26	0.45	0.07	1.46	9.45	1.97	0.55	5.41	1.62	0.57	0.09	2.27	12.48
9650	2.10	0.74	2.53	0.66	0.45	0.07	2.06	8.61	2.81	0.76	3.29	0.85	0.57	0.09	3.21	11.58
9655	1.73	0.62	4.83	1.45	0.45	0.07	1.71	10.86	2.31	0.64	6.21	1.86	0.57	0.09	2.65	14.33
9660	2.40	0.84	2.53	0.66	0.45	0.07	2.34	9.29	3.19	0.86	3.29	0.85	0.57	0.09	3.64	12.49
9665	1.91	0.68	4.83	1.45	0.52	0.08	1.87	11.34	2.54	0.70	6.21	1.86	0.66	0.10	2.92	14.99
9670	2.39	0.88	2.53	0.66	0.89	0.13	2.37	9.85	3.19	0.90	3.29	0.85	1.14	0.17	3.69	13.23
9675	3.21	1.03	9.04	2.89	0.91	0.14	2.91	20.13	4.28	1.06	11.65	3.73	1.17	0.18	4.53	26.60
9680	4.44	1.41	4.09	1.15	1.11	0.17	4.03	16.40	5.92	1.46	5.32	1.49	1.44	0.22	6.27	22.12
9685	4.65	1.48	4.09	1.15	1.15	0.17	4.22	16.91	6.20	1.53	5.32	1.49	1.48	0.22	6.56	22.80
9690	4.38	1.40	4.09	1.15	1.15	0.17	3.97	16.31	5.84	1.45	5.32	1.49	1.48	0.22	6.18	21.98
9695	5.16	1.63	4.09	1.15	1.15	0.17	4.67	18.02	6.88	1.69	5.32	1.49	1.48	0.22	7.27	24.35
9700	6.79	2.15	5.59	1.57	1.56	0.23	6.15	24.04	9.06	2.22	7.27	2.04	2.02	0.30	9.57	32.48
9705	7.20	2.28	5.59	1.57	1.67	0.25	6.53	25.09	9.60	2.36	7.27	2.04	2.15	0.32	10.15	33.89
9710	6.81	2.16	5.59	1.57	1.67	0.25	6.17	24.22	9.07	2.24	7.27	2.04	2.15	0.32	9.60	32.69
9715	6.77	2.13	6.69	1.87	1.39	0.21	6.12	25.18	9.03	2.20	8.70	2.44	1.80	0.27	9.53	33.97
9725	1.00	0.27	1.93	0.54	0.14	0.02	1.13	5.03	1.19	0.27	2.57	0.72	0.18	0.03	1.55	6.51
9730	1.30	0.34	1.93	0.54	0.14	0.02	1.47	5.74	1.56	0.35	2.57	0.72	0.18	0.03	2.02	7.43
9735	1.44	0.38	1.93	0.54	0.16	0.02	1.63	6.10	1.73	0.39	2.57	0.72	0.21	0.03	2.23	7.88
9740	1.20	0.32	1.93	0.54	0.14	0.02	1.36	5.51	1.44	0.32	2.57	0.72	0.18	0.03	1.86	7.12
9745	1.40	0.37	1.93	0.54	0.17	0.03	1.59	6.03	1.68	0.38	2.57	0.72	0.22	0.03	2.18	7.78
9750	1.31	0.36	1.87	0.52	0.28	0.04	1.50	5.88	1.57	0.36	2.50	0.70	0.35	0.05	2.05	7.58
9755	1.35	0.49	4.40	1.32	0.45	0.07	1.34	9.42	1.80	0.51	5.65	1.70	0.57	0.09	2.08	12.40
9760	1.48	0.53	4.40	1.32	0.45	0.07	1.46	9.71	1.97	0.55	5.65	1.70	0.57	0.09	2.27	12.80
9765	2.16	0.76	2.57	0.67	0.45	0.07	2.11	8.79	2.88	0.78	3.35	0.87	0.57	0.09	3.29	11.83
9770	1.56	0.57	4.89	1.47	0.52	0.08	1.54	10.63	2.08	0.58	6.28	1.88	0.66	0.10	2.40	13.98
9775	3.23	1.13	3.51	0.91	0.65	0.10	3.16	12.69	4.31	1.17	4.56	1.19	0.83	0.12	4.92	17.10
9780	2.99	0.98	8.40	2.69	1.14	0.17	2.73	19.10	3.98	1.02	10.82	3.46	1.47	0.22	4.25	25.22
9785	3.66	1.18	4.80	1.34	1.14	0.17	3.33	15.62	4.88	1.22	6.24	1.75	1.47	0.22	5.18	20.96
9790	4.31	1.36	5.50	1.54	0.90	0.13	3.90	17.64	5.75	1.40	7.15	2.00	1.15	0.17	6.07	23.69
9795	4.82	1.53	4.91	1.38	1.14	0.17	4.36	18.31	6.42	1.58	6.39	1.79	1.47	0.22	6.79	24.66
9800	4.44	1.55	3.59	0.93	0.89	0.13	4.34	15.87	5.92	1.60	4.66	1.21	1.12	0.17	6.76	21.44
9805	5.67	1.78	7.02	1.97	1.14	0.17	5.12	22.87	7.55	1.84	9.13	2.56	1.47	0.22	7.97	30.74
9810	5.76	1.84	7.18	2.01	1.48	0.22	5.23	23.72	7.68	1.90	9.34	2.61	1.88	0.28	8.14	31.83
9815	6.75	2.15	7.18	2.01	1.64	0.25	6.12	26.10	9.00	2.22	9.34	2.61	2.09	0.31	9.53	35.10
9825	1.61	0.56	2.42	0.63	0.33	0.05	1.58	7.18	2.15	0.58	3.14	0.82	0.41	0.06	2.45	9.61
9830	1.43	0.50	4.01	1.20	0.33	0.05	1.40	8.92	1.90	0.52	5.16	1.55	0.41	0.06	2.17	11.77
9835	2.10	0.73	2.57	0.67	0.33	0.05	2.05	8.50	2.80	0.75	3.35	0.87	0.41	0.06	3.18	11.42
9840	2.64	0.92	2.81	0.73	0.45	0.07	2.57	10.19	3.51	0.94	3.65	0.95	0.57	0.09	4.00	13.71
9845	4.45	1.42	4.91	1.38	1.14	0.17	4.04	17.51	5.94	1.47	6.39	1.79	1.47	0.22	6.28	23.56
9850	6.00	1.88	5.38	1.51	1.14	0.17	5.42	21.50	8.00	1.94	7.00	1.96	1.47	0.22	8.43	29.02
9855	6.32	1.97	7.02	1.97	1.14	0.17	5.70	24.29	8.42	2.04	9.13	2.56	1.47	0.22	8.87	32.71
9860	6.14	1.92	4.91	1.38	1.14	0.17	5.54	21.20	8.19	1.98	6.39	1.79	1.47	0.22	8.62	28.66
9865	6.43	2.00	5.38	1.51	1.14	0.17	5.81	22.44	8.58	2.07	7.00	1.96	1.47	0.22	9.03	30.33
9875	6.75	2.11	7.02	1.97	1.27	0.19	6.10	25.41	9.00	2.18	9.13	2.56	1.63	0.25	9.48	34.23
9880	6.80	2.12	7.02	1.97	1.27	0.19	6.14	25.51	9.07	2.20	9.13	2.56	1.63	0.25	9.56	34.40
9885	7.34	2.28	6.32	1.77	1.27	0.19	6.63	25.80	9.79	2.36	8.21	2.30	1.63	0.25	10.31	34.85
9895	7.47	2.34	5.73	1.61	1.60	0.24	6.76	25.75	9.97	2.42	7.45	2.09	2.10	0.31	10.51	34.85
9900	6.58	2.06	7.02	1.97	1.27	0.19	5.94	25.03	8.77	2.13	9.13	2.56	1.63	0.25	9.24	33.71
9905	6.33	1.98	7.02	1.97	1.27	0.19	5.72	24.48	8.44	2.05	9.13	2.56	1.63	0.25	8.90	32.96

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CPC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE	DEPR	CPC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE
9910	7.10	2.21	8.19	2.29	1.27	0.19	6.41	27.66	9.46	2.29	10.65	2.98	1.63	0.25	9.96	37.22
9925	2.63	0.76	0.00	0.10	0.00	0.00	2.49	5.98								
9930	3.16	0.91	0.00	0.10	0.00	0.00	3.00	7.17								
9935	4.89	1.41	0.00	0.10	0.00	0.00	4.64	11.04								
9940	6.05	1.74	0.00	0.10	0.00	0.00	5.75	13.64								
9945	6.69	1.92	0.00	0.10	0.00	0.00	6.35	15.06								
9955	0.63	0.18	0.00	0.09	0.00	0.00	0.60	1.50	0.84	0.19	0.00	0.09	0.00	0.00	0.91	2.03
9960	0.99	0.29	0.00	0.09	0.00	0.00	0.94	2.31	1.33	0.30	0.00	0.09	0.00	0.00	1.44	3.16
9965	1.01	0.29	0.00	0.09	0.00	0.00	0.95	2.34	1.34	0.30	0.00	0.09	0.00	0.00	1.45	3.18
9970	1.02	0.29	0.00	0.09	0.00	0.00	0.97	2.37	1.36	0.30	0.00	0.09	0.00	0.00	1.47	3.22
9980	0.20	0.06	0.00	0.00	0.00	0.00	0.19	0.45								
9985	0.21	0.06	0.00	0.00	0.00	0.00	0.20	0.47								
9990	0.23	0.07	0.00	0.00	0.00	0.00	0.22	0.52								
9995	0.27	0.08	0.00	0.00	0.00	0.00	0.26	0.61								
10000	0.30	0.09	0.00	0.00	0.00	0.00	0.28	0.67								
10005	0.28	0.08	0.00	0.00	0.00	0.00	0.27	0.63								
10015	0.24	0.07	0.00	0.09	0.00	0.00	0.23	0.63								
10020	0.28	0.08	0.00	0.09	0.00	0.00	0.27	0.72								
10025	0.77	0.22	0.00	0.09	0.00	0.00	0.74	1.82								
10030	0.87	0.25	0.00	0.09	0.00	0.00	0.83	2.04								
10040	2.73	0.78	0.00	0.13	0.00	0.00	2.59	6.23								
10045	2.77	0.80	0.00	0.13	0.00	0.00	2.63	6.33								
10050	2.80	0.80	0.00	0.13	0.00	0.00	2.66	6.39								
10055	2.84	0.82	0.00	0.13	0.00	0.00	2.70	6.49								
10065	1.22	0.35	0.00	0.00	0.00	0.00	1.15	2.72								
10070	1.28	0.37	0.00	0.00	0.00	0.00	1.22	2.87								
10075	1.36	0.39	0.00	0.00	0.00	0.00	1.29	3.04								
10090	2.06	0.72	0.00	0.09	0.56	0.08	1.59	5.10	2.57	0.74	0.00	0.09	0.68	0.10	2.32	6.50
10095	2.48	0.86	0.00	0.09	0.56	0.08	1.92	5.99	3.10	0.88	0.00	0.09	0.68	0.10	2.80	7.65
10100	2.50	0.87	0.00	0.09	0.56	0.08	1.94	6.04	3.13	0.89	0.00	0.09	0.68	0.10	2.82	7.71
10105	2.93	1.03	0.00	0.09	0.80	0.12	2.28	7.25	3.67	1.06	0.00	0.09	0.96	0.14	3.32	9.24
10110	3.57	1.22	0.00	0.09	0.68	0.10	2.75	8.41	4.46	1.25	0.00	0.09	0.82	0.12	4.02	10.76
10115	7.21	2.59	0.00	0.09	2.39	0.36	5.61	18.25	9.01	2.65	0.00	0.09	2.88	0.43	8.18	23.24
10120	8.00	2.89	0.00	0.09	2.81	0.42	6.24	20.45	10.00	2.96	0.00	0.09	3.39	0.51	9.10	26.05
10130	2.80	0.96	0.00	0.09	0.56	0.08	2.16	6.65	3.50	0.98	0.00	0.09	0.68	0.10	3.15	8.50
10140	1.26	0.63	0.00	0.09	0.51	0.08	1.03	3.60								
10145	1.41	0.70	0.00	0.09	0.55	0.08	1.15	3.98								
10150	1.55	0.76	0.00	0.09	0.56	0.08	1.26	4.30								
10155	1.73	0.88	0.00	0.13	0.76	0.11	1.43	5.04								
10160	1.80	0.91	0.00	0.13	0.82	0.12	1.48	5.26								
10165	2.11	1.05	0.00	0.13	0.84	0.13	1.73	5.99								
10170	2.19	1.14	0.00	0.13	1.15	0.17	1.82	6.60								
10175	2.75	1.38	0.00	0.13	1.15	0.17	2.26	7.84								
10180	2.85	1.42	0.00	0.13	1.15	0.17	2.33	8.05								
10185	3.33	1.63	0.00	0.17	1.12	0.17	2.71	9.13								
10190	3.53	1.75	0.00	0.17	1.37	0.21	2.88	9.91								
10195	3.97	1.97	0.00	0.17	1.53	0.23	3.24	11.11								
10200	4.45	2.29	0.00	0.17	2.18	0.33	3.68	13.10								
10205	1.04	0.54	0.00	0.09	0.56	0.08	0.86	3.17								
10215	0.96	0.51	0.00	0.09	0.56	0.08	0.80	3.00								
10225	1.24	0.63	0.00	0.11	0.56	0.08	1.02	3.64								
10230	1.25	0.64	0.00	0.11	0.56	0.08	1.03	3.67								
10240	0.63	0.33	0.00	0.10	0.38	0.06	0.53	2.03								
10245	0.71	0.38	0.00	0.10	0.47	0.07	0.60	2.33								
10250	0.77	0.42	0.00	0.10	0.51	0.08	0.65	2.53								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	
10260	2.04	0.89	1.48	0.42	0.20	0.03	1.40	6.46									
10265	2.07	0.94	1.48	0.42	0.41	0.06	1.43	6.81									
10270	2.17	0.98	1.48	0.42	0.41	0.06	1.50	7.02									
10285	19.20	7.64	6.70	2.28	5.70	0.85	14.65	57.02	23.04	7.77	8.65	2.94	9.50	1.42	20.51	73.83	
10290	26.61	10.74	9.67	3.29	9.81	1.47	20.35	81.94	31.94	10.92	12.49	4.25	16.35	2.45	28.49	106.89	
10295	36.78	15.21	12.95	4.40	13.11	1.97	28.24	112.66	44.14	15.46	16.72	5.69	21.86	3.28	39.53	146.68	
10300	16.85	6.76	6.70	2.28	5.70	0.85	12.87	52.01	20.22	6.87	8.65	2.94	9.50	1.42	18.02	67.62	
10305	24.46	10.13	9.67	3.29	12.37	1.86	18.79	80.57	29.36	10.29	12.49	4.25	20.62	3.09	26.30	106.40	
10310	31.46	13.47	12.95	4.40	15.51	2.33	24.29	104.41	37.75	13.69	16.72	5.69	25.85	3.88	34.01	137.59	
10320	12.93	5.25	3.87	1.32	4.64	0.70	9.90	38.61	15.52	5.34	5.00	1.70	7.62	1.14	13.86	50.18	
10325	16.69	6.66	3.87	1.32	4.64	0.70	12.74	46.62	20.03	6.77	5.00	1.70	7.62	1.14	17.84	60.10	
10330	16.31	6.72	3.87	1.32	6.29	0.94	12.51	47.96	19.57	6.83	5.00	1.70	10.12	1.52	17.52	62.26	
10335	18.81	7.66	5.73	1.95	6.29	0.94	14.40	55.78	22.57	7.78	7.40	2.52	10.12	1.52	20.16	72.07	
10340	22.85	9.19	6.70	2.28	7.12	1.07	17.46	66.67	27.42	9.34	8.65	2.94	11.69	1.75	24.45	86.24	
10345	26.61	10.91	6.70	2.28	9.66	1.45	20.40	78.01	31.94	11.08	8.65	2.94	15.53	2.33	28.56	101.03	
10355	12.93	5.16	3.18	1.08	2.87	0.43	9.87	35.52	15.52	5.25	4.11	1.40	4.79	0.72	13.82	45.61	
10360	20.68	8.20	6.70	2.28	5.70	0.85	15.77	60.18	24.82	8.33	8.65	2.94	9.50	1.42	22.08	77.74	
10365	26.75	10.79	9.05	3.08	9.81	1.47	20.45	81.40	32.10	10.97	11.69	3.97	16.35	2.45	28.64	106.17	
10370	35.07	14.42	9.61	3.27	11.76	1.76	26.90	102.79	42.08	14.66	12.42	4.22	19.60	2.94	37.66	133.58	
10375	35.81	14.85	11.23	3.82	13.11	1.97	27.51	108.30	42.97	15.09	14.51	4.93	21.86	3.28	38.51	141.15	
10385	11.58	4.59	3.20	1.09	3.13	0.47	8.83	32.89	13.90	4.66	4.13	1.40	5.22	0.78	12.36	42.45	
10390	16.81	6.69	4.78	1.62	4.91	0.74	12.82	48.37	20.17	6.79	6.17	2.10	8.19	1.23	17.95	62.60	
10395	20.07	8.25	7.34	2.49	9.34	1.40	15.39	64.28	24.09	8.38	9.48	3.22	15.57	2.33	21.55	84.62	
10400	27.06	11.11	9.29	3.16	12.37	1.86	20.75	85.60	32.48	11.29	11.99	4.08	20.62	3.09	29.05	112.60	
10405	39.90	16.38	12.50	4.25	13.11	1.97	30.59	118.70	47.88	16.65	16.14	5.49	21.86	3.28	42.83	154.13	
10410	58.39	23.96	16.25	5.52	19.03	2.86	44.77	170.78	70.07	24.35	20.99	7.14	31.73	4.76	62.68	221.72	
10420	20.52	8.14	6.25	2.12	5.70	0.85	15.65	59.23	24.63	8.27	8.07	2.74	9.50	1.42	21.91	76.54	
10425	28.95	11.62	8.57	2.91	9.81	1.47	22.11	85.44	34.74	11.81	11.07	3.76	16.35	2.45	30.96	111.14	
10430	30.67	12.46	9.55	3.25	12.37	1.86	23.48	93.64	36.81	12.66	12.34	4.20	20.62	3.09	32.87	122.59	
10435	34.53	14.13	10.10	3.44	10.94	1.64	26.46	101.24	41.43	14.36	13.05	4.44	18.24	2.74	37.05	131.31	
10440	38.33	15.79	12.17	4.14	13.11	1.97	29.41	114.92	46.00	16.05	15.72	5.35	21.86	3.28	41.18	149.44	
10445	45.72	19.20	15.62	5.31	19.03	2.86	35.19	142.93	54.86	19.51	20.18	6.86	31.73	4.76	49.27	187.17	
10460	8.53	3.77	3.53	1.13	1.75	0.26	6.96	25.93	10.24	3.83	4.65	1.49	2.35	0.35	9.05	31.96	
10465	14.70	6.68	7.77	2.49	4.42	0.66	12.07	48.79	17.64	6.78	10.23	3.27	5.96	0.89	15.69	60.46	
10470	20.33	9.30	10.60	3.39	6.58	0.99	16.72	67.91	24.40	9.44	13.95	4.46	8.86	1.33	21.74	84.18	
10475	20.85	9.52	10.60	3.39	6.58	0.99	17.14	69.07	25.02	9.66	13.95	4.46	8.86	1.33	22.28	85.56	
10480	25.09	11.47	12.96	4.15	8.09	1.21	20.63	83.60	30.10	11.64	17.05	5.46	10.89	1.63	26.82	103.59	
10485	25.48	11.64	12.96	4.15	8.09	1.21	20.95	84.48	30.58	11.81	17.05	5.46	10.89	1.63	27.23	104.65	
10495	14.72	6.69	7.77	2.49	4.42	0.66	12.09	48.84	17.67	6.79	10.23	3.27	5.96	0.89	15.72	60.53	
10500	20.04	9.18	10.60	3.39	6.58	0.99	16.49	67.27	24.05	9.32	13.95	4.46	8.86	1.33	21.44	83.41	
10505	20.34	9.30	10.60	3.39	6.58	0.99	16.73	67.93	24.40	9.44	13.95	4.46	8.86	1.33	21.74	84.18	
10510	26.12	11.90	12.96	4.15	8.09	1.21	21.46	85.89	31.34	12.08	17.05	5.46	10.89	1.63	27.90	106.35	
10515	26.54	12.08	12.96	4.15	8.09	1.21	21.80	86.83	31.85	12.26	17.05	5.46	10.89	1.63	28.34	107.48	
10530	17.21	7.02	7.77	2.49	6.12	0.92	13.18	54.71	20.65	7.13	10.23	3.27	10.22	1.53	18.45	71.48	
10535	24.97	10.35	10.60	3.39	9.86	1.48	19.18	79.83	29.96	10.52	13.95	4.46	15.96	2.39	26.85	104.09	
10540	39.43	16.50	15.31	4.90	17.93	2.69	30.34	127.10	47.32	16.77	20.15	6.45	29.39	4.41	42.47	166.96	
10550	16.21	6.64	6.53	2.09	5.99	0.90	12.43	50.79	19.46	6.75	8.59	2.75	9.91	1.49	17.40	66.35	
10555	27.29	11.19	10.74	3.44	7.63	1.15	20.93	82.37	32.75	11.37	14.14	4.52	12.62	1.89	29.30	106.59	
10570	17.88	7.27	7.77	2.49	6.12	0.92	13.69	56.14	21.46	7.39	10.23	3.27	10.22	1.53	19.17	73.27	
10575	25.82	10.43	10.60	3.39	8.21	1.23	19.75	79.43	30.98	10.60	13.95	4.46	13.75	2.06	27.64	103.44	
10590	0.59	0.14	0.62	0.17	0.04	0.01	0.89	2.46									
10595	0.60	0.14	0.62	0.17	0.04	0.01	0.90	2.48									
10600	0.49	0.12	0.00	0.00	0.04	0.01	0.74	1.40									
10605	0.56	0.13	0.00	0.00	0.04	0.01	0.85	1.59									
10615	4.53	1.02	3.16	0.88	0.04	0.01	6.76	16.40									

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
10620	6.87	1.54	5.56	1.56	0.04	0.01	10.26	25.84								
10635	1.05	0.43	0.00	0.01	0.00	0.00	0.71	2.20								
10640	1.22	0.51	0.00	0.01	0.00	0.00	0.83	2.57								
10645	1.42	0.59	0.00	0.01	0.00	0.00	0.96	2.98								
10655	1.82	0.79	0.41	0.11	0.20	0.03	1.24	4.60								
10660	2.06	0.89	0.41	0.11	0.20	0.03	1.41	5.11								
10665	2.30	0.99	0.41	0.11	0.20	0.03	1.57	5.61								
10680	0.23	0.07	1.08	0.32	0.00	0.00	0.13	1.83								
10685	0.27	0.09	1.35	0.40	0.00	0.00	0.16	2.27								
10695	0.41	0.15	2.46	0.59	0.02	0.00	0.45	4.08								
10700	0.43	0.16	2.46	0.59	0.02	0.00	0.48	4.14								
10705	0.47	0.17	4.11	0.99	0.02	0.00	0.52	6.28								
10710	0.60	0.22	4.36	1.05	0.02	0.00	0.66	6.91								
10720	0.56	0.20	0.79	0.19	0.02	0.00	0.62	2.38								
10725	0.60	0.22	1.11	0.27	0.02	0.00	0.66	2.88								
10730	0.66	0.24	1.11	0.27	0.05	0.01	0.74	3.08								
10735	0.72	0.26	1.86	0.45	0.05	0.01	0.80	4.15								
10745	0.23	0.07	0.54	0.16	0.00	0.00	0.13	1.13								
10750	0.24	0.08	1.08	0.32	0.00	0.00	0.14	1.86								
10760	0.10	0.03	1.03	0.31	0.00	0.00	0.06	1.53								
10765	0.13	0.04	1.30	0.39	0.00	0.00	0.08	1.94								
10770	0.37	0.12	1.62	0.49	0.00	0.00	0.21	2.81								
10775	0.65	0.21	2.27	0.68	0.00	0.00	0.38	4.19								
10785	0.05	0.02	1.03	0.31	0.00	0.00	0.03	1.44								
10790	0.16	0.05	1.30	0.39	0.00	0.00	0.09	1.99								

APPENDIX A

REFERENCES

1. Haver, J. A. and F. W. Stubbs, Jr., Handbook of Heavy Construction, 2nd ed, McGraw-Hill Company, New York, 1971.
2. Nichols, H. L., Jr., Moving the Earth, 3rd ed, North Castle Books, Greenwich, Connecticut, 1976.
3. Application Manual for Hydraulic Excavators and Shovels, 1st ed, Koehring Company, Milwaukee, Wisconsin, 1981.
4. Bulletin B-502, Goodyear Tire and Rubber Company, Akron, Ohio, January 1986.
5. Caterpillar Performance Handbook, 17th ed, Caterpillar Tractor Company, Peoria, Illinois, 1986.
6. Earthmoving Principles, International Harvester, Pay Line Division, Schaumburg, Illinois, 1975.
7. Euclid Hauler Handbook, 14th ed, Euclid, Inc., Cleveland, Ohio, 1981.
8. "FAR 31.105 Construction and Architect-Engineer Contracts", Federal Acquisition Regulation, Government Printing Office, Washington, D.C., April 1985.
9. "FAR 31.205-10 Cost of Money", Federal Acquisition Regulation, Government Printing Office, Washington, D.C., April 1984.
10. "FAR 31.205-24 Maintenance and Repair Costs", Federal Acquisition Regulation, Government Printing Office, Washington, D.C., April 1984.
11. Fundamentals of Earthmoving, Caterpillar Tractor Company, Peoria, Illinois, 1975.
12. Green Guide for Off-Highway Trucks and Trailers, Dataquest, Inc., Palo Alto, California, 1985, 1986.
13. Green Guide Volume I, Dataquest, Inc., Palo Alto, California, 1985, 1986.
14. Green Guide Volume II, Dataquest, Inc., Palo Alto, California, 1985, 1986.

APPENDIX A

REFERENCES (Cont'd)

15. Means 1987 Labor Rates for the Construction Industry, 11th ed, R. S. Means Company, Inc., Kingston, Massachusetts, 1986.
16. Operating Cost Guide, Power Crane and Shovel Association, Milwaukee, Wisconsin, 1976.
17. Owning and Operating Costs, Fiat-Allis Construction Machinery, Inc., Springfield, Illinois, 1983.
18. "Part 414 - Cost Accounting Standard - Cost of Money as an Element of the Cost of Facilities Capital", Defense Procurement Circular (DPC) #76-2, Government Printing Office, Washington, D.C., August 1976.
19. Producer Prices and Price Indexes, U. S. Department of Labor, Bureau of Labor Statistics, Government Printing Office, Washington, D.C., 1957 through 1986.
20. Production and Cost Estimating of Material Movement with Earthmoving Equipment, General Motors Corp., Terex Division, Hudson, Ohio, 1975.

APPENDIX B

AREA FACTORS

The area factors given in this Appendix were used to compute the hourly equipment rates shown in TABLE 3-1.

Sales or Import Tax Rate:	5.50 %
Working Hours Per Year:	1,450 Hrs/Yr
Labor Adjustment Factor (LAF):	1.030
Electricity Cost Per Kilowatt-Hour:	\$ 0.090 /Kw-Hr
Gasoline Cost Per Gallon:	\$ 0.780 /Gal.
Diesel Cost Per Gallon (Off-Road Use):	\$ 0.620 /Gal.
Diesel Cost Per Gallon (On-Road Use):	\$ 0.780 /Gal.
Freight Rates:	0 thru 24,000 lbs. \$ 7.200 /Cwt.
	over 24,000 thru 50,000 lbs. \$ 6.650 /Cwt.
	over 50,000 thru 60,000 lbs. \$ 5.750 /Cwt.
	over 60,000 thru 80,000 lbs. \$ 4.750 /Cwt.
	over 80,000 thru 9999,900 lbs. \$ 4.000 /Cwt.

APPENDIX C

GUIDE FOR SELECTING OPERATING CONDITIONS

EQUIPMENT TYPE	AVERAGE	SEVERE
Cranes, Crawler Truck	Lift less than rated capacity, intermittent duty.	Continuous lift near rated capacity, excessive swing, abrasive materials, sloped surfaces.
Depreciation Period	13,000 - 20,000 Hrs.	11,000 - 18,000 Hrs.
Shovels	Gravels, silts, well broken rock, lift less than rated capacity.	Extremely abrasive tough materials, lifting near rated capacity, impact breakout.
Depreciation Period	8,000 - 18,000 Hrs.	6,000 - 16,000 Hrs.
Draglines	Gravels, silts, pull and lift less than rated capacity.	Highly abrasive materials, impact breakout, continuous load near rated capacity.
Depreciation Period	12,000 - 20,000 Hrs.	10,000 - 18,000 Hrs.
Backhoes	Clay, earth digging, no breakout impact, easy continuous or intermittent duty.	Rock work, pull near rated capacity, uneven surface, impact breakout, abrasive materials.
Depreciation Period	8,000 - 14,000 Hrs.	6,000 - 12,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

<u>EQUIPMENT TYPE</u>	<u>AVERAGE</u>	<u>SEVERE</u>
Tractors, Crawler Type	Production dozing in clays, sands, gravels and talus rock. Push-loading scrapers, borrow pit ripping, most landclearing and skidding applications. Medium impact conditions.	Heavy rock ripping. Tandem ripping. Pushloading and dozing in hard rock. Continuous high impact conditions.
Depreciation Period	10,000 - 12,000 Hrs.	8,000 - 10,000 Hrs.
Tractors, Wheel-Type	Production dozing, pushloading in clays, sands, silts, loose gravels. Shovel cleanup.	Production dozing in rock. Push-loading in rocky, bouldery borrow pits. High impact conditions.
Depreciation Period	10,000 Hrs.	8,000 Hrs.
Scrapers, Self-Propelled	Varying loading and haul road conditions. Long and short hauls. Adverse and favorable grades. Some impact. Typical road-building use on a variety of jobs.	High impact condition, such as loading ripped rock. Continuous high total resistance conditions. Rough haul roads.
Depreciation Period	10,000 Hrs.	8,000 Hrs.
Trucks, Off Highway	Varying loading and haul road conditions. Typical road-building use on a variety of jobs.	Consistently poor haul road conditions. Oversized loading equipment.
Depreciation Period	12,000 Hrs.	10,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

<u>EQUIPMENT TYPE</u>	<u>AVERAGE</u>	<u>SEVERE</u>
Trucks, Highway	Varying loading and road conditions. Typical construction use on a variety of jobs.	Consistently poor road conditions. Oversized loading equipment.
Depreciation Period	6,000 - 8,000 Hrs.	5,000 - 6,000 Hrs.
Loaders, Front End Wheel Type	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.	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.
Depreciation Period	10,000 - 12,000 Hrs.	8,000 - 10,000 Hrs.
Loaders, Front End Crawler Type	Bank excavation, intermittent ripping, basement digging of natural bed clays, sands, silts, gravels. Some traveling. Steady full throttle operations.	Loading shot rock, cobbles. High density materials in standard bucket. Continuous work on rock surfaces. Large amount of ripping of tight, rocky materials. High impact conditions.
Depreciation Period	10,000 Hrs.	8,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

<u>EQUIPMENT TYPE</u>	<u>AVERAGE</u>	<u>SEVERE</u>
Motor Graders	Haul road maintenance. Road construction, ditching. Loose fill spreading. Land- forming, landleveling. Summer road mainten- ance with medium to heavy winter snow removal. Elevating grader use.	Maintenance of hard packed roads with embedded rock. Heavy fill spread- ing. Ripping- scarifying of asphalt or con- crete. Continuous high load factor. High impact.
Depreciation Period	12,000 Hrs.	10,000 Hrs.

APPENDIX D

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS

TABLE LEGEND

C - OPERATING CONDITIONS
A - AVERAGE CONDITIONS
S - SEVERE CONDITIONS
LFE - EQUIP LIFE (1000 HRS)
SLV - EQUIP SALVAGE (%)
HP - HORSEPOWER FACTOR (%)
FOG-E - ELECTRIC FOG (%)
FOG-G - GAS FOG (%)

TABLE LEGEND

FOG-D - DIESEL FOG (%)
E - ELECT. CONSUMPTION (KW/HP/HR)
G - GAS CONSUMPTION (GAL/HP/HR)
D - DIESEL CONSUMPTION (GAL/HP/HR)
F-TIRE - FRONT TIRE WEAR FACTOR (%)
D-TIRE - DRIVE TIRE WEAR FACTOR (%)
T-TIRE - TRAIL TIRE WEAR FACTOR (%)
RPR - REPAIR FACTOR (%)

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
15	AGGREGATE SPREADERS	A	10	20	50 .000	.051	.030		0 .000	.000	.000		0	24	24	97	69	99	70
30	AIR COMPRESSORS	A	10	25	65 .650	.066	.038		0 .000	.000	.000		45	32	28	0	0	90	70
45	AIR TOOLS, SANDBLASTERS, ETC	A	4	20	65 .650	.066	.038		0 .000	.000	.000		45	32	28	81	65	90	150
60	ASPHALT DISTRIBUTORS	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	71	57	79	85
65	ASPHALT AND CONCRETE PAVERS	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	83	66	92	90
70	ASPHALT KETTLES AND RECYCLERS	A	8	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	76	60	84	80
	BACKHOE (SEE KEY NO. 570-601)																		
75	BROOMS	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	24	28	81	65	90	80
80	BRUSH CHIPPERS	A	10	20	45 .000	.046	.027		0 .000	.000	.000		0	32	28	0	0	90	90
90	BUCKETS, CLAMSHELL & DRAGLINE	A	10	15	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	70
90		S	8	15	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
95	BUCKETS, CONCRETE	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	70
105	CONCRETE OR GROUT PUMP	A	8	15	95 .000	.097	.056		0 .000	.000	.000		45	32	28	81	65	90	90
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	A	8	20	65 .650	.066	.038		0 .000	.000	.000		45	32	28	0	0	90	80
125	CONCRETE FINISHERS, BLASTERS & BUGGIES	A	6	20	70 .700	.071	.041		0 .000	.000	.000		50	32	28	0	0	90	80
130	CONCRETE SAWS	A	8	20	90 .900	.091	.053		0 .000	.000	.000		45	32	38	0	0	90	90
135	CONCRETE VIBRATORS	A	4	20	65 .650	.066	.038		0 .000	.000	.000		45	32	38	0	0	0	250
140	COMPACTORS, MANUALLY OPERATED	A	6	20	90 .900	.091	.053		0 .000	.000	.000		45	24	24	0	0	85	120
	CRAANE, CRAWLER TYPE																		
150	0 THRU 25 TON	A	13	15	40 .000	.041	.024		0 .000	.000	.000		0	32	32	0	0	0	55
150		S	11	15	52 .000	.053	.031		0 .000	.000	.000		0	32	32	0	0	0	60
165	OVER 25 TON THRU 50 TON	A	15	15	40 .000	.041	.024		0 .000	.000	.000		0	20	20	0	0	0	65
165		S	13	15	52 .000	.053	.031		0 .000	.000	.000		0	20	20	0	0	0	70
170	OVER 50 TON THRU 150 TON	A	18	20	40 .000	.041	.024		0 .000	.000	.000		0	22	22	0	0	0	75
170		S	16	20	52 .000	.053	.031		0 .000	.000	.000		0	22	22	0	0	0	80
180	OVER 150 TON	A	20	20	40 .000	.041	.024		0 .000	.000	.000		0	24	24	0	0	0	85
180		S	18	20	52 .000	.053	.031		0 .000	.000	.000		0	24	24	0	0	0	90
	DRAGLINE & CLAMSHELL, CRAWLER																		
185	0 THRU 1 CY	A	12	15	50 .000	.051	.030		0 .000	.000	.000		0	32	32	0	0	0	70
185		S	10	15	65 .000	.066	.038		0 .000	.000	.000		0	32	32	0	0	0	80
190	OVER 1 CY THRU 2-1/2 CY	A	15	15	50 .000	.051	.030		0 .000	.000	.000		0	20	20	0	0	0	80
190		S	13	15	65 .000	.066	.038		0 .000	.000	.000		0	20	20	0	0	0	90
195	OVER 2-1/2 CY THRU 5 CY	A	18	15	50 .000	.051	.030		0 .000	.000	.000		0	22	22	0	0	0	90

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
195		S	16	15	65 .000	.066	.038		0 .000	.000	.000		0	22	22	0	0	0	100
196	OVER 5 CY	A	20	20	50 .000	.051	.030		0 .000	.000	.000		0	24	24	0	0	0	100
196		S	18	20	65 .000	.066	.038		0 .000	.000	.000		0	24	24	0	0	0	110
200	CRANES, HYDRAULIC, SELF-PROPELLED	A	16	15	65 .000	.066	.038		0 .000	.000	.000		0	32	30	89	71	90	70
205	CRANES, TOWER	A	18	25	65 .650	.066	.038		10 .100	.010	.006		50	30	26	0	0	0	80
	CRANES & HYD. EXC. , TRK MD																		
210	UNDER 26 T. (THRU 1 CY)	A	15	15	65 .000	.066	.038		10 .000	.010	.006		0	38	36	97	78	0	50
210		S	13	15	85 .000	.086	.050		13 .000	.013	.007		0	38	36	86	61	0	55
225	26 THRU 65 T (1 TH 2-1/2 CY)	A	18	15	65 .000	.066	.038		10 .000	.010	.006		0	30	26	97	78	0	60
225		S	16	15	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	65
230	66 THRU 125 T	A	20	15	65 .000	.066	.038		10 .000	.010	.006		0	30	26	97	78	0	70
230		S	18	15	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	75
240	OVER 125 T	A	22	15	65 .000	.066	.038		10 .000	.010	.006		0	30	26	97	78	0	80
240		S	20	15	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	85
255	DRILL, AUGER	A	10	20	50 .500	.051	.030		0 .000	.000	.000		45	32	28	67	57	0	90
270	DRILL, BLAST HOLE	A	10	20	80 .800	.081	.047		0 .000	.000	.000		45	32	28	62	44	0	90
300	DRILL, CORE	A	10	20	80 .800	.081	.047		0 .000	.000	.000		45	16	24	0	0	0	90
315	DRILL, ROTARY TO 11" DIA. HOLE	A	15	20	80 .000	.081	.047		10 .000	.010	.006		0	38	38	62	44	0	90
330	DRILL, ROTARY OVER 11" DIA.	A	20	20	80 .000	.081	.047		10 .000	.010	.006		0	32	32	62	44	0	90
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	A	20	20	70 .700	.000	.000		10 .900	.000	.000		50	0	0	0	0	0	45
375	FORK LIFTS	A	10	20	65 .650	.066	.038		0 .000	.000	.000		45	24	24	87	78	90	70
390	GRADERS	A	12	25	60 .000	.061	.035		0 .000	.000	.000		0	20	34	89	71	0	60
390		S	10	25	78 .000	.079	.046		0 .000	.000	.000		0	20	34	71	51	0	70
420	GENERATORS	A	8	15	65 .000	.066	.038		0 .000	.000	.000		0	24	24	0	0	90	60
420		S	7	15	85 .000	.086	.050		0 .000	.000	.000		0	24	24	0	0	90	70
435	HOIST	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	24	24	0	0	0	80
	HYD. EXCAVATOR (SEE KEY NO. 570-601)																		
438	LAWN MOWERS	A	4	15	80 .800	.081	.047		0 .000	.000	.000		45	24	24	81	65	90	60
440	LIGHT PLANTS	A	8	25	85 .000	.086	.050		0 .000	.000	.000		0	24	24	0	0	90	150
450	LOADER, BELT	A	10	20	65 .650	.066	.038		0 .000	.000	.000		45	28	28	26	0	99	90
450		S	8	20	85 .850	.086	.050		0 .000	.000	.000		45	28	28	16	0	96	100
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE, CRAWLER TYPE	A	10	20	70 .000	.071	.041		0 .000	.000	.000		0	32	38	0	0	0	125
460		S	8	20	91 .000	.092	.054		0 .000	.000	.000		0	32	38	0	0	0	130

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
LOADER, WHEEL TYPE																			
465	0 THRU 225 HP	A	10	25	65 .000	.066	.038		0 .000	.000	.000		0	32	42	70	42	0	70
465		S	8	25	85 .000	.086	.050		0 .000	.000	.000		0	32	42	41	22	0	75
470	OVER 225 HP	A	12	15	65 .000	.066	.038		0 .000	.000	.000		0	32	30	70	42	0	70
470		S	10	15	85 .000	.086	.050		0 .000	.000	.000		0	32	30	41	22	0	75
475	LOADER, FRONT END WITH BACKHOE, WHEEL TYPE	A	10	25	65 .000	.066	.038		0 .000	.000	.000		0	32	32	72	50	0	80
475		S	8	25	85 .000	.086	.050		0 .000	.000	.000		0	32	32	57	35	0	85
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	A	6	35	65 .000	.066	.038		0 .000	.000	.000		0	32	32	0	0	0	90
485	PIPELAYERS	A	12	25	35 .000	.000	.021		0 .000	.000	.000		0	0	40	0	0	0	75
485		S	10	25	45 .000	.000	.027		0 .000	.000	.000		0	0	40	0	0	0	85
PUMP, GROUT (SEE KEY NO. 105)																			
495	PUMP, WATER, ENGINE DRIVE	A	10	25	90 .000	.091	.053		0 .000	.000	.000		0	32	38	0	0	0	80
500	PUMP, WATER, ELECTRIC DRIVE	A	10	25	90 .900	.000	.000		0 .000	.000	.000		45	0	0	0	0	0	40
510	RIPPERS	A	8	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
510		S	6	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	90
525	ROLLERS, EXCEPT VIB. ROLLERS	A	10	20	65 .000	.066	.038		65 .000	.066	.038		0	24	24	76	60	84	80
530	ROLLERS, VIBRATORY	A	8	20	90 .000	.091	.053		90 .000	.091	.053		0	32	32	76	60	84	100
535	ROOFING EQUIPMENT	A	6	15	60 .600	.061	.035		0 .000	.000	.000		45	24	24	0	0	90	80
540	SCRAPERS, STANDARD	A	10	15	60 .000	.000	.035		60 .000	.000	.035		0	0	32	59	33	65	60
540		S	8	15	78 .000	.000	.046		78 .000	.000	.046		0	0	32	39	19	43	65
542	SCRAPERS, TANDEM POWERED	A	10	15	62 .000	.000	.037		62 .000	.000	.037		0	0	26	59	33	65	65
542		S	8	15	81 .000	.000	.048		81 .000	.000	.048		0	0	26	39	19	43	70
SCRAPERS, ELEVATING																			
545	0 THRU 200 HP	A	10	20	66 .000	.000	.039		66 .000	.000	.039		0	0	40	59	33	65	75
545		S	8	20	86 .000	.000	.051		86 .000	.000	.051		0	0	40	39	19	43	80
550	OVER 200 HP	A	10	15	66 .000	.000	.039		66 .000	.000	.039		0	0	32	59	33	65	65
550		S	8	15	86 .000	.000	.051		86 .000	.000	.051		0	0	32	39	19	43	70
555	SCRAPERS, TRACTOR DRAWN	A	12	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	65	0	72	70
555		S	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	50	0	55	75
560	SOIL STABILIZERS	A	10	20	66 .000	.000	.039		66 .000	.000	.039		0	0	28	59	33	65	75
560		S	8	20	86 .000	.000	.051		86 .000	.000	.051		0	0	28	39	19	43	85
SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED																			
570	0 THRU 1 CY	A	8	25	60 .000	.061	.035		0 .000	.000	.000		0	38	38	0	0	0	70
570		S	6	25	78 .000	.079	.046		0 .000	.000	.000		0	38	38	0	0	0	80

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
585	OVER 1 CY THRU 2-1/2 CY	A	10	20	60 .000 .061 .035	0 .000 .000 .000	0	20	20	0	0	0	0	80					
585		S	8	20	78 .000 .079 .046	0 .000 .000 .000	0	20	20	0	0	0	0	90					
595	OVER 2-1/2 CY THRU 5 CY	A	12	15	60 .000 .061 .035	0 .000 .000 .000	0	22	22	0	0	0	0	90					
595		S	10	15	78 .000 .079 .046	0 .000 .000 .000	0	22	22	0	0	0	0	100					
600	OVER 5 CY	A	14	15	60 .000 .061 .035	0 .000 .000 .000	0	24	24	0	0	0	0	110					
600		S	12	15	78 .000 .079 .046	0 .000 .000 .000	0	24	24	0	0	0	0	120					
601	OVER 2-1/2 CY ELECTRIC	A	18	20	50 .500 .000 .000	0 .000 .000 .000	25	0	0	0	0	0	0	70					
601		S	16	20	65 .650 .000 .000	0 .000 .000 .000	25	0	0	0	0	0	0	80					
	TRACTOR, CRAWLER TYPE																		
615	0 THRU 225 HP	A	10	25	70 .000 .000 .041	0 .000 .000 .000	0	0	36	0	0	0	0	110					
615		S	8	25	91 .000 .000 .054	0 .000 .000 .000	0	0	36	0	0	0	0	120					
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	A	10	20	70 .000 .000 .041	0 .000 .000 .000	0	0	28	0	0	0	0	90					
620		S	8	20	91 .000 .000 .054	0 .000 .000 .000	0	0	28	0	0	0	0	100					
625	OVER 425 HP	A	12	15	70 .000 .000 .041	0 .000 .000 .000	0	0	24	0	0	0	0	90					
625		S	10	15	91 .000 .000 .054	0 .000 .000 .000	0	0	24	0	0	0	0	100					
630	TRACTOR, BLADES, PUSH BLOCKS,	A	10	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	80					
630	PUSH PLATES & CLEARING BLADES	S	8	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	90					
645	TRACTOR, WHEEL TYPE	A	10	15	65 .000 .066 .038	0 .000 .000 .000	0	24	28	73	44	0	0	60					
645		S	8	15	85 .000 .086 .050	0 .000 .000 .000	0	24	28	38	21	0	0	65					
650	TRENCHER	A	10	20	65 .000 .066 .038	0 .000 .000 .000	0	28	28	91	68	0	0	90					
650		S	8	20	85 .000 .086 .050	0 .000 .000 .000	0	28	28	77	48	0	0	100					
655	TRAILERS, BOTTOM DUMP AND END DUMP	A	10	15	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	65	60				
655		S	8	15	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	54	70				
660	TRAILERS, FLATBED, LO-BOY AND TILT	A	10	30	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	65	50				
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING																		
670	DUMP BODIES	A	8	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	70					
670		S	6	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	80					
675	ALL OTHER ACCESSORIES	A	8	20	65 .650 .066 .000	0 .000 .000 .000	45	32	32	0	0	0	0	70					
	TRUCK, HIGHWAY																		
690	0 THRU 10,000 GVW	A	6	25	15 .000 .015 .009	0 .000 .000 .000	0	28	24	41	29	0	0	70					
690		S	5	25	20 .000 .020 .012	0 .000 .000 .000	0	28	24	36	22	0	0	80					
695	OVER 10,000 THRU 30,000 GVW	A	8	25	35 .000 .035 .020	0 .000 .000 .000	0	30	26	49	39	0	0	60					
695		S	6	25	46 .000 .045 .026	0 .000 .000 .000	0	30	26	42	30	0	0	70					
705	OVER 30,000 GVW	A	8	20	50 .000 .052 .030	0 .000 .000 .000	0	32	28	51	38	57	0	60					
705		S	6	20	65 .000 .067 .039	0 .000 .000 .000	0	32	28	43	29	48	0	70					

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
720	TRUCK, OFF-HIGHWAY	A	12	15	40 .000	.000	.024		0 .000	.000	.000		0	0	34	59	36	65	60
720		S	10	15	52 .000	.000	.031		0 .000	.000	.000		0	0	34	39	21	43	70
765	WAGON, BOTTOM & REAR DUMP	A	12	15	65 .000	.066	.038		0 .000	.000	.000		0	24	32	59	39	65	60
765		S	10	15	85 .000	.086	.050		0 .000	.000	.000		0	24	32	39	22	43	70
780	WAGON, WATER	A	12	20	65 .000	.066	.038		0 .000	.000	.000		0	24	32	73	55	81	60
780		S	10	20	85 .000	.086	.050		0 .000	.000	.000		0	24	32	56	40	62	65
785	WATER BLASTER	A	6	20	95 .000	.097	.056		0 .000	.000	.000		0	24	28	0	0	90	110
795	WATER TANKS	A	12	20	65 .000	.066	.038		0 .000	.000	.000		0	24	28	77	73	90	50
810	WELDERS	A	8	30	80 .000	.081	.047		0 .000	.000	.000		0	24	24	0	0	90	70
811	WELDERS ELECTRIC POWER	A	8	25	60 .600	.000	.000		0 .000	.000	.000		30	0	0	0	0	90	40

APPENDIX E

ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

1967 = 1000

CATEGORY	YEAR PURCHASE NEW												1967 = 1000			
	AGE IN YEARS															
	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	11	12		
Air Equipment	1789	1736	1733	1683	1695	1668	1563	1630	1521	1354	1295	1186	1165			
Asphalt & Concrete Paving Equipment	2768	2685	2687	2611	2583	2620	2461	2296	2111	1941	1815	1686	1610			
Buckets	4881	4713	4640	4527	4471	4541	4313	3879	3280	2963	2738	2520	2175			
Cranes, Draglines & Clamshells - Crawler & Truck Mounted	3632	3478	3395	3339	3282	3213	3009	2782	2512	2301	2138	2010	1843			
Drills	2883	2797	2832	2803	2836	2810	2602	2265	1993	1858	1699	1638	1559			
Generators	3623	3515	3510	3400	3314	3236	3160	2817	2390	2301	2128	2053	1839			
Graders, Motor	3857	3742	3738	3645	3643	3561	3276	2992	2687	2492	2259	2109	1956			
Loaders, Track	3877	3761	3767	3791	3792	3655	3349	3061	2750	2482	2247	2053	1916			
Loaders, Wheel	4104	3981	3973	3944	3873	3788	3441	2938	2606	2375	2156	2002	1907			
Pile Driving Equipment	3778	3665	3626	3570	3519	3439	3208	2894	2562	2329	2135	1989	1852			
Rollers	4304	4155	4090	3926	3744	3431	3199	2913	2653	2396	2139	1983	1872			
Scrapers and Soil Stabilizers	3857	3742	3738	3645	3643	3561	3276	2992	2687	2492	2259	2109	1956			
Shovels, Backhoes & Hydraulic Excavators	3632	3478	3395	3339	3282	3213	3009	2782	2512	2301	2138	2010	1843			
Tractors, Crawler & Attachments	3877	3761	3767	3791	3792	3655	3349	3061	2750	2482	2247	2053	1916			
Tractors, Wheel	3938	3820	3818	3656	3557	3530	3256	2927	2578	2319	2125	1956	1813			
Trenchers	4687	4542	4488	4431	4360	4097	3618	3153	2772	2580	2300	1894	1633			
Trucks, Highway	3516	3291	3139	3055	2934	2824	2638	2324	2108	1934	1775	1646	1524			
Trucks & Wagons - Off Highway	3950	3832	3822	3786	3744	3662	3363	2964	2588	2364	2196	2081	1965			
All Other Equipment	3778	3665	3626	3570	3519	3439	3208	2894	2562	2329	2135	1989	1852			
All Tires & Tubes	2420	2348	2374	2421	2453	2552	2506	2369	2055	1792	1699	1615	1485			
MARINE EQUIPMENT	4003	3902	3749	3633	3497	3391	3239	2922	2587	2352	2156	2008	1870			

APPENDIX E

ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT 1967 = 1000

CATEGORY	YEAR PURCHASE NEW													
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961
	AGE IN YEARS													
	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Air Equipment	1028	935	920	929	936	918	970	1000	992	954	872	853	843	846
Asphalt & Concrete Paving Equipment	1451	1304	1263	1235	1163	1091	1044	1000	963	931	905	872	858	844
Buckets	1838	1430	1370	1316	1188	1062	1025	1000	1000	1003	978	971	953	950
Cranes, Draglines, & Clamshells - Crawler & Truck Mounted	1522	1305	1260	1212	1147	1090	1049	1000	967	930	914	890	868	862
Drills	1373	1249	1184	1160	1115	1052	1037	1000	993	971	914	904	904	901
Generators	1456	1316	1293	1243	1188	1089	1029	1000	947	924	916	901	892	832
Graders, Motor	1604	1361	1244	1208	1152	1101	1053	1000	975	951	923	903	877	869
Loaders, Track	1573	1329	1219	1184	1135	1100	1079	1000	956	936	914	882	861	857
Loaders, Wheel	1584	1362	1317	1261	1197	1144	N/A							
Pile Driving Equipment	1523	1307	1257	1218	1159	1104	N/A							
Rollers	1556	1328	1279	1230	1178	1082	1049	1000	962	936	908	903	900	885
Scrapers, and Soil Stabilizers	1604	1361	1244	1208	1152	1101	1053	1000	975	951	923	903	877	869
Shovels, Backhoes & Hydraulic Excavators	1522	1305	1260	1212	1147	1090	1049	1000	967	930	914	890	868	862
Tractors, Crawler & Attachments	1573	1329	1219	1184	1135	1100	1079	1000	956	936	914	882	861	857
Tractor, Wheel	1498	1288	1251	1211	1152	1109	1050	1000	962	927	902	875	858	858
Trenchers	1527	1384	1316	1284	1207	1113	1051	1000	990	961	950	919	915	902
Truck, Highway	1369	1230	1211	1185	1114	1062	1033	1000	980	975	965	967	975	981
Trucks & Wagons - Off Highway	1568	1315	1293	1245	1190	1135	N/A							
All Other Equipment	1523	1307	1257	1218	1159	1104	1057	1000	965	936	912	890	875	873
All Tires & Tubes	1334	1114	N/A											
Marine Equipment	1538	1320	1269	1230	1170	1115	1067	1000	974	945	921	899	883	881

APPENDIX E

ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

1967 = 1000

CATEGORY	1960	1959	1958	1957	<u>YEAR PURCHASE NEW</u>	
					27	28
Air Equipment	781	775	743	706		
Asphalt & Concrete Paving Equipment	830	812	777	745		
Buckets	950	960	1020	1014		
Cranes, Draglines, & Clamshells - Crawler & Truck Mounted	859	841	817	795		
Drills	852	851	798	737		
Generators	1007	1007	987	936		
Graders, Motor	872	866	829	802		
Loaders, Track	840	817	786	748		
Loaders, Wheel	N/A	N/A	N/A	N/A		
Pile Driving Equipment	N/A	N/A	N/A	N/A		
Rollers	874	819	749	706		
Scrapers, and Soil Stabilizers	872	866	829	802		
Shovels, Backhoes & Hydraulic Excavators	859	841	817	795		
Tractors, Crawler & Attachments	840	817	786	748		
Tractor, Wheel	852	842	825	792		
Trenchers	888	859	833	825		
Truck, Highway	981	1006	986	945		
Trucks & Wagons - Off Highway	N/A	N/A	N/A	N/A		
All Other Equipment	859	841	812	782		
All Tires & Tubes	N/A	N/A	N/A	N/A		
Marine Equipment	867	849	820	790		

APPENDIX F

TIRE LIFE AND TIRE WEAR FACTORS

F-1. The tire wear factors used in this pamphlet are listed in APPENDIX D. Using the methods and tables in "Production and Cost Estimating of Material Movement with Earthmoving Equipment" by Terex Division of General Motors, (dated September 1975), the "useful life" of a new tire is the product of factors from Group A through Group G multiplied by the appropriate maximum tire life from TABLE F-1. A sample computation of the tire wear factors for off-highway haul units is given below.

No.	Condition	Factor	
		Average	Severe
A	Maintenance	1.00	1.00
B	Speeds	0.80	0.85
C	Curves	1.00	0.90
D	Surface Condition	0.90	0.70
E	Loads	0.90	0.80
		0.648	0.428
F	Wheel Positions		
	Trailing (T-Tire)	1.00	1.00
	Front (F-Tire)	0.90	0.90
	Driver (D-Tire)		
	(Rear Dump)	0.70	0.70
	(Bottom Dump)	0.70	0.70
	(Self-Propelled Scrapers)	0.60	0.60
G	Grades		
	(Drive Tire Only)	0.85	0.75
<hr/>			
<u>FINAL TIRE WEAR FACTORS</u>			
	Trailing (T-Tire)	0.65	0.43
	Front (F-Tire)	0.58	0.39
	Driver (D-Tire)		
	(Rear Dump)	0.39	0.22
	(Bottom Dump)	0.39	0.22
	(Self-Propelled Scrapers)	0.33	0.19

Figure F-1. Rear_and_Bottom_Wagons_(Off-Highway),_Scrapers

TABLE F-1. Maximum Tire Life.

Bias Ply Tires:

Off-highway E4, L4, & L5	7,000 Hours
All other bias ply tires	5,000 Hours

Radial Ply Tires:

Off-highway RL4	8,300 Hours
All other radial ply tires	6,000 Hours

APPENDIX G

EQUIPMENT EXTRAS

In addition to features required for safety, the following extras 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:

(1) Crane, Crawler-Mounted.

- (a) Power load lowering.
- (b) Independent swing and travel.
- (c) Third drum.
- (d) Torque converter (Machines 25 ton or larger.)
- (e) One-half maximum boom length (Machines 60 ton or smaller.)
- (f) Maximum boom length (Machines larger than 60 ton.)
- (g) Counterweight.

(2) Dragline and Clamshell, Crawler-Mounted.

- (a) Power load lowering.
- (b) Independent swing and travel.
- (c) Third drum.
- (d) Torque converter (Machines 1-1/2 C.Y. or larger.)
- (e) Approximately one-half maximum boom length.
- (f) Counterweight.

(3) Backhoe and Shovel, Crawler-Mounted.

- (a) Power load lowering.
- (b) Torque converter (Machines 1-1/2 C.Y. or larger.)
- (c) Counterweight.

(4) Truck Crane Less than 25 Ton.

- (a) Power load lowering.
- (b) Third drum.
- (c) Mechanical outriggers w/screw jacks.
- (d) Power steering.
- (e) Maximum boom length.
- (f) Counterweight.

(5) Truck_Crane_25_Ton_and_Larger.

- (a) Power load lowering.
- (b) Third drum.
- (c) Hydraulic outriggers w/screw jacks.
- (d) Torque converter when available (upper only).
- (e) Power steering.
- (f) Diesel engines.
- (g) Maximum boom length.
- (h) Counterweight.

(6) Excavators,_Hydraulic.

- (a) Backhoe bucket (standard).
- (b) Backhoe stick (medium length).
- (c) Backhoe boom (one piece).
- (d) Backhoe bucket linkage (includes cylinder).
- (e) Guards.
- (f) Counterweight.
- (g) Alternator (heavy-duty) and lights.
- (h) Tool kit.

(7) Grader.

- (a) Enclosed operators' cab.
- (b) Scarifier.
- (c) Front wheel lean.
- (d) Power circle.
- (e) Hydraulic shift and tilt moldboard.
- (f) End bits.
- (g) Alternator (heavy-duty) and lights.
- (h) Tool kit.

(8) Belt_Identifier.

- (a) Power unit.
- (b) Head pulley clutch and backstop.
- (c) Belt cleaner and belt installing equip.
- (d) King pin attachment.

(9) Loader_1-1/2_C.Y._and_Larger.

- (a) Reversible fan blade.
- (b) Guard, power train.
- (c) Automatic bucket positioner.
- (d) Counterweight.
- (e) Rock buckets (Machines 4 C.Y. or larger.)
- (f) Alternator (heavy-duty) and lights.
- (g) Tool kit.

(10) Scraper.

- (a) Control single lever.
- (b) Reversible fan blade.
- (c) Flood light.
- (d) Alternator (heavy-duty) and lights.
- (e) Guards, power train.
- (f) Tool kit.

(11) Tractor, Crawler.

- (a) Hydraulic controls for ripper and blade.
- (b) Guards.
- (c) Reversible fan blade.
- (d) Alternator (heavy-duty) and lights.
- (e) Hook, front pull.
- (f) Track Grousers (Severe service for units over 200 hp.)
- (g) Blades include counterweights where required.
- (h) Tool kit.

(12) Tractor, Wheel Dozer.

- (a) Hydraulic controls for ripper and blade.
- (b) Guards.
- (c) Reversible fan blade.
- (d) Alternator (heavy-duty) and lights.
- (e) Blade.
- (f) Counterweight.
- (g) Tool kit.

(13) Trucks, Off-Highway.

- (a) No-spin differential.
- (b) Tacograph.
- (c) Engine and transmission guards.
- (d) Body liners.
- (e) Tool kit.

APPENDIX H
MARINE EQUIPMENT

1. General. Hourly use rates for ownership and operating costs have not been developed for marine equipment since this type of equipment is normally custom designed and built. This appendix, however, presents the methodology for determining the ownership expense expressed as a percent of equipment value, which is defined as the actual acquisition cost plus any capital improvements. The annual ownership percentages and operating cost factors are shown in TABLE H-1 for various types of equipment. When a type of equipment is not listed, the ownership expense percent may be determined by using the percentage listed for a similar type with the same expected life. Equipment permanently attached to floating plant shall be considered marine equipment.

2. Ownership Cost. Ownership cost is based on the equipment value and equals the cost of depreciation plus facilities capital. When cost or pricing data is available, the actual acquisition price shall be used. Otherwise, the value of a similar piece of equipment may be used and, if necessary, adjusted so that capacity, size, and horsepower are properly considered.

a. Depreciation. Depreciation was computed using the straight-line method. The annual rate is determined by dividing the depreciable value by the expected normal life of the equipment in years. When the actual age of a piece of equipment exceeds the normal life, one year shall be added to the actual age for each year past the normal life and the depreciation shall be recomputed. The depreciable value is the acquisition cost, plus any capital improvements, less estimated salvage. Costs for drydocking, which occur periodically, are considered a part of operating costs and will be allocated on an equal annual basis over the years between such occurrences, in accordance with paragraph 31.205-24 of FAR.

b. Cost of Facilities Capital (CFC). The cost of facilities capital (CFC) is computed as shown in paragraph 2-2.c.(2), except that CFC is determined on an annual basis instead of an hourly basis and is expressed here as an annual percentage factor.

$$CFC = \frac{[(N-1)(1+S) + 2]}{2N} (6.10\%)$$

where: N = Number of years in depreciation period
S = Salvage Value Factor

6.10% = Discounted cost of money in effect at the time the work was performed or current rate.

c. The salvage value factor is expressed as a decimal and is shown in TABLE H-1 for different items of equipment.

d. Taxes, storage (layup), and insurance are considered indirect (overhead) costs (see paragraph 2-2.c.(3)). These are not included in ownership rates since they vary by geographic areas and with individual contractors. These costs should not be duplicated in the estimate or submitted proposal.

e. The expected life shown in TABLE H-1 for shore pipeline and floating pipeline is based on average dredging conditions. When more severe conditions are encountered, such as the dredging of very abrasive sand or rock, the expected life should be decreased. Similarly when better than average conditions are encountered, such as dredging mud or silt, the expected life should be increased. In either case, the adjustment should be made only for the time required to dredge the exceptional material. When the dredged material is a combination of various types, a weighted average should be estimated and the expected life adjusted accordingly. The repair of pipelines during the economic life is considered a part of operating costs.

3. Annual Use. Marine equipment is normally operated on multi-shift basis and depending on the job, up to 7 days per week, with costs normally kept on a monthly basis. This is the preferred practice. However, if an hourly or daily basis is used, the monthly cost should be divided by the actual number of hours or days the contractor is working. If the actual time cannot be determined, the monthly cost should be divided by 500 hours (20 hours per day and 25 days per month). In determining the ownership expense for marine equipment as described in the schedule, the average use per year for Region I shall be 7 months.

4. Operating Cost Factors. Marine equipment operating expense factors are shown in TABLE H-1. The use of these factors together with ownership expense allowances will provide the user with information to help generate a rate for a piece of marine equipment. The hourly operating expense factors provided herein are estimated; it is intended that these factors be used only if the estimator does not have factual data available.

a. Fuel consumption factors are prepared on the same basis as paragraph 2-2.d.(2). Prime power refers to the primary operating engine for the dredge, tug, or other piece of marine equipment. Secondary power refers to all other secondary engines or power plants. However, if more than one of these engines is present, the horsepower should be totaled. Fuel factors are given for each piece of equipment; however, engines may not be present on many barges and scows.

b. Water, lube, and supplies (WLS) is similar to the FOG factor described in paragraph 2-2.d.(3). This item is computed as either a percentage of the hourly fuel costs or, if the marine equipment has no engine, a reasonable hourly cost should be included. This factor includes an allowance for the oiler normally assigned to the dredge or other piece of marine equipment.

c. Repairs (RPR) includes an allowance for all major and minor repairs and is similar to the maintenance and repair cost factor described in paragraph 2-2.d.(4). Also required to develop this cost are the Economic Adjustment Factor (EAF) and the Labor Adjustment Factor (LAF). It should also be noted that the repair allowance does not include the following items:

(1) Dredge wear for such items as cutter teeth and main suction pumps are not included due to the wide variety of materials being dredged.

(2) Drydocking costs are not included because they vary greatly depending on the facilities available.

d. In addition to the dredge wear and drydocking items which are not included in the operating factors, there is also no allowance for mobilization, demobilization, or yard costs. These items must all be considered separately by the estimator.

5. Standby. The standby rate is computed by allowing the full CFC monthly rate plus one-fourth of the monthly depreciation. In addition to the standby ownership rate, it may be necessary on dredges to include a small amount for operating costs to account for the operation of a diesel engine generator for power to operate pumps, navigation lights, etc. Standby will not be allowed during periods when the equipment would have otherwise been in idle status.

6. Example. The following example shown in Figure H-1 will provide guidance to illustrate the use of TABLE H-1 and the regional data to generate a rate. Ownership is determined using the annual percentages to account for CFC and depreciation. Operating costs are determined by utilizing formulas from Chapter 2 for FUEL, WLS (FOG) and REPAIRS. Assume a 24" hydraulic dredge was purchased new in 1985 for \$3,700,000 including tax and delivery.

APPENDIX H

TABLE H-1. ANNUAL OWNERSHIP EXPENSE FACTORS AND HOURLY OPERATING FACTORS FOR MARINE EQUIPMENT.

TYPE OF EQUIPMENT	LIFE (YRS)	SALVAGE VALUE FACTOR	PERCENT ANNUAL OWNERSHIP EXPENSE				HOURLY OPERATING EXPENSE FACTORS							
			DEPRE- CIATION CFC	ANNUAL EXPENSE	PRIME POWER HP	SECONDARY POWER G	MLS D	RPR G	D	G	D	G	D	
Hydraulic Dredge, including hydraulic dredges used as														
Booster Pump (on land):														
10-inch thru 14-inch	20	0.05	4.75	3.35	8.10	80	0.000	0.047	70	0.000	0.041	0	33	80
16-inch thru 22-inch	25	0.10	3.60	3.46	7.06	80	0.000	0.047	70	0.000	0.041	0	33	90
24-inch and over	30	0.10	3.00	3.45	6.45	80	0.000	0.047	70	0.000	0.041	0	33	100
Booster Pump & Barge/ Dredge, Pipeline:														
10-inch thru 14-inch	20	0.05	4.75	3.35	8.10	80	0.000	0.047	70	0.000	0.041	0	33	90
16-inch thru 22-inch	25	0.10	3.60	3.46	7.06	80	0.000	0.047	70	0.000	0.041	0	33	110
24-inch and over	30	0.10	3.00	3.45	6.45	80	0.000	0.047	70	0.000	0.041	0	33	120
Dredge, Clamshell/ Dragline	20	0.05	4.75	3.35	8.10	65	0.000	0.038	65	0.000	0.038	0	33	120
Dredge, Dipper/Hyd Excav	25	0.05	3.80	3.32	7.12	75	0.000	0.044	75	0.000	0.044	0	33	130
Bucket Dredge	30	0.10	3.00	3.45	6.45	80	0.000	0.047	70	0.000	0.041	0	33	110
Dump Scow	20	0.05	4.75	3.35	8.10	80	0.000	0.047	70	0.000	0.041	0	33	80
Barges:														
Fuel	20	0.05	4.75	3.35	8.10	20	0.000	0.012	20	0.000	0.012	0	33	60
Water	20	0.05	4.75	3.35	8.10	20	0.000	0.012	20	0.000	0.012	0	33	60
Equipment Or Work	20	0.05	4.75	3.35	8.10	20	0.000	0.012	20	0.000	0.012	0	33	60
Derrick	20	0.10	4.50	3.49	7.99	20	0.000	0.012	20	0.000	0.012	0	33	70
Anchor	20	0.05	4.75	3.35	8.10	20	0.000	0.012	20	0.000	0.012	0	33	60
Drill Boat Or Barge	20	0.10	4.50	3.49	7.99	20	0.000	0.012	20	0.000	0.012	0	33	70
Mooring Barge	20	0.05	4.75	3.35	8.10	20	0.000	0.012	20	0.000	0.012	0	33	60
Tugs & Tenders	20	0.10	4.50	3.49	7.99	80	0.081	0.047	70	0.071	0.041	30	36	90
Launches & Skiffs	12	0.05	7.92	3.44	11.36	60	0.061	0.035	50	0.051	0.030	30	36	80
Crewboat & Workboat	10	0.05	9.50	3.49	12.99	60	0.061	0.035	50	0.051	0.030	30	36	80
Shore Pipeline (Average)	3	0.00	33.33	4.07	37.40	0	0.000	0.000	0	0.000	0.000	0	0	50
Floating Line:														
Pontoon	15	0.00	6.67	3.25	9.92	0	0.000	0.000	0	0.000	0.000	0	0	60
Pipeline/Joints (Avg)	10	0.00	10.00	3.36	13.36	0	0.000	0.000	0	0.000	0.000	0	0	60

M A R I N E E Q U I P M E N T E X A M P L E

1. PERTINENT DATA

- a. Equipment Description.....> 24" Hydraulic Cutter Suction Dredge
- b. Model & Series.....> Ellicott Series 4900 Super Dragon
- c. Present Year.....> 1987
- (1) Economic Index. (APP.B).....> 4003
- d. Year Manufactured.....> 1985
- (1) Economic Index. (APP.B).....> 3749
- e. Equipment Cost
 - (1) Acquisition Price.....> \$3,700,000
 - (2) Capital Improvements.....> \$0
- f. Prime Engine Horsepower.....> 3,730 h.p.
- g. Secondary Engine(s) Horsepower.
 - (1) Electrical Generators - 200 h.p.
 - (2) Hydraulic System - 1325 h.p.
 - (3) Cutter Head Drive - 750 h.p.
 - (4) Hydraulic Water Jet - 200 h.p.

=====

Total Secondary H.P. 2,475 h.p.
- h. Fuel Type.....> Diesel
 - (1) Cost/Gal.(APP.B).....> \$0.62 /gal

2. TABLE H-1 DATA:

- a. Life (yrs).....> 30 yrs
- (1) Annual Use-Months..(para 3)...> 7 mos
- (2) Monthly Usage (estimated hrs).> 500 hrs
- b. Salvage Value Factor.....> 0.10
- c. Prime Engine Fuel Factor.....> 0.047
- d. Secondary Engine Fuel Factor.....> 0.041
- e. WLS Factor.(Water,Lube & Supplies).> 0.33

Figure H-1

2. TABLE H-1 DATA: (Cont'd)

f. LAF (Labor Adjustment Factor APP B) > 1.03

g. Repair Cost Factor.....> 1.20

h. Annual Ownership Expense Percent:

(1) Depreciation Percent.....> 3.00%

(2) CFC Percent.....> 3.45%

Total Hourly Ownership Percent..(3.00% + 3.45%) = 6.45%

3. OWNERSHIP COSTS

a. Equipment Cost = (Acquisition Price + Capital Improvements)

$$(\$3700000 + \$0) = \$3,700,000$$

b. Annual Ownership Cost = (Equipment Cost x Annual Ownership Percent)

(1) Annual Ownership Expense:
(\$3700000 x 6.45%) = \$238,650(2) Monthly Ownership Expense:
(\$238650 / 7 mo.) = \$34,093(3) Hourly Ownership Expense:
(\$34093 / 500 hrs.) = \$68.19

c. Standby Allowance:

$$= [(.25 \times \text{Depr. \%}) + \text{CFC}] \times \text{Equipment Cost} + \text{Generator Allowance}$$

* NOTE: (If Applicable) -Generator Allowance (see Appendix H para 5)
 $= (\text{Generator H.P.} / \text{Total Secondary H.P.}) \times \text{Secondary Fuel Cost}$

(1) Annual Standby Expense:
[((.25 x 3.00%) + 3.45%) x \$3700000] = \$155,400

(2) Monthly Standby Expense: (\$155400/7mo.) = \$22,200

(3) Hourly Standby Expense: (\$22200/500hrs) = \$44.40

* (If Applicable) Generator Allowance:
 $((200 \text{ h.p.} / 2475 \text{ h.p.}) \times \$62.91) = + \$5.08$

Total Hourly Standby Allowance = \$49.48

4. ESTIMATED HOURLY OPERATING COST:

a. Fuel Cost = (Engine Fuel Factor x H.P. x Fuel Cost/Gal)

- (1) Prime Engine Fuel:
 $(0.047 \times 3730 \text{ h.p.} \times \$0.62/\text{gal}) = \$108.69 /hr$
- (2) Secondary Engine Fuel:
 $(0.041 \times 2475 \text{ h.p.} \times \$0.62/\text{gal}) = \$62.91 /hr$

b. WLS Cost = (WLS factor x Hourly Fuel Cost)

- (1) Prime Engine WLS: $(0.33 \times \$108.69/\text{hr}) = \$35.87 /hr$
- (2) Second Engine WLS: $(0.33 \times \$62.91/\text{hr}) = \$20.76 /hr$

c. Repair Cost = (Equip. Cost x Repair Cost Factor x EAF x LAF)/Life (hrs)

(1) EAF = (Econ Index Present Yr / Econ Index Yr of Mfg).

$(4003 \text{ Pres. Yr} / 3749 \text{ Yr of Mfg}) = 1.068$

(2) Life (hrs) = $(30\text{yrs} \times 7\text{mo} \times 500\text{hrs}) = 105,000 \text{ hrs}$

(3) Repair Cost:

$(\$3700000 \times 1.20 \times 1.068 \times 1.03) / 105000 \text{ hrs} = \$46.52 /hr$

d. Subtotal Operating Cost = (Fuel + WLS + Repairs)

$(\$108.69 + \$62.91 + \$35.87 + \$20.76 + \$46.52) = \$274.75 /hr$

5. Subtotal Hourly Ownership & Operating Cost.

$(\$68.19 /hr + \$274.75 /hr) = \$342.94 /hr$

6. Subtotal Monthly Rate = (Hourly Total x Use Hours/Month)

$(\$342.94 /hr \times 500 \text{ hrs}) = \$171,470 /mo$

7. Additive Item(s) (monthly cost to be estimated)

- | | |
|---------------------------------------------|--------------|
| (1) Dredge Wear (Mud, Sand or Gravel).....> | \$24,000 /mo |
| (2) Dry Docking.....> | \$15,000 /mo |
| (3) Yard cost.....> | \$12,000 /mo |
| (4)> | /mo |
| (5)> | /mo |

Subtotal Estimated Additive Items \$51,000 /mo

8. Total Monthly Rate..... ; \$222,470 /mo ;

APPENDIX I

FEDERAL COST OF MONEY RATE

(Renegotiation or Prompt Payment Rate)

July - December 1976.....	8	1/2	%
January - June 1977.....	7	3/4	%
July - December 1977.....	7	7/8	%
January - June 1978.....	8	1/4	%
July - December 1978.....	9		%
January - June 1979.....	9	7/8	%
July - December 1979.....	10	1/4	%
January - June 1980.....	12	1/4	%
July - December 1980.....	10	1/2	%
January - June 1981.....	14	5/8	%
July - December 1981.....	14	7/8	%
January - June 1982.....	14	3/4	%
July - December 1982.....	15	1/2	%
January - June 1983.....	11	1/4	%
July - December 1983.....	11	1/2	%
January - June 1984.....	12	3/8	%
July - December 1984.....	14	3/8	%
January - June 1985.....	12	1/8	%
July - December 1985.....	10	3/8	%
January - June 1986.....	9	3/4	%
July - December 1986.....	8	1/2	%
January - June 1987.....	7	5/8	%

APPENDIX J

TIRE DESCRIPTION AND TIRE COST

J-1. The current tire descriptions and tire cost used to develop the rates in TABLE 3-1 are tabulated on the following pages. These tire prices include allowances for contractor's discount, sales tax, excise tax and tire tubes where applicable. This data is provided to give the user reasonable estimated values for the tires used in conjunction with rate development in this pamphlet. Belts for loaders are also included: sizes shown are width (in.) X length (ft.).

T_i_r_e _D_e_s_c_r_i_p_t_i_o_n

Cost (\$) per Ea	Size	Ply	Type of Tire
56	6.50 X 16.00	6	TT RIB HI-MILER
52	6.70 X 15.00	6	TT RIB HI-MILER
56	7.00 X 15.00	6	TT RIB HI-MILER
65	7.00 X 15.00	6	TL TRACKER LT BLACK
67	G78 X 15.00	6	TL TRACKER LT BLACK
70	H78 X 15.00	6	TL TRACKER LT BLACK
73	L78 X 15.00	6	TL TRACKER LT BLACK
73	8.75 X 16.50	6	TL TRACKER LT BLACK
87	8.75 X 16.50	10	TL TRACKER LT BLACK
89	9.50 X 16.50	8	TL TRACKER LT BLACK
74	7.00 X 15.00	8	TT SUPER HI-MILER
81	7.50 X 15.00	8	TT SUPER HI-MILER
98	7.50 X 16.00	10	TT SUPER HI-MILER
137	7.50 X 20.00	8	TT SUPER HI-MILER
190	8.25 X 20.00	10	TT SUPER HI-MILER
247	8.25 X 20.00	12	TT SUPER HI-MILER
218	9.00 X 20.00	10	TT SUPER HI-MILER
266	9.00 X 20.00	12	TT SUPER HI-MILER
274	10.00 X 20.00	12	TT SUPER HI-MILER
335	10.00 X 20.00	14	TT SUPER HI-MILER
304	10.00 X 22.00	12	TT SUPER HI-MILER
331	11.00 X 20.00	12	TT SUPER HI-MILER
373	11.00 X 20.00	14	TT SUPER HI-MILER
349	11.00 X 22.00	12	TT SUPER HI-MILER
389	11.00 X 22.00	14	TT SUPER HI-MILER
411	11.00 X 24.00	14	TT SUPER HI-MILER
410	11.00 X 20.00	14	TT CUSTOM HI-MILER
134	12.00 X 16.50	10	TT CUSTOM HI-MILER
484	12.00 X 20.00	14	TT CUSTOM HI-MILER
532	12.00 X 20.00	16	TT CUSTOM HI-MILER
701	14.00 X 20.00	18	TT CUSTOM HI-MILER
355	14.00 X 17.50	10	TT CUSTOM HI-MILER
120	6.90 X 15.00	8	TT RIB HI-MILER LP TRAILER

TT = Tube-type Tires

TL = Tubeless Tires

Tire Description

Cost (\$) per Ea	Size	Ply	Type of Tire
187	7.50 X 15.00	12	TT RIB HI-MILER LP TRAILER
196	8.25 X 15.00	12	TT RIB HI-MILER LP TRAILER
211	9.00 X 15.00	12	TT RIB HI-MILER LP TRAILER
229	8.25 X 15.00	14	TT RIB HI-MILER LP TRAILER
248	10.00 X 15.00	12	TT RIB HI-MILER LP TRAILER
279	10.00 X 15.00	14	TT RIB HI-MILER LP TRAILER
433	11.00 X 20.00	14	TT SRL 1
771	14.00 X 20.00	18	TT SRL 1
841	14.00 X 24.00	18	TT SRL 1
938	14.00 X 24.00	20	TT SRL 1
342	10.00 X 20.00	12	TT SRL 1
245	9.00 X 20.00	10	TT CUSTOM CROSS RIB HI-MILER
301	10.00 X 20.00	14	TT CUSTOM CROSS RIB HI-MILER
331	10.00 X 22.00	12	TT CUSTOM CROSS RIB HI-MILER
370	11.00 X 20.00	12	TT CUSTOM CROSS RIB HI-MILER
406	11.00 X 20.00	14	TT CUSTOM CROSS RIB HI-MILER
559	15.00 X 22.50	16	TL CUSTOM HI-MILER SUPER SINGLE
628	16.50 X 22.50	16	TL CUSTOM HI-MILER SUPER SINGLE
593	18.00 X 22.50	16	TL CUSTOM HI-MILER SUPER SINGLE
655	18.00 X 22.50	18	TL CUSTOM HI-MILER SUPER SINGLE
53	5.00 X 12.00	4	TT CAMPER-TRAILER TIRES
115	6.50 X 10.00	10	TT XTRA TRACTION MINE & INDUSTRIAL
180	7.00 X 12.00	10	TT XTRA TRACTION MINE & INDUSTRIAL
234	7.00 X 15.00	12	TT XTRA TRACTION MINE & INDUSTRIAL
229	7.50 X 15.00	10	TT XTRA TRACTION MINE & INDUSTRIAL
255	8.25 X 15.00	12	TT XTRA TRACTION MINE & INDUSTRIAL
408	9.00 X 20.00	12	TT HARD ROCK LUG MINE & INDUSTRIAL
479	10.00 X 20.00	14	TT HARD ROCK LUG MINE & INDUSTRIAL
74	16.25 X 5.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
89	16.25 X 6.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
96	5.90 X 22.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
49	12.00 X 3.50	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
356	12.00 X 22.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
64	13.00 X 4.50	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
408	14.00 X 22.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
91	16.00 X 5.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
102	16.00 X 6.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
460	16.00 X 22.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
132	18.00 X 8.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
158	18.00 X 9.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
113	18.00 X 7.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
102	22.00 X 6.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
195	22.00 X 9.00	HR	PRESSED ON INDUSTRIAL TIRES SMOOTH
38	16.00 X 6.50	4	TL INDUSTRIAL TERRA SOF-TRAC
36	18.00 X 8.50	2	TL INDUSTRIAL TERRA SOF-TRAC
40	18.00 X 8.50	4	TL INDUSTRIAL TERRA SOF-TRAC
51	23.00 X 8.50	4	TL SURE GRIP-XTRA TRACTION TERRA
73	26.50 X 12.00	4	TL SURE GRIP-XTRA TRACTION TERRA
219	31.00 X 15.50	8	TL SURE GRIP-XTRA TRACTION TERRA

TT = Tube-type Tires

TL = Tubeless Tires

Tire Description

Cost (\$) per Ea	Size	Ply	Type of Tire
350	18.40 X 16.10	6	TL POWER TORQUE REAR TRACTOR R-1
318	13.60 X 28.00	6	TL POWER TORQUE REAR TRACTOR R-1
180	9.50 X 24.00	4	TT ALL WEATHER REAR TRACTOR R-3
360	14.90 X 24.00	6	TT ALL WEATHER REAR TRACTOR R-3
445	18.40 X 16.10	6	TT ALL WEATHER REAR TRACTOR R-3
865	23.10 X 26.00	8	TT ALL WEATHER REAR TRACTOR R-3
993	23.10 X 26.00	10	TT ALL WEATHER REAR TRACTOR R-3
346	13.60 X 28.00	6	TT ALL WEATHER REAR TRACTOR R-3
337	14.90 X 24.00	6	TL INDUSTRIAL SURE GRIP R-4
388	14.90 X 24.00	8	TL INDUSTRIAL SURE GRIP R-4
487	16.90 X 24.00	8	TL INDUSTRIAL SURE GRIP R-4
711	16.90 X 28.00	10	TL INDUSTRIAL SURE GRIP R-4
1758	23.10 X 26.00	10	TT LOGGER LUG STEELGARD LS-2
253	14.90 X 24.00	6	TT TRACTION TORQUE REAR TRACTOR R-1
327	16.90 X 24.00	6	TT TRACTION TORQUE REAR TRACTOR R-1
714	18.40 X 30.00	10	TT TRACTION TORQUE REAR TRACTOR R-1
792	23.10 X 26.00	8	TT TRACTION TORQUE REAR TRACTOR R-1
98	7.50 X 16.00	6	TT SINGLE RIB FRONT TRACTOR F-1
101	11.00 X 16.00	10	TL FARM SERVICE I-1
126	12.50 X 15.00	12	TL FARM SERVICE I-1
168	14.00 X 16.10	6	TL FARM SERVICE I-1
83	7.50 X 16.00	8	TT IMPLEMENT RIB I-1
93	7.50 X 16.00	10	TT IMPLEMENT RIB I-1
110	11.00 X 15.00	10	TL LABORER F-3
130	11.00 X 16.00	10	TL LABORER F-3
149	11.00 X 16.00	12	TL LABORER F-3
247	14.50 X 16.10	10	TL LABORER F-3
1175	14.00 X 24.00	20	TT COMPACTOR SMOOTH FLAT TREAD
1454	30.00 X 50.00	2	BELTS FOR LOADERS
1920	36.00 X 50.00	2	BELTS FOR LOADERS
2701	42.00 X 50.00	2	BELTS FOR LOADERS
1920	48.00 X 50.00	2	BELTS FOR LOADERS
7836	48.00 X 50.00	3	BELTS FOR LOADERS
8004	48.00 X 60.00	3	BELTS FOR LOADERS
11285	60.00 X 50.00	4	BELTS FOR LOADERS
13441	60.00 X 60.00	4	BELTS FOR LOADERS
1164	24.00 X 50.00	2	BELTS FOR LOADERS
1372	16.00 X 25.00	24	TL E-1 HARD ROCK RIB
2019	18.00 X 25.00	32	TL E-1 HARD ROCK RIB
1503	18.00 X 25.00	12	TL E-2 EARTHMOVER SURE GRIP
1584	23.50 X 25.00	16	TL E-2 SURE GRIP LUG
1665	23.50 X 25.00	20	TL E-2 SURE GRIP LUG
2804	26.50 X 25.00	24	TL E-2 SURE GRIP LUG
3781	29.50 X 29.00	28	TL E-2 SURE GRIP LUG
4071	29.50 X 29.00	34	TL E-2 SURE GRIP LUG
886	14.00 X 20.00	24	TT E-3 HARD ROCK LUG
999	14.00 X 24.00	20	TT E-3 HARD ROCK LUG
964	14.00 X 24.00	24	TT E-3 HARD ROCK LUG
1166	14.00 X 25.00	20	TL E-3 HARD ROCK LUG

TT = Tube-type Tires

TL = Tubeless Tires

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T_i_r_e_D_e_s_c_r_i_p_t_i_o_n

Cost (\$) per Ea	Size	Ply	Type of Tire
1312	16.00 X 25.00	20	TL E-3 HARD ROCK LUG
1295	16.00 X 25.00	24	TL E-3 HARD ROCK LUG
1842	18.00 X 25.00	20	TL E-3 HARD ROCK LUG
2032	18.00 X 25.00	28	TL E-3 HARD ROCK LUG
2357	18.00 X 33.00	28	TL E-3 HARD ROCK LUG
2890	21.00 X 25.00	24	TL E-3 HARD ROCK LUG
3863	21.00 X 35.00	28	TL E-3 HARD ROCK LUG
4058	21.00 X 35.00	32	TL E-3 HARD ROCK LUG
5117	24.00 X 35.00	36	TL E-3 HARD ROCK LUG
11604	37.50 X 51.00	44	TL E-3 HARD ROCK LUG
6134	24.00 X 49.00	36	TL E-3 HARD ROCK LUG 8
1229	20.50 X 25.00	12	TL E-3 SUPER HARD ROCK LUG
1290	20.50 X 25.00	16	TL E-3 SUPER HARD ROCK LUG
1355	20.50 X 25.00	20	TL E-3 SUPER HARD ROCK LUG
1822	23.50 X 25.00	16	TL E-3 SUPER HARD ROCK LUG
1913	23.50 X 25.00	20	TL E-3 SUPER HARD ROCK LUG
3225	26.50 X 25.00	24	TL E-3 SUPER HARD ROCK LUG
1980	26.50 X 25.00	24	TL E-3 SUPER HARD ROCK LUG
3791	29.50 X 25.00	22	TL E-3 SUPER HARD ROCK LUG
4083	29.50 X 25.00	28	TL E-3 SUPER HARD ROCK LUG
4036	29.50 X 29.00	22	TL E-3 SUPER HARD ROCK LUG
4347	29.50 X 29.00	28	TL E-3 SUPER HARD ROCK LUG
4682	29.50 X 29.00	34	TL E-3 SUPER HARD ROCK LUG
5574	33.25 X 29.00	32	TL E-3 SUPER HARD ROCK LUG
6005	33.25 X 35.00	32	TL E-3 SUPER HARD ROCK LUG
6466	33.25 X 35.00	38	TL E-3 SUPER HARD ROCK LUG
7946	37.50 X 39.00	36	TL E-3 SUPER HARD ROCK LUG
8772	37.50 X 39.00	44	TL E-3 SUPER HARD ROCK LUG
6503	33.50 X 33.00	38	TL E-3 SUPER HARD ROCK LUG
4782	29.50 X 35.00	28	TL E-3 SUPER HARD ROCK LUG 8
4949	33.25 X 29.00	26	TL E-3 SUPER HARD ROCK LUG 8
6284	33.50 X 33.00	38	TL E-3 SUPER HARD ROCK LUG 8
8025	37.25 X 35.00	42	TL E-3 SUPER HARD ROCK LUG 8
7451	37.50 X 33.00	36	TL E-3 SUPER HARD ROCK LUG 8
11026	30.00 X 51.00	46	TL*E-4 HARD ROCK LUG XTRA-TRED 8
1665	16.00 X 25.00	28	TL*E-4 HARD ROCK LUG XTRA-TRED 8
3375	18.00 X 49.00	32	TL*E-4 HARD ROCK LUG XTRA-TRED 8
6337	24.00 X 35.00	42	TL*E-4 HARD ROCK LUG XTRA-TRED 8
6811	24.00 X 43.00	42	TL*E-4 HARD ROCK LUG XTRA-TRED 8
7595	24.00 X 49.00	42	TL*E-4 HARD ROCK LUG XTRA-TRED 8
8983	27.00 X 49.00	42	TL*E-4 HARD ROCK LUG XTRA-TRED 8
1884	18.00 X 25.00	40	TT E-7 EARTHMOVER ALL WEATHER
1305	18.00 X 25.00	16	TL E-7 SAND RIB
2005	21.00 X 25.00	16	TL E-7 SAND RIB
1045	16.00 X 24.00	12	TL G-1 GRADER RIB
345	13.00 X 24.00	8	TL G-2 SURE GRIP GRADER
379	13.00 X 24.00	10	TL G-2 SURE GRIP GRADER
417	13.00 X 24.00	12	TL G-2 SURE GRIP GRADER
438	14.00 X 24.00	10	TL G-2 SURE GRIP GRADER

TT = Tube-type Tires

TL = Tubeless Tires

T_i_r_e_D_e_s_c_r_i_p_t_i_o_n

Cost (\$) per Ea	Size	Ply	Type of Tire
480	14.00 X 24.00	12	TL G-2 SURE GRIP GRADER
581	14.00 X 24.00	16	TL G-2 SURE GRIP GRADER
963	16.00 X 24.00	12	TL G-2 SURE GRIP GRADER
1013	16.00 X 24.00	16	TL G-2 SURE GRIP GRADER
472	15.50 X 25.00	8	TL L-2 SURE GRIP LUG D&L
520	15.50 X 25.00	12	TL L-2 SURE GRIP LUG D&L
640	17.50 X 25.00	12	TL L-2 SURE GRIP LUG D&L
1069	20.50 X 25.00	12	TL L-2 SURE GRIP LUG D&L
1120	20.50 X 25.00	16	TL L-2 SURE GRIP LUG D&L
1624	23.50 X 25.00	12	TL L-2 SURE GRIP LUG D&L
1702	23.50 X 25.00	16	TL L-2 SURE GRIP LUG D&L
1229	20.50 X 25.00	12	TL L-3 SUPER HARD ROCK LUG D&L
1290	20.50 X 25.00	16	TL L-3 SUPER HARD ROCK LUG D&L
1867	23.50 X 25.00	12	TL L-3 SUPER HARD ROCK LUG D&L
1959	23.50 X 25.00	16	TL L-3 SUPER HARD ROCK LUG D&L
2161	23.50 X 25.00	24	TL L-3 SUPER HARD ROCK LUG D&L
3557	26.50 X 25.00	20	TL L-3 SUPER HARD ROCK LUG D&L
4037	29.50 X 25.00	16	TL L-3 SUPER HARD ROCK LUG D&L
4555	29.50 X 29.00	22	TL L-3 SUPER HARD ROCK LUG D&L
5237	29.50 X 29.00	22	TL*L-4 SUPER HARD ROCK LUG D&L XT
8238	33.25 X 35.00	26	TL*L-4 SUPER HARD ROCK LUG D&L XT
6765	35.65 X 33.00	24	TL*L-4 NYLOSTEEL XTRA TREAD D&L B/B
10264	40.65 X 39.00	30	TL*L-4 NYLOSTEEL XTRA TREAD D&L B/B
12923	37.25 X 35.00	42	TL*L-5 SUPER XTRA TREAD D&L
17034	45.65 X 45.00	38	TL*L-5 NYLOSTEEL SUPER XT D&L B/B
3219	18.00 X 25.00	24	TL*L-4S,5S SMOOTH SUPER XT D&L
3380	18.00 X 25.00	28	TL*L-4S,5S SMOOTH SUPER XT D&L
4389	21.00 X 25.00	24	TL*L-4S,5S SMOOTH SUPER XT D&L
638	15.00 X 19.50	12	TL SURE GRIPLOADER SUPER SINGLE
760	16.90 X 30.00	6	TL SMOOTH
60	5.90 X 12.00	4	TL LOADER SERVICE
381	15.00 X 19.50	14	TL ALL SERVICE SUPER SINGLE
610	18.00 X 19.50	16	TL ALL SERVICE SUPER SINGLE
425	17.50 X 24.00	6	TL INDUSTRIAL TORQUE R-4
561	17.50 X 24.00	10	TL INDUSTRIAL TORQUE R-4
817	21.00 X 24.00	12	TL INDUSTRIAL TORQUE R-4
1080	21.00 X 24.00	16	TL INDUSTRIAL TORQUE R-4
696	19.50 X 24.00	10	TL INDUSTRIAL TORQUE R-4
693	19.50 X 24.00	12	TL INDUSTRIAL TORQUE R-4
43	5.70 X 8.00	6	TL HIGHLANDER
49	23.00 X 8.50	4	TL LAWN & GARDEN
39	16.50 X 6.50	4	TL RIB TERRA

TT = Tube-type Tires

TL = Tubeless Tires