



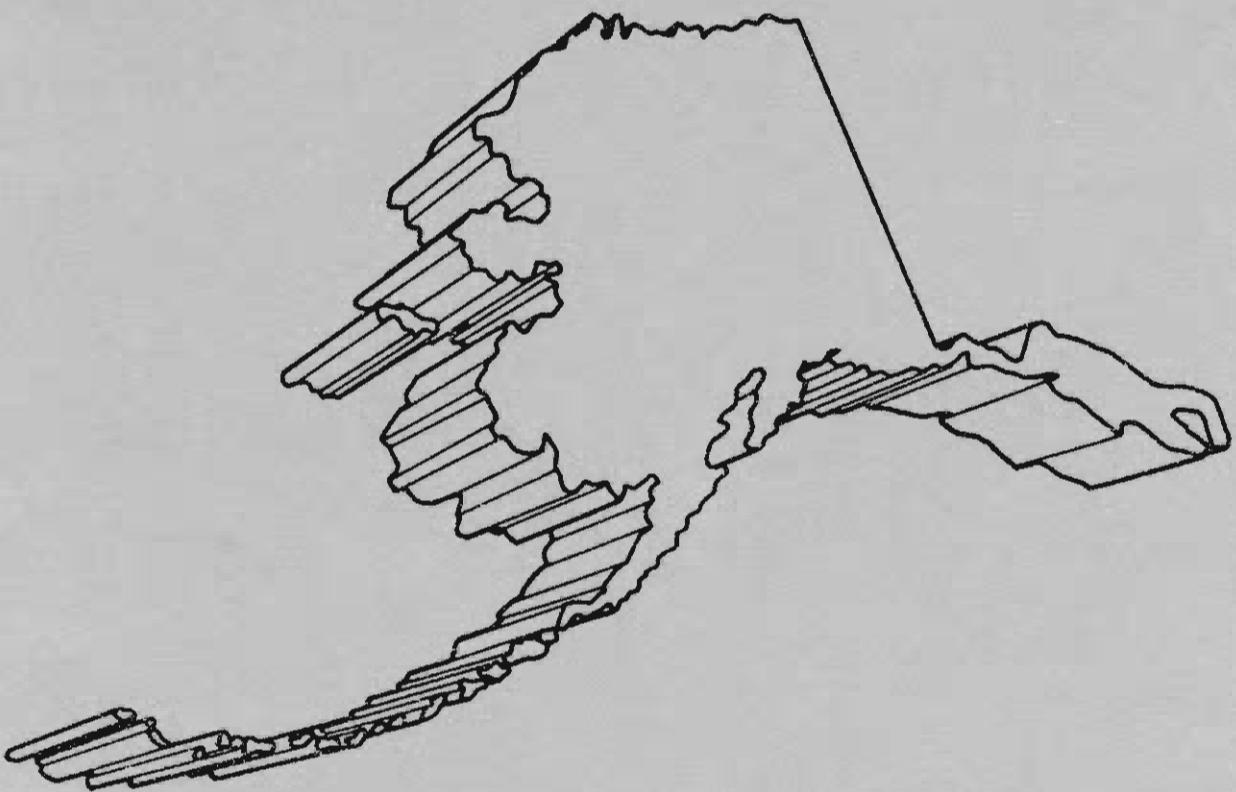
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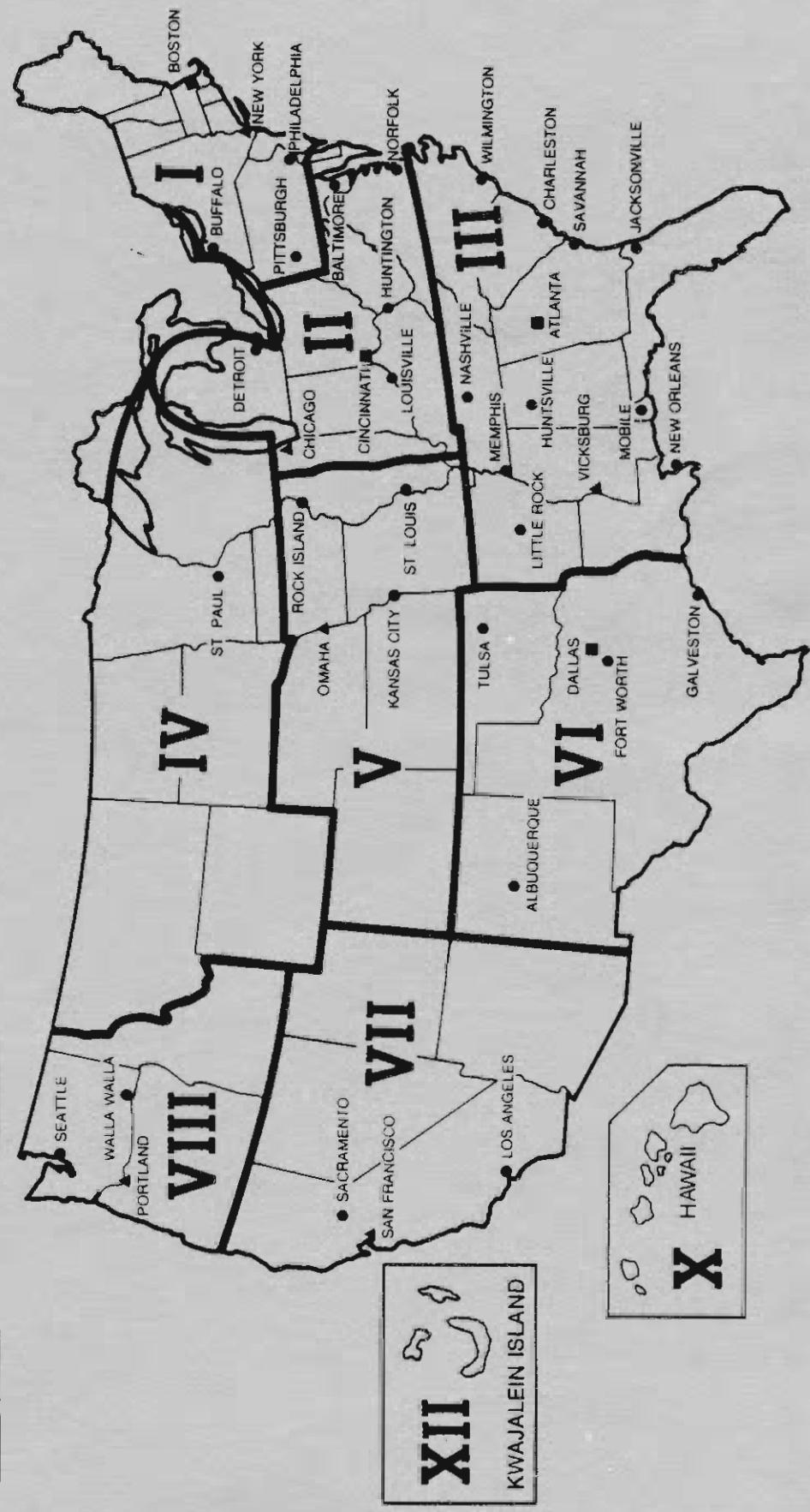
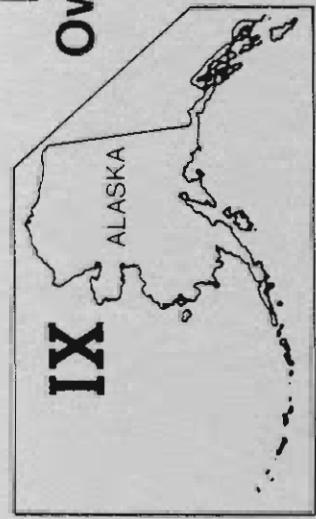
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Construction Equipment Ownership and Operating Expense Schedule

Region IX



Regions for the Construction Equipment Ownership and Operating Expense Schedule



DAEN-ECE-S

DEPARTMENT OF THE ARMY
US Army Corps of Engineers
Washington, DC 20314-1000

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No. 1110-1-8

1 June 1986

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 IX which includes the following states:

Alaska

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 1984. The percentages for marine equipment provide an allowance for ownership expenses only. This pamphlet will be updated annually or more frequently if necessary.

FOR THE COMMANDER:

Arthur E. Williams
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Chief of Staff

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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 IX, which includes the following state:

Alaska

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 1984. The percentages for marine equipment provide an allowance for ownership expenses only. This pamphlet will be updated annually or more frequently if necessary.

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 (except dredging) 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 each piece of equipment or equipment groups of similar serial and series is not available.

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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 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 paragraph 2-3.

2-2. Construction Equipment.

a. General. The total hourly rates include all costs of owning and operating equipment except operating labor and 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 17.5 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 1984.

(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.

(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 (9.75%) 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 7.80% to avoid duplication when applying markups for overhead and profit.

$$CFC/\text{hr} = \frac{[(N-1)(1+S)+2]}{2N} \cdot \frac{(\text{Equipment Cost})}{(\text{Work Hrs per Year})} (7.80\%)$$

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:

$$\text{Repairs/Hr} = \frac{(\text{New Equipment Cost} - \text{Tire Cost}) (\text{Repairs \%})}{\text{Life in Hrs}}$$

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.

(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>3265</u>	
(1) Equipment Description <u>P/H TRUCK Crane, 50 TON</u>	
(2) Model and Series <u>650A-TC w/ 150' BOOM</u>	
(3) Year Purchased <u>1984</u>	(4) Year Manufactured <u>1984</u>
(5) Equipment Horsepower <u>135</u>	(6) Carrier Horsepower <u>236</u>
(7) Fuel Type <u>Diesel/Diesel</u>	(8) Shipping Weight <u>122,200 lbs</u>
(9) Tire Size: Front- <u>14x20 18pr</u> Drive- <u>14x20 18pr</u> Trailing- <u>—</u>	
b. Key Number from APPENDIX D <u>225</u>	
(1) Condition <u>Average</u>	
(2) Salvage Value % <u>.15%</u>	(3) Life <u>18,000 hrs</u>
(4) Equipment Fuel Factor <u>.038</u>	(5) Carrier Fuel Factor <u>.006</u>
(6) FOG Factor: Gas <u>N/A</u>	Diesel <u>.26</u> Electric <u>N/A</u>
(7) Tire Wear Factor: Front <u>.97</u>	Drive <u>.78</u> Trailing <u>N/A</u>
(8) Repairs Cost Factor <u>.60</u>	
2. EQUIPMENT COST	
a. List Price Year of Manufacture (including extras)	<u>-\$ 451,999.00</u>
(1) Discount: (List Price) x *7.5% *(17.5% for Highway Trucks) <u>= (\$ 451,999) x .075</u>	<u>= (-) \$ 33,899.92</u>
(2) Freight: (Shipping Weight) x (Prep. and Del. Rate) <small>From 1-a-(8) From APPENDIX B</small> <u>= (1222 cwt) x (\$ 13.90)</u>	<u>= (+) \$ 16,985.80</u>
b. Subtotal: Summation of Part a. (Use actual cost when available)	<u>= \$ 435,084.88</u>
(1) State Sales Tax: (Subtotal) x (Tax Rate) <small>From 2-b</small> <u>= (\$ 435,085) x (0.00)</u>	<u>= (+) \$ 0.00</u>
c. Equipment Cost: Summation of Part b. (Use actual cost when available)	<u>= \$ 435,084.88</u>

Figure 2-1. Example of Equipment Rate Computation.

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

3. LIFE (N)

$$= (\underline{18,000} \text{ Hrs}) + (\underline{1150} \text{ Hrs/Yr}) \quad \underline{1565 \text{ yrs.}}$$

4. ECONOMIC ADJUSTMENT FACTOR (EAF)

(Economic Index for Present) + (Economic Index for Year)
Year From APPENDIX E of Manufactura From APP. E
- (3463) + (3339) = -1037 (EAP)

5. SALVAGE VALUE FACTOR (S)

$$(.15) \times (.037) = .156(S)$$

6. OWNERSHIP COSTS

b. Depreciation:

$$= (\$ \underline{\underline{435,085}}) \times [1.0 - (\underline{.156})] - (\underline{\underline{\$ 10,258}}) + (\underline{\underline{18,000}} \text{ Br.}) = \$ \underline{\underline{19,831}} \text{ Br.}$$

b. Cost of Facilities Capital (CPC):

$$(1) \frac{\text{Life}}{3} = [(From - 1.0) \times \frac{(S From + 1.0)}{5} + 2.0] + \frac{[(From \times 2.0)]}{3}$$

$$= \{[(\underline{15.65 \text{ yrs}}) - 1.0] \times [(\underline{-1.156}) + 1.0] + 2.0\} + \{[(\underline{15.65 \text{ yrs}}) \times 2.0]\} = \underline{605}$$

(2) $\frac{\text{Equipment Cost}}{2-\text{c}} \times \frac{\text{Average Value Factor}}{\text{From 6-b-(1)}} \times \frac{\text{CPC Factor}}{\text{From Para. 1-2-2.c. (2)}} + \frac{\text{Hrs Use}}{\text{APP. B}}$ = \$ 17.85 /hr.

c. Total Hourly Ownership: (Sum 6-a + 6-b-(2)) - \$ 37.68/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.
 $= (.038) \times (135 \text{ HP}) \times (\$1.06/\text{Gal}) = \$5.44/\text{Hr.}$

(2) Carrier: (Carrier Fuel Factor) x (H.P. From) x (Fuel Cost)
 From 1-b-(5) 1-a-(6) Per Gal.
 $= (.006) \times (236 \text{ HP}) \times (\$1.15/\text{Gal}) = \$1.63/\text{Hr.}$

(3) Total Fuel Costs: (Sum 7-a-(1), 7-a-(2)) $= \$7.07/\text{Hr.}$

b. FOG Costs:

(1) Equipment: (FOG Factor) x (Hourly Fuel Cost)
 From 1-b-(6) From 7-a-(1)
 $= (.26) \times (\$5.44/\text{Hr}) = \$1.41/\text{Hrs.}$

(2) Carrier: (FOG Factor) x (Hourly Fuel Cost)
 From 1-b-(6) From 7-a-(2)
 $= (.26) \times (\$1.63/\text{Hr}) = \$0.42/\text{Hr.}$

(3) Total FOG Costs: (Sum 7-b-(1), 7-b-(2)) $= \$1.83/\text{Hr.}$

c. Repairs Cost:

(1) Repair Factor:
 (Repairs Cost Factor) x (EAP) x (LAP From)
 From 1-b-(8) From 4 APP. B
 $= (.60) \times (1.037) \times (.27) = .79$

(2) Hourly Repairs:
 Equipment
 [(Cost From) - (Tire Cost)] x (Repair Factor) + (From)
 2-c Yr. of Mfg. From 7-c-(1) 1-b-(3)
 $= [(\$435,085) - (\$10,258)] \times (.79) + (\$18,000/\text{Hr}) = \$18.65/\text{Hr.}$

Figure 2-1. (Continued)

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

d. Tire Wear Costs (Current Price Levels):

$$(1) \text{Front Tires: } 1.5 \times (\text{Tires}) + [1.8 \times (\text{Ptr Frm}) \times (\text{Life Frm})] \\ \text{Cost} \quad \text{Front} \quad \text{P-Tire} \quad \text{Max Tire} \\ 1-b-(7) \quad \text{Tbl F-1} \\ = 1.5 \times (\underline{\underline{\$3392}}) + [1.8 \times (\underline{\underline{.97}}) \times (\underline{\underline{\$5000}} \text{Hr})] = \$ \underline{\underline{.58}} / \text{Hr.}$$

$$(2) \text{Drive Tires: } 1.5 \times (\text{Tires}) + [1.8 \times (\text{Ptr Frm}) \times (\text{Life Frm})] \\ \text{Cost} \quad \text{Drive} \quad \text{D-Tire} \quad \text{Max Tire} \\ 1-b-(7) \quad \text{Tbl F-1} \\ = 1.5 \times (\underline{\underline{\$6785}}) + [1.8 \times (\underline{\underline{.78}}) \times (\underline{\underline{\$5000}} \text{Hr})] = \$ \underline{\underline{1.45}} / \text{Hr.}$$

$$(3) \text{Trailing Tires: } 1.5 \times (\text{Tires}) + [1.8 \times (\text{Ptr Frm}) \times (\text{Life Frm})] \\ \text{Cost} \quad \text{Trig} \quad \text{T-Tire} \quad \text{Max Tire} \\ 1-b-(7) \quad \text{Tbl F-1} \\ = 1.5 \times (\underline{\underline{\$ }}) + [1.8 \times (\underline{\underline{\$ }}) \times (\underline{\underline{\$ }} \text{Hr})] = \$ \underline{\underline{\$ }} / \text{Hr.}$$

$$(4) \text{Total Tire Wear Cost: (Sum 7-d-(1) thru (3))} \quad = \$ \underline{\underline{2.03}} / \text{Hr.}$$

e. Tire Repair Cost: (Tire Wear) $\times 0.15$
Frm 7-d-(4)

$$= (\underline{\underline{\$2.03}}) \times 0.15 \quad = \$ \underline{\underline{.30}} / \text{Hr.}$$

f. Total Operating Costs: (Sum 7-a thru 7-e) $= \$ \underline{\underline{29.88}} / \text{Hr.}$

6. TOTAL HOURLY RATES

a. Single Shift Hourly Rate: (40 Hours per Week)

$$(\text{Ownership Costs Frm 6-c}) + (\text{Operating Costs Frm 7-e}) \\ = (\underline{\underline{\$37.68}} / \text{Hr}) + (\underline{\underline{\$29.88}} / \text{Hr}) \quad = \$ \underline{\underline{67.56}} / \text{Hr.}$$

b. Hourly Rate for Other Work Shifts:

$$(\text{Depreciation}) + [(\text{CPC Frm}) \times 40 + (\text{Work Hrs})] + (\text{Operating Costs}) \\ \text{From 6-a} \quad \text{6-b-(2)} \quad \text{Per Week} \quad \text{Frm 7-f} \\ = (\underline{\underline{\$19.83}} / \text{Hr}) + [(\underline{\underline{\$17.85}} / \text{Hr}) \times 40 + (\underline{\underline{60}} \text{ Hr/Wk})] + (\underline{\underline{\$29.88}} / \text{Hr}) = \$ \underline{\underline{61.61}} / \text{Hr.}$$

c. Hourly Standby Rate:

$$(\text{Depreciation}) \times 0.25 + (\text{CPC Frm}) \\ \text{From 6-a} \quad \text{6-b-(2)} \\ = (\underline{\underline{\$19.83}} / \text{Hr}) \times 0.25 + (\underline{\underline{\$17.85}} / \text{Hr}) \quad = \$ \underline{\underline{22.81}} / \text{Hr.}$$

Figure 2-1. (Continued)

2-3. Marine Equipment.

a. 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 section, 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 percentages are shown in TABLE 2-1 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. Hourly ownership and operating expenses for any land-based equipment involved with the operation will be based on the methodology herein for construction equipment.

b. 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 equipment value 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.

(1) 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 and the depreciation shall be recomputed. The depreciable value is the acquisition cost, plus any capital improvements, less estimated salvage. Costs for drydocking and major repairs, 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.

(2) 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.

$$CFC = \frac{[(N-1)(1+S) + 2]}{2N} (7.80\%)$$

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

(3) The salvage value factor is expressed as a decimal and is shown in TABLE 2-1 for different items of equipment.

(4) Taxes, storage (layup), and insurance are considered indirect (overhead) costs or a part of operating 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.

(5) The expected life shown in TABLE 2-1 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.

c. Annual Use. Marine equipment is normally operated 24 hours per day, 7 days per week, and costs are usually kept on a monthly basis. This is the preferred basis. 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 actual time cannot be determined, the monthly cost should be divided by 720 hours or 30 days. The contracting officer shall determine the number of use-months per year for the contract dredge based on the industry average for the same type and size dredge. Use-months includes time spent on all Government and non-Government work, including foreign and domestic. Attendant plant shall be based on the same number of use-months per year as the contract dredge.

d. 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.

TABLE 2-1. ANNUAL OWNERSHIP EXPENSE FACTORS FOR MARINE EQUIPMENT

TYPE OF EQUIPMENT	LIFE (YRS)	SALVAGE VALUE FACTOR	PERCENT ANNUAL OWNERSHIP EXPENSE		
			DEPRE- CIATION	CFC	TOTAL
Hydraulic dredge, including hydraulic dredges used as Boosters:					
10-inch thru 14-inch	20	.05	4.75	4.28	9.03
16-inch thru 20-inch	25	.10	3.60	4.43	8.03
24-inch and over	30	.10	3.00	4.41	7.41
Booster & Barge:					
10-inch thru 14-inch	20	.05	4.75	4.28	9.03
16-inch thru 20-inch	25	.10	3.60	4.43	8.03
24-inch and over	30	.10	3.00	4.41	7.41
Dredge, Hopper	25	.10	3.60	4.43	8.03
Dredge, Hopper, split hull	20	.10	4.50	4.47	8.97
Dredge, clamshell/ dragline	20	.05	4.75	4.28	9.03
Dredge, Dipper/Hyd Excav	25	.05	3.80	4.24	8.04
Bucket Dredge	30	.10	3.00	4.41	7.41
Dump Scows	20	.05	4.75	4.28	9.03
Barges:					
Fuel	20	.05	4.75	4.28	9.03
Water	20	.05	4.75	4.28	9.03
Equipment or Work	20	.05	4.75	4.28	9.03
Derrick	20	.10	4.50	4.47	8.97
Anchor	20	.05	4.75	4.28	9.03
Drill Boat or Barge	20	.10	4.50	4.47	8.97
Mooring Barge	20	.05	4.75	4.28	9.03
Tugs	20	.10	4.50	4.47	8.97
Tenders	20	.10	4.50	4.47	8.97
Launches	12	.05	7.92	4.40	12.32
Shore Pipeline (Average)	3	0	33.33	5.20	38.53
Floating Line:					
Pontoons	15	0	6.67	4.16	10.83
Pipeline/Joints (Avg)	10	0	10.00	4.29	14.29

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 or recomputed 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, and (f) 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 or computed as shown in the sample computations in Figure 2-1.

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 3185 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.

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.

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).



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 OWNER-SHIP	FUEL	SEVERE OWNER-SHIP									
			AVERAGE	SEVERE													
AGGREGATE SPREADER *****																	
ETNYRE - SELF-PROPELLED																	
1015	SPREAD TO 8" DEPTH & 10' WIDE	184 HP G	63,366	26.84		4.02	7.67	10.51	155								
1020	SPREAD TO 8" DEPTH & 13' WIDE	140 HP D	70,499	20.87		4.47	8.54	4.45	160								
AIR COMPRESSORS, PORTABLE ***** (HOSE NOT INCLUDED)																	
ROTARY SCREW																	
1035	SIZE 100 CFM QUIET 100 PSI	50 HP G	12,167	7.43		0.78	1.39	3.70	20								
1040	SIZE 100 CFM QUIET 100 PSI	33 HP D	14,648	4.77		0.94	1.67	1.33	26								
1045	SIZE 125 CFM QUIET 100 PSI	70 HP G	14,877	9.95		0.95	1.70	5.17	24								
1050	SIZE 125 CFM QUIET 100 PSI	51 HP D	15,836	5.95		1.02	1.81	2.05	26								
1055	SIZE 175 CFM QUIET 100 PSI	70 HP G	16,232	10.24		1.04	1.86	5.17	26								
1060	SIZE 175 CFM QUIET 100 PSI	54 HP D	18,379	6.65		1.18	2.11	2.18	28								
1065	SIZE 185 CFM QUIET 100 PSI	70 HP G	16,762	10.35		1.07	1.92	5.17	27								
1070	SIZE 185 CFM QUIET 100 PSI	69 HP D	19,701	7.69		1.26	2.26	2.78	29								
1075	SIZE 250 CFM QUIET 100 PSI	88 HP D	29,664	10.75		1.90	3.41	3.54	55								
1080	SIZE 375 CFM QUIET 100 PSI	122 HP D	37,055	14.08		2.37	4.20	4.91	79								
1085	SIZE 450 CFM QUIET 100 PSI	152 HP D	47,674	17.84		3.05	5.42	6.12	89								
1090	SIZE 600 CFM QUIET 100 PSI	188 HP D	56,989	21.67		3.65	6.48	7.57	97								
1095	SIZE 750 CFM QUIET 100 PSI	228 HP D	66,493	25.72		4.26	7.58	9.18	128								
1100	SIZE 825 CFM QUIET 100 PSI	260 HP D	75,248	29.21		4.82	8.59	10.47	130								
1105	SIZE 900 CFM QUIET 100 PSI	270 HP D	82,597	31.28		5.29	9.44	10.88	148								
1110	SIZE 1000 CFM QUIET 100 PSI	294 HP D	92,873	34.67		5.96	10.63	11.84	186								
1115	SIZE 1200 CFM QUIET 100 PSI	400 HP D	110,392	43.81		7.09	12.66	16.11	196								
1120	SIZE 1600 CFM QUIET 100 PSI	456 HP D	124,662	49.69		8.00	14.28	18.37	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						
AIR EQUIPMENT ***** (HOSE NOT INCLUDED)										
1135	SCW-1042P SANDBLASTER 1/2" HOSE 101CFM A CAP. 100 LBS. W/ACC. AND 25' HOSE	1,645	1.30		0.16	0.40	0.00		3	
1140	SCW-1440P SANDBLASTER 1" HOSE 101CFM A CAP. 150 LBS W/ACC. AND 50' HOSE	2,983	2.32		0.30	0.74	0.00		5	
1145	SCWB-1648P SANDBLASTER 1" HOSE 101CFM A CAP. 300 LBS. W/ACC. AND 50' HOSE	3,029	2.35		0.30	0.75	0.00		6	
1150	SCWB-2452HPSANDBLASTER 1-1/4" HOS 216CFM A CAP. 600 LBS. W/ACC. AND 50' HOSE	3,339	2.65		0.33	0.82	0.00		7	
1155	SCH-3079 SANDBLASTER 1-1/4" PIPE 216CFM A CAP. 1400 LBS W/HOPPER & 50' HOSE	4,502	3.52		0.44	1.11	0.00		9	
1160	MOD 60-H SANDBLASTER 1-1/4" PIPE 450CFM A CAP. 3-TONS W/2 NOZZ. & 50' HOSE	13,140	10.00		1.27	3.15	0.00		28	
1165	MOD 120-H SANDBLASTER 1-1/4" PIPE 700CFM A CAP. 6-TONS W/3 NOZZ. & 50' HOSE	16,426	12.30		1.56	3.82	0.00		45	
1170	MOD 160-H SANDBLASTER 1-1/4" PIPE 900CFM A CAP. 8-TONS W/4 NOZZ. & 50' HOSE	19,986	15.10		1.91	4.71	0.00		53	
GARDNER DENVER - TOOLS										
1180	SPADER SP27E	32CFM A	977	0.80		0.10	0.24	0.00	1	
1185	SINKER DRILL S58	98CFM A	2,111	1.71		0.21	0.52	0.00	1	
1190	PAVING BREAKER B37	41CFM A	1,002	0.83		0.10	0.25	0.00	1	
1195	PAVING BREAKER B67C	46CFM A	1,072	0.87		0.10	0.26	0.00	1	
1200	PAVING BREAKER B87C	50CFM A	1,163	0.95		0.12	0.29	0.00	1	
1205	FEED LEG DRILL S83F-54" TRAVEL RETRACTABLE FL-7	103CFM A	3,858	3.04		0.38	0.95	0.00	1	
MASTER - CONCRETE VIBRATORS										
1215	CONCRETE VIBR. MOD A-600SH 6"	125CFM A	2,083	2.42		0.20	0.51	0.00	1	
1220	CONCRETE VIBR. MOD A-450SH 4.5"	110CFM A	1,348	1.61		0.14	0.34	0.00	1	
1225	CONCRETE VIBR. MOD A-35010 3.5"	82CFM A	1,213	1.43		0.12	0.30	0.00	1	
1230	CONCRETE VIBR. MOD A-30010 3"	64CFM A	1,097	1.28		0.11	0.27	0.00	1	
1235	CONCRETE VIBR. MOD A-25010 2.5"	40CFM A	866	1.01		0.08	0.21	0.00	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	AVERAGE COND.	SEVERE COND.	
ASPHALT DISTRIBUTOR - ROSCO ***** (NO CHASSIS)										
1245	MOD RES 1000 GAL. TRUCK MOUNTED 18,000 TO 24,000 GVW REQUIRED	45 HP G	34,496	12.57			2.20	4.24	3.33	72
1250	MOD RES 1500 GAL. TRUCK MOUNTED 24,000 TO 32,000 GVW REQUIRED	45 HP G	35,362	12.78			2.26	4.35	3.33	75
1255	MOD RES 2000 GAL. TRUCK MOUNTED 32,000 GVW REQUIRED	45 HP G	38,008	13.42			2.43	4.68	3.33	87
1260	MOD RES 3000 GAL. TRUCK MOUNTED 42,000 GVW REQUIRED	45 HP G	42,948	14.58			2.75	5.28	3.33	109
ASPHALT FINISHERS ***** SPW=STANDARD PAVING WIDTH										
BARBER-GREENE										
1270	MOD SB111 8' SPW (PNEUMATIC)	70 HP D	98,696	27.77			6.26	11.96	2.82	165
1275	MOD SB131 10' SPW (PNEUMATIC) W/VIB SCREED, AUTO. FEEDERS AND GR CONTROL	95 HP D	162,622	44.76			10.29	19.61	3.83	258
1280	MOD SB140 10' SPW (PNEUMATIC) OPTIONS SAME AS MOD SB131	130 HP D	181,229	51.14			11.49	21.92	5.24	325
1285	MOD SA150 10' SPW (CRAWLER) OPTIONS SAME AS MOD SB131	130 HP D	214,066	58.96			13.68	26.33	5.24	375
BLAW-KNOX										
1295	MOD PF-22 5'-8' SPW (PNEUMATIC)	30 HP D	53,879	14.78			3.40	6.46	1.21	95
1300	MOD PF-35 6'-8' SPW (PNEUMATIC)	44 HP D	88,003	23.83			5.58	10.66	1.77	104
1305	MOD PF-115 8' SPW (PNEUMATIC)	56 HP D	118,606	31.95			7.52	14.34	2.26	180
1310	MOD PF-120H 10' SPW (PNEUMATIC)	95 HP D	143,761	40.16			9.09	17.29	3.83	240
1315	MOD PF-180H 10' SPW (PNEUMATIC)	92 HP D	170,698	46.62			10.79	20.52	3.71	277
1320	MOD PF-220 12' SPW (PNEUMATIC)	148 HP D	219,961	61.64			13.89	26.41	5.96	387
1325	MOD PF-400A 8' SPW (CRAWLER)	90 HP D	158,367	43.31			10.12	19.48	3.63	230
1330	MOD PF-500 10' SPW (CRAWLER)	125 HP D	190,199	52.86			12.15	23.39	5.03	291

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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	
ASPHALT KETTLES - ROSCO									
1340	MOD KB 110 GAL. TRAILER MOUNTED	4,306	2.27		0.29	0.60	0.00		13
1345	MOD KD 225 GAL. TRAILER MOUNTED	5,026	2.60		0.35	0.71	0.00		16
ASPHALT RECYCLER - BOMAG									
1355	MOD AR-6 TRAILER MOUNTED	8 HP G	11,476	5.68		0.79	1.63	0.59	21
BROOMS - M-B									
1365	MOD 53T HYD 7 FT. TOWED MECH DRIVE W/SPRINKLER		7,550	1.89		0.48	0.89	0.00	24
1370	MOD 53-M 7 FT. TOWED MOTOR DRIVEN W/SPRINKLER	30 HP G	9,688	4.93		0.62	1.15	2.22	30
1375	MOD MT 7 FT. TRACTOR MOUNTED PTO DRIVE W/SPRINKLER		3,629	1.02		0.24	0.44	0.00	10
1380	MOD HT 7 FT. TRACTOR MOUNTED HYD DRIVE W/SPRINKLER		6,437	1.58		0.41	0.77	0.00	14
BRUSH CHIPPERS - FMC									
1390	MOD C-16S SKID-MTD 16" DIA.LOG 150 HP G	13,431	13.44		0.86	1.65	7.73		41
1395	MOD C-16T TRAILER-MTD 16" DIA.LOG 150 HP G	14,700	13.76		0.94	1.79	7.73		45
BUCKETS, CLAMSHELL									
ESCO - MODEL GPS GENERAL PURPOSE & SQUARE NOSE									
1405	.75 C.Y.	11,733	2.58	3.31	0.75	1.49	0.00	1.75	0.00
1410	1.0 C.Y.	12,657	2.79	3.56	0.81	1.61	0.00	1.88	0.00
1415	1.5 C.Y.	18,373	4.04	5.18	1.17	2.33	0.00	2.74	0.00
1420	2.0 C.Y.	21,518	4.72	6.06	1.36	2.72	0.00	3.20	0.00
1425	2.5 C.Y.	27,738	6.10	7.80	1.77	3.52	0.00	4.12	0.00
1430	3.0 C.Y.	29,535	6.49	8.31	1.88	3.75	0.00	4.39	0.00
1435	3.5 C.Y.	32,184	7.07	9.05	2.05	4.08	0.00	4.78	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															
BUCKETS, CLAMSHELL (CONT'D)																			

ESCO - MODEL GPS GEN PURPOSE & SQUARE NOSE (CONT'D)																			
1440	4.0 C.Y.	35,647	7.84	10.03	2.27	4.53	0.00	5.30	0.00	115									
1445	4.5 C.Y.	38,762	8.52	10.92	2.47	4.92	0.00	5.77	0.00	126									
1450	5.0 C.Y.	41,463	9.11	11.67	2.64	5.26	0.00	6.17	0.00	140									
1455	5.5 C.Y.	45,826	10.07	12.90	2.92	5.81	0.00	6.82	0.00	152									
1460	6.0 C.Y.	47,737	10.50	13.44	3.04	6.06	0.00	7.10	0.00	160									
1465	6.5 C.Y.	49,252	10.82	13.86	3.13	6.24	0.00	7.32	0.00	169									
1470	7.0 C.Y.	51,815	11.38	14.59	3.29	6.57	0.00	7.71	0.00	177									
1475	7.5 C.Y.	53,896	11.84	15.17	3.43	6.83	0.00	8.02	0.00	184									
ESCO - MODEL HDS HEAVY DUTY & SQUARE NOSE																			
1485	.75 C.Y.	11,142	2.45	3.13	0.71	1.41	0.00	1.65	0.00	33									
1490	1.0 C.Y.	15,513	3.41	4.37	0.99	1.97	0.00	2.31	0.00	46									
1495	1.5 C.Y.	22,830	5.02	6.43	1.45	2.90	0.00	3.40	0.00	70									
1500	2.0 C.Y.	24,800	5.44	6.97	1.57	3.14	0.00	3.68	0.00	78									
1505	2.5 C.Y.	31,186	6.86	8.78	1.99	3.96	0.00	4.64	0.00	98									
1510	3.0 C.Y.	34,361	7.55	9.67	2.19	4.36	0.00	5.11	0.00	109									
1515	3.5 C.Y.	39,375	8.65	11.09	2.50	4.99	0.00	5.86	0.00	120									
1520	4.0 C.Y.	42,546	9.35	11.97	2.71	5.40	0.00	6.32	0.00	131									
1525	4.5 C.Y.	45,863	10.08	12.91	2.92	5.82	0.00	6.82	0.00	141									
1530	5.0 C.Y.	49,296	10.84	13.88	3.14	6.26	0.00	7.34	0.00	155									
1535	5.5 C.Y.	52,179	11.47	14.69	3.32	6.62	0.00	7.76	0.00	164									
1540	6.0 C.Y.	54,944	12.08	15.46	3.50	6.97	0.00	8.17	0.00	174									
1545	6.5 C.Y.	58,050	12.75	16.35	3.69	7.36	0.00	8.64	0.00	185									
1550	7.0 C.Y.	60,642	13.33	17.07	3.86	7.69	0.00	9.02	0.00	193									
1555	7.5 C.Y.	63,191	13.89	17.79	4.02	8.02	0.00	9.40	0.00	201									

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, CLAMSHELL (CONT'D)												
ESCO - MODEL XDS EXTRA HEAVY DUTY & SQUARE NOSE												
1565	.75 C.Y.	17,583	3.86	4.94	1.12	2.23	0.00	2.61	0.00	50		
1570	1.0 C.Y.	18,049	3.97	5.08	1.15	2.29	0.00	2.68	0.00	55		
1575	1.5 C.Y.	26,110	5.74	7.35	1.66	3.31	0.00	3.88	0.00	81		
1580	2.0 C.Y.	32,156	7.07	9.05	2.05	4.08	0.00	4.78	0.00	99		
1585	2.5 C.Y.	36,294	7.97	10.22	2.31	4.60	0.00	5.40	0.00	115		
1590	3.0 C.Y.	39,623	8.70	11.16	2.52	5.02	0.00	5.90	0.00	127		
1595	3.5 C.Y.	42,876	9.42	12.07	2.73	5.44	0.00	6.38	0.00	141		
1600	4.0 C.Y.	45,658	10.03	12.85	2.90	5.79	0.00	6.79	0.00	150		
1605	4.5 C.Y.	47,698	10.48	13.43	3.04	6.05	0.00	7.10	0.00	160		
1610	5.0 C.Y.	51,843	11.39	14.59	3.29	6.57	0.00	7.71	0.00	173		
1615	5.5 C.Y.	55,159	12.13	15.52	3.51	7.00	0.00	8.20	0.00	185		
1620	6.0 C.Y.	58,185	12.79	16.37	3.70	7.38	0.00	8.65	0.00	195		
1625	6.5 C.Y.	61,554	13.53	17.33	3.92	7.81	0.00	9.16	0.00	208		
1630	7.0 C.Y.	64,054	14.07	18.03	4.07	8.12	0.00	9.53	0.00	218		
1635	7.5 C.Y.	67,311	14.79	18.95	4.28	8.54	0.00	10.01	0.00	229		
BUCKETS, CONCRETE - GAR-BRO												
GENERAL PURPOSE & MANUAL												
1645	433-G 1.0 C.Y.	1,779	0.39		0.12	0.22	0.00			6		
1650	442-G 1.5 C.Y.	2,237	0.49		0.15	0.28	0.00			8		
1655	462-G 2.0 C.Y.	2,910	0.63		0.19	0.36	0.00			11		
1660	493-G 3.0 C.Y.	4,196	0.90		0.26	0.51	0.00			19		
1665	4123-G 4.0 C.Y.	5,241	1.13		0.33	0.64	0.00			23		

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 - GAR-BRO (CONT'D)														

LOW SLUMP - AIR OPERATED GATE														
1675	440-A 1.0 C.Y.	7,231	1.56			0.46	0.89	0.00		19				
1680	450-A 1.5 C.Y.	7,549	1.63			0.48	0.93	0.00		21				
1685	460-A 2.0 C.Y.	7,871	1.70			0.51	0.97	0.00		23				
1690	493-A 3.0 C.Y.	10,634	2.30			0.68	1.31	0.00		42				
1695	4139-A 4.0 C.Y.	11,274	2.44			0.72	1.39	0.00		52				
1700	4200-A 6.0 C.Y. DBL. COMPT.	16,206	3.50			1.03	1.99	0.00		72				
1705	4250-A 8.0 C.Y. DBL. COMPT.	19,233	4.16			1.23	2.37	0.00		80				
LAYDOWN - HEAVY DUTY - AIR GATE														
1715	425-A 1.0 C.Y.	8,290	1.80			0.54	1.03	0.00		26				
1720	465-A 2.0 C.Y.	9,308	2.01			0.60	1.15	0.00		31				
1725	495-A 3.0 C.Y.	10,893	2.35			0.70	1.34	0.00		40				
1730	4125-A 4.0 C.Y.	12,239	2.65			0.78	1.51	0.00		49				
1735	4155-A 5.0 C.Y.	14,400	3.11			0.92	1.77	0.00		60				
BUCKETS, DRAGLINE														

HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED														
1750	.75 C.Y.	3,999	0.88	1.12	0.26	0.51	0.00	0.59	0.00	15				
1755	1.0 C.Y.	4,750	1.04	1.34	0.30	0.60	0.00	0.71	0.00	18				
1760	1.5 C.Y.	5,905	1.30	1.66	0.38	0.75	0.00	0.88	0.00	26				
1765	2.0 C.Y.	7,008	1.54	1.97	0.45	0.89	0.00	1.04	0.00	32				
1770	2.5 C.Y.	8,217	1.80	2.32	0.52	1.04	0.00	1.23	0.00	37				
1775	3.0 C.Y.	10,142	2.23	2.86	0.65	1.29	0.00	1.51	0.00	46				
1780	3.5 C.Y.	11,191	2.46	3.16	0.72	1.42	0.00	1.67	0.00	50				
1785	4.0 C.Y.	13,742	3.02	3.87	0.87	1.74	0.00	2.05	0.00	65				
1790	4.5 C.Y.	14,589	3.21	4.11	0.93	1.85	0.00	2.17	0.00	69				
1795	5.0 C.Y.	17,658	3.88	4.97	1.12	2.24	0.00	2.63	0.00	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	AVERAGE COND.	SEVERE COND.						
					SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL				
BUCKETS, DRAGLINE (CONT'D)													
HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED (CONT'D)													
1800	6.0 C.Y.	19,084	4.19	5.37	1.21	2.42	0.00	2.84	0.00	90			
1805	7.0 C.Y.	20,933	4.61	5.90	1.33	2.66	0.00	3.12	0.00	101			
1810	8.0 C.Y.	23,206	5.11	6.54	1.48	2.95	0.00	3.46	0.00	112			
1815	9.0 C.Y.	26,768	5.89	7.53	1.71	3.40	0.00	3.98	0.00	128			
1820	10.0 C.Y.	29,089	6.39	8.19	1.85	3.69	0.00	4.33	0.00	139			
1825	12.0 C.Y.	35,631	7.82	10.03	2.26	4.51	0.00	5.30	0.00	166			
1830	14.0 C.Y.	40,972	9.00	11.54	2.60	5.19	0.00	6.10	0.00	191			
HENDRIX - MODEL TS, MEDIUM WEIGHT													
1840	.75 C.Y.	4,648	1.02	1.31	0.30	0.59	0.00	0.69	0.00	17			
1845	1.0 C.Y.	5,667	1.25	1.60	0.36	0.72	0.00	0.85	0.00	19			
1850	1.5 C.Y.	7,105	1.56	2.00	0.45	0.90	0.00	1.06	0.00	28			
1855	2.0 C.Y.	8,540	1.87	2.40	0.54	1.08	0.00	1.27	0.00	36			
1860	2.5 C.Y.	9,832	2.16	2.78	0.63	1.25	0.00	1.47	0.00	41			
1865	3.0 C.Y.	11,756	2.58	3.31	0.75	1.49	0.00	1.75	0.00	49			
1870	3.5 C.Y.	12,979	2.85	3.65	0.82	1.64	0.00	1.93	0.00	54			
1875	4.0 C.Y.	15,714	3.46	4.43	1.00	2.00	0.00	2.34	0.00	70			
1880	4.5 C.Y.	16,733	3.67	4.71	1.06	2.12	0.00	2.49	0.00	72			
1885	5.0 C.Y.	21,466	4.71	6.04	1.36	2.72	0.00	3.19	0.00	93			
1890	6.0 C.Y.	22,180	4.87	6.24	1.41	2.81	0.00	3.30	0.00	96			
1895	7.0 C.Y.	25,353	5.58	7.14	1.62	3.22	0.00	3.77	0.00	111			
1900	8.0 C.Y.	27,908	6.13	7.85	1.79	3.54	0.00	4.15	0.00	122			
1905	9.0 C.Y.	33,484	7.35	9.43	2.13	4.24	0.00	4.98	0.00	149			
1910	10.0 C.Y.	35,667	7.84	10.04	2.27	4.53	0.00	5.31	0.00	159			
1915	12.0 C.Y.	45,442	9.98	12.79	2.89	5.76	0.00	6.76	0.00	202			
1920	14.0 C.Y.	50,601	11.12	14.24	3.22	6.42	0.00	7.52	0.00	225			

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	SEVERE COND.											
			AVERAGE	SEVERE															
BUCKETS, DRAGLINE (CONT'D)																			
HENDRIX - MODEL MH-S, HEAVY WEIGHT																			
1930	2.75 C.Y.	18,608	4.09	5.24	1.18	2.36	0.00	2.77	0.00	69									
1935	3.0 C.Y.	19,360	4.25	5.45	1.23	2.45	0.00	2.88	0.00	72									
1940	3.5 C.Y.	21,686	4.77	6.11	1.38	2.75	0.00	3.23	0.00	81									
1945	4.0 C.Y.	29,048	6.39	8.18	1.85	3.69	0.00	4.32	0.00	110									
1950	4.5 C.Y.	32,476	7.14	9.14	2.07	4.12	0.00	4.83	0.00	123									
1955	5.0 C.Y.	33,535	7.38	9.43	2.14	4.26	0.00	4.98	0.00	127									
1960	6.0 C.Y.	35,913	7.90	10.12	2.29	4.56	0.00	5.35	0.00	136									
1965	7.0 C.Y.	45,713	10.04	12.87	2.90	5.79	0.00	6.80	0.00	175									
1970	8.0 C.Y.	47,015	10.33	13.24	2.99	5.96	0.00	7.00	0.00	180									
1975	9.0 C.Y.	59,922	13.17	16.87	3.81	7.60	0.00	8.92	0.00	234									
1980	10.0 C.Y.	61,462	13.50	17.30	3.91	7.79	0.00	9.14	0.00	243									
1985	12.0 C.Y.	73,099	16.06	20.57	4.65	9.27	0.00	10.87	0.00	289									
1990	14.0 C.Y.	75,936	16.69	21.37	4.83	9.63	0.00	11.29	0.00	309									
SAUERMAN - CRESCENT SCRAPER																			
WITH DRAGLINE CONVERSION KIT																			
2000	SC-1050-K 1.0 C.Y.	10,591	2.32	2.99	0.67	1.34	0.00	1.58	0.00	15									
2005	SC-1060-K 1.5 C.Y.	13,583	2.99	3.82	0.87	1.73	0.00	2.02	0.00	20									
2010	SC-1070-K 2.0 C.Y.	18,556	4.07	5.22	1.18	2.35	0.00	2.76	0.00	25									
2015	SC-1090-K 3.0 C.Y.	24,620	5.42	6.93	1.57	3.13	0.00	3.66	0.00	36									
2020	SC-1100-K 4.0 C.Y.	36,681	8.06	10.33	2.33	4.65	0.00	5.46	0.00	49									
2025	SC-1110-K 5.0 C.Y.	41,878	9.20	11.79	2.66	5.31	0.00	6.23	0.00	58									
2030	SC-1120-K 6.0 C.Y.	50,699	11.14	14.27	3.23	6.43	0.00	7.54	0.00	68									
2035	SC-1130-K 8.0 C.Y.	61,733	13.57	17.39	3.92	7.83	0.00	9.19	0.00	88									
2040	SC-1140-K 10.0 C.Y.	74,383	16.45	21.08	4.76	9.49	0.00	11.14	0.00	106									
2045	SC-1150-K 12.0 C.Y.	87,102	19.13	24.52	5.54	11.04	0.00	12.96	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										
2055	UR-12 INGERSOLL-RAND RAMMER	3 HP G	1,784	1.17		0.14	0.31	0.31		1
2060	BS45Y WACKER RAMMER	3 HP G	1,768	1.17		0.14	0.31	0.31		1
2065	BS65Y WACKER RAMMER	4 HP G	3,217	1.95		0.26	0.57	0.41		2
2070	GVR151Y WACKER RAMMER	5 HP G	2,520	1.76		0.20	0.45	0.51		2
2075	GVR220Y WACKER RAMMER	6 HP G	3,217	2.20		0.26	0.57	0.61		2
2080	VPG160B WACKER VIBRO PLATE	4 HP G	1,416	1.15		0.12	0.26	0.41		2
2085	VPG260K WACKER VIBRO PLATE	7 HP G	2,020	1.78		0.16	0.36	0.71		3
2090	BT-50 BOMAG TAMPING	4 HP G	1,967	1.39		0.16	0.35	0.41		1
2095	BT-71 BOMAG TAMPING	4 HP G	2,469	1.61		0.19	0.43	0.41		2
2100	BP-11K BOMAG VIBRO PLATE	4 HP G	1,811	1.32		0.14	0.32	0.41		3
2105	BP-19/75 BOMAG VIBRO PLATE	5 HP D	3,382	1.86		0.27	0.60	0.28		4
2110	BP-30 BOMAG VIBRO PLATE	5 HP D	6,072	3.07		0.48	1.08	0.28		5
2115	BP-50 BOMAG VIBRO PLATE	7 HP D	9,046	4.53		0.72	1.61	0.39		9
2120	BW-75E BOMAG WALK BEHIND S/D	5 HP D	7,859	3.86		0.62	1.39	0.28		10
2125	BW-35 BOMAG WALK BEHIND D/D	4 HP D	9,725	4.62		0.77	1.73	0.22		11
2130	BW-60SE BOMAG D/D ROLLER	8 HP D	13,592	6.63		1.08	2.41	0.45		20
2135	BW-90SE BOMAG D/D ROLLER	13 HP D	17,259	8.63		1.37	3.07	0.73		30
2140	VPG600 WACKER VIBRO PLATE	9 HP G	3,759	2.81		0.29	0.66	0.92		7
2145	DPS2350 WACKER VIBRO PLATE	7 HP D	3,888	2.22		0.31	0.69	0.39		4
2150	DPU5050 WACKER VIBRO PLATE	11 HP D	12,988	6.58		1.03	2.31	0.62		10
2155	W 55 T WACKER D/D ROLLER	8 HP D	12,066	5.95		0.96	2.14	0.45		17
2160	W 74 T WACKER D/D ROLLER	8 HP D	13,568	6.63		1.08	2.41	0.45		19
CONCRETE BUGGIES - AEROIL										
2170	5 CF WALK-BEHIND	5 HP G	1,937	1.22		0.16	0.35	0.40		3

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		
CONCRETE FINISHERS - BOMAG										
2180	MOD F46B4 GYRO TROWEL	7 HP G	1,583	1.30			0.12	0.28	0.56	2
2185	MOD RF2B4 DOUBLTROWEL	16 HP G	6,227	3.88			0.50	1.11	1.27	7
2190	MOD RF3B3 TRIPLTROWEL	16 HP G	8,028	4.52			0.64	1.43	1.27	9
CONCRETE MIXERS										
2200	PORTABLE CONCRETE MIXER 2.5 CF	1 HP E	761	0.31			0.06	0.12	0.04	2
2205	PORTABLE CONCRETE MIXER 3.5 CF	1 HP E	805	0.33			0.06	0.13	0.04	3
2210	PORTABLE CONCRETE MIXER 6.0 CF	7 HP G	2,363	1.55			0.18	0.40	0.56	7
2215	PORTABLE MORTAR MIXER 6.0 CF	7 HP G	1,903	1.39			0.15	0.32	0.56	6
CONCRETE PAVERS										
CMI										
2225	MOD SF - 175 SLIPFORM PAVER CURBS, MEDIANES, AND SIDEWALKS	142 HP D	144,327	42.55			9.22	17.75	5.72	263
2230	MOD SF - 250 26' WIDE SLIPFORM UNIT, 0-80 FT/MIN, CRAWLER MTD.	208 HP D	250,812	71.95			16.02	30.85	8.38	470
2235	MOD SUBURBAN 25' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD.	250 HP D	440,399	120.51			28.17	54.23	10.07	720
GOMACO										
2245	MOD C-650 24' WIDE FORM PAVER W/4' FTNISHING CYLINDERS	65 HP G	30,602	13.81			1.95	3.74	4.80	91
2250	MOD HW-165 16'-6" WIDE SLIPFORM UNIT, AUTO VIBRATORS, CRLR MTD	100 HP D	136,021	38.36			8.69	16.73	4.03	255
CONCRETE PLACERS, SHOTCRETE										
ALLENTOWN										
2260	R450 PNEUM. GUN N-1 3-4 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 365 CFM COMP.	12 HP D	27,222	8.96			1.89	4.00	0.71	45
2265	R900 PNEUM. GUN N-2 6-10 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 600 CFM COMP.	20 HP D	31,332	10.79			2.17	4.61	1.19	60

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					
CONCRETE PLACERS, SHOTCRETE (CONT'D) *****													
ALLENTOWN (CONT'D)													
2270	GR600 ROTARY GUN 1-6 CY/HR INCL. HOSE, REQ. 550 CFM COMP.	550CFM A	8,827	2.81		0.61	1.28	0.00	9				
2275	GR1200 ROTARY GUN 4-12 CY/HR INCL. HOSE, REQ. 770 CFM COMP.	770CFM A	17,240	5.45		1.20	2.54	0.00	18				
CHALLENGE SQUEEZ-CRETE													
2285	250-D FOR WET SHOTCRETE 25 CY/HR TRAILER MOUNTED INCL. HOSE	62 HP D	48,458	19.08		3.38	7.20	3.68	70				
CONCRETE PUMPS *****													
MORGEN													
2295	MOD 204-305 TRAILER MTD 60 CY/HR 110 HP D	50 CY/HR 110 HP D	57,325	25.36		3.99	8.51	6.53	70				
2300	MOD 203-420 BOOM 72'-VT 120 CY/HR 210 HP D INCLUDES 24500 GVW TRUCK	120 CY/HR 210 HP D	157,462	64.07		10.94	23.29	13.52	255				
SCHWING													
2310	MOD BPA 350 TRAILER MTD 60 CY/HR 67 HP D	60 CY/HR 67 HP D	49,049	19.64		3.41	7.28	3.98	66				
2315	MOD BPA 650 TRAILER MTD 60 CY/HR 152 HP D	60 CY/HR 152 HP D	76,592	34.24		5.32	11.30	9.02	98				
2320	MOD BPA 901 TRAILER MTD 135 CY/HR 152 HP D	135 CY/HR 152 HP D	78,627	34.83		5.45	11.59	9.02	98				
2325	MOD BP 3000 TRAILER MTD 127 CY/HR 177 HP D	127 CY/HR 177 HP D	104,135	44.34		7.25	15.45	10.51	130				
2330	MOD BP 5000 TRAILER MTD 151 CY/HR 300 HP D	151 CY/HR 300 HP D	133,305	62.35		9.28	19.79	17.81	150				
2335	MOD BPL 580 TRUCK MTD 72 CY/HR 175 HP D INCLUDING TRUCK AND 75' BOOM	72 CY/HR 175 HP D	161,268	62.33		11.15	23.64	11.27	302				
2340	MOD BPL 801 TRUCK MTD 107 CY/HR 175 HP D INCLUDING TRUCK AND 92' BOOM	107 CY/HR 175 HP D	230,099	82.75		15.94	33.87	11.27	321				
2345	MOD BPL1200 TRUCK MTD 147 CY/HR 239 HP D INCLUDING TRUCK AND 102' BOOM	147 CY/HR 239 HP D	282,808	103.70		19.59	41.59	15.39	408				

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				
CONCRETE SAWS												

FELKER (SAWBLADE WEAR NOT INCLUDED)												
2355	MOD 8BCC	5" DEPTH OF CUT 8 HP G	1,798	1.61			0.13	0.26	0.82	3		
2360	MOD 12WCC	5" DEPTH OF CUT 12 HP G	2,230	2.26			0.16	0.32	1.22	3		
2365	MOD 14TCC	5" DEPTH OF CUT 14 HP G	2,208	2.54			0.16	0.32	1.43	3		
2370	MOD 140MR	8" DEPTH OF CUT 14 HP G	4,931	3.33			0.34	0.71	1.43	6		
2375	MOD 185MR	8" DEPTH OF CUT 18 HP G	6,242	4.24			0.44	0.90	1.83	7		
2380	MOD 300MR	8" DEPTH OF CUT 30 HP G	7,039	6.10			0.50	1.02	3.06	7		
2385	MOD 350MCA	10" DEPTH OF CUT 35 HP G	10,351	7.73			0.72	1.49	3.57	12		
2390	MOD 665MCA	15" DEPTH OF CUT 65 HP G	13,849	12.78			0.96	1.99	6.62	14		
CRANES, SHOVEL, BACKHOE, DRAGLINE												

AMERICAN - CRAWLER TYPE												
MOD 4120 DRAGLINE 1 CY 93 HP D 13'-7" CRAWLERS W/28" SHOES												
2400	DRAGLINE OR CLAMSHELL (LESS BUCKET)		216,436	44.26	54.44	13.00	23.72	2.96	26.68	3.75		
MOD 597-C 1.25 CY T/C 114 HP D 14'-7" CRAWLERS W/32" SHOES												
2405	DRAGLINE OR CLAMSHELL (LESS BUCKET)		299,127	54.04	63.99	16.81	28.67	3.63	31.20	4.59		
2410	CRANE 35-T W/65' BOOM		300,850	49.49	57.21	16.92	28.84	2.90	31.37	3.75		
MOD 599-A LIFTING CRANE T/C 114 HP D 16'-0" CRAWLERS W/32" SHOES												
2420	CRANE 50-T W/75' BOOM		328,716	53.75	62.09	18.48	31.51	2.90	34.28	3.75		
MOD 5299-A LIFTING CRANE T/C 125 HP D 17'-6" CRAWLERS W/36" SHOES												
2430	CRANE 60-T W/80' BOOM		343,781	56.39	65.16	19.33	32.95	3.18	35.85	4.11		
1088												

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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 OWNER-SHIP	FUEL OWNER-SHIP	SEVERE OWNER-SHIP	COND.		
			AVERAGE	SEVERE							
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D)										

	AMERICAN - CRAWLER TYPE (CONT'D)										
	MOD 797-C 2 CY T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES										
2440	DRAGLINE OR CLAMSHELL (LESS BUCKET)	410,606	74.61	88.38	23.09	39.36	5.34	42.82	6.77	1278	
2445	CRANE 40-T W/75' BOOM	402,004	66.60	77.06	22.60	38.53	4.27	41.93	5.52	1262	
	MOD 7250 STEEL ERECTOR T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES										
2455	CRANE 60-T W/80' BOOM	426,756	65.63	74.28	22.91	37.00	4.27	39.44	5.52	1421	
	MOD 7260 LIFTING CRANE T/C 168 HP D 19'-6" CRAWLERS W/38" SHOES										
2465	CRANE 100-T W/200' BOOM	524,009	79.40	89.67	28.13	45.43	4.27	48.43	5.52	1886	
	MOD 999-C STEEL ERECTOR T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES										
2475	CRANE 110-T W/200' BOOM	716,738	110.39	124.93	38.47	62.14	7.30	66.23	9.43	2792	
	MOD 9260 4.5 CY T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES										
2485	CRANE 125T W/270' BOOM	750,796	115.21	130.33	40.30	65.09	7.30	69.38	9.43	3150	
2490	DRAGLINE OR CLAMSHELL (LESS BUCKET)	722,273	121.33	140.31	38.77	62.62	9.13	66.75	11.56	2950	
	MOD 9270 LIFT CR TAPERED TIP T/C 287 HP D 23'-9" CRAWLERS W/44" SHOES										
2500	CRANE 150T W/280' BOOM	812,810	123.99	140.14	43.63	70.47	7.30	75.11	9.43	3400	
	MOD 9299 LIFTING CRANE T/C 287 HP D 24'-11" CRAWLERS W/44" SHOES										
2510	CRANE 165T W/290' BOOM	854,318	127.03	142.02	44.77	70.16	7.30	74.07	9.43	3580	
	MOD 9310 LIFTING CRANE T/C 287 HP D 28'-2" CRAWLERS W/50" SHOES										
2520	CRANE 225T W/280' BOOM	899,422	133.26	148.99	47.13	73.86	7.30	77.97	9.43	3990	

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-	COND. FUEL OWNER-	SEVERE COND.	FUEL	
			AVERAGE	SEVERE						
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D) *****									
	BUCYRUS ERIE - CRAWLER TYPE									
	MOD 25-B SER-3 HVY DUTY 1 CY 115 HP D 13'-11" CRAWLERS W/30" SHOES									
2535	DRAGLINE OR CLAMSHELL (LESS BUCKET)	228,795	47.48	58.43	13.74	25.07	3.66	28.21	4.63	647
2540	CRANE 28-T W/50' BOOM	233,716	39.26	45.50	13.14	22.40	2.93	24.38	3.78	651
	MOD 30-B SER 5 HVY DUTY 1.5 CY 144 HP D 14'-7" CRAWLERS W/36" SHOES									
2550	BACKHOE	295,600	74.01	94.76	18.88	36.45	5.34	42.54	7.02	792
2555	DRAGLINE OR CLAMSHELL (LESS BUCKET)	328,382	60.04	71.15	18.46	31.47	4.58	34.25	5.80	833
2560	CRANE 35-T W/60' BOOM	330,021	54.86	63.51	18.55	31.63	3.66	34.42	4.73	831
	MOD 38-B SER 2 HVY DUTY 2 CY T/C 178 HP D 17'-5" CRAWLERS W/36" SHOES									
2570	SHOVEL	421,008	104.19	133.39	26.88	51.91	6.60	60.58	8.68	1279
2575	DRAGLINE OR CLAMSHELL (LESS BUCKET)	430,798	78.34	92.80	24.22	41.29	5.66	44.92	7.17	1192
	MOD 61-B SER 2 3.25 CY T/C 205 HP D 15'-11" CRAWLERS W/33" SHOES									
2585	SHOVEL	601,936	134.70	165.70	36.14	65.96	7.61	74.22	10.00	1762
2590	BACKHOE	576,399	129.38	159.18	34.61	63.16	7.61	71.06	10.00	1727
2595	DRAGLINE OR CLAMSHELL (LESS BUCKET)	594,220	98.59	113.92	31.89	51.51	6.52	54.92	8.26	1570
2600	CRANE 51-T W/70' BOOM	581,543	88.71	100.27	31.21	50.42	5.22	53.75	6.74	1571
	MOD 61-B SER-2 110-T 4 CY T/C 243 HP D 20'-6" CRAWLERS W/42" SHOES									
2610	CRANE 110T W/160' BOOM	732,898	111.30	125.74	39.34	63.54	6.18	67.73	7.98	2123
2615	DRAGLINE OR CLAMSHELL (LESS BUCKET)	700,100	116.24	134.27	37.58	60.70	7.73	64.70	9.79	1973
	MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES									
2625	SHOVEL	725,105	162.22	199.54	43.53	79.45	9.13	89.40	11.99	2096
2630	BACKHOE	685,962	154.07	189.55	41.19	75.17	9.13	84.58	11.99	2000

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)									
	BUCYRUS ERIE - CRAWLER TYPE (CONT'D)									
	MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES									
2635	DRAGLINE OR CLAMSHELL (LESS BUCKET)	650,013	108.70	125.67	34.89	56.35	7.82	60.07	9.91	1820
	MOD 88-B SER 4 5.5 CY T/C 365 HP D 17'-10" CRAWLERS W/36" SHOES									
2645	SHOVEL	1,028,306	227.95	272.99	58.23	104.74	13.54	115.48	17.80	2822
2650	DRAGLINE OR CLAMSHELL (LESS BUCKET)	845,952	139.58	159.66	44.33	69.47	11.61	73.34	14.70	2274
	LINK BELT - CRAWLER TYPE									
	MOD LS-98A LIFTING CRANE T/C 110 HP D 15'-1" CRAWLERS W/24" SHOES									
2665	CRANE 40-T W/50' BOOM	228,498	38.30	44.37	12.85	21.90	2.80	23.83	3.61	772
	MOD LS-118 LIFTING CRANE T/C 165 HP D 17'-0" CRAWLERS W/30" SHOES									
2675	CRANE 60-T W/80' BOOM	360,225	56.12	63.62	19.34	31.23	4.20	33.29	5.42	1232
	MOD LS-338 LIFTING CRANE T/C 171 HP D 20'-0" CRAWLERS W/38" SHOES									
2685	CRANE 100-T W/200' BOOM	493,438	75.17	84.96	26.48	42.78	4.35	45.60	5.62	1512
	MOD LS-518 LIFTING CRANE T/C 245 HP D 24'-4" CRAWLERS W/44" SHOES									
2695	CRANE 150-T W/250' BOOM	746,197	113.25	127.92	40.06	64.70	6.23	68.96	8.05	2712
	MANITOWOC - CRAWLER TYPE									
	MOD 3900 VICON 3.5 CY T/C 287 HP D 20'-4" CRAWLERS W/38" SHOES									
2710	DRAGLINE OR CLAMSHELL (LESS BUCKET)	517,642	90.11	104.55	27.79	44.88	9.13	47.84	11.56	2306
2715	CRANE 100T W/210' BOOM	567,606	89.27	101.34	30.47	49.21	7.30	52.46	9.43	2354

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. FUEL		
			AVERAGE	SEVERE						
	CRANES, SHOVEL, B/H, DRAGLINE (CONT'D)									
	MANITOWOC - CRAWLER TYPE (CONT'D)									
	MOD 3900W VICON SER2 T/C 300 D 24'-0" CRAWLERS W/48" SHOES									
2730	CRANE 140T W/250' BOOM 300 HP D	670,902	104.29	118.21	36.01	58.16	7.63	62.00	9.86	2815
	MOD 4100W VICON SER1 5 CY T/C 360 HP D 26'-6" CRAWLERS W/48" SHOES									
2740	DRAGLINE OR CLAMSHELL (LESS BUCKET)	870,250	146.73	169.76	46.71	75.45	11.45	80.43	14.50	3788
2745	CRANE 200T W/260' BOOM	933,520	140.28	157.08	48.92	76.66	9.16	80.93	11.83	3929
	MOD 4600 VICON SERIES 3 7 CY T/C 685 HP D 26'-1" CRAWLERS W/60" SHOES									
2755	CRANE 240T W/260' BOOM	1,374,431	211.42	237.59	72.02	112.87	17.43	119.16	22.51	5200
2760	DRAGLINE OR CLAMSHELL (LESS BUCKET)	1,359,787	228.23	261.55	71.25	111.67	21.78	117.89	27.59	5100
	NORTHWEST - CRAWLER TYPE									
	MOD 50-D/5045 1.5 CY T/C 238 HP D 15'-4" CRAWLERS W/30" SHOES									
2775	DRAGLINE OR CLAMSHELL (LESS BUCKET)	305,790	59.87	71.28	17.19	29.31	7.57	31.89	9.59	954
2780	CRANE 45-T W/60' BOOM	302,401	53.51	62.37	17.01	28.99	6.05	31.54	7.82	947
	MOD 80-D 2.5 CY T/C 263 HP D 15'-10" CRAWLERS W/30" SHOES									
2790	SHOVEL	505,362	127.27	162.99	32.27	62.31	9.76	72.72	12.82	1510
2795	DRAGLINE OR CLAMSHELL (LESS BUCKET)	435,081	82.29	97.76	24.46	41.70	8.36	45.38	10.59	1274
2800	CRANE 40-T W/50' BOOM	428,055	73.49	85.38	24.07	41.03	6.69	44.65	8.64	1267
	MOD 9570-WT 4.0 CY T/C 304 HP D 19'-0" CRAWLERS W/38" SHOES									
2810	DRAGLINE OR CLAMSHELL (LESS BUCKET)	495,230	87.35	101.48	26.58	42.94	9.67	45.77	12.25	1580
2815	CRANE 60-T W/50' BOOM	488,093	78.53	89.44	26.19	42.31	7.73	45.11	9.99	1565

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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							
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D)										
	NORTHWEST - CRAWLER TYPE (CONT'D)										
	MOD 180-D SERIES 2 5 CY T/C 358 HP D 18'-1" CRAWLERS W/36" SHOES										
2825	SHOVEL	818,623	186.77	230.06	49.15	89.70	13.28	100.93	17.46	2571	
2830	DRAGLINE OR CLAMSHELL (LESS BUCKET)	711,261	122.39	141.87	38.18	61.67	11.38	65.73	14.42	2365	
2835	CRANE 97.5-T W/170' BOOM	740,116	115.90	131.49	39.73	64.17	9.11	68.40	11.76	2464	
	MOD 190-D WT SERIES 3 T/C 456 HP D 21'-1" CRAWLERS W/54" SHOES										
2845	DRAGLINE 6.5 CY (LESS BUCKET)	761,804	130.71	150.14	39.92	62.56	14.50	66.04	18.37	2740	
2850	CRANE 100-T W/170' BOOM	802,346	127.74	145.26	43.06	69.56	11.60	74.14	14.98	2872	
	P & H - CRAWLER TYPE										
	MOD 5060 1.75 CY T/C 140 HP D 19'-8" CRAWLERS W/30" SHOES										
2865	DRAGLINE (LESS BUCKET)	335,205	61.02	72.30	18.85	32.13	4.45	34.96	5.64	989	
2870	CRANE 60-T W/80' BOOM	346,360	53.38	60.43	18.59	30.03	3.56	32.01	4.60	1157	
	MOD 670WLC 2 CY T/C 198 HP D 18'-6" CRAWLERS W/30" SHOES										
2880	DRAGLINE OR CLAMSHELL (LESS BUCKET)	419,482	77.23	91.57	23.58	40.20	6.30	43.74	7.98	1344	
2885	CRANE 70-T W/150' BOOM	436,420	67.94	77.01	23.43	37.84	5.04	40.33	6.51	1466	
	MOD 5100 3 CY T/C 236 HP D 21'-6" CRAWLERS W/36" SHOES										
2890	DRAGLINE OR CLAMSHELL (LESS BUCKET)	506,385	86.40	100.08	27.18	43.90	7.50	46.79	9.51	1775	
2895	CRANE 100-T W/210' BOOM	534,170	82.95	94.00	28.67	46.31	6.00	49.36	7.75	1850	
	MOD 5300A LIFTING CRANE T/C 378 HP D 32'-8" CRAWLERS W/48" SHOES										
2900	CRANE 300-T W/320' BOOM	1,572,517	229.10	255.29	82.40	129.14	9.62	136.33	12.42	5588	

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						
CRANES, HYDRAULIC SELF-PROPELLED														
GROVE														
2910	MOD RT58A	14 TON	112 HP D	124,120	25.33	6.69	11.39	4.51	410					
2915	MOD RT515	15 TON	115 HP D	132,778	26.81	7.16	12.21	4.63	418					
2920	MOD RT518	18 TON	115 HP D	146,953	29.16	7.91	13.45	4.63	452					
2925	MOD RT522	22 TON	115 HP D	160,870	31.30	8.67	14.75	4.63	498					
2930	MOD RT625	25 TON	156 HP D	213,515	41.08	11.51	19.62	6.28	560					
2935	MOD RT740	40 TON	170 HP D	295,843	55.65	15.90	27.01	6.85	758					
2940	MOD RT755	55 TON	170 HP D	351,586	64.70	18.88	32.00	6.85	839					
2945	MOD RT865	65 TON	208 HP D	433,458	79.29	23.32	39.62	8.38	1100					
2950	MOD RT980	80 TON	230 HP D	558,736	100.70	30.01	50.87	9.26	1320					
2955	MOD RT1650	165 TON	512 HP D	1,053,799	193.92	56.60	95.99	20.62	2400					
LORAIN														
2965	MOD LRT150	15 TON	114 HP D	127,128	25.87	6.85	11.69	4.59	438					
2970	MOD LRT180	18 TON	121 HP D	133,788	27.24	7.22	12.32	4.87	450					
2975	MOD LRT330	33 TON	180 HP D	207,253	42.07	11.16	18.98	7.25	570					
P & H														
2985	MOD OMEGA 115	15 TON	125 HP D	137,534	28.07	7.42	12.65	5.03	436					
2990	MOD OMEGA 118	18 TON	125 HP D	149,326	29.86	8.06	13.76	5.03	437					
2995	MOD OMEGA 120	20 TON	128 HP D	158,180	31.37	8.54	14.59	5.16	438					
3000	MOD OMEGA 122	22 TON	128 HP D	158,918	31.48	8.58	14.66	5.16	438					
3005	MOD OMEGA 25	25 TON	155 HP D	195,098	38.55	10.54	17.99	6.24	540					
3010	MOD OMEGA 30	30 TON	155 HP D	200,795	39.41	10.84	18.52	6.24	550					
3015	MOD OMEGA 35	35 TON	155 HP D	207,515	40.43	11.21	19.15	6.24	560					
3020	MOD OMEGA 40	40 TON	202 HP D	277,944	54.62	14.93	25.33	8.14	760					
3025	MOD OMEGA 45	45 TON	202 HP D	287,552	56.30	15.43	26.14	8.14	770					
3030	MOD OMEGA 50	50 TON	202 HP D	298,099	57.90	16.01	27.14	8.14	780					
3035	MOD OMEGA 65	65 TON	235 HP D	382,934	73.05	20.56	34.87	9.47	980					

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, HYD SELF-PROPELLED (CONT'D)														
PETTIBONE														
3045	MOD 16 MK P SERIES	8 TON	118 HP	D	110,797	23.29	6.00	10.28	4.75	286				
3050	MOD 20 MK P SERIES	10 TON	118 HP	D	112,667	23.65	6.10	10.44	4.75	302				
3055	MOD 25 MK P SERIES	12.5 TON	118 HP	D	116,804	24.27	6.32	10.82	4.75	458				
3060	MOD 36 MK P SERIES	18 TON	118 HP	D	135,005	27.32	7.28	12.41	4.75	494				
3065	MOD 60-SC P SERIES	30 TON	176 HP	D	223,682	44.56	12.03	20.44	7.09	592				
3070	MOD 80-SC P SERIES	40 TON	176 HP	D	246,769	48.53	13.24	22.40	7.09	862				
3075	MOD 100SC	50 TON	188 HP	D	304,445	57.91	16.38	27.83	7.57	1050				
CRANES, HYDRAULIC TRUCK MOUNTED														
(HP & FUEL LISTED EQUIP/CARRIER)														
BUCYRUS ERIE														
3085	30-XC	30 TON W/80' BOOM	130/210 HP	D/D	224,574	38.63	44.68	11.78	19.47	6.69				
3090	60-XC	60 TON W/104' BOOM	197/238 HP	D/D	386,787	63.85	73.62	20.31	33.65	9.58				
GROVE														
3100	TMS185	18 TON W/106' BOOM	172 HP	D	213,590	40.02	47.54	11.79	20.65	6.93				
3105	TMS300	35 TON W/112' BOOM	203 HP	D	259,504	45.26	52.79	13.60	22.48	8.18				
3110	TMS475	50 TON W/142' BOOM	213 HP	D	322,188	54.06	62.72	16.92	28.00	8.58				
3115	TM875	80 TON W/146' BOOM	196/268 HP	D/D	477,138	75.93	86.59	24.33	38.86	9.74				
3120	TM1150	115 TON W/172' BOOM	196/315 HP	D/D	732,130	109.28	123.48	37.44	60.04	10.07				
3125	TM1400	140 TON W/173' BOOM	318/387 HP	D/D	860,133	130.49	147.05	43.98	66.61	15.48				
LINK BELT (FMC)														
3135	HTC-814	14 TON W/80' BOOM	216 HP	D	197,889	40.29	48.25	10.92	19.09	8.70				
3140	HTC-835	35 TON W/101' BOOM	216 HP	D	224,192	40.99	48.11	11.78	19.51	8.70				
3145	HTC-1055	55 TON W/120' BOOM	238 HP	D	330,079	56.32	65.50	17.33	28.69	9.59				

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		
					AVERAGE	SEVERE					
	CRANES, HYDRAULIC TRUCK MTD (CONT'D) ***** (HP & FUEL LISTED EQUIP/CARRIER)										
	PETTIBONE										
3155	50TKLSPC 25 TON W/98' BOOM	210 HP D	211,244	41.80	49.92	11.66	20.41	8.46	22.28	11.13	500
3160	80TKLS 40 TON W/144' BOOM	244 HP D	269,414	48.64	56.97	14.13	23.37	9.83	24.97	12.93	740
3165	110 TK P 55 TON W/114' BOOM	238 HP D	291,109	51.19	59.77	15.28	25.28	9.59	27.01	12.61	825
3170	140 TK P 70 TON W/116' BOOM	322 HP D	366,745	64.98	75.55	18.73	29.99	12.97	31.72	17.07	1155
	CRANES, TRUCK MOUNTED ***** (HP & FUEL LISTED EQUIP/CARRIER)										
	AMERICAN										
3180	5470 65 TON W/170' BOOM	115/238 HP D/D	445,355	67.92	77.49	23.35	38.59	6.27	41.23	8.01	1175
3185	5530 75 TON W/170' BOOM	115/238 HP D/D	454,214	67.91	76.71	23.22	37.21	6.27	39.37	8.01	1245
3190	7460 90 TON W/200' BOOM	213/230 HP D/D	558,472	86.29	98.08	28.58	45.88	10.17	48.54	13.14	1503
3195	7530 125 TON W/220' BOOM	213/350 HP D/D	601,065	93.11	105.74	30.73	49.29	10.99	52.15	14.11	1696
3200	8460 165 TON W/240' BOOM	268/350 HP D/D	860,291	126.96	142.45	44.05	66.87	13.21	70.03	17.02	2320
3205	9530 220 TON W/260' BOOM	268/500 HP D/D	1,213,873	174.71	195.14	62.05	93.97	14.25	98.39	18.23	3480
	LINK BELT (FMC)										
3215	HC108C 50 TON W/150' BOOM	110/238 HP D/D	389,556	60.32	68.94	20.41	33.69	6.07	35.99	7.75	1197
3220	HC218A 100 TON W/220' BOOM	165/318 HP D/D	578,046	87.27	98.71	29.56	47.45	8.84	50.21	11.30	1688
3225	HC238B 140 TON W/230' BOOM	171/318 HP D/D	679,346	98.90	110.65	34.75	52.68	9.08	55.17	11.62	2220
	LORAIN										
3235	MC790 90 TON W/220' BOOM	210/270 HP D/D	530,080	82.94	94.38	27.11	43.47	10.32	45.99	13.30	1594
3240	MC1400 140 TON W/230' BOOM	220/290 HP D/D	646,436	97.01	109.08	33.05	50.07	10.86	52.43	13.99	1950
	P & H										
3250	325TC 25 TON W/110' BOOM	83/190 HP D/D	269,514	45.00	52.49	14.88	26.05	4.65	28.43	5.93	645
3255	430ATC 35 TON W/150' BOOM	86/210 HP D/D	300,924	46.50	53.08	15.80	26.18	4.91	27.98	6.25	763
3260	440TC 40 TON W/170' BOOM	90/228 HP D/D	337,614	51.89	59.22	17.72	29.33	5.20	31.35	6.61	964

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	
	CRANES, TRUCK MOUNTED (CONT'D) ***** (HP & FUEL LISTED EQUIP/CARRIER)									
	P & H (CONT'D)									
3265	650ATC 50 TON W/150' BOOM 135/236 HP D/D	435,085	67.58	77.29	22.81	37.69	7.07	40.27	9.05	1222
3270	790BTC 90 TON W/200' BOOM 160/350 HP D/D	544,900	83.17	94.19	27.85	44.63	8.86	47.22	11.30	1606
3275	9150 150 TON W/270' BOOM 210/350 HP D/D	711,867	105.27	118.08	36.42	55.23	10.87	57.84	13.95	1805
3280	6250TC 300 TON W/320' BOOM 364/450 HP D/D	1,511,531	215.85	241.00	77.42	117.60	17.77	123.17	22.91	3928
	CRANES, TOWER *****									
	AMERICAN PECCO									
	MODEL SK135-2 FREE STANDING 60 HP E 7500# @ 132' RADIUS (L-2)									
3290	7-S16 TOWER SECTS=103 FT HIGH	296,967	52.83		16.49	25.01	3.24			740
	OPT. 14'9-1/4" S16 TOWER SECT									
3295	ADD TO BASIC CRANE FOR EA SECT	13,639	1.95		0.76	1.15	0.00			51
3300	TOP CLIMBING OPT. ADD TO BASIC	49,291	7.05		2.74	4.16	0.00			118
	MODEL SK200 FREE STANDING 105 HP E 10600# @ 143' RADIUS (L-2)									
3305	7-S16 TOWER SECTS=103 FT HIGH	372,367	67.24		20.67	31.36	5.67			883
	14'9-1/4" S16 TOWER SECTION									
3310	ADD TO BASIC CRANE FOR EA SECT	13,639	1.95		0.76	1.15	0.00			51
3315	TOP CLIMBING OPT. ADD TO BASIC	49,291	7.05		2.74	4.16	0.00			118
	MODEL SK400 FREE STANDING 105 HP E 18500# @ 162' RADIUS (L-2)									
3320	6-S35 TOWER SECTS=116 FT HIGH	456,513	79.25		25.35	38.45	5.67			1216
	OPT. 19'4-1/4" S35 TOWER SECT.									
3325	ADD TO BASIC CRANE FOR EA SECT	17,610	2.51		0.98	1.48	0.00			84
3330	TOP CLIMBING OPT. ADD TO BASIC	52,861	7.54		2.94	4.45	0.00			223

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							
	CRANES, TOWER (CONT'D) *****										
	AMERICAN PECCO (CONT'D)										
	MODEL SK560 FREE STANDING 165 HP E 24500# @ 170' RADIUS (L-2)										
3335	6-S213 TOWER SECTS=116 FT HIGH	529,541	94.55		29.41	44.61	8.91			1547	
	OPT. 19'4"-1/4" S213 TOWER SECT										
3340	ADD TO BASIC CRANE FOR EA SECT	18,963	2.71		1.05	1.60	0.00			100	
3345	TOP CLIMBING OPT. ADD TO BASIC	96,907	13.83		5.38	8.16	0.00			252	
	MODEL SN355 FREE STANDING 165 HP E 12300# @ 165' RADIUS (L-2) WITH LUFFING BOOM										
3350	6-S35 TOWER SECTS=116 FT HIGH	563,663	99.41		31.29	47.47	8.91			2152	
	OPT. 19'4"-1/4" S35 TOWER SECT										
3355	ADD TO BASIC CRANE FOR EA SECT	17,610	2.51		0.98	1.48	0.00			84	
3360	TOP CLIMBING OPT. ADD TO BASIC	100,034	14.29		5.56	8.43	0.00			159	
	DRILLS, BLAST HOLE, CRAWLER MTD *****										
	GARDNER DENVER										
3370	AT3100B/PR123J 3.0" HOLE 12" FEED 600CFM A	76,399	19.21		4.88	9.44	0.00			91	
3375	AT3100B/PR55 3.5" HOLE 12" FEED 750CFM A	72,418	18.26		4.62	8.95	0.00			93	
3380	AT3100B/PR66 4.0" HOLE 12" FEED 900CFM A	79,431	19.94		5.07	9.81	0.00			95	
3385	AT3700A/PR66 ANGLE DRILL 4.0" HOLE 12" FEED	95,089	23.75		6.07	11.75	0.00			146	
3390	ATD5100/PR80H ANGLE DRILL 4.5" HOLE 20" FEED	1200CFM A	108,076	26.93		6.90	13.35	0.00		200	
	INGERSOLL-RAND										
3400	ECM350/VL140 3.5" HOLE 12" FEED 750CFM A	85,628	21.43		5.47	10.58	0.00			129	
3405	ECM350/VL671 4.0" HOLE 12" FEED 900CFM A	93,124	23.27		5.94	11.50	0.00			131	
3410	ECM 450X 3.0" HOLE 12" FEED 100 HP D	128,641	37.06		8.21	15.89	4.98			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 OWNER-SHIP	SEVERE OWNER-SHIP	COND. FUEL		
			AVERAGE	SEVERE						
	DRILLS, BLAST HOLE, CRLR MTD (CONT'D)									
	SULLIVAN									
34 20	MAVRICK/VCR350 2.5" HOLE 12' FEED 450CFM A	42,241	10.69		2.70	5.22	0.00		60	
34 25	RAM STD/VCR260 4.0" HOLE 12' FEED 800CFM A	74,540	18.77		4.75	9.20	0.00		100	
34 30	RAM EXT/VCR260 4.0" HOLE 12' FEED 800CFM A	88,350	22.09		5.64	10.91	0.00		144	
34 35	MUSTANG VCR280 5.0" HOLE 20' FEED1200CFM A	109,352	27.24		6.98	13.51	0.00		184	
34 40	STALLION JH-6 5.5" HOLE 20' FEED 165 HP D	230,486	65.53		14.72	28.48	8.22		300	
	DRILLS, CORE, AIR, COLUMN MOUNTED									
34 50	LONGYEAR 24 WOLVERINE AX 700' 450CFM A	18,839	4.87		1.21	2.33	0.00		12	
34 55	LONGYEAR 65D EX 600' 400CFM A	11,981	3.22		0.77	1.48	0.00		3	
34 60	65D ROD PULLER 21" STROKE 400CFM A	1,797	0.70		0.12	0.22	0.00		1	
	DRILLS, CORE, SKID MOUNTED									
	ACKER									
34 70	TEREDO MARK-II NX 1000' MAX 44 HP D	32,249	10.47		2.06	3.99	2.19		40	
34 75	ACE MODEL C NX 725' MAX 20 HP D	22,364	6.61		1.43	2.76	1.00		45	
	LONGYEAR									
34 85	MOD 24 STD AX 675' MAX 12 HP G	18,081	5.60		1.15	2.23	1.09		17	
34 90	MOD 34 NX 1000' MAX 31 HP G	27,808	9.93		1.77	3.43	2.81		38	
34 95	MOD 34 NX 1000' MAX 40 HP D	32,988	10.39		2.11	4.08	1.99		39	
35 00	MOD 38 NX 1800' MAX 54 HP D	37,855	12.42		2.41	4.67	2.69		41	
35 05	MOD 44 NX 2500' MAX 60 HP D	45,594	14.65		2.91	5.63	2.99		56	
	SPRAGUE AND HENWOOD									
35 15	MOD 37-H NX 400' MAX 18 HP G	19,069	6.47		1.22	2.36	1.63		18	
35 20	MOD 40-CL NX 1050' MAX 49 HP D	29,507	10.12		1.89	3.65	2.44		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 OWNER-SHIP	FUEL OWNER-SHIP	SEVERE COND.											
			AVERAGE	SEVERE															
DRILLS, ROTARY																			
INGERSOLL-RAND																			
3530	MOD DM-25 6 3/4" DRILLMASTER CRWL. MOUNTED	210 HP D	262,162	59.97		14.73	25.16	10.46		500									
3535	MOD T4-BH 7-7/8" DRILLMASTER TRK. MOUNTED	304 HP D	343,911	81.78		19.24	32.72	15.15		550									
3540	MOD TH-60 WATER WELL DRILL TRK. MOUNTED	435 HP D	318,835	86.07		17.86	30.39	21.67		460									
ROBBINS																			
3550	RRT 35 TK MTD 6-1/4" TO 8-0" 335/225 HP D/D	352,106	87.31			19.71	33.52	18.24		600									
3555	RRT 50 TK MTD 6-3/4" TO 9-0" 335 HP D	511,083	113.37			28.59	48.61	16.69		860									
3560	RRT 60 TK MTD 6-3/4" TO 9-7/8" 350 HP D	578,016	126.05			32.36	55.05	17.44		960									
3565	RR10S MTD ON D9H 6-3/4" - 9-0" 410 HP D	424,502	101.91			23.84	40.74	20.43		1160									
3570	RR10HD ON D9H 6-3/4" - 10-5/8" 410 HP D	492,547	113.73			27.67	47.27	20.43		1340									
3575	RR10XHD ON 41B 9-7/8" - 12-1/4" 524 HP D	680,860	130.09			35.64	55.96	26.11		1830									
3580	RR12E CRLR MTD 9-0" TO 12-1" 725/450 HP E/E	1,246,220	220.85			65.22	102.42	54.75		2605									
FORK LIFTS																			
CATERPILLAR																			
LC = LOAD CENTER																			
3600	M20 ELECT 2000# @ 24" LC	18 HP E	18,562	5.42		1.18	2.26	0.97		54									
3605	M25 ELECT 2500# @ 24" LC	18 HP E	18,654	5.44		1.18	2.26	0.97		54									
3610	MC30 ELECT 3000# @ 24" LC	18 HP E	20,230	5.78		1.28	2.45	0.97		85									
3615	M40B ELECT 4000# @ 24" LC	32 HP E	27,446	8.44		1.74	3.34	1.73		95									
3620	M50B ELECT 5000# @ 24" LC	32 HP E	28,119	8.59		1.79	3.42	1.73		102									
3625	MC60B ELECT 6000# @ 24" LC	47 HP E	31,199	10.42		1.98	3.79	2.54		123									
3630	M70B ELECT 7000# @ 24" LC	53 HP E	38,245	12.40		2.42	4.63	2.86		134									
3635	M80B ELECT 8000# @ 24" LC	53 HP E	40,054	12.80		2.54	4.87	2.86		142									
3640	M100B ELECT 10000# @ 24" LC	53 HP E	42,508	13.31		2.70	5.19	2.86		160									
3645	V30D GAS 3000# @ 24" LC	37 HP G	17,487	7.17		1.11	2.14	2.74		37									

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					
FORK LIFTS (CONT'D)														

CATERPILLAR (CONT'D)														
3650	V40C GAS 4000# @ 24" LC	48 HP G	23,085	9.40		1.46	2.78	3.55		41				
3655	V50C GAS 5000# @ 24" LC	48 HP G	23,644	9.55		1.48	2.80	3.55		45				
3660	V60E GAS 6000# @ 24" LC	63 HP G	32,464	12.79		2.05	3.92	4.66		52				
3665	V70E GAS 7000# @ 24" LC	63 HP G	32,907	12.90		2.08	3.98	4.66		56				
3670	V80E GAS 8000# @ 24" LC	63 HP G	34,239	13.18		2.17	4.14	4.66		59				
3675	V110 DIESEL 11000# @ 24" LC	66 HP D	49,201	13.96		3.12	5.95	2.66		82				
3680	V150 DIESEL 15000# @ 24" LC	70 HP D	53,066	14.98		3.36	6.42	2.82		92				
3685	V180B DIESEL 18000# @ 24" LC	125 HP D	70,114	21.46		4.41	8.38	5.03		114				
3690	V200B DIESEL 20000# @ 24" LC	125 HP D	76,376	22.79		4.81	9.14	5.03		124				
3695	V250B DIESEL 25000# @ 24" LC	125 HP D	79,046	23.37		4.98	9.47	5.03		154				
3700	V300B DIESEL 30000# @ 24" LC	125 HP D	88,538	25.47		5.57	10.57	5.03		165				
3705	R40 DIESEL 4000# @ 24" LC	68 HP D	32,029	10.35		2.02	3.84	2.74		107				
3710	R50 DIESEL 5000# @ 24" LC	68 HP D	32,865	10.53		2.07	3.94	2.74		112				
3715	R60 DIESEL 6000# @ 24" LC	68 HP D	39,578	11.97		2.50	4.76	2.74		128				
3720	R80 DIESEL 8000# @ 24" LC	68 HP D	41,217	12.35		2.57	4.86	2.74		138				
HYSTER - CHALLENGER														
3730	H30XL 3000# @ 24" LC	63 HP G	18,488	9.79		1.16	2.20	4.66		58				
3735	H60XL 6000# @ 24" LC	80 HP G	26,835	13.16		1.69	3.23	5.91		91				
3740	H110F 11000# @ 24" LC	116 HP G	52,457	21.97		3.33	6.37	8.57		163				
3745	H150H 15000# @ 24" LC	127 HP G	71,924	27.25		4.53	8.60	9.39		234				
3750	H200HS 20000# @ 24" LC	PS 127 HP G	82,912	29.62		5.23	9.95	9.39		256				
3755	H250H 25000# @ 24" LC	PS 127 HP G	84,021	29.87		5.29	10.04	9.39		295				
3760	H300B 30000# @ 24" LC	PS 127 HP G	89,334	30.99		5.63	10.74	9.39		360				
3765	H460CS 46000# @ 36" LC	PS 190 HP G	178,525	56.10		11.26	21.45	14.04		590				

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					
GENERATOR SETS, ELECTRIC													

CATERPILLAR													
T = TURBOCHARGED													
TA = TURBOCHARGED AFTER COOLED													
SKID MOUNTED													
3780	MOD 3304B-T	240/480V 100 KW	148 HP D	18,403	11.98	15.20	1.29	2.74	5.96	3.02	7.84	37	
3785	MOD 3306B-T	240/480V 125 KW	187 HP D	24,059	15.32	19.46	1.67	3.57	7.53	3.95	9.91	46	
3790	MOD 3306B-TA	240/480V 150 KW	220 HP D	25,906	17.44	22.19	1.80	3.85	8.86	4.26	11.66	48	
3795	MOD 3406B-T	240/480V 200 KW	290 HP D	27,946	21.43	27.39	1.95	4.15	11.68	4.59	15.37	57	
3800	MOD 3406B-TA	240/480V 250 KW	370 HP D	31,824	26.40	33.81	2.22	4.73	14.90	5.23	19.61	59	
3805	MOD 3408B-T	240/480V 255 KW	370 HP D	37,962	27.94	35.64	2.65	5.65	14.90	6.24	19.61	77	
3810	MOD 3408B-TA	240/480V 310 KW	450 HP D	42,220	32.99	42.16	2.94	6.27	18.13	6.94	23.85	81	
3815	MOD 3412-T	240/480V 355 KW	500 HP D	50,872	37.63	48.02	3.55	7.56	20.14	8.36	26.50	91	
3820	MOD 3412-TA	240/480V 455 KW	650 HP D	68,533	49.52	63.14	4.77	10.18	26.18	11.25	34.45	102	
3825	MOD 3508	240/480V 600 KW	845 HP D	91,454	64.98	82.78	6.38	13.60	34.04	15.02	44.78	140	
3830	MOD 3512	240/480V 900 KW	1250 HP D	124,686	93.47	119.31	8.69	18.53	50.35	20.48	66.25	202	
3835	MOD 3516	480V 1100 KW	1450 HP D	162,869	112.97	143.83	11.35	24.20	58.41	26.75	76.85	256	
KOHLER													
3845	2.25MBM25	PORTABLE 2.25 KW	5 HP G	887	0.68	0.87	0.06	0.13	0.37	0.15	0.48	1	
3850	3.5MM65	PORTABLE 3.50 KW	8 HP G	1,407	1.08	1.37	0.10	0.21	0.59	0.23	0.77	2	
3855	5MM65	PORTABLE 5.00 KW	12 HP G	1,812	1.55	1.98	0.13	0.27	0.89	0.30	1.16	2	
ONAN													
SKID MOUNTED													
3870		120/240V 2.5 KW	6 HP G	1,605	0.95	1.19	0.11	0.24	0.44	0.26	0.58	2	
3875		120/240V 6.5 KW	14 HP G	3,576	2.18	2.74	0.26	0.54	1.03	0.59	1.35	3	
3880		120/240V 10.0 KW	20 HP G	3,928	2.80	3.56	0.27	0.58	1.48	0.64	1.93	4	
3885		120/240V 3.0 KW	6 HP D	4,153	1.34	1.64	0.29	0.62	0.24	0.68	0.32	4	
3890		120/240V 6.0 KW	12 HP D	5,504	1.97	2.43	0.39	0.82	0.48	0.90	0.64	5	
3895		120/240V 12.0 KW	22 HP D	7,918	3.06	3.81	0.55	1.17	0.89	1.30	1.17	7	

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	AVERAGE	SEVERE	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP				
GENERATOR SETS, ELECTRIC (CONT'D) *****													
ONAN (CONT'D)													
3900	120/240V 15 KW	27 HP D	8,295	3.41	4.24	0.58	1.23	1.09	1.36	1.43			
3905	120/240V 30 KW	63 HP D	12,258	6.20	7.79	0.85	1.82	2.54	2.01	3.34			
3910	120/240V 45 KW	87 HP D	16,206	8.38	10.55	1.13	2.41	3.50	2.66	4.61			
3915	120/240V 60 KW	102 HP D	18,554	9.71	12.24	1.29	2.75	4.11	3.05	5.41			
3920	120/240V 75 KW	162 HP D	22,054	13.59	17.22	1.54	3.28	6.53	3.62	8.59			
3925	120/240V 90 KW	162 HP D	23,069	13.84	17.52	1.61	3.43	6.53	3.78	8.59			
3930	120/240V 125 KW	210 HP D	27,097	17.24	21.87	1.89	4.03	8.46	4.45	11.13			
3935	120/240V 150 KW	276 HP D	32,261	21.83	27.76	2.25	4.80	11.12	5.30	14.63			
OVERLOWE													
3945	KP2250R PORTABLE	2.25 KW	5 HP G	990	0.70	0.89	0.07	0.14	0.37	0.16			
3950	KP3000R PORTABLE	3.00 KW	7 HP G	1,104	0.92	1.16	0.08	0.17	0.52	0.18			
3955	KP3750BIC PORTABLE	3.75 KW	8 HP G	1,530	1.11	1.40	0.11	0.23	0.59	0.25			
3960	KP5000BIC PORTABLE	5.00 KW	10 HP G	1,920	1.39	1.76	0.13	0.28	0.74	0.31			
3965	KP6500BICB PORTABLE	6.50 KW	16 HP G	2,038	1.96	2.52	0.14	0.30	1.18	0.34			
3970	KP7500BICB PORTABLE	7.50 KW	16 HP G	1,934	1.93	2.49	0.13	0.28	1.18	0.32			
GRADERS, MOTOR *****													
CATERPILLAR													
3985	MOD 120-G POWER SHIFT ARTIC	125 HP D	116,708	26.65	33.29	7.02	12.26	4.64	13.72	6.09			
3990	MOD 130-G POWER SHIFT ARTIC	135 HP D	133,472	30.04	37.51	8.04	14.05	5.01	15.72	6.58			
3995	MOD 12-G POWER SHIFT ARTIC	135 HP D	141,764	31.51	39.31	8.54	14.92	5.01	16.69	6.58			
4000	MOD 140-G POWER SHIFT ARTIC	150 HP D	144,191	32.69	40.87	8.67	15.14	5.56	16.94	7.31			
4005	MOD 14-G POWER SHIFT ARTIC	180 HP D	200,475	44.30	55.28	12.01	20.86	6.68	23.31	8.78			
4010	MOD 16-G POWER SHIFT ARTIC	250 HP D	287,652	63.23	78.90	17.22	29.87	9.27	33.37	12.19			

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	AVERAGE COND. FUEL	SEVERE COND. FUEL											
			AVERAGE	SEVERE															
GRADERS, MOTOR (CONT'D)																			
CHAMPION																			
4020	MOD 710A	ARTICULATED	135 HP D	112,664	26.49	33.15	6.77	11.79	5.01	13.18	6.58	286							
4025	MOD 720A	ARTICULATED	152 HP D	132,247	30.77	38.50	7.95	13.85	5.64	15.49	7.41	335							
4030	MOD 730A	ARTICULATED	180 HP D	136,090	32.83	41.14	8.18	14.26	6.68	15.94	8.78	340							
4035	MOD 740A	ARTICULATED	210 HP D	148,991	36.54	45.84	8.96	15.63	7.79	17.48	10.24	345							
4040	MOD 710	NON-ARTICULATED	135 HP D	106,215	25.38	31.79	6.38	11.11	5.01	12.42	6.58	280							
4045	MOD 720	NON-ARTICULATED	152 HP D	115,580	27.89	34.96	6.93	12.07	5.64	13.50	7.41	315							
4050	MOD 730	NON-ARTICULATED	180 HP D	124,675	30.85	38.72	7.48	13.04	6.68	14.58	8.78	330							
4055	MOD 740	NON-ARTICULATED	210 HP D	140,810	35.13	44.11	8.46	14.76	7.79	16.51	10.24	345							
4060	MOD 760	NON-ARTICULATED	210 HP D	160,854	38.93	48.82	9.61	16.63	7.79	18.58	10.24	390							
FIAT - ALLIS																			
4070	MOD-65B	DIRECT DRIVE	68 HP D	62,841	14.38	17.99	3.78	6.60	2.52	7.38	3.32	135							
4075	MOD-FG75	POWER SHIFT	130 HP D	97,505	23.60	29.58	5.86	10.20	4.82	11.40	6.34	300							
4080	MOD-FG85	POWER SHIFT	145 HP D	104,678	25.62	32.14	6.28	10.93	5.38	12.22	7.07	310							
4085	MOD-FG95	POWER SHIFT	160 HP D	111,987	27.78	34.86	6.70	11.60	5.94	12.95	7.80	330							
GALION																			
4095	MOD 503-L	CONSTANT MESH	68 HP G	52,597	14.78	18.53	3.17	5.54	4.65	6.19	6.02	115							
4100	MOD T-500C	POWER SHIFT	145 HP D	111,989	26.83	33.59	6.74	11.76	5.38	13.15	7.07	281							
4105	MOD A-550	POWER SHIFT	175 HP D	147,360	34.51	43.17	8.87	15.49	6.49	17.32	8.53	320							
4110	MOD A-600	POWER SHIFT	197 HP D	152,661	36.51	45.75	9.19	16.05	7.31	17.95	9.61	323							
HOISTS																			

BEEBE - AIR TUGGERS																			
4120	2000P110-24	1.0 T 225 CFM ROD		6,480	1.59		0.42	0.80	0.00		5								
4125	5000P120-24	2.5 T 500 CFM ROD		10,579	2.63		0.68	1.31	0.00		16								
4130	10000P 50-24	5.0 T 500 CFM ROD		12,866	3.27		0.83	1.59	0.00		22								
4135	20000P 50-40	10.0 T 850 CFM ROD		33,268	8.05		2.12	4.10	0.00		55								

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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	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP				
HOISTS (CONT'D)													
SKAGIT													
4145	BU-18 DOUBLE DRUM W/5/8" CABLE	100 HP D	77,201	22.64			4.93	9.52	4.03	85			
4150	G-70 DOUBLE DRUM W/7/8" CABLE	100 HP D	104,629	28.92			6.69	12.91	4.03	126			
4155	RB-80 DOUBLE DRUM W/1-1/8" CABLE	130 HP D	161,420	43.40			10.31	19.91	5.24	240			
4160	RB-90WDOUBLE DRUM W/1-3/8" CABLE	150 HP D	178,494	48.29			11.40	22.01	6.04	300			
HYDRAULIC EXCAVATOR, CRAWLER MOUNTED													
T/B = TELESCOPING BOOM B/H = BACKHOE													
BADGER (HOPTO)													
4180	MOD 211	1.25 CY B/H	160 HP D	177,066	47.62	61.07	11.31	21.83	5.94	25.47			
4185	MOD 311	1.88 CY B/H	235 HP D	252,966	68.31	87.63	16.15	31.19	8.72	36.40			
4190	MOD 900B	2.00 CY B/H	308 HP D	305,829	83.66	107.34	19.53	37.71	11.43	44.00			
4195	MOD 1900	5.00 CY B/H	616 HP D	637,545	160.72	199.24	38.28	69.86	22.85	78.61			
BUCYRUS ERIE													
4205	MOD 300-H	1.00 CY B/H	176 HP D	196,889	59.05	80.09	13.68	27.35	6.53	33.67			
4210	MOD 325-H	1.75 CY B/H	205 HP D	271,062	71.11	91.17	17.31	33.42	7.61	39.00			
4215	MOD 350-H	2.50 CY B/H	248 HP D	341,168	89.05	114.15	21.78	42.06	9.20	49.09			
4220	MOD 400-H	4.25 CY B/H	392 HP D	570,413	136.59	168.78	34.25	62.50	14.54	70.33			
CASE													
4230	MOD 880C "E" BOOM .63 CY	B/H	115 HP D	117,623	35.79	48.51	8.17	16.34	4.27	20.11			
4235	MOD 980B	1.00 CY B/H	165 HP D	143,557	44.94	60.86	9.97	19.94	6.12	24.54			
4240	MOD 1280	1.25 CY B/H	200 HP D	166,509	46.98	60.33	10.63	20.53	7.42	23.96			
CATERPILLAR													
4250	MOD 215B	.75 CY B/H	105 HP D	129,739	38.35	52.05	9.01	18.02	3.90	22.19			
4255	MOD 225	1.00 CY B/H	135 HP D	172,054	50.64	68.72	11.95	23.90	5.01	29.42			
4260	MOD 235	1.50 CY B/H	195 HP D	313,841	80.44	103.07	20.04	38.69	7.23	45.15			
										9.51			
										891			

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		
	HYDRAULIC EXCAVATOR,CRLR MTD (CONT'D)									
	T/B = TELESCOPING BOOM									
	B/H = BACKHOE									
	CATERPILLAR (CONT'D)									
4265	MOD 245 2.50 CY B/H 325 HP D	487,984	126.06	161.55	31.16	60.17	12.06	70.22	15.85	1385
	GRADALL									
4280	MOD G-660 .63 CY T/B 115 HP D	171,480	49.47	67.18	11.91	23.82	4.27	29.32	5.61	450
4285	MOD G-660C .88 CY T/B 145 HP D	179,390	53.02	71.93	12.46	24.92	5.38	30.67	7.07	452
4290	MOD G-880C 1.00 CY T/B 145 HP D	214,126	61.85	83.98	14.88	29.75	5.38	36.61	7.07	536
4295	MOD G-1000 1.25 CY T/B 272 HP D	288,880	78.17	100.29	18.45	35.62	10.09	41.57	13.26	787
	INSLEY									
4310	MOD H1000C 1.25 CY B/H 180 HP D	164,299	45.59	58.53	10.50	20.26	6.68	23.64	8.78	517
4315	MOD H2500C 2.25 CY B/H 290 HP D	294,480	80.25	102.98	18.81	36.31	10.76	42.37	14.14	931
4320	MOD H3500C 3.50 CY B/H 390 HP D	413,616	103.83	128.68	24.83	45.32	14.47	51.00	19.02	1276
	JOHN DEERE									
4330	MOD 490 .50 CY B/H 75 HP D	83,516	25.07	34.00	5.80	11.60	2.78	14.28	3.66	265
4335	MOD 690 C .875 CY B/H 125 HP D	117,282	36.21	49.06	8.15	16.29	4.64	20.05	6.09	400
4340	MOD 790 1.00 CY B/H 155 HP D	148,902	45.79	62.04	10.35	20.69	5.75	25.46	7.56	510
4345	MOD 890 A 1.875 CY B/H 210 HP D	244,413	65.23	83.67	15.60	30.13	7.79	35.16	10.24	880
4350	MOD 990 2.125 CY B/H 260 HP D	274,921	74.45	95.52	17.56	33.90	9.65	39.56	12.68	912
	KOEHRING									
4360	MOD 166 BANTAM .88 CY B/H 108 HP D	130,835	38.78	52.62	9.09	18.17	4.01	22.37	5.27	374
4365	MOD 266 BANTAM 1.13 CY B/H 143 HP D	171,693	45.63	58.50	10.96	21.17	5.31	24.70	6.97	514
4370	MOD 366 BANTAM 1.25 CY B/H 210 HP D	205,744	56.40	72.38	13.14	25.37	7.79	29.60	10.24	612
4375	MOD 566 1.50 CY B/H 240 HP D	298,552	78.95	101.24	19.07	36.81	8.90	42.96	11.70	834
4380	MOD 666E 2.00 CY B/H 307 HP D	372,045	98.74	126.62	23.75	45.87	11.39	53.53	14.97	1075
4385	MOD 866E 3.25 CY B/H 332 HP D	477,578	114.54	141.53	28.68	52.33	12.32	58.88	16.19	1306
4390	MOD 1066E 4.00 CY B/H 420 HP D	593,675	142.71	176.38	35.64	65.05	15.58	73.19	20.48	1640

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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		
HYDRAULIC EXCAVATOR,CRLR MTD (CONT'D)											
	T/B = TELESCOPING BOOM B/H = BACKHOE										
KOEHRING (CONT'D)											
4395	MOD 1166E	5.00 CY B/H 464 HP D	661,887	158.92	196.39	39.74	72.53	17.21	81.61	22.62	1890
4400	MOD 1266	5.50 CY B/H 664 HP D	961,848	228.06	274.85	54.47	97.98	24.63	108.01	32.38	2600
4405	MOD 1466	9.00 CY B/H 832 HP D	1,121,707	268.63	329.03	63.52	114.26	30.87	125.97	40.57	2900
KOMATSU											
4415	MOD PC 120-2	.65 CY B/H 90 HP D	84,187	26.00	35.24	5.85	11.69	3.34	14.39	4.39	256
4420	MOD PC 200 LC-2	1.05 CY B/H 105 HP D	126,521	33.61	43.09	8.08	15.60	3.90	18.20	5.12	448
4425	MOD PC 220 LC-2	1.31 CY B/H 136 HP D	161,931	43.08	55.26	10.34	19.96	5.05	23.30	6.63	514
4430	MOD PC 300 LC-2	1.73 CY B/H 180 HP D	199,785	53.70	68.88	12.76	24.63	6.68	28.74	8.78	690
4435	MOD PC 650-1	3.00 CY B/H 410 HP D	473,381	126.50	162.25	30.23	58.37	15.21	68.11	19.99	1433
UNIT											
4445	MOD H202CT SER II	1.25 CY B/H 152 HP D	161,545	43.70	56.07	10.31	19.91	5.64	23.24	7.41	475
4450	MOD H342	1.63 CY B/H 228 HP D	260,325	69.67	89.38	16.62	32.09	8.46	37.46	11.12	723
4455	MOD H471	1.75 CY B/H 304 HP D	322,683	87.32	112.03	20.60	39.78	11.28	46.43	14.82	972
HYDRAULIC EXCAVATOR, TRUCK MOUNTED											
	(HP & FUEL LISTED EQUIP/CARRIER)										
	T/B = TELESCOPING BOOM B/H = BACKHOE										
GRADALL											
4465	MOD G-660C	.88 CY T/B 145/210 HP D/G	199,468	39.79	47.51	11.01	19.27	8.19	21.03	10.74	422
4470	MOD G-880C	1.00 CY T/B 145/210 HP D/D	239,607	44.36	52.34	13.23	23.14	7.29	25.25	9.38	535
4475	MOD G-1000	1.25 CY T/B 272/312 HP D/D	312,916	58.51	68.44	16.43	27.21	13.11	29.07	16.93	726

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.	FUEL OWNER-SHIP	FUEL OWNER-SHIP			
LAND CLEARING EQUIPMENT											
			AVERAGE	SEVERE							
4485	FLECO LAND CLEARING RAKE FOR 123/235	D/G	21,261	4.92	6.24	1.36	2.63	0.00	3.07	0.00	67
4490	FLECO LAND CLEARING RAKE FOR 160/210	D/D	28,192	6.51	8.26	1.80	3.49	0.00	4.08	0.00	98
4495	FLECO LAND CLEARING RAKE FOR 272/312	D/D	41,634	9.60	12.18	2.66	5.16	0.00	6.02	0.00	138
4500	FLECO CLAMP RAKE FOR CAT 973 (ADD TO 977 LOADER)		21,078	5.01	6.33	1.34	2.60	0.00	3.05	0.00	58
LIGHTING SETS, TRAILER MOUNTED											
ALLMAND METALLIC VAPOR											
4510	MAXI-LITE III 4/1000W	15 HP D	15,250	6.80			1.05	2.07	0.79		29
OVER-LOWE METALLIC VAPOR											
4520	TM 352 2/1000W 3 KW	6 HP D	11,933	4.93			0.81	1.60	0.32		17
4525	TM 354 4/1000W 6 KW	12 HP D	15,759	6.80			1.08	2.14	0.64		22
4530	TM 356 6/1000W 8 KW	15 HP D	18,501	8.05			1.28	2.52	0.79		24
LOADERS, BELT											
KOLMAN											
4540	101XHD 24"X50" 355 T/HR	28 HP D	34,293	10.26	13.42	2.15	3.91	1.13	4.53	1.48	116
OPTIONAL EQUIPMENT SELECT AS NEEDED											
4550	PLATE FEEDER DOZER TRAP MODEL 45		6,657	1.58	2.02	0.42	0.79	0.00	0.93	0.00	37
4555	BELT FEEDER DOZER TRAP MODEL 65		7,949	1.89	2.42	0.51	0.95	0.00	1.11	0.00	36
4560	WING WALLS STATIONARY		1,549	0.36	0.46	0.10	0.18	0.00	0.21	0.00	9
4565	TUNNEL EXTENSION W/WING WALLS		8,050	1.92	2.44	0.52	0.97	0.00	1.12	0.00	61
4570	SINGLE DECK SCREEN SB-70 7'X42		6,070	1.45	1.84	0.39	0.73	0.00	0.84	0.00	19
4575	DOUBLE DECK SCREEN DC-70-42 7'X42		7,510	1.79	2.28	0.48	0.90	0.00	1.05	0.00	27
4580	TRIPLE DECK SCREEN TC-70-42 7'X42		10,761	2.56	3.27	0.69	1.29	0.00	1.50	0.00	34
4585	XHD CONVEYOR JACKLEG		1,132	0.26	0.34	0.07	0.13	0.00	0.15	0.00	9

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															
LOADERS, BELT (CONT'D)																			

KOLMAN (CONT'D)																			
4590	101XHD 30"X50' 615 T/HR	42 HP D	37,366	11.87	15.58	2.34	4.25	1.69	4.91	2.23	135								
OPTIONAL EQUIPMENT SELECT AS NEEDED																			
4600	PLATE FEEDER DOZER TRAP MODEL 45		7,838	1.87	2.38	0.51	0.94	0.00	1.09	0.00	42								
4605	BELT FEEDER DOZER TRAP MODEL 65		8,472	2.02	2.56	0.55	1.02	0.00	1.17	0.00	40								
4610	WING WALLS STATIONARY		1,549	0.36	0.46	0.10	0.18	0.00	0.21	0.00	9								
4615	TUNNEL EXTENSION W/WING WALLS		8,050	1.92	2.44	0.52	0.97	0.00	1.12	0.00	61								
4620	SINGLE DECK SCREEN SB-80 8"X48		6,960	1.66	2.10	0.45	0.84	0.00	0.96	0.00	23								
4625	DOUBLE DECK SCREEN DC-80-48 8"X48		9,747	2.31	2.95	0.62	1.16	0.00	1.35	0.00	35								
4630	TRIPLE DECK SCREEN TC-80-48 8"X48		12,171	2.89	3.69	0.78	1.45	0.00	1.69	0.00	43								
4635	XHD CONVEYOR JACKLEG		1,132	0.26	0.34	0.07	0.13	0.00	0.15	0.00	9								
4640	101XHD 36"X50' 910 T/HR	56 HP D	43,090	14.21	18.72	2.69	4.86	2.26	5.62	2.97	160								
OPTIONAL EQUIPMENT SELECT AS NEEDED																			
4650	PLATE FEEDER DOZER TRAP MODEL 45		8,311	1.98	2.52	0.54	1.00	0.00	1.15	0.00	45								
4655	BELT FEEDER DOZER TRAP MODEL 65		9,046	2.15	2.75	0.58	1.08	0.00	1.26	0.00	42								
4660	WING WALLS STATIONARY		1,549	0.36	0.46	0.10	0.18	0.00	0.21	0.00	9								
4665	TUNNEL EXTENSION W/WING WALLS		8,050	1.92	2.44	0.52	0.97	0.00	1.12	0.00	61								
4670	SINGLE DECK SCREEN SB-90 9"X54		8,105	1.93	2.46	0.52	0.97	0.00	1.13	0.00	28								
4675	DOUBLE DECK SCREEN DC-90-54 9"X54		11,687	2.78	3.54	0.75	1.40	0.00	1.62	0.00	43								
4680	TRIPLE DECK SCREEN TC-90-54 9"X54		14,965	3.56	4.54	0.96	1.79	0.00	2.08	0.00	54								
4685	XHD CONVEYOR JACKLEG		1,132	0.26	0.34	0.07	0.13	0.00	0.15	0.00	9								
4690	101XHD 42"X50' 1260 T/HR	84 HP D	54,944	18.93	24.96	3.42	6.18	3.38	7.13	4.45	180								
OPTIONAL EQUIPMENT SELECT AS NEEDED																			
4700	PLATE FEEDER DOZER TRAP MODEL 45		9,596	2.29	2.91	0.62	1.15	0.00	1.33	0.00	48								
4705	BELT FEEDER DOZER TRAP MODEL 65		12,059	2.87	3.66	0.77	1.44	0.00	1.68	0.00	45								
4710	WING WALLS STATIONARY		1,549	0.36	0.46	0.10	0.18	0.00	0.21	0.00	9								
4715	TUNNEL EXTENSION W/WING WALLS		8,050	1.92	2.44	0.52	0.97	0.00	1.12	0.00	61								
4720	SINGLE DECK SCREEN SB-100 60"X10"		10,491	2.50	3.19	0.68	1.26	0.00	1.46	0.00	37								

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. OWNER-SHIP	SEVERE COND. OWNER-SHIP										
			AVERAGE	SEVERE													
LOADERS, BELT (CONT'D)																	
KOLMAN (CONT'D)																	
4725	DOUBLE DECK SCREEN DC-100 60"X10"	13,642	3.25	4.13	0.87	1.63	0.00	1.89	0.00	55							
4730	TRIPLE DECK SCREEN TC-100 60"X10"	20,619	4.91	6.25	1.32	2.47	0.00	2.86	0.00	68							
4735	XHD CONVEYOR JACKLEG	1,132	0.26	0.34	0.07	0.13	0.00	0.15	0.00	9							
4740	101XHD 48"X50' 1700 T/HR 128 HP D	94,581	30.17	39.15	5.97	10.96	5.16	12.69	6.78	265							
OPTIONAL EQUIPMENT SELECT AS NEEDED																	
4750	PLATE FEEDER DOZER TRAP MODEL 45	13,434	3.20	4.07	0.86	1.61	0.00	1.86	0.00	51							
4755	WING WALLS STATIONARY	1,549	0.36	0.46	0.10	0.18	0.00	0.21	0.00	9							
4760	TUNNEL EXTENSION W/WING WALLS	8,566	2.03	2.60	0.55	1.02	0.00	1.19	0.00	66							
4765	SINGLE DECK SCREEN SB-120 60"X12"	12,636	3.02	3.84	0.82	1.52	0.00	1.76	0.00	53							
4770	DOUBLE DECK SCREEN DC-120 60"X12"	18,530	4.40	5.63	1.18	2.21	0.00	2.58	0.00	77							
4775	TRIPLE DECK SCREEN TC-120 60"X12"	25,378	6.04	7.70	1.63	3.04	0.00	3.53	0.00	80							
4780	XHD CONVEYOR JACKLEG	1,132	0.26	0.34	0.07	0.13	0.00	0.15	0.00	9							
4785	303 48"X50' 2000 CY/HR 125 HP D	161,372	49.26	65.02	10.07	18.21	5.03	21.03	6.62	627							
4790	303 48"X60' 2000 CY/HR 185 HP D	179,068	56.66	74.63	11.20	20.30	7.45	23.46	9.80	662							
4795	303 60"X50' 3600 CY/HR 185 HP D	184,933	59.92	79.70	11.48	20.64	7.45	23.84	9.80	682							
4800	303 60"X60' 3600 CY/HR 290 HP D	212,154	73.04	97.20	13.17	23.66	11.68	27.30	15.37	737							
4805	404 48"X50' 2000 CY/HR 185 HP D	197,723	61.00	80.12	12.40	22.55	7.45	26.08	9.80	616							
4810	404 48"X60' 2000 CY/HR 185 HP D	208,911	63.77	83.68	13.11	23.87	7.45	27.61	9.80	650							
4815	404 60"X50' 3600 CY/HR 290 HP D	236,353	77.56	102.39	14.78	26.79	11.68	30.96	15.37	671							
4820	404 60"X60' 3600 CY/HR 290 HP D	260,990	84.67	112.03	16.30	29.51	11.68	34.10	15.37	724							
OPTIONAL EQUIPMENT SELECT AS NEEDED																	
4830	SINGLE DECK SCREEN SB-120 72"X12"	16,165	3.85	4.91	1.04	1.94	0.00	2.25	0.00	58							
4835	DOUBLE DECK SCREEN DC-120 72"X12"	21,496	5.12	6.52	1.38	2.57	0.00	2.99	0.00	85							
4840	TRIPLE DECK SCREEN TC-120 72"X12"	24,402	5.81	7.40	1.56	2.92	0.00	3.39	0.00	90							
4845	SINGLE DECK VIBRATING GRIZZLE 72"W	24,455	5.82	7.42	1.56	2.92	0.00	3.40	0.00	89							

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, FRONT END, CRAWLER TYPE														
CASE														
4855	350 B	3/4 CY	39 HP D	45,932	15.33	19.24	2.93	5.68	1.69	6.64	2.23	105		
4860	455 C	1 CY	63 HP D	61,663	21.24	26.67	3.93	7.63	2.74	8.91	3.61	150		
4865	855 C	1-1/2 CY	78 HP D	81,492	27.75	34.83	5.20	10.08	3.39	11.78	4.46	236		
4870	1155 D	1-3/4 CY	110 HP D	108,017	37.19	46.69	6.90	13.37	4.78	15.61	6.30	282		
4875	1455 B	2-1/4 CY	140 HP D	126,525	44.22	55.57	8.08	15.66	6.08	18.29	8.01	360		
CATERPILLAR														
4885	931B	1 CY	65 HP D	49,310	17.85	22.48	3.15	6.10	2.82	7.13	3.72	160		
4890	943	1-1/2 CY	80 HP D	95,389	31.81	39.88	6.09	11.80	3.48	13.79	4.58	257		
4895	953	2 CY	110 HP D	117,578	39.89	50.06	7.50	14.55	4.78	17.00	6.30	300		
4900	963	2-1/2 CY	150 HP D	153,741	52.54	65.93	9.81	19.03	6.52	22.22	8.59	399		
4905	973	3-3/4 CY	210 HP D	214,938	73.47	92.20	13.72	26.60	9.13	31.06	12.02	540		
FIAT-ALLIS														
4915	FL5	1 CY	63 HP D	50,492	18.08	22.73	3.22	6.25	2.74	7.29	3.61	165		
4920	FL7	1-1/4 CY	78 HP D	61,183	22.00	27.68	3.90	7.57	3.39	8.84	4.46	198		
4925	FL9	1-5/8 CY	87 HP D	71,275	25.40	31.94	4.55	8.82	3.78	10.30	4.98	252		
4930	FL10C	2 CY	122 HP D	92,091	33.39	42.03	5.88	11.40	5.30	13.31	6.98	300		
4935	FL14C	2-5/8 CY	150 HP D	123,163	43.87	55.18	7.86	15.24	6.52	17.80	8.59	410		
4940	FL20	3-1/2 CY	223 HP D	173,058	62.38	78.49	11.05	21.42	9.69	25.01	12.76	585		
INTERNATIONAL														
4950	100-E	1-1/8 CY	65 HP D	58,277	20.39	25.63	3.72	7.21	2.82	8.42	3.72	161		
4955	125-E	1-3/8 CY	78 HP D	72,460	25.20	31.65	4.63	8.97	3.39	10.47	4.46	199		
4960	175-C	2 CY	130 HP D	110,770	39.17	49.24	7.07	13.71	5.65	16.01	7.44	338		
4965	250-C	2-3/4 CY	190 HP D	159,868	56.68	71.24	10.21	19.79	8.26	23.10	10.88	452		

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	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE			FUEL	OWNER-SHIP	FUEL						
LOADERS, F.E., CRAWLER TYPE (CONT'D)															
JOHN DEERE															
4975	JD350-C	3/4 CY	42 HP D	43,987	14.98	18.78	2.81	5.45	1.83	6.35	2.40	119			
4980	JD455-D	1-1/4 CY	67 HP D	58,596	20.61	25.90	3.74	7.25	2.91	8.46	3.84	172			
4985	JD555-A	1-3/8 CY	78 HP D	71,729	24.99	31.40	4.57	8.87	3.39	10.37	4.46	188			
4990	JD655	2 CY	110 HP D	105,682	36.53	45.87	6.74	13.08	4.78	15.28	6.30	296			
4995	JD755-A	2-1/4 CY	130 HP D	119,278	41.58	52.23	7.61	14.76	5.65	17.24	7.44	320			
5000	JD855	2-3/4 CY	200 HP D	169,825	60.08	75.54	10.84	21.02	8.69	24.54	11.45	460			
KOMATSU															
5010	D31S-17	1.3 CY	66 HP D	52,241	18.75	23.60	3.33	6.46	2.87	7.55	3.78	156			
5015	D41S-3	1.6 CY	90 HP D	73,042	26.08	32.81	4.66	9.04	3.91	10.56	5.15	262			
5020	D53S-16	1.8 CY	110 HP D	91,105	32.39	40.74	5.81	11.27	4.78	13.17	6.30	300			
5025	D57S-1	2.1 CY	135 HP D	113,182	40.15	50.49	7.22	14.01	5.87	16.36	7.73	340			
5030	D75S-3	3.3 CY	200 HP D	161,597	57.74	72.64	10.31	19.99	8.69	23.35	11.45	485			
5035	D155S-1	5.9 CY	350 HP D	315,644	110.37	138.67	20.15	39.06	15.21	45.61	20.03	950			
LOADERS, FRONT END, WHEEL TYPE															
(ARTIC = ARTICULATED)															
BOBCAT															
5045	MOD 440	6 CWT. SKID STEER	16 HP G	9,639	3.66	4.72	0.61	1.13	1.18	1.32	1.54	21			
5050	MOD 443	6 CWT. SKID STEER	15 HP D	11,528	3.34	4.28	0.73	1.35	0.60	1.57	0.79	24			
5055	MOD 540	8 CWT. SKID STEER	23 HP G	13,135	5.07	6.50	0.84	1.56	1.70	1.81	2.22	31			
5060	MOD 543	8 CWT. SKID STEER	22 HP D	14,720	4.41	5.64	0.94	1.74	0.89	2.02	1.17	33			
5065	MOD 641	10 CWT. SKID STEER	28 HP D	17,364	5.32	6.78	1.11	2.06	1.13	2.39	1.48	39			
5070	MOD 642	10 CWT. SKID STEER	32 HP G	16,058	6.57	8.42	1.02	1.90	2.37	2.21	3.08	38			
5075	MOD 742	13 CWT. SKID STEER	34 HP G	18,520	7.27	9.31	1.18	2.20	2.51	2.56	3.27	45			
5080	MOD 743	13 CWT. SKID STEER	36 HP D	19,801	6.29	8.02	1.26	2.35	1.45	2.72	1.91	46			
5085	MOD 843	17 CWT. SKID STEER	54 HP D	25,582	8.70	11.26	1.62	2.98	2.18	3.46	2.86	63			
5090	MOD 974	37 CWT. SKID STEER	78 HP D	47,150	15.12	19.91	2.95	5.37	3.14	6.22	4.13	121			

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 COND.	SEVERE COND.						
					AVERAGE	SEVERE	FUEL	OWNER-SHIP	FUEL						
LOADERS, F.E., WHEEL TYPE (CONT'D)															

CASE															
5100	W-4	1/2 CY ARTIC	37 HP D	27,820	8.12	10.36	1.77	3.28	1.49	3.80	1.96	48			
5105	W-11	3/4 CY ARTIC	55 HP D	50,708	14.07	17.95	3.22	5.98	2.22	6.95	2.91	89			
5110	W-14	1-1/2 CY ARTIC	83 HP D	67,919	19.64	25.37	4.30	7.92	3.34	9.18	4.40	146			
5115	W-18 B	1-3/4 CY ARTIC	103 HP D	87,217	24.99	32.22	5.52	10.18	4.15	11.80	5.46	194			
5120	W-20 C	2 CY ARTIC	110 HP D	93,823	27.28	35.64	5.89	10.78	4.43	12.48	5.83	230			
5125	W-24 C	2-1/2 CY ARTIC	132 HP D	111,792	31.83	40.81	7.09	13.13	5.32	15.22	7.00	216			
5130	W-36	3-1/2 CY ARTIC	185 HP D	149,819	44.01	57.40	9.42	17.26	7.45	19.98	9.80	398			
CATERPILLAR															
5140	910	1-1/4 CY ARTIC	65 HP D	56,437	16.14	20.89	3.56	6.56	2.62	7.61	3.44	145			
5145	920	1-3/4 CY ARTIC	80 HP D	78,676	21.75	27.93	4.99	9.22	3.22	10.67	4.24	186			
5150	930	2-1/4 CY ARTIC	100 HP D	90,094	25.42	32.75	5.70	10.52	4.03	12.20	5.30	212			
5155	950-B	3 CY ARTIC	155 HP D	140,562	39.70	51.20	8.89	16.40	6.24	19.00	8.21	328			
5160	966-D	4 CY ARTIC	200 HP D	191,323	53.69	69.55	12.08	22.21	8.06	25.72	10.60	426			
5165	980-C	5-1/4 CY ARTIC	270 HP D	255,601	66.79	86.40	14.88	27.43	10.88	30.92	14.31	598			
5170	988-B	7 CY ARTIC	375 HP D	368,961	93.88	121.11	21.33	38.99	15.10	43.90	19.87	892			
5175	992-C	13 CY ARTIC	690 HP D	751,329	189.70	247.63	43.13	78.20	27.79	87.96	36.57	1916			
CLARK															
5185	35C	1-1/2 CY	85 HP D	68,829	19.89	25.61	4.36	8.05	3.42	9.33	4.50	180			
5190	45C	2 CY	110 HP D	80,545	23.85	30.69	5.10	9.43	4.43	10.94	5.83	206			
5195	55C	2-1/2 CY ARTIC	121 HP D	93,735	27.40	35.27	5.94	10.97	4.87	12.71	6.41	262			
5200	75C	3 CY ARTIC	154 HP D	133,296	38.29	49.68	8.41	15.45	6.20	17.89	8.16	313			
5205	125C	4 CY ARTIC	203 HP D	179,987	51.76	67.54	11.32	20.73	8.18	24.00	10.76	437			
5210	175C	5 CY ARTIC	279 HP D	241,483	64.60	83.86	14.04	25.84	11.24	29.12	14.79	565			
5215	275C	7 CY ARTIC	360 HP D	352,663	88.92	113.58	20.50	37.73	14.50	42.51	19.08	864			
5220	475C	12 CY ARTIC	612 HP D	662,248	165.89	214.65	38.21	69.70	24.65	78.46	32.44	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	AVERAGE COND.	SEVERE COND.			
LOADERS, F.E., WHEEL TYPE (CONT'D)												
FIAT-ALLIS												
5230	345-B	1-1/2 CY ARTIC	80 HP D	61,145	17.94	23.15	3.87	7.14	3.22	8.28	4.24	151
5235	FR-10	2-1/4 CY ARTIC	110 HP D	78,188	23.25	29.85	4.96	9.19	4.43	10.65	5.83	212
5240	FR-12	2-1/2 CY ARTIC	127 HP D	85,862	26.09	33.68	5.43	10.02	5.12	11.61	6.73	230
5245	FR-15	3 CY ARTIC	164 HP D	119,817	36.10	47.08	7.54	13.81	6.61	15.98	8.69	296
5250	FR-20	4-1/2 CY ARTIC	223 HP D	179,229	52.75	68.85	11.27	20.64	8.98	23.90	11.82	445
5255	945-B	6-1/2 CY ARTIC	335 HP D	275,753	73.16	94.62	15.93	29.08	13.49	32.73	17.75	666
FORD												
5265	445A	3/4 CY	48 HP D	28,813	9.10	11.83	1.82	3.33	1.93	3.86	2.54	73
5270	555A	1 CY	62 HP D	36,040	11.44	14.78	2.28	4.20	2.50	4.86	3.29	78
5275	A-62	1-1/2 CY	88 HP D	70,836	20.48	26.37	4.49	8.29	3.54	9.61	4.66	173
5280	A-64	2 CY ARTIC	107 HP D	85,745	24.92	32.14	5.43	10.01	4.31	11.60	5.67	228
5285	A-66	2-1/2 CY ARTIC	136 HP D	119,914	34.27	44.40	7.57	13.92	5.48	16.12	7.21	256
INTERNATIONAL												
5295	510B	1-3/8 CY	80 HP D	59,927	17.72	22.93	3.79	6.98	3.22	8.09	4.24	140
5300	515B	1-5/8 CY	100 HP D	73,592	21.82	28.13	4.66	8.60	4.03	9.97	5.30	167
5305	520B	2-1/4 CY ARTIC	120 HP D	86,556	25.82	33.33	5.47	10.10	4.83	11.71	6.36	232
5310	530	2-3/4 CY ARTIC	155 HP D	123,973	36.19	46.87	7.82	14.40	6.24	16.68	8.21	291
5315	540	3-3/4 CY ARTIC	189 HP D	168,988	48.55	63.36	10.62	19.45	7.61	22.51	10.02	360
5320	550	5-1/4 CY ARTIC	209 HP D	237,080	65.99	87.25	14.80	26.87	8.42	31.07	11.08	544
5325	560B	7-1/2 CY ARTIC	415 HP D	346,977	90.73	116.10	20.16	37.09	15.72	41.79	21.99	830
5330	570	12 CY ARTIC	590 HP D	646,359	159.81	204.61	37.51	68.90	23.77	77.62	31.27	1350
JOHN DEERE												
5340	300B	3/4 CY	43 HP D	26,592	8.28	10.68	1.68	3.10	1.73	3.59	2.28	69
5345	444C	1-1/2 CY	85 HP D	71,238	20.39	26.25	4.52	8.34	3.42	9.67	4.50	179
5350	544C	2 CY ARTIC	105 HP D	85,837	24.58	31.46	5.45	10.11	4.23	11.72	5.56	197

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				
LOADERS, F.E., WHEEL TYPE (CONT'D)													
JOHN DEERE (CONT'D)													
5355	644C	3 CY ARTIC	145 HP D	122,209	35.12	45.39	7.72	14.23	5.84	16.50	7.68	260	
5360	844	4-1/2 CY ARTIC	260 HP D	220,673	59.69	77.89	12.80	23.50	10.47	26.48	13.78	490	
KAWASAKI													
5370	KSS-65Z	2.2 CY	104 HP D	74,852	22.45	29.08	4.73	8.70	4.19	10.08	5.51	225	
5375	KSS-70	3.0 CY	158 HP D	101,981	31.74	41.38	6.41	11.76	6.36	13.62	8.37	305	
5380	KSS-80ZII	3.5 CY	165 HP D	109,234	33.73	43.93	6.87	12.61	6.65	14.60	8.74	327	
5385	KSS-85ZII	4.0 CY	217 HP D	148,134	45.57	59.58	9.30	17.02	8.74	19.70	11.50	409	
5390	KSS-95ZII	5.5 CY	305 HP D	201,742	58.07	75.75	11.70	21.49	12.29	24.21	16.16	615	
5395	KSS-110Z	7.5 CY	383 HP D	314,862	84.14	109.56	18.10	32.90	15.43	37.03	20.30	864	
TEREX (GM)													
5405	33C	2 CY	103 HP D	74,265	22.27	28.85	4.69	8.63	4.15	10.00	5.46	216	
5410	44C	2-1/2 CY	113 HP D	84,595	25.01	32.30	5.35	9.86	4.55	11.44	5.99	250	
5415	55C	3-1/4 CY	144 HP D	117,881	34.35	44.62	7.43	13.65	5.80	15.81	7.63	280	
5420	66C	4 CY	210 HP D	162,250	48.10	62.63	10.21	18.73	8.46	21.69	11.13	425	
5425	80C	5-1/2 CY	307 HP D	241,711	66.11	85.84	14.05	25.86	12.37	29.15	16.27	590	
5430	90B	7-1/2 CY	388 HP D	351,516	90.18	115.25	20.43	37.60	15.63	42.36	20.56	845	
TROJAN													
5440	1500Z	1-3/4 CY ARTIC	93 HP D	67,312	20.24	26.29	4.25	7.80	3.75	9.03	4.93	180	
5445	1900Z	2-1/2 CY ARTIC	119 HP G	84,996	30.24	39.02	5.37	9.91	8.80	11.49	11.46	220	
5450	2000Z	3 CY ARTIC	160 HP D	110,826	33.73	43.84	6.99	12.83	6.44	14.86	8.48	306	
5455	4000	4-1/4 CY ARTIC	203 HP D	164,622	48.53	63.54	10.33	18.89	8.18	21.86	10.76	410	
5460	5500	5-1/2 CY ARTIC	285 HP D	238,415	64.64	84.28	13.84	25.41	11.48	28.63	15.10	616	
5465	7500	7 CY ARTIC	400 HP D	313,487	83.65	107.56	18.17	33.32	16.11	37.53	21.20	846	

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				
LOADER/BACKHOE, WHEEL TYPE TRACTOR *****													
CASE													
5475	480D LDR/BHOE	7/8 CY FE BUCKET 24" B/H DIPPER	47 HP D	45,191	12.78	16.09	2.86	5.30	1.89	6.15	2.49	100	
5480	580D LDR/BHOE	1.0 CY FE BUCKET 24" B/H DIPPER	55 HP D	52,680	14.83	18.63	3.35	6.22	2.22	7.22	2.91	115	
5485	680H LDR/BHOE	1-1/4 CY FE BUCKET 30" B/H DIPPER	80 HP D	80,988	22.63	28.45	5.14	9.53	3.22	11.05	4.24	165	
5490	780B LDR/BHOE	1-3/4 CY FE BUCKET 30" B/H DIPPER	111 HP D	95,791	27.66	34.82	6.07	11.23	4.47	13.02	5.88	200	
JOHN DEERE													
5500	310B LDR/BH	3/4 CY FE BUCKET 24" B/H DIPPER	58 HP D	45,918	13.55	17.07	2.91	5.38	2.34	6.23	3.07	135	
5505	410B LDR/BH	1 CY FE BUCKET 24" B/H DIPPER	62 HP D	54,064	15.62	19.67	3.43	6.34	2.50	7.35	3.29	138	
5510	510B LDR/BHOE	1-1/8 CY FE BUCKET 24" B/H DIPPER	70 HP D	62,482	17.98	22.64	3.96	7.31	2.82	8.48	3.71	150	
5515	610B LDR/BH	1-1/3 CY FE BUCKET 24" B/H DIPPER	80 HP D	71,342	20.48	25.78	4.52	8.37	3.22	9.70	4.24	163	
5520	710B LDR/BHOE	1-1/2 CY FE BUCKET 30" B/H DIPPER	100 HP D	86,313	25.06	31.60	5.46	10.06	4.03	11.67	5.30	220	
LOADER/BACKHOE, CRLR TYPE TRACTOR *****													
CASE													
5530	350B LDR/BHOE	3/4 CY FE BUCKET 24" B/H DIPPER	39 HP D	60,644	19.51	24.42	3.87	7.51	1.69	8.77	2.23	141	
5535	450B LDR/BHOE	1 CY FE BUCKET 24" B/H DIPPER	53 HP D	72,191	23.62	29.57	4.60	8.93	2.30	10.43	3.03	167	
CATERPILLAR													
5545	931BLDR/BHOE	1 CY FE BUCKET 30" B/H DIPPER	65 HP D	63,700	21.93	27.53	4.06	7.88	2.82	9.20	3.72	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 COND.	SEVERE COND.		
			AVERAGE	SEVERE		OWNER-SHIP	FUEL OWNER-SHIP	FUEL	
LOADER/BACKHOE ATTACHMENTS *****									
5555	KENT RAM 555 W/NARROW CHISEL	5,413	2.47		0.42	0.85	0.00		6
5560	KENT RAM 999 W/NARROW CHISEL	11,201	5.09		0.86	1.75	0.00		10
5565	KENT RAM 2000 W/CHISEL-MIN 3/4CY B/H	21,751	9.86		1.68	3.41	0.00		22
5570	KENT KHP-12 HYDRA-PAK TAMPER	5,737	2.30		0.44	0.90	0.00		9
5575	KENT KHP-25 HYDRA-PAK MIN 3/4CY B/H	9,014	3.59		0.69	1.41	0.00		15
PILE EXTRACTORS *****									
MKT CORPORATION									
5585	E2 700 FT-LBS	400CFM A	15,737	5.84		1.21	2.46	0.00	27
5590	E4 1000 FT-LBS	550CFM A	23,872	8.81		1.84	3.74	0.00	47
VULCAN									
5600	400A 500 FT-LBS	450CFM A	20,117	7.42		1.55	3.15	0.00	30
5605	800A 1000 FT-LBS	900CFM A	26,712	9.99		2.05	4.18	0.00	57
5610	1200A 1640 FT-LBS	1350CFM A	32,201	12.25		2.48	5.04	0.00	97
PILE HAMMERS, DIESEL ***** (FUEL NOT INCLUDED)									
MKT CORPORATION									
5620	DE-30B/20B (6-FT) 12,000 FT-LBS		39,852	14.17		3.07	6.24	0.00	74
5625	DE-30B/20B (6-FT) 16,300 FT-LBS		44,522	15.83		3.42	6.97	0.00	82
5630	DE-70B/50B (6-FT) 30,000 FT-LBS		73,211	25.99		5.64	11.47	0.00	138
5635	DE-70B/50B (6-FT) 42,000 FT-LBS		78,076	27.70		6.00	12.22	0.00	158

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 COND.	SEVERE COND.				
PILE HAMMERS, SINGLE ACTING													
VULCAN													
5645	1	15000 FT-LBS	750CFM A	41,323	15.09		3.18	6.47	0.00	101			
5650	06	19500 FT-LBS	900CFM A	47,458	17.33		3.65	7.43	0.00	121			
5655	08	26000 FT-LBS	1100CFM A	55,503	20.29		4.27	8.69	0.00	175			
5660	010	32500 FT-LBS	1350CFM A	60,890	22.36		4.69	9.54	0.00	195			
5665	012	39000 FT-LBS	1500CFM A	69,143	25.16		5.32	10.83	0.00	287			
5670	014	42000 FT-LBS	1750CFM A	81,252	29.77		6.25	12.72	0.00	283			
5675	016	48750 FT-LBS	1750CFM A	93,902	34.26		7.23	14.71	0.00	320			
5680	020	60000 FT-LBS	2150CFM A	125,662	45.73		9.67	19.68	0.00	425			
5685	030	90000 FT-LBS	2350CFM A	181,590	65.63		13.96	28.43	0.00	575			
PILE HAMMERS, DOUBLE ACTING													
MKT CORPORATION													
5695	9-B-3	8750 FT-LBS	900CFM A	32,286	11.97		2.49	5.06	0.00	74			
5700	10-B-3	13100 FT-LBS	1200CFM A	37,362	13.92		2.87	5.85	0.00	114			
5705	11-B-3	19150 FT-LBS	1200CFM A	49,550	18.23		3.81	7.75	0.00	141			
5710	5 (SELF STOP)	1000 FT-LBS	375CFM A	11,984	4.50		0.92	1.87	0.00	17			
5715	6 (SELF STOP)	2500 FT-LBS	600CFM A	15,402	5.82		1.19	2.42	0.00	31			
5720	7 (SELF STOP)	4150 FT-LBS	750CFM A	19,558	7.39		1.50	3.06	0.00	50			
VULCAN													
5730	50C	15100 FT-LBS	1250CFM A	53,176	19.55		4.09	8.33	0.00	153			
5735	65C	19200 FT-LBS	1450CFM A	60,352	22.22		4.64	9.45	0.00	153			
5740	80C	24450 FT-LBS	1750CFM A	65,283	24.13		5.03	10.23	0.00	184			
5745	100C	32900 FT-LBS	2050CFM A	80,147	29.57		6.17	12.55	0.00	232			
5750	140C	36000 FT-LBS	2150CFM A	98,325	36.05		7.56	15.40	0.00	287			
5755	200C	50200 FT-LBS	2550CFM A	139,476	50.84		10.73	21.84	0.00	398			

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	COND. FUEL OWNER-SHIP	SEVERE COND. FUEL		
	PILE HAMMERS, VIBRATORY ***** MKT CORPORATION								
5765	V5 WITH POWER PACK	59 HP D	69,339	27.68	5.33	10.86	2.38		110
5770	V16 WITH POWER PACK	156 HP D	130,482	54.47	10.04	20.43	6.28		215
5775	V20 WITH POWER PACK	295 HP D	189,351	82.69	14.56	29.65	11.88		257
5780	V30 WITH POWER PACK	550 HP D	203,372	101.22	15.64	31.85	22.15		350
5785	V36 WITH POWER PACK	650 HP D	255,524	125.00	19.66	40.02	26.18		450
	PIPELAYER *****								
	CATERPILLAR								
5795	561D 15 FT BOOM, 40,000 LB CAP 105 HP D	134,459	28.41	34.96	8.13	14.42	2.34	16.17	3.01
5800	571G 18 FT BOOM, 60,000 LB CAP 200 HP D	213,318	46.11	56.78	12.90	22.88	4.45	25.65	5.72
5805	572G 18 FT BOOM, 90,000 LB CAP 200 HP D	294,482	61.29	75.34	17.81	31.59	4.45	35.41	5.72
5810	583K 20 FT BOOM, 140,000 LB CAP 300 HP D	306,451	66.66	82.09	18.53	32.88	6.68	36.85	8.59
5815	594H 24 FT BOOM, 200,000 LB CAP 410 HP D	427,604	92.73	114.19	25.85	45.87	9.13	51.42	11.73
	PUMPS, GROUT *****								
	CHEMGROUT								
5825	CG-500 VERSATILE AIR OPERATED GROUT PLANT-100 PSI, 230 CFM	13,451	4.15		0.94	2.00	0.00		11
5830	CG-550 AIR OPERATED MINI GROUT PLANT-100 PSI, 150 CFM	4,990	1.60		0.35	0.75	0.00		5
5835	CG-600 AIR OPERATED COLLOIDAL MIXER AND PUMP-100 PSI, 450 CFM	19,893	6.24		1.39	2.96	0.00		18
5840	CG-620 COLLOIDAL ADD-ON TO CG-500	8,674	2.63		0.61	1.30	0.00		11

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															
PUMPS, WATER (FOR CORE DRILLS)																			
LONGYEAR																			
5850	520 RQG 5.7-20 GPM UP TO 600PSI	10 HP G	7,296	2.99		0.47	0.87	1.02		7									
5855	535 RQG 9.9-35 GPM UP TO 800PSI	15 HP G	9,245	4.10		0.59	1.11	1.53		10									
PUMPS, WATER, CENTRIFUGAL, DEWATERING																			
HOMELITE - SKID MOUNTED																			
5865	MOD 110S 1-1/2"-5000 GPH @ 30' H	2 HP G	520	0.38		0.03	0.06	0.20		1									
5870	MOD 111S 2" - 9000 GPH @ 22' H	3 HP G	632	0.56		0.04	0.08	0.31		1									
5875	MOD 120S 3" - 18000 GPH @ 20' H	8 HP G	1,231	1.36		0.08	0.15	0.82		2									
MARLOW - WHEEL MOUNTED																			
5885	MOD 4D2 465 GPM @ 20' HEAD	43 HP G	9,773	7.98		0.63	1.17	4.38		14									
5890	MOD 4C7 595 GPM @ 20' HEAD	30 HP D	5,666	3.61		0.37	0.68	1.69		10									
5895	MOD 6E4A 1100 GPM @ 20' HEAD	79 HP G	12,866	13.52		0.83	1.54	8.05		15									
5900	MOD 6E4A 1100 GPM @ 20' HEAD	60 HP D	18,584	8.84		1.20	2.23	3.37		24									
5905	MOD 8FA3 2320 GPM @ 20' HEAD	70 HP D	23,719	10.76		1.52	2.84	3.93		23									
5910	MOD 10FA61 2775 GPM @ 20' HEAD	68 HP D	25,323	10.97		1.62	3.03	3.82		30									
PUMPS, WATER, CENTRIFUGAL, TRASH																			
HOMELITE - SKID MOUNTED																			
5920	MOD 121TP 2" - 11500 GPH @ 20' H	5 HP G	1,049	0.91		0.07	0.13	0.51		1									
5925	MOD 120 3" - 23000 GPH @ 20' H	8 HP G	1,448	1.41		0.10	0.18	0.82		2									
5930	MOD 160TP 4" - 36500 GPH @ 20' H	16 HP G	2,967	2.82		0.20	0.36	1.63		4									

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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.								
					OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
PUMPS, WATER, DIAPHRAGM														
HOMELITE - SKID MOUNTED														
5940	MOD 111DP 2" - 1900 GPH @ 10' HD	3 HP G	1,306	0.71	0.09	0.16	0.31		1					
5945	MOD 111DP 3" - 4800 GPH @ 10' HD	3 HP G	1,479	0.75	0.10	0.18	0.31		2					
PUMPS, WATER, SUBMERSIBLE														
GORMAN-RUPP														
5955	MOD S2A1 2" - 138 GPM @ 20' HD	2 HP E	1,785	0.46	0.11	0.21	0.11		2					
5960	MOD S3A1 3" - 278GPM @ 20' HD	5 HP E	2,553	0.83	0.17	0.31	0.27		3					
5965	MOD S4A1 4" - 860 GPM @ 40' HD	25 HP E	9,097	3.52	0.58	1.08	1.35		12					
5970	MOD S6A1 6" - 1950 GPM @ 40' HD	60 HP E	11,820	6.74	0.16	1.42	3.24		14					
HOMELITE														
5980	MOD SP200 2" - 13000 GPH @ 10' HD	2 HP E	1,433	0.42	0.10	0.18	0.11		1					
5985	MOD SP300 3" - 19000 GPH @ 15' HD	4 HP E	1,767	0.62	0.11	0.21	0.22		1					
RIPPER & HYDRAULIC BANK SLOPER														
(DOES NOT INCLUDE COST OF POINT WEAR)														
ATECO														
5995	LPAF-D8K PARALLEL LIFT		28,661	7.91	10.73	2.0	4.14	0.00	5.14					
6000	D-8K SHANKS EA		2,329	0.63	0.87	0.6	0.33	0.00	0.42					
6005	LPAF-D7G PARALLEL LIFT		20,947	5.78	7.85	1.5	3.02	0.00	3.75					
6010	D-7G SHANKS EA		1,025	0.28	0.39	0.8	0.15	0.00	0.19					
6015	V-LPRF-TD25E PARALLEL LIFT STD SVC		24,886	6.88	9.32	1.13	3.60	0.00	4.45					
6020	TD-25C SHANKS EA		2,227	0.60	0.83	0.16	0.32	0.00	0.40					
6025	V-LPRF-TD20E PARALLEL LIFT STD SVC		17,507	4.85	6.57	1.22	2.53	0.00	3.13					
6030	TD-20E SHANKS EA		1,396	0.38	0.52	0.10	0.20	0.00	0.25					
6035	PS-TD15C RADIAL LIFT		10,041	2.82	3.81	0.50	1.45	0.00	1.80					
6040	TD-15C SHANKS EA		540	0.14	0.19	0.03	0.07	0.00	0.09					
6045	V-LPRF 82-50 PARALLEL LIFT STD SVC		27,686	7.63	10.35	1.3	4.01	0.00	4.96					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	AVERAGE	SEVERE	STAND-BY	OWNER-SHIP	AVERAGE COND.	SEVERE COND.	
	RIPPER & HYDR BANK SLOPER (CONT'D)									

	(DOES NOT INCLUDE COST OF POINT WEAR)									
	ATECO (CONT'D)									
6050	82-50 SHANKS EA	2,227	0.60	0.83	0.16	0.32	0.00	0.40	0.00	8
6055	V-LPRF-82-30B PARALLEL LIFT	24,496	6.75	9.16	1.70	3.54	0.00	4.38	0.00	89
6060	82-30 SHANKS EA	2,942	0.80	1.09	0.20	0.42	0.00	0.53	0.00	8
6065	HBS-HYDR BANK SLOPER 260-475 HP	10,504	2.46	3.12	0.67	1.30	0.00	1.52	0.00	28
	CATERPILLAR									
6075	D-10 MULTI-SHANK BEAM	60,245	16.63	22.56	4.20	8.71	0.00	10.79	0.00	218
6080	D-10 SHANKS EA	4,367	1.19	1.62	0.30	0.63	0.00	0.78	0.00	15
6085	D-10 SINGLE-SHANK BEAM	63,533	17.51	23.76	4.42	9.18	0.00	11.38	0.00	209
6090	D-9L MULTI-SHANK BEAM W/HYD-CONTROL	50,473	13.91	18.88	3.51	7.29	0.00	9.04	0.00	162
6095	D-9L SHANKS EA	3,940	1.07	1.45	0.28	0.57	0.00	0.70	0.00	14
6100	D-9L SINGLE-SHANK BEAM HYD-CNTL&SHANK	47,116	13.00	17.63	3.28	6.81	0.00	8.44	0.00	156
6105	D-8L MULTI-SHANK BEAM HYD-CONTROL	33,754	9.29	12.62	2.35	4.88	0.00	6.05	0.00	98
6110	D-8L SHANKS EA	2,193	0.60	0.81	0.16	0.32	0.00	0.39	0.00	7
6115	D-8L SINGLE-SHANK BEAM HYD-CNTL&SHANK	32,969	9.07	12.32	2.29	4.76	0.00	5.90	0.00	101
6120	D-7G MULTI-SHANK BEAM HYD-CONTROL	18,920	5.23	7.10	1.31	2.73	0.00	3.39	0.00	57
6125	D-7G SHANKS EA	1,118	0.30	0.41	0.08	0.16	0.00	0.20	0.00	3
6130	D-6D MULTI-SHANK BEAM HYD-CONTROL	11,790	3.30	4.46	0.83	1.71	0.00	2.11	0.00	34
6135	D-6D SHANKS EA	555	0.15	0.21	0.04	0.08	0.00	0.10	0.00	1
6140	D-4E MULTI-SHANK BEAM HYD-CONTROL	7,310	2.08	2.80	0.51	1.06	0.00	1.31	0.00	22
6145	D-4E SHANKS EA	312	0.08	0.11	0.02	0.04	0.00	0.05	0.00	1
6150	D-3B FIVE-SHANK BEAM HYD-CONTROL	3,059	0.93	1.23	0.22	0.45	0.00	0.55	0.00	7
6155	D-3B SHANKS EA	177	0.05	0.06	0.02	0.03	0.00	0.03	0.00	1
	FIAT-ALLIS									
6165	FD-50 W/HYD-CNTL AND 1 SHANK	65,310	18.07	24.50	4.54	9.43	0.00	11.70	0.00	280
6170	FD-40 W/HYD-CNTL AND 2 SHANKS	51,499	14.23	19.29	3.59	7.44	0.00	9.22	0.00	200

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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					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP					
RIPPER & HYDR BANK SLOPER (CONT'D) ***** (DOES NOT INCLUDE COST OF POINT WEAR)													
FLAT-ALLIS (CONT'D)													
6175	FD-30 W/HYD-CNTL AND 2 SHANKS	37,793	10.40	14.11	2.64	5.47	0.00	6.77	0.00	108			
6180	RP20B W/HYD-CNTL AND 3 SHANKS	24,054	6.64	9.00	1.67	3.47	0.00	4.30	0.00	88			
ROLLER, RUBBER TIRED, SELF-PROPELLED *****													
FERGUSON													
6190	MOD SP-912	12 TON	85 HP D	44,134	14.53	2.80	5.34	3.42		99			
6195	MOD SP-915	15 TON	85 HP D	49,413	15.76	3.14	5.99	3.42		135			
6200	MOD SP-1118	18 TON	85 HP D	56,514	17.42	3.59	6.84	3.42		124			
6205	MOD SP-1130	30 TON	125 HP D	91,013	27.56	5.74	10.88	5.03		242			
INGRAM													
6215	9-2800-P	12 TON	76 HP D	38,245	12.71	2.42	4.61	3.06		73			
6220	9-2800-PA	12 TON	76 HP D	41,324	13.43	2.62	4.99	3.06		86			
6225	9-3400-P	15 TON	78 HP D	42,520	13.81	2.70	5.14	3.14		97			
6230	11-2700	15 TON	107 HP G	40,866	19.37	2.59	4.92	7.91		89			
6235	11-2700	15 TON	76 HP D	45,296	14.37	2.87	5.46	3.06		91			
6240	13-2300	15 TON	107 HP G	42,540	19.75	2.69	5.10	7.91		86			
6245	13-2300	15 TON	76 HP D	47,038	14.78	2.98	5.66	3.06		90			
6250	9-6000	27 TON	117 HP D	103,135	30.04	6.49	12.26	4.71		205			
TAMPO													
6260	SP-312	12 TON	68 HP D	41,359	13.05	2.62	5.00	2.74		66			
6265	SP-518	15 TON	68 HP D	51,606	15.44	3.27	6.24	2.74		95			
6270	SP-950	27 TON	130 HP D	106,504	31.45	6.71	12.70	5.24		198			
6275	SP-1070 M	35 TON	130 HP D	128,024	36.90	7.96	14.81	5.24		258			

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					
ROLLER, RUBBER TIRED, TOWED													

FERGUSON													
6285	RT-100S	50 TON	72,431	16.31		4.26	7.40	0.00	200				
6290	RT-120S	60 TON	84,954	20.08		5.22	9.60	0.00	218				
SOUTHWEST													
6300	C 50	50 TON	87,016	19.91		5.20	9.26	0.00	344				
6305	C 75	75 TON	97,993	22.26		5.78	10.09	0.00	408				
6310	C 100XL	100 TON	131,132	30.16		7.89	14.15	0.00	601				
TAMPO													
6320	R-13	14 TON	10,975	2.62		0.68	1.24	0.00	35				
ROLLER, SHEEPSFOOT, DOUBLE DRUM, TOWED													

FERGUSON													
6330	MOD 112	40"X48" 3-7 TON	15,916	3.83		1.01	1.95	0.00	65				
6335	MOD 112W	40"X48" 4.5-8 TON	20,453	4.90		1.31	2.52	0.00	91				
6340	MOD 112W-48	48"X48" 5-10 TON	21,367	5.11		1.37	2.63	0.00	105				
6345	MOD 120	60"X60" 8-18 TON	31,989	7.57		2.05	3.93	0.00	157				
6350	MOD 120 MOD	60"X60" 8-18 TON	48,674	11.43		3.11	5.97	0.00	230				
6355	MOD 120-RE	60"X60" 16-20 TON	69,986	16.38		4.48	8.60	0.00	327				
6360	MOD 22	60"X72" 16-20 TON	47,789	11.23		3.05	5.86	0.00	215				
6365	MOD 22 MOD	60"X72" 16-20 TON	55,378	12.99		3.54	6.80	0.00	269				
6370	MOD 144-RE	60"X72" 19-24 TON	82,380	19.25		5.27	10.12	0.00	385				
TAMPO													
6380	H-1 TF	40"X48" 2.6TON	7,122	1.82		0.46	0.88	0.00	32				
6385	H-2 TF	40"X48" 5 TON	14,358	3.50		0.92	1.77	0.00	63				

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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. OWNER-SHIP	SEVERE COND. OWNER-SHIP	FUEL FUEL	
	ROLLER, SHEEPSFOOT, DD, SELF-PROPELLED							
	CATERPILLAR							
6395	815 B 40.5"X38"	210 HP D	174,580	50.96	11.16	21.44	8.46	420
6400	825C 51"X44"	310 HP D	258,965	75.52	16.55	31.80	12.49	633
6405	825C W/S BLADE	310 HP D	273,633	78.92	17.48	33.60	12.49	684
	HYSSTER							
6415	C455-B TANDEM 80"X80" ARTIC	330 HP D	275,147	80.26	17.58	33.79	13.29	573
	ROLLER, SMOOTH WHEEL, SELF-PROPELLED							
	FERGUSON							
6425	3-5 TON TANDEM	52 HP D	29,951	9.53	1.92	3.68	2.09	77
6430	4-6 TON TANDEM	52 HP D	35,843	10.91	2.30	4.41	2.09	96
6435	5-8 TON TANDEM	85 HP D	54,479	16.87	3.48	6.69	3.42	136
6440	8-10 TON TANDEM	85 HP D	57,767	17.64	3.70	7.10	3.42	174
6445	8-12 TON TANDEM	85 HP D	60,197	18.19	3.84	7.39	3.42	176
6450	10-14 TON TANDEM	85 HP D	63,655	19.00	4.07	7.82	3.42	219
	INGRAM							
6460	12 TON EB 3 WHEEL 3" OVERLAP	107 HP G	60,741	23.89	3.88	7.46	7.91	194
6465	12 TON EB 3 WHEEL 3" OVERLAP	85 HP D	64,863	19.27	4.14	7.96	3.42	196
6470	14 TON EB 3 WHEEL 3" OVERLAP	107 HP G	64,822	24.84	4.14	7.96	7.91	221
6475	14 TON EB 3 WHEEL 3" OVERLAP	85 HP D	68,945	20.23	4.41	8.47	3.42	223
6480	4-6 TON FB 2 WHEEL TANDEM	54 HP G	29,482	11.78	1.88	3.62	3.99	82
6485	6-9 TON GB 2 WHEEL TANDEM	107 HP G	40,562	19.21	2.59	4.98	7.91	133
6490	6-9 TON GB 2 WHEEL TANDEM	85 HP D	44,685	14.60	2.86	5.49	3.42	135
6495	8-12 TON HB 2 WHEEL TANDEM	107 HP G	49,451	21.27	3.16	6.07	7.91	171
6500	8-12 TON HB 2 WHEEL TANDEM	85 HP D	53,573	16.66	3.42	6.58	3.42	173
6505	10-14 TON HB 2 WHEEL TANDEM	107 HP G	53,825	22.29	3.44	6.61	7.91	203
6510	10-14 TON HB 2 WHEEL TANDEM	85 HP D	57,947	17.67	3.70	7.11	3.42	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.								
					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														
6520	CK-11	40HZ 30"X55"	5 TON	18 HP G	14,540	6.98	1.01	2.08	1.83	31				
6525	CF-11	40HZ TF 30"X55"	5 TON	18 HP G	17,546	7.95	1.22	2.52	1.83	32				
6530	CH-47	27HZ 47"X74"	13 TON	43 HP D	38,926	15.39	2.71	5.57	2.42	130				
6535	CF-47	27HZ TF 47"X74"	13 TON	43 HP D	42,468	16.50	2.95	6.08	2.42	135				
6540	CK-51	25HZ 59"X83"	24 TON	95 HP D	60,169	25.92	4.19	8.62	5.34	221				
6545	CF-51	25HZ TF 59"X83"	24 TON	95 HP D	63,273	26.89	4.40	9.06	5.34	226				
FERGUSON														
6555	65	25HZ TF 60"X72"	11 TON	49 HP D	41,142	16.53	2.86	5.89	2.75	110				
6560	65T	30HZ TF 44"X72"	11 TON	49 HP D	44,924	17.71	3.12	6.43	2.75	127				
6565	230	25HZ 66"X78"	20 TON	77 HP D	73,132	28.64	5.09	10.47	4.33	237				
6570	230T	25HZ TF 66"X78"	21 TON	77 HP D	79,195	30.55	5.52	11.35	4.33	268				
HYS TER														
6580	C200B	30HZ 48"X60"	9 TON	39 HP D	28,108	11.71	1.96	4.03	2.19	80				
6585	C210A	30HZ TF 58"X60"	9 TON	39 HP D	34,485	13.70	2.40	4.94	2.19	100				
RAYGO														
6595	SF-54A	TF 38HZ 30"X54"	7.5TON	30 HP D	21,061	8.84	1.47	3.02	1.69	48				
6600	SM-54A	38HZ 30"X54"	7.5TON	30 HP D	19,221	8.26	1.34	2.76	1.69	48				
SOUTHWEST														
6610	756	25HZ TF 66"X78"	23.5TON	75 HP D	88,761	33.39	6.18	12.71	4.21	240				
6615	56 6	33HZ TF 56 "X72"	25.5TON	50 HP D	67,782	24.95	4.71	9.70	2.81	165				

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. OWNER-SHIP	SEVERE COND. OWNER-SHIP	FUEL									
			AVERAGE	SEVERE													
ROLLER, VIB, SINGLE DRUM, SELF-PROPELLED ***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS																	
DYNAPAC																	
6630	CA-15	29HZ	48"X66"	11 TON	73 HP	D	65,957	26.10	13.2								
6635	CA-15A	42HZ	48"X66"	12 TON	85 HP	D	75,921	30.18	144								
6640	CA-15PD	29HZ	TF 53"X66"	13 TON	85 HP	D	86,633	33.48	157								
6645	CA-25A	40HZ	60"X84"	18 TON	125 HP	D	97,694	39.95	200								
6650	CA-25	28HZ	60"X84"	18 TON	125 HP	D	91,433	37.99	200								
6655	CA-25S	28HZ	61"X84"	22 TON	125 HP	D	98,625	40.23	225								
6660	CA-25PD	28HZ	68"X84"	22 TON	125 HP	D	112,851	44.69	248								
6665	CA-30	28HZ	61"X84"	22 TON	125 HP	D	101,261	41.06	242								
6670	CA-30D	28HZ	61"X84"	22 TON	125 HP	D	109,416	43.62	252								
FERGUSON																	
6680	SP 266A	42HZ	48"X66"	15 TON	125 HP	D	95,782	39.29	225								
6685	SP 75	30HZ	60"X84"	22.5 TON	85 HP	D	79,140	31.16	191								
6690	SP 75D	30HZ	60"X84"	22.5 TON	120 HP	D	83,749	35.20	193								
6695	SP 75DT	30HZ	TF 60"X84"	22.5 TON	120 HP	D	95,616	38.92	236								
INGERSOLL RAND																	
6705	SPI-56	30HZ	TF 56"X84"	21 TON	115 HP	D	101,120	40.28	222								
6710	SP-60DD	25HZ	60"X100"	30 TON	203 HP	D	147,621	61.42	377								
RAYGO																	
6720	RASCAL 220A	30HZ	TF38"X48"	6 TON	70 HP	D	60,571	24.20	97								
6725	RASCAL 303A	38HZ	48"X66"	8 TON	70 HP	D	61,486	24.49	137								
6730	RASCAL 320A	25HZ	TF48"X60"	8 TON	80 HP	D	81,156	31.38	151								
6735	RASCAL 320S	25HZ	48"X60"	8 TON	80 HP	D	70,536	28.07	144								
6740	RUSTLER 304A	28HZ	48"X66"	8 TON	70 HP	D	68,835	26.83	130								
6745	RUSTLER 404B	28HZ	59"X84"	13.5TON	88 HP	D	91,958	35.38	175								

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,SD,S/P (CONT'D)												
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS												
RAYGO (CONT'D)												
6750	RASCAL 420C 25HZ TF	60"X84" 16 TON 119 HP D	106,940	42.38		7.38	15.09	6.69	225			
6755	RASCAL 4000 25HZ	60"X84" 20 TON 125 HP D	86,673	36.48		5.97	12.17	7.02	224			
6760	RASCAL 510A 25HZ	60"X80" 22.5TON 119 HP D	124,953	48.06		8.63	17.62	6.69	358			
6765	RASCAL 600A 25HZ	60"X100" 22.5TON 119 HP D	108,733	42.97		7.50	15.30	6.69	316			
6770	RASCAL 450A 28HZ	59"X84" 28.5TON 125 HP D	94,635	39.00		6.49	13.19	7.02	263			
TAMPO												
6780	RS-16A 26HZ	48"X24" 7.5TON 68 HP D	70,531	27.22		4.83	9.78	3.82	124			
6785	RS-16 26HZ	48"X24" 8 TON 68 HP D	62,364	24.61		4.32	8.84	3.82	115			
6790	RS-16D 26HZ	48"X24" 8 TON 80 HP D	72,792	28.77		5.05	10.34	4.49	123			
6795	RH-16A 26HZ	48"X24" 9 TON 75 HP D	80,369	30.81		5.51	11.18	4.21	153			
6800	RP-16D 26HZ TF	48"X24" 9 TON 80 HP D	79,263	30.80		5.49	11.26	4.49	127			
6805	RP-28D 25HZ TF	63"X84" 15 TON 110 HP D	105,363	41.23		7.27	14.84	6.18	212			
6810	RS-28C 25HZ	60"X84" 15 TON 107 HP D	88,262	35.65		6.08	12.40	6.01	202			
6815	RS-28D 25HZ	60"X84" 15 TON 107 HP D	95,159	37.80		6.56	13.38	6.01	208			
6820	RH-28D 28HZ	60"X84" 22.5TON 110 HP D	120,423	45.95		8.32	17.00	6.18	259			
ROLLER,VIB,DOUBLE DRUM,SELF-PROPELLED												
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS												
DYNAPAC												
6830	LR-50 60HZ	TANDEM 2 TON 16 HP D	12,423	5.09		0.87	1.78	0.90	25			
6835	CC-10 50HZ	TANDEM 2 TON 34 HP D	32,419	12.68		2.26	4.64	1.91	50			
6840	CC-21 50HZ	TANDEM 4 TON 71 HP D	76,949	29.39		5.35	11.01	3.99	137			
6845	CC-42II 42HZ	TANDEM 12 TON 125 HP D	103,747	41.80		7.22	14.86	7.02	200			
6850	CC-50A 40HZ	TANDEM 18 TON 155 HP D	124,377	50.49		8.65	17.81	8.71	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 OWNER-SHIP	COND. FUEL OWNER-SHIP	SEVERE COND. 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)														
6855	CC-50S	28HZ	TANDEM	22 TON	181 HP D	149,740	60.36	10.42	21.44	10.17	342			
6860	CC-50PD	28HZ	TF TANDEM	22 TON	181 HP D	174,039	67.99	12.11	24.93	10.17	419			
RAYGO														
6870	REBEL 1-36	40HZ TANDEM	2 TON	16 HP	D	11,879	4.91	0.82	1.70	0.90	23			
6875	ROMPER 2-36	40HZ TANDEM	4 TON	35 HP	D	26,974	11.05	1.87	3.86	1.97	40			
6880	RUSTLER 5604A	50HZ TANDEM	5.5TON	70 HP	D	70,843	27.41	4.93	10.15	3.93	132			
6885	RUSTLER 7204A	38HZ TANDEM	8 TON	115 HP	D	95,674	38.52	6.66	13.70	6.46	250			
6890	RANGER 2-66	38HZ TANDEM	8 TON	119 HP	D	125,357	48.13	8.72	17.95	6.69	215			
TAMPO														
6900	RS-03	60HZ	36"X24"	2 TON	14 HP G	12,220	5.72	0.85	1.75	1.43	23			
6905	RS-144A	50HZ	42"X48"	8 TON	52 HP D	62,773	23.53	4.37	8.99	2.92	100			
6910	RS-166A	36HZ	48"X66"	16 TON	80 HP D	94,839	35.66	6.60	13.58	4.49	200			
6915	RS-188A	36HZ	60"X84"	30 TON	156 HP D	119,055	48.89	8.28	17.05	8.76	320			
6920	RH-199	25HZ	60"X96"	45 TON	262 HP D	207,502	84.48	14.43	29.71	14.72	491			
SCRAPERS, SELF-PROPELLED														
***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)														
CATERPILLAR														
6930	613-B	13 T	11 CY P.S.	150 HP	D	137,353	41.18	53.08	8.57	16.11	6.20	18.73	8.11	307
6935	615	19 T	14-16 CY P.S.	250 HP	D	225,987	65.98	85.79	13.95	26.98	10.33	31.51	13.51	525
6940	621-B	24 T	14-20 CY P.S.	330 HP	D	285,755	80.08	104.00	17.69	34.31	12.24	40.09	16.09	662
6945	623-B	25 T	22 CY P.S.	330 HP	D	317,431	90.94	117.85	19.66	38.14	13.64	44.56	17.84	720
6950	627-B	24 T	14-20 CY P.S.	225/225 HP	D/D	327,246	99.52	130.21	20.34	39.58	17.65	46.26	22.90	733
6955	627-B PP	24 T	14-20 CY P.S.	225/225 HP	D/D	347,424	103.82	135.55	21.61	42.13	17.65	49.26	22.90	776

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				
			AVERAGE	SEVERE								
SCRAPERS, SELF-PROPELLED (CONT'D)												
(CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)												
CATERPILLAR (CONT'D)												
6960	631-D	37.5T 21-31 CY P.S.	450 HP D	436,262	119.43	154.95	27.03	52.46	16.69	61.30	21.94	934
6965	633-D	37.5T 34 CY P.S.	450 HP D	496,814	137.58	177.52	30.89	60.15	18.60	70.30	24.33	1042
6970	637-D	37.5T 21-31 CY P.S.	450/250 HP D/D	534,826	159.79	208.38	33.30	64.96	27.45	75.96	35.62	1053
6975	637-D PP	37.5T 21-31 CY P.S.	450/250 HP D/D	557,769	164.69	214.46	34.76	67.88	27.45	79.38	35.62	1077
6980	639-D	37.5T 24-34 CY P.S.	450/250 HP D/D	614,666	179.49	234.78	38.21	74.40	27.45	86.97	35.62	1223
6985	651-E	52 T 32-44 CY P.S.	550 HP D	571,685	154.91	201.14	35.39	68.62	20.40	80.16	26.82	1308
6990	657-E	52 T 32-44 CY P.S.	550/400 HP D/D	696,729	210.65	275.08	43.34	84.48	37.26	98.76	48.34	1516
FIAT-ALLIS												
7005	161	18.7 T 15 CY P.S.	229 HP D	194,141	56.97	73.74	12.04	23.38	9.47	27.31	12.38	466
7010	260B	25.0 T 15-21 CY P.S.	325 HP D	256,417	73.43	95.47	15.86	30.73	12.06	35.89	15.85	585
7015	261B	26.5 T 23 CY P.S.	325 HP D	287,773	83.24	107.49	17.89	34.82	13.44	40.70	17.57	635
7020	262B	25.0 T 15-21 CY P.S.	325/171 HP D/D	309,363	96.99	126.51	19.25	37.55	19.45	43.92	25.24	679
7025	263-B	26.5 T 23 CY P.S.	325/171 HP D/D	368,510	110.11	143.16	22.99	44.93	19.45	52.55	25.24	742
INTERNATIONAL												
7035	412B	13 T 11 CY P.S.	125 HP D	141,963	40.51	51.98	8.89	16.78	5.17	19.52	6.76	335
7040	431B	24 T 14-21 CY P.S.	326 HP D	273,868	77.43	100.70	16.94	32.81	12.09	38.32	15.90	609
7045	433B	24 T 14-21 CY P.S.	326/185 HP D/D	321,128	101.24	132.50	19.95	38.81	20.04	45.35	26.00	700
7050	442B	25 T 22 CY P.S.	326 HP D	306,116	87.83	113.63	18.99	36.90	13.48	43.12	17.62	680
JOHN DEERE												
7060	JD762A	13.7 T 11 CY P.S.	175 HP D	145,536	44.20	56.75	9.12	17.23	7.23	20.04	9.46	355
7065	JD862	20.0 T 16 CY P.S.	250 HP D	195,451	58.38	75.58	12.12	23.54	10.33	27.51	13.51	492

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)									
	TEREX (GM)									
7075	S-23 E 26.5T 23 CY P.S. 310 HP D	280,726	81.55	105.76	17.38	33.68	12.82	39.34	16.76	660
7080	S-24 B 40.8T 24-34 CY P.S. 475 HP D	444,636	123.51	160.84	27.46	53.09	17.62	62.00	23.16	955
7085	TS-14 B 23.5T 14-20 CY P.S. 144/144 HP D/D	286,109	81.78	107.03	17.78	34.61	11.30	40.45	14.65	544
7090	TS-24 40 T 24-32 CY P.S. 394/225 HP D/D	483,203	144.46	188.88	30.04	58.50	24.28	68.38	31.49	960
7095	TS-24 B 40.8T 24-34 CY P.S. 475/242 HP D/D	568,331	169.47	221.65	35.32	68.78	28.12	80.39	36.48	1084
	SCRAPER, TRACTOR DRAWN *****									
	ROME									
7110	R67 H 18T 12-17CY HYDR/CONTROL	84,924	16.82	20.18	4.96	8.72	0.00	9.76	0.00	235
7115	R89 H 27T 18-26CY HYDR/CONTROL	110,563	22.22	26.75	6.38	11.05	0.00	12.35	0.00	365
	SOUTHWEST-HUME									
7125	SOUTHWEST DS18 DRAG SCRAPER 8.8 CY	43,792	8.74	10.51	2.54	4.42	0.00	4.95	0.00	137
	SOIL STABILIZER *****									
	BOMAG									
7135	MOD MPH-50 12"DEEP BY 82"WIDE 152 HP D	106,060	32.30	41.96	6.73	12.87	6.28	15.00	8.22	208
7140	MOD MPH-100 14.5"DEEP X 79"WIDE 304 HP D	168,355	55.17	72.04	10.63	20.26	12.57	23.60	16.43	300
	BROS									
7150	MOD LSPRM-8A MASTER MIXER 19" DP 335 HP D	153,410	52.20	67.44	9.76	18.75	13.85	21.87	18.11	300

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				
TRACTOR, CRAWLER (DOZER)													

CATERPILLAR													
7160	D-3B P.S.	65 HP D	43,435	15.15	19.44	2.78	5.22	2.82	6.07	3.72	136		
7165	3P POWER ANGLE & POWER TILT		10,120	2.37	3.00	0.64	1.25	0.00	1.46	0.00	26		
7170	D-4E P.S.	80 HP D	63,419	21.26	27.22	4.07	7.63	3.48	8.86	4.58	202		
7175	4A ANGLE BLADE HYDRAULIC		11,973	2.79	3.54	0.76	1.48	0.00	1.73	0.00	28		
7180	4S STRAIGHT BLADE HYDRAULIC		9,483	2.24	2.82	0.61	1.18	0.00	1.37	0.00	25		
7185	D-5B P.S.	105 HP D	96,083	31.24	39.98	6.16	11.56	4.56	13.43	6.01	247		
7190	5A ANGLE BLADE HYDRAULIC		16,025	3.71	4.71	1.02	1.98	0.00	2.32	0.00	43		
7195	5S STRAIGHT BLADE HYDRAULIC		12,814	2.98	3.78	0.82	1.58	0.00	1.85	0.00	38		
7200	WINCH (W/O CABLE)		17,071	3.94	5.01	1.09	2.11	0.00	2.47	0.00	22		
7205	D-6D P.S.	140 HP D	133,334	43.02	55.02	8.55	16.04	6.08	18.62	8.01	299		
7210	6S STRAIGHT BLADE HYDRAULIC		16,892	3.90	4.95	1.08	2.09	0.00	2.44	0.00	49		
7215	6A ANGLE BLADE HYDRAULIC		18,876	4.36	5.53	1.21	2.34	0.00	2.73	0.00	53		
7220	WINCH (W/O CABLE)		18,607	4.30	5.45	1.19	2.31	0.00	2.69	0.00	25		
7225	D-7G P.S.	200 HP D	183,676	59.68	76.37	11.77	22.09	8.69	25.66	11.45	378		
7230	7S STRAIGHT BLADE HYDRAULIC		25,152	5.77	7.33	1.60	3.11	0.00	3.63	0.00	77		
7235	7U HYD. UNIVERSAL BLADE		27,533	6.31	8.02	1.76	3.41	0.00	3.98	0.00	84		
7240	7A ANGLE BLADE HYDRAULIC		21,907	5.04	6.40	1.40	2.71	0.00	3.17	0.00	68		
7245	WINCH (W/O CABLE)		21,635	5.00	6.34	1.38	2.68	0.00	3.13	0.00	30		
7250	D-8L P.S.	335 HP D	280,791	85.62	109.89	17.92	34.75	14.56	40.58	19.18	735		
7255	8S STRAIGHT BLADE HYDRAULIC		37,085	8.50	10.80	2.37	4.59	0.00	5.35	0.00	120		
7260	8U HYD. UNIVERSAL BLADE		40,864	9.37	11.90	2.61	5.06	0.00	5.90	0.00	133		
7265	8A ANGLE BLADE HYDRAULIC		37,109	8.53	10.83	2.37	4.60	0.00	5.37	0.00	133		
7270	PUSH PLATE USE W/8S		1,133	0.31	0.37	0.07	0.14	0.00	0.16	0.00	6		
7275	WINCH (W/O CABLE)		28,187	6.53	8.28	1.80	3.49	0.00	4.08	0.00	47		
7280	D-9L P.S.	460 HP D	374,300	102.72	128.03	22.26	42.13	19.99	47.64	26.33	1004		
7285	9S STRAIGHT BLADE HYDRAULIC		51,160	11.75	14.93	3.26	6.33	0.00	7.39	0.00	184		
7290	9U HYD. UNIVERSAL BLADE		54,075	12.42	15.78	3.45	6.69	0.00	7.81	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															
TRACTOR, CRAWLER (DOZER) (CONT'D)																			
CATERPILLAR (CONT'D)																			
7295	9C CUSHION BLADE	45,017	10.34	13.15	2.87	5.57	0.00	6.51	0.00	160									
7300	REAR CUSHION PUSH BLOCK	13,151	3.10	3.92	0.84	1.63	0.00	1.90	0.00	41									
7305	FRONT PUSH PLATE	1,546	0.44	0.53	0.10	0.19	0.00	0.22	0.00	9									
7310	WINCH (W/O CABLE)	30,549	7.12	9.01	1.95	3.78	0.00	4.41	0.00	51									
7315	D-10 P.S. 700 HP D	627,549	168.39	209.60	37.33	70.64	30.42	79.87	40.07	1539									
7320	10S STRAIGHT BLADE HYDRAULIC	76,974	17.68	22.47	4.91	9.52	0.00	11.12	0.00	280									
7325	10U HYD. UNIVERSAL BLADE	84,099	19.31	24.54	5.37	10.41	0.00	12.15	0.00	286									
7330	FRONT PUSH PLATE	1,721	0.49	0.59	0.12	0.22	0.00	0.25	0.00	8									
7335	10C CUSHION BLADE	57,342	13.16	16.74	3.66	7.09	0.00	8.29	0.00	198									
FIAT-ALLIS																			
7345	FD5 P.S. W/HYD. ANGLE TILT BLADE 63 HP D	52,902	17.51	22.42	3.39	6.36	2.74	7.39	3.61	140									
7350	FD7 P.S. W/POW. ANGLE TILT BLADE 78 HP D	62,480	20.89	26.75	4.00	7.51	3.39	8.73	4.46	175									
7355	8-B P.S. 88 HP D	67,238	22.72	29.10	4.31	8.09	3.82	9.39	5.04	215									
7360	8-HA ANGLE BLADE HYDRAULIC	10,352	2.43	3.07	0.66	1.28	0.00	1.49	0.00	30									
7365	8-HSU SEMI-U BLADE HYDRAULIC	10,339	2.38	3.02	0.66	1.28	0.00	1.49	0.00	30									
7370	10-C P.S. 122 HP D	92,067	31.21	39.96	5.91	11.08	5.30	12.86	6.98	280									
7375	10-HA ANGLE BLADE HYDRAULIC	11,594	2.71	3.43	0.74	1.44	0.00	1.68	0.00	36									
7380	10-HSU SEMI-U BLADE HYDRAULIC	14,025	3.21	4.09	0.89	1.73	0.00	2.03	0.00	38									
7385	14-C P.S. 150 HP D	117,089	39.38	50.44	7.50	14.08	6.52	16.36	8.59	335									
7390	14-HA ANGLE BLADE HYDRAULIC	17,641	4.07	5.17	1.12	2.18	0.00	2.55	0.00	51									
7395	14-HSU SEMI-U BLADE HYDRAULIC	17,616	4.03	5.13	1.12	2.18	0.00	2.55	0.00	51									
7400	FD 20 P.S. 223 HP D	175,008	58.78	75.28	11.22	21.05	9.69	24.44	12.76	535									
7405	20-HA ANGLE BLADE HYDRAULIC	19,095	4.41	5.59	1.22	2.37	0.00	2.76	0.00	66									
7410	20-HS STRAIGHT BLADE HYDRAULIC	19,963	4.61	5.83	1.28	2.48	0.00	2.88	0.00	66									
7415	20-HSU SEMI-U BLADE HYDRAULIC	26,815	6.11	7.78	1.72	3.32	0.00	3.88	0.00	79									
7420	FD 30 P.S. 300 HP D	267,967	80.61	103.43	17.10	33.16	13.04	38.73	17.17	775									

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)														
FIAT-ALLIS (CONT'D)														
7425	30HSU	HYD. SEMI-UNIVERSAL BLADE	37,800	8.67	11.02	2.42	4.68	0.00	5.47	0.00				
7430	30-HU	FULL-U BLADE HYDRAULIC	37,964	8.67	11.04	2.42	4.69	0.00	5.48	0.00				
7435	FD40	P.S. 455 HP D	385,804	104.85	130.59	22.95	43.43	19.77	49.10	26.04				
7440	40-HSU	SEMI-U BLADE HYDRAULIC	57,962	13.32	16.94	3.70	7.17	0.00	8.38	0.00				
7445	40-HU	FULL-U BLADE HYDRAULIC	59,381	13.68	17.37	3.79	7.35	0.00	8.58	0.00				
7450	40-HC	CUSHION BLADE	36,474	8.36	10.63	2.33	4.51	0.00	5.27	0.00				
7455	FD 50	P.S. 525 HP D	516,236	135.79	168.80	30.71	58.11	22.82	65.70	30.05				
7460	50-HSU	SEMI-U BLADE HYDRAULIC	65,963	15.18	19.28	4.21	8.16	0.00	9.53	0.00				
7465	50-HU	FULL-U BLADE HYDRAULIC	75,355	17.28	21.97	4.81	9.32	0.00	10.89	0.00				
7470	50-HC	CUSHION BLADE	42,034	9.62	12.24	2.68	5.20	0.00	6.08	0.00				
INTERNATIONAL														
7480	TD-7-E	P.S. W/HYD BLADE	65 HP D	55,489	18.30	23.43	3.56	6.68	2.82	7.75				
7485	TD-8-E	P.S. W/HYD BLADE	78 HP D	70,731	23.04	29.48	4.54	8.51	3.39	9.88				
7490	TD-12	P.S. W/HYD BLADE	110 HP D	102,509	33.21	42.50	6.57	12.33	4.78	14.32				
7495	TD-15-C	P.S. 140 HP D	129,340	41.98	53.70	8.29	15.56	6.08	18.07	8.01				
7500	15D-2	HYD. SEMI-UNIVERSAL BLADE		14,506	3.33	4.23	0.93	1.80	0.00	2.10				
7505	15G-2	ANGLE BLADE HYDRAULIC		16,308	3.72	4.75	1.04	2.01	0.00	2.36				
7510	TD-20-E	P.S. 210 HP D	195,952	63.48	81.21	12.56	23.57	9.13	27.37	12.02				
7515	20D-2	HYD. SEMI-UNIVERSAL BLADE		25,135	5.72	7.29	1.60	3.11	0.00	3.63				
7520	20G-2	ANGLE BLADE HYDRAULIC		17,754	4.06	5.16	1.14	2.20	0.00	2.56				
7525	TD-25-E	P.S. 310 HP D	252,499	77.47	99.45	16.12	31.25	13.47	36.49	17.74				
7530	25D-2	HYD. SEMI-UNIVERSAL BLADE		31,938	7.32	9.31	2.04	3.95	0.00	4.62				
7535	25G-2	ANGLE BLADE HYDRAULIC		26,937	6.21	7.88	1.72	3.33	0.00	3.89				
7540	FRONT PUSHER CUSHION			10,817	2.52	3.20	0.69	1.33	0.00	1.56				
7545	REAR PUSHER CUSHION			6,444	1.59	1.99	0.41	0.79	0.00	0.93				
7550	FRONT PUSH BLK FOR S/BLD			1,225	0.36	0.44	0.08	0.15	0.00	0.17				

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															
TRACTOR, CRAWLER (DOZER) (CONT'D)																			
JOHN DEERE																			
7560	JD350C/6305	D.D. W/HYD BLADE	42 HP D	39,421	12.76	16.32	2.53	4.74	1.83	5.51	2.40	107							
7565	JD450C/6405	D.D. W/HYD BLADE	65 HP D	54,239	17.97	23.02	3.48	6.52	2.82	7.58	3.72	143							
7570	JD550A/6405	P.S. W/HYD BLADE	72 HP D	64,597	21.09	26.99	4.14	7.77	3.13	9.03	4.12	156							
7575	JD750 LPG	H.S. W/STR BLADE	110 HP D	121,530	38.16	48.80	7.79	14.61	4.78	16.98	6.30	336							
7580	JD850 LPG	H.S. W/STR BLADE	145 HP D	158,673	49.91	63.80	10.17	19.08	6.30	22.16	8.30	449							
KOMATSU																			
7590	D31A-17	H.S.	66 HP D	45,727	15.81	20.28	2.93	5.49	2.87	6.39	3.78	132							
7595	ANGLE TILTDOZER BLADE			7,372	1.71	2.18	0.47	0.91	0.00	1.07	0.00	20							
7600	D45A-1	H.S.	90 HP D	68,665	23.20	29.73	4.40	8.25	3.91	9.59	5.15	200							
7605	ANGLE TILTDOZER BLADE			8,062	1.86	2.38	0.51	0.99	0.00	1.17	0.00	24							
7610	D53A-16A	H.S.	118 HP D	98,600	32.66	41.81	6.32	11.85	5.13	13.77	6.75	246							
7615	ANGLE TILTDOZER BLADE			9,254	2.14	2.71	0.60	1.15	0.00	1.33	0.00	42							
7620	D65E-7	H.S.	165 HP D	137,689	45.62	58.41	8.82	16.55	7.17	19.23	9.44	377							
7625	ANGLE TILTDOZER BLADE			12,243	2.82	3.58	0.79	1.52	0.00	1.77	0.00	61							
7630	D85E-18	H.S.	220 HP D	181,336	60.24	77.15	11.62	21.80	9.56	25.34	12.59	437							
7635	ANGLE TILTDOZER BLADE			19,253	4.43	5.63	1.23	2.38	0.00	2.78	0.00	99							
7640	U-DOZER BLADE			20,501	4.74	6.01	1.31	2.54	0.00	2.96	0.00	104							
7645	D155A-1	H.S.	320 HP D	246,602	76.63	98.39	15.74	30.52	13.91	35.63	18.32	690							
7650	ANGLE TILTDOZER BLADE			26,533	6.14	7.79	1.69	3.28	0.00	3.83	0.00	140							
7655	U-DOZER BLADE			27,869	6.44	8.17	1.78	3.45	0.00	4.02	0.00	142							
7660	D355A-3	H.S.	410 HP D	328,475	101.16	129.88	20.96	40.65	17.82	47.47	23.47	945							
7665	U-DOZER BLADE			36,215	8.39	10.66	2.31	4.48	0.00	5.24	0.00	196							
7670	STRAIGHT DOZER BLADE			33,119	7.68	9.74	2.11	4.10	0.00	4.79	0.00	184							
7675	D455A-1	H.S.	620 HP D	579,336	154.05	191.64	34.46	65.22	26.95	73.74	35.49	1445							
7680	FULL U-DOZER BLADE			80,793	18.50	23.52	5.16	10.00	0.00	11.67	0.00	229							
7685	U-DOZER BLADE			75,823	17.35	22.06	4.84	9.38	0.00	10.95	0.00	211							

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						
TRACTOR, CRAWLER (DOZER) (CONT'D)														
KOMATSU (CONT'D)														
7690	STRAIGHT DOZER BLADE	70,850	16.21	20.62	4.53	8.77	0.00	10.24	0.00					
TEREX (GM)														
7700	D700A P.S. (W/O BLADE) 205 HP D	175,822	57.93	74.15	11.26	21.14	8.91	24.56	11.73					
7705	SEMI-U BLADE HYDRAULIC	18,024	4.12	5.24	1.15	2.23	0.00	2.60	0.00					
7710	ANGLE BLADE HYDRAULIC	20,289	4.63	5.90	1.30	2.51	0.00	2.94	0.00					
7715	FULL-U BLADE HYDRAULIC	20,703	4.72	6.01	1.32	2.56	0.00	2.99	0.00					
7720	D750 P.S. (W/O BLADE) 260 HP D	203,517	63.00	80.90	12.99	25.18	11.30	29.41	14.88					
7725	SEMI-U BLADE HYDRAULIC	25,717	5.86	7.46	1.65	3.19	0.00	3.72	0.00					
7730	ANGLE BLADE HYD. W/DUAL TILT	33,700	7.66	9.76	2.15	4.17	0.00	4.87	0.00					
7735	FULL-U BLADE HYDRAULIC	28,271	6.43	8.19	1.81	3.50	0.00	4.08	0.00					
7740	D800 P.S. (W/O BLADE) 350 HP D	271,996	84.35	108.31	17.36	33.66	15.21	39.31	20.03					
7745	SEMI-U BLADE HYDRAULIC	33,578	7.71	9.80	2.14	4.15	0.00	4.85	0.00					
7750	FULL-U BLADE HYDRAULIC	36,801	8.44	10.74	2.35	4.55	0.00	5.32	0.00					
7755	CUSHIONED PUSH BLADE	32,167	7.38	9.39	2.05	3.98	0.00	4.65	0.00					
7760	PUSH PLATE (WELD ON)	1,389	0.36	0.45	0.09	0.17	0.00	0.20	0.00					
7765	PUSH BLOCK (CUSHION REAR)	8,374	2.01	2.53	0.54	1.04	0.00	1.21	0.00					
TRACTOR, WHEEL TYPE (DOZER)														
CATERPILLAR														
7775	814-B ARTICULATED ST BLADE P.S. 210 HP D	173,452	48.04	63.00	10.90	20.60	8.46	23.96	11.13					
7780	824-C ARTICULATED ST BLADE P.S. 310 HP D	249,848	71.46	96.31	15.51	28.91	12.49	33.58	16.43					
7785	834-B ARTICULATED ST BLADE P.S. 450 HP D	369,379	102.41	136.43	22.85	42.40	18.13	49.20	23.85					
CLARK														
7795	280B ARTICULATED ST BLADE P.S. 302 HP D	283,770	78.54	105.91	17.62	32.85	12.16	38.15	16.01					
7800	380B ARTICULATED ST BLADE P.S. 572 HP D	479,471	132.00	175.28	29.72	55.28	23.04	64.16	30.32					

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		
	TRACTOR, WHEEL TYPE (FARM)									
	JOHN DEERE									
7810	MOD 301 A	43 HP D	15,906	5.61	7.36	1.00	1.88	1.73	2.20	2.28
7815	MOD 401 B	62 HP D	20,175	7.47	9.76	1.27	2.40	2.50	2.80	3.29
	TRENCHER, CHAIN									
	DITCH WITCH									
7825	MOD C99 6"X24" TRENCH	9 HP G	3,664	1.75	2.24	0.23	0.43	0.67	0.50	0.87
7830	MOD 2200 8"X36" TRENCH	18 HP G	15,045	5.34	6.87	0.95	1.83	1.33	2.13	1.73
7835	MOD 2300 10"X36" TRENCH	28 HP G	20,707	7.67	9.87	1.31	2.52	2.07	2.94	2.70
7840	MOD 6510 12"X54" TRENCH	64 HP D	38,945	12.77	16.43	2.46	4.70	2.58	5.48	3.39
7845	MOD R100 10"X72" TRENCH	105 HP D	78,689	24.51	31.52	4.98	9.55	4.23	11.13	5.56
	VERMEER									
7860	MOD V-430 10"X40" TRENCH	24 HP D	25,296	7.36	9.46	1.60	3.08	0.97	3.60	1.27
7865	MOD M-455 18"X72" TRENCH	44 HP D	49,935	14.39	18.46	3.17	6.06	1.77	7.07	2.33
7870	MOD M-475 18"X72" TRENCH	55 HP D	55,151	16.23	20.82	3.50	6.71	2.22	7.82	2.91
7875	MOD T-600024"X96" TRENCH	113 HP D	88,774	27.26	35.02	5.67	10.95	4.55	12.78	5.99
7880	MOD T-800B36"X96" TRENCH	175 HP D	171,611	50.45	64.74	10.95	21.16	7.05	24.71	9.27
	TRENCHER, WHEEL TYPE									
	BARBER-GREENE									
7890	MOD TA 56 16"X5'-10" TRENCH	100 HP D	141,898	39.43	50.49	9.07	17.51	4.03	20.43	5.30
7895	MOD TA 65 28"X7'-6" TRENCH	160 HP D	205,721	57.92	74.22	13.14	25.38	6.44	29.61	8.48
7900	MOD TA 77 32"X8'-6" TRENCH	160 HP D	260,144	71.06	90.99	16.61	32.09	6.44	37.45	8.48
	CLEVELAND									
7910	MOD 236 17"X72" TRENCH	67 HP D	113,911	30.97	39.63	7.27	14.05	2.70	16.40	3.55
7915	MOD 236HD 21"X72" TRENCH	67 HP D	124,115	33.43	42.78	7.92	15.31	2.70	17.87	3.55
7920	MOD 246 25"X72" TRENCH	67 HP D	127,865	34.34	43.93	8.17	15.77	2.70	18.41	3.55

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					
TRENCHER, WHEEL TYPE (CONT'D)														
CLEVELAND (CONT'D)														
7925	MOD 350 30"X90" TRENCH	150 HP D	237,228	65.02	83.26	15.15	29.26	6.04	34.15	7.95				
7930	MOD 400WHD36"X114" TRENCH	175 HP D	295,264	80.32	102.83	18.86	36.42	7.05	42.51	9.27				
TRUCKS, HIGHWAY														
(CHASSIS ONLY)														
FORD														
7945	F150 4X2 1/2T PKUP	6100 GVW 137 HP G	9,579	6.15	7.97	0.74	1.58	2.30	1.81	3.07				
7950	F150 4X4 1/2T PKUP	6250 GVW 137 HP G	11,772	6.91	8.91	0.91	1.95	2.30	2.24	3.07				
7955	F250 4X2 3/4T PKUP	6900 GVW 137 HP G	10,506	6.48	8.36	0.81	1.72	2.30	1.97	3.07				
7960	F250 4X4 3/4T PKUP	7400 GVW 137 HP G	12,296	7.11	9.17	0.95	2.03	2.30	2.32	3.07				
7965	F350 2AX	10000 GVW 137 HP G	11,219	6.78	8.76	0.86	1.81	2.30	2.08	3.07				
7970	F600 2AX	18500 GVW 154 HP G	19,413	12.79	16.78	1.31	2.52	6.04	3.09	7.76				
7975	F600 2AX	18500 GVW 162 HP D	26,260	11.29	15.03	1.78	3.47	3.73	4.25	4.84				
7980	F700 2AX	24500 GVW 177 HP G	22,217	14.63	19.20	1.50	2.91	6.94	3.56	8.92				
7985	F700 2AX	24500 GVW 162 HP D	29,657	12.10	16.15	2.02	3.94	3.73	4.83	4.84				
7990	F800 2AX	27000 GVW 177 HP G	24,495	15.23	20.00	1.66	3.20	6.94	3.92	8.92				
7995	F800 2AX	27000 GVW 162 HP D	31,076	12.74	16.96	2.09	3.99	3.73	4.87	4.84				
8000	LT800 3AX	43000 GVW 223 HP G	38,157	27.11	35.59	2.58	5.17	12.99	6.37	16.73				
8005	LT8000 3AX	44800 GVW 175 HP D	51,744	21.14	28.27	3.51	7.04	6.04	8.67	7.85				
8010	LTS8000 3AX	46000 GVW 175 HP D	54,113	21.76	29.07	3.67	7.37	6.04	9.07	7.85				
8015	LNT8000 3AX	46000 GVW 175 HP D	51,190	21.03	28.10	3.46	6.94	6.04	8.56	7.85				
8020	CT8000 3AX	46000 GVW 175 HP D	59,470	23.07	30.87	4.05	8.14	6.04	10.02	7.85				
8025	LT9000 3AX 58000 GVW	82000 GCW 239 HP D	78,140	30.76	41.15	5.31	10.68	8.25	13.16	10.72				
8030	LTS9000 3AX 60000 GVW	82000 GCW 239 HP D	82,946	31.98	42.81	5.63	11.31	8.25	13.95	10.72				
8035	LNT9000 3AX 60000 GVW	82000 GCW 239 HP D	78,784	30.96	41.41	5.34	10.72	8.25	13.21	10.72				
8040	CLT9000 3AX	82000 GCW 286 HP D	76,820	32.38	43.29	5.23	10.54	9.87	13.00	12.83				

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										
8050	C10903 4X2 1/2T PKUP	6100 GVW 165 HP G	9,774	6.84	8.86	0.76	1.61	2.77	1.85	3.70	46
8055	C10906 4X2 SUBURBAN	6800 GVW 165 HP G	12,436	7.70	9.96	0.96	2.05	2.77	2.37	3.70	52
8060	K10906 4X4 SUBURBAN	7000 GVW 165 HP G	13,655	8.15	10.49	1.06	2.27	2.77	2.60	3.70	56
8065	C20903 4X2 3/4T PKUP	8600 GVW 165 HP G	11,508	7.40	9.57	0.89	1.90	2.77	2.18	3.70	49
8070	K20903 4X4 3/4T PKUP	6600 GVW 165 HP G	13,318	8.03	10.37	1.03	2.21	2.77	2.54	3.70	54
8075	C30903 2AX	9000 GVW 160 HP G	13,102	7.90	10.19	1.01	2.13	2.69	2.44	3.58	62
8080	C5D042 2AX	18500 GVW 161 HP G	17,881	12.77	16.71	1.20	2.31	6.31	2.82	8.11	59
8085	C6D042 2AX	19200 GVW 161 HP G	19,384	13.14	17.22	1.31	2.52	6.31	3.09	8.11	63
8090	C6D042 2AX	23160 GVW 165 HP D	27,063	11.56	15.40	1.84	3.58	3.79	4.38	4.93	73
8095	C7D042 2AX	23160 GVW 179 HP G	20,852	14.47	18.94	1.40	2.70	7.02	3.30	9.02	78
8100	C7D042 2AX	29900 GVW 225 HP D	40,066	16.56	22.09	2.73	5.31	5.17	6.50	6.73	96
8105	C7D064 3AX	44860 GVW 207 HP G	36,990	25.73	33.79	2.47	4.91	12.06	6.05	15.53	123
8110	C7D064 3AX	44500 GVW 205 HP D	43,909	20.55	27.38	2.96	5.91	7.07	7.28	9.19	127
8115	J8C042 2AX	33200 GVW 235 HP D	49,361	23.06	30.70	3.36	6.76	8.11	8.33	10.54	107
8120	J8C064 3AX	48860 GVW 210 HP D	55,995	23.75	31.73	3.80	7.64	7.24	9.42	9.42	140
8125	J9C042 2AX	53911 GVW 230 HP D	54,788	20.39	27.29	3.73	7.26	5.29	8.90	6.88	122
8130	J9C064 3AX	48860 GVW 300 HP D	64,701	29.86	39.81	4.41	8.89	10.35	10.96	13.45	144
8135	N9E064 3AX	52000 GVW 307 HP D	66,772	30.86	41.10	4.51	9.05	10.59	11.16	13.77	141
8140	N9E064 3AX	62000 GVW 307 HP D	78,322	33.80	45.11	5.30	10.65	10.59	13.13	13.77	180
	INTERNATIONAL										
8150	1654 2AX	16000 GVW 155 HP D	20,234	9.55	12.70	1.38	2.68	3.56	3.29	4.63	57
8155	1724 2AX	16000 GVW 147 HP G	18,417	12.11	15.90	1.25	2.43	5.76	2.98	7.41	65
8160	1754 2AX	16000 GVW 165 HP D	25,947	11.21	14.96	1.78	3.47	3.79	4.26	4.93	71
8165	1954 2AX	21700 GVW 180 HP D	33,001	13.42	17.93	2.26	4.40	4.14	5.40	5.38	100
8170	F2554 3AX	43000 GVW 210 HP D	51,836	22.72	30.33	3.51	7.04	7.24	8.68	9.42	123
8175	F2574 3AX	50000 GVW 230 HP D	67,554	27.46	36.77	4.61	9.30	7.93	11.47	10.32	123

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								
TRUCKS, HIGHWAY (CONT'D)															
(CHASSIS ONLY)															
INTERNATIONAL (CONT'D)															
8180	F4370	3AX	48860 GVW 300 HP D	71,014	31.42	41.94	4.85	9.80	10.35	12.09	13.45	133			
8185	F5050	3AX	54000 GVW 210 HP D	69,358	27.03	36.22	4.73	9.56	7.24	11.79	9.42	138			
8190	F5070	3AX	54000 GVW 230 HP D	72,384	28.65	38.39	4.94	9.99	7.93	12.33	10.32	140			
KENWORTH															
8200	K100	3AX	48000 GVW 85000 GCW 300 HP D	75,915	32.70	43.68	5.18	10.46	10.35	12.89	13.45	138			
8205	W900	3AX	48000 GVW 85000 GCW 300 HP D	76,520	32.84	43.88	5.22	10.54	10.35	13.00	13.45	140			
8210	C500	3AX	56000 GVW 85000 GCW 270 HP D	82,111	32.89	44.05	5.61	11.35	9.31	14.00	12.11	144			
PETERBILT															
8220	MOD 348	3AX	50000 GVW 85000 GCW 245 HP D	83,576	32.41	43.48	5.69	11.47	8.45	14.14	10.99	121			
8225	MOD 362	3AX	46000 GVW 85000 GCW 300 HP D	73,969	32.22	43.03	5.04	10.18	10.35	12.55	13.45	131			
8230	MOD 359	3AX	46000 GVW 85000 GCW 300 HP D	71,519	31.62	42.21	4.87	9.83	10.35	12.12	13.45	134			
8235	MOD 353	3AX	56000 GVW 130000 GCW 350 HP D	80,395	36.00	48.07	5.49	11.10	12.07	13.69	15.70	174			
TRUCK ACCESSORIES															
(CHASIS NOT INCLUDED)															
CRANES, HYDRAULIC															
8245	5.3T@5' RAD	24000 GVW MIN		29,349	7.71		2.04	4.22	0.00		79				
8250	8.0T@3' RAD	26500 GVW MIN		35,004	9.18		2.44	5.04	0.00		84				
8255	12.5T@4' RAD	27000 GVW MIN		54,505	14.22		3.79	7.84	0.00		142				
8260	13.5T@4' RAD	44000 GVW MIN		66,971	17.46		4.66	9.64	0.00		158				
8265	15.0T@4' RAD	48000 GVW MIN		74,988	19.53		5.22	10.79	0.00		211				
DUMP BODY, REAR, W/HOIST															
8275	5CY 24000 TO 26000 GVW			7,211	1.96	2.64	0.50	1.03	0.00	1.28	0.00	26			
8280	AIR GATE	8CY 27000 TO 30000 GVW		11,469	3.07	4.16	0.80	1.65	0.00	2.05	0.00	44			
8285	AIR GATE	10CY 36000 AND UP GVW		11,611	3.11	4.21	0.81	1.67	0.00	2.07	0.00	45			

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 OWNER-SHIP	SEVERE COND.									
			AVERAGE	SEVERE													
TRUCK ACCESSORIES (CONT'D)																	
***** (CHASIS NOT INCLUDED)																	
DUMP BODY, REAR, W/HOIST (CONT'D)																	
8290	AIR GATE 12CY 36000 AND UP GVW	11,786	3.16	4.27	0.82	1.70	0.00	2.10	0.00	46							
FLATBEDS W/CONT. SIDES										11							
8300	8'X9.5'	2,388	0.62		0.17	0.35	0.00										
8305	8'X10.5'	2,480	0.65		0.17	0.36	0.00										
8310	8'X12.5'	2,733	0.70		0.19	0.39	0.00										
8315	8'X14.5'	3,231	0.83		0.22	0.46	0.00										
8320	8'X16.5'	3,552	0.92		0.25	0.51	0.00			18							
8325	FLATBED-HOIST	3,193	0.83		0.22	0.46	0.00			10							
HOISTS, ELECTRIC										15							
8335	1500LB@1.75'	2,609	0.73		0.19	0.38	0.00										
8340	2400LB@3'	3,066	0.89		0.22	0.44	0.00										
8345	5000LB@4'	8,434	2.29		0.59	1.22	0.00										
8350	6000LB@6'	9,443	2.55		0.66	1.36	0.00										
TRANSIT MIXERS										68							
8360	7 CY 40000 - 50000 GVW ROD	29,987	7.90		2.08	4.31	0.00										
8365	8 CY 50000 - 70000 GVW ROD	30,502	8.04		2.13	4.39	0.00										
8370	8.5CY 55000 - 75000 GVW ROD	30,849	8.13		2.15	4.44	0.00										
8375	9 CY 61000 - 80000 GVW ROD	31,393	8.27		2.19	4.52	0.00			73							
WATER TANKS										35							
8385	2000 GAL 23500-28000 GVW	13,531	3.51		0.95	1.95	0.00										
8390	2500 GAL 25000-34950 GVW	14,308	3.71		1.00	2.06	0.00										
8395	3000 GAL 29000-40000 GVW	15,271	3.95		1.06	2.19	0.00			44							

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	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE			FUEL	OWNER-SHIP	FUEL						
TRUCK TRAILERS															

BOTTOM DUMP															
8405	18CY 27T	30,826	6.72	8.50	1.90	3.67	0.00	4.28	0.00	122					
8410	20CY 30T	36,451	7.89	9.99	2.26	4.39	0.00	5.12	0.00	140					
8415	30CY 30T	37,262	8.04	10.20	2.31	4.48	0.00	5.24	0.00	160					
8420	28CY 42T	44,144	9.58	12.14	2.73	5.26	0.00	6.14	0.00	180					
8425	20CY 35T OFF-HIGHWAY	51,182	10.97	13.94	3.18	6.20	0.00	7.26	0.00	175					
8430	32CY 55T OFF-HIGHWAY	104,866	22.85	28.95	6.41	12.27	0.00	14.32	0.00	365					
8435	43CY 70T OFF-HIGHWAY	115,006	25.17	31.83	7.02	13.39	0.00	15.60	0.00	445					
END DUMP															
8445	20CY 24T	40,511	8.72	11.05	2.52	4.90	0.00	5.72	0.00	146					
LOWBOY, RIGID NECK, DROP DECK															
8455	25 TON 2 AXLE	24,073	4.75		1.49	2.57	0.00			89					
8460	30 TON 2 AXLE	26,576	5.23		1.65	2.85	0.00			94					
8465	35 TON 2 AXLE	29,151	5.71		1.81	3.14	0.00			109					
8470	35 TON 3 AXLE	33,758	6.70		2.09	3.59	0.00			134					
8475	40 TON 3 AXLE	35,346	7.02		2.19	3.75	0.00			144					
8480	50 TON 3 AXLE	40,569	7.98		2.52	4.34	0.00			161					
8485	60 TON 3 AXLE	44,172	8.80		2.72	4.63	0.00			188					
8490	70 TON 3 AXLE	53,279	10.46		3.31	5.69	0.00			213					
8495	75 TON 3 AXLE	55,131	10.79		3.43	5.90	0.00			228					
8500	80 TON 4 AXLE	62,503	12.18		3.91	6.77	0.00			266					
8505	90 TON 4 AXLE	67,588	13.23		4.21	7.25	0.00			297					
8510	100 TON 4 AXLE	73,156	14.33		4.55	7.83	0.00			313					
8515	120 TON 4 AXLE	84,790	16.81		5.23	8.90	0.00			351					
8520	HELPER DOLLY 60 T TRAILER MAX	20,320	4.11		1.25	2.12	0.00			62					

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									
			AVERAGE	SEVERE													
TRUCK TRAILERS (CONT'D)																	
PLATFORM TRAILERS																	
8530	25 TON 2 AXLE	20,446	4.12		1.25	2.13	0.00		110								
PUP TRAILERS																	
8540	8 CY LONG TONGUE	24,038	4.79		1.48	2.54	0.00		86								
8545	10CY LONG TONGUE	24,208	4.83		1.50	2.57	0.00		86								
TIlt TRAILERS																	
8555	12 TON 2 AXLE	13,186	2.71		0.81	1.36	0.00		62								
8560	16 TON 2 AXLE	14,963	3.10		0.92	1.54	0.00		65								
8565	20 TON 2 AXLE	16,186	3.33		0.99	1.66	0.00		67								
WATER TANKER TRAILERS																	
8575	4000 GAL	63 HP D	36,363	9.31		2.16	3.88	2.54	120								
8580	5000 GAL	63 HP D	38,970	9.84		2.29	4.07	2.54	150								
8585	6000 GAL	63 HP D	40,781	10.13		2.39	4.26	2.54	160								
TRUCKS, OFF-HIGHWAY																	
CATERPILLAR																	
8595	769-C 35T 22-30 CY	P.S. 450 HP D	306,965	74.78	95.92	17.94	33.18	11.45	37.41	14.79	711						
8600	773-B 50T 30-45 CY	P.S. 650 HP D	430,080	107.01	138.14	25.03	46.07	16.54	51.92	21.36	908						
8605	777 85T 47-67 CY	P.S. 870 HP D	600,468	145.47	187.52	34.69	63.26	22.13	71.20	28.59	1391						
8610	768C PRIME MOVER TRACTOR	P.S. 450 HP O	270,384	68.28	87.93	15.77	29.07	11.45	32.77	14.79	523						
8615	772B PRIME MOVER TRACTOR	P.S. 650 HP D	403,711	104.51	136.42	23.32	42.53	16.54	47.87	21.36	716						
8620	776 PRIME MOVER TRACTOR	P.S. 870 HP D	530,424	134.69	175.51	30.33	54.62	22.13	61.39	28.59	1100						
DJB (ARTICULATED FRAME)																	
8630	D330B 33T 17-23 CY	P.S. 255 HP D	247,676	55.57	70.52	14.48	26.77	6.49	30.18	8.38	444						
8635	D350C 35T 20-26 CY	P.S. 260 HP D	269,700	61.57	79.08	15.60	28.51	6.61	32.11	8.54	472						

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				
TRUCKS, OFF-HIGHWAY (CONT'D)													
DJB (CONT'D) (ARTICULATED FRAME)													
8640	D550	55T 32-43 CY	P.S. 450 HP D	437,790	100.47	128.84	25.37	46.44	11.45	52.30	14.79	834	
EUCLID													
8650	R25-215FD	25T 14-19 CY	P.S. 214 HP D	208,179	46.27	58.86	12.16	22.46	5.44	25.33	7.03	404	
8655	R35-302TD	35T 22-30 CY	P.S. 450 HP D	326,553	78.26	100.21	19.11	35.38	11.45	39.90	14.79	623	
8660	R50-301LD	50T 31-41 CY	P.S. 608 HP D	429,335	105.45	136.13	24.99	45.99	15.47	51.83	19.98	836	
8665	R75-301ND	75T 46-69 CY	P.S. 646 HP D	573,762	132.15	169.97	33.20	60.69	16.43	68.34	21.23	1123	
8670	R85-306ND	85T 52-67 CY	P.S. 755 HP D	591,322	139.92	180.46	34.14	62.23	19.21	70.04	24.81	1227	
TEREX													
8685	33-03B	22T 15-18 CY	P.S. 215 HP D	185,682	43.01	54.99	10.87	20.14	5.47	22.72	7.06	400	
8690	33-05B	30T 19-23 CY	P.S. 321 HP D	266,796	62.58	80.22	15.60	28.85	8.17	32.53	10.55	525	
8695	33-07	40T 25-32 CY	P.S. 493 HP D	329,469	83.36	108.50	19.08	34.88	12.54	39.28	16.20	756	
8700	33-09	55T 34-44 CY	P.S. 624 HP D	443,030	110.60	143.86	25.66	46.94	15.87	52.86	20.50	992	
8705	33-11D	85T 51-65 CY	P.S. 840 HP D	652,387	153.68	197.53	37.78	69.09	21.37	77.79	27.60	1350	
8710	33-14	120T 65-88 CY	P.S. 1092 HP D	953,971	219.98	282.69	55.25	101.07	27.78	113.82	35.88	1950	
WABCO													
8720	HAULPAK35D	35T 23-29 CY	P.S. 420 HP D	324,295	76.84	98.39	18.98	35.13	10.68	39.62	13.80	630	
8725	HAULPAK50B	50T 31-40 CY	P.S. 576 HP D	461,358	110.04	141.73	26.90	49.59	14.65	55.89	18.93	792	
8730	HAULPAK60B	60T 34-48 CY	P.S. 642 HP D	495,034	120.45	156.03	28.75	52.78	16.33	59.46	21.10	900	
8735	75C	75T 44-57 CY	P.S. 679 HP D	560,807	130.40	167.47	32.50	59.50	17.27	67.01	22.31	950	
8740	85D	85T 47-67 CY	P.S. 818 HP D	628,417	148.66	191.35	36.35	66.39	20.81	74.76	26.88	1240	
8745	100	100T 47-77 CY	P.S. 1050 HP D	764,877	184.93	239.51	44.00	79.83	26.71	89.80	34.50	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 *****												
8755	KT-50 5000 GAL. CAT 613B P.S. 150 HP D	147,375	34.82	42.74	8.69	15.51	6.04	17.41	7.95	320		
8760	KT-60 6000 GAL. CAT 621B P.S. 330 HP D	257,950	65.43	80.83	15.09	26.68	13.29	29.90	17.49	564		
8765	KT-80 8000 GAL. CAT 631D P.S. 450 HP D	357,876	90.64	111.98	20.88	36.85	18.13	41.30	23.85	751		
8770	KT-100 10000 GAL. CAT 631D P.S. 450 HP D	366,279	92.11	113.72	21.39	37.77	18.13	42.32	23.85	811		
8775	KT-100 10000 GAL. CAT 651E P.S. 550 HP D	441,858	111.57	137.84	25.79	45.51	22.15	51.00	29.15	1001		
8780	KT-120 12000 GAL. CAT 651E P.S. 550 HP D	448,978	112.81	139.31	26.21	46.29	22.15	51.87	29.15	1097		
TRACTOR DRAWN - SOUTHWEST												
8790	STT-60 6000 GAL. CAT 621B P.S. 330 HP D	258,681	65.56	80.98	15.13	26.76	13.29	29.99	17.49	594		
8795	STT-80 8000 GAL. CAT 631D P.S. 450 HP D	353,726	89.91	111.11	20.63	36.39	18.13	40.78	23.85	811		
8800	STT-100 10000 GAL. CAT 631D P.S. 450 HP D	358,596	90.77	112.12	20.93	36.93	18.13	41.38	23.85	840		
8805	STT-120 12000 GAL. CAT 651E P.S. 550 HP D	459,276	114.62	141.47	26.83	47.42	22.15	53.15	29.15	1135		
8810	STT-140 14000 GAL. CAT 651E P.S. 550 HP D	466,203	115.83	142.91	27.25	48.18	22.15	54.00	29.15	1170		
WAGONS, BOTTOM DUMP *****												
CATERPILLAR-ATHEY												
8820	621B/PW621B 33T 22-25CY P.S. 330 HP D	280,337	72.14	93.46	16.27	29.83	13.29	33.60	17.49	579		
8825	768C/PW768C 63T 42-48CY P.S. 450 HP D	412,942	104.58	135.19	23.84	43.47	18.13	48.93	23.85	935		
8830	772B/PW772B 100T 60-67CY P.S. 650 HP D	657,298	164.98	214.58	37.84	68.75	26.18	77.35	34.45	1360		
EUCLID												
8840	B30-30 3TD T301W 30T 21-27CY P.S. 277 HP D	264,208	66.29	85.82	15.31	28.01	11.16	31.55	14.68	483		
8845	B70-20 3LDT 147W 70T 47-62CY P.S. 456 HP D	445,829	108.11	138.79	25.83	47.26	18.37	53.22	24.17	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 OWNER-	COND.	SEVERE OWNER-	COND.	
	WAGONS, REAR DUMP *****									
	CATERPILLAR-ATHEY									
8855	621B/PR621B 33T 22-26CY P.S. 330 HP D	290,305	73.90	95.63	16.86	30.94	13.29	34.86	17.49	630
8860	631D/PR631D 40T 27-32CY P.S. 450 HP D	415,254	104.17	134.54	24.16	44.44	18.13	50.07	23.85	833
	WATER BLASTER *****									
	AMERICAN AERO									
8870	WBD 90 10000 PSI @ 10 GPM W/2 NOZ 91 HP D TRAILER MOUNTED	36,594	22.22			2.89	6.49	5.40		42
8875	WBDI50 10000 PSI @ 20 GPM W/2 NOZ 160 HP D TRAILER MOUNTED	55,566	35.42			4.39	9.86	9.50		70
	WATER TANKS *****									
	SKID MOUNTED									
8885	WST-8 8000 GAL. SOUTHWEST	19,085	3.15			1.15	2.09	0.00		107
8890	WST-10 10000 GAL. SOUTHWEST	22,168	3.65			1.33	2.42	0.00		122
8895	WST-12 12000 GAL. SOUTHWEST	25,793	4.24			1.55	2.82	0.00		142
	PORTABLE (WITH WHEELS)									
8905	EWT-8 8000 GAL. SOUTHWEST 8 HP G	33,036	6.26			1.96	3.52	0.59		130
8910	EWT-10 10000 GAL. SOUTHWEST 8 HP G	37,937	7.06			2.25	4.06	0.59		170
8915	EWT-12 12000 GAL. SOUTHWEST 8 HP G	41,989	7.74			2.50	4.51	0.59		185
	WELDERS *****									
	ELECTRIC DRIVE - AC 3 PHASE 60 HZ									
8925	300 AMP SKID MTD 20 HP E	2,714	1.50			0.19	0.38	0.72		7
8930	400 AMP SKID MTD 25 HP E	3,260	1.83			0.23	0.45	0.90		9

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. OWNER- SHIP	SEVERE COND. OWNER- SHIP	FUEL									
			AVERAGE	SEVERE													
WELDERS (CONT'D)																	
GASOLINE ENGINE DRIVE																	
8940	200 AMP	W/1 AXLE TRLR	39 HP G	5,366	5.72	0.37	0.70	3.54	11								
8945	250 AMP	W/1 AXLE TRLR	39 HP G	5,784	5.83	0.40	0.76	3.54	17								
8950	300 AMP	W/1 AXLE TRLR	65 HP G	6,249	8.87	0.43	0.82	5.90	17								
8955	400 AMP	W/1 AXLE TRLR	69 HP G	7,939	9.74	0.55	1.05	6.26	21								
DIESEL ENGINE DRIVE																	
8965	250 AMP	W/1 AXLE TRLR	27 HP D	7,461	3.52	0.52	0.98	1.35	21								
8970	300 AMP	W/1 AXLE TRLR	38 HP D	7,941	4.32	0.55	1.05	1.89	21								
8975	350 AMP	W/2 AXLE TRLR	38 HP D	8,967	4.57	0.62	1.17	1.89	25								
8980	400 AMP	W/2 AXLE TRLR	64 HP D	9,773	6.38	0.67	1.27	3.19	30								
MIG																	
8990	300AMP W/WIRE FEED AND SHOP GEAR	10 HP E	2,711	1.03	0.19	0.38	0.36		5								
8995	450AMP W/WIRE FEED AND SHOP GEAR	20 HP E	2,785	1.51	0.20	0.39	0.72		5								
RECTIFIER																	
9005	200 AMP	W/SHOP RUNNING GEAR	19 HP E	1,269	1.15	0.09	0.18	0.68	4								
9010	300 AMP	W/SHOP RUNNING GEAR	24 HP E	1,649	1.46	0.12	0.23	0.86	6								
9015	750 AMP	W/SHOP RUNNING GEAR	30 HP E	4,282	2.28	0.30	0.60	1.08	7								
9020	1000AMP	W/SHOP RUNNING GEAR	42 HP E	7,444	3.48	0.51	1.03	1.51	10								
TRANSFORMER-RECTIFIER																	
9030	250 AMP	W/SHOP RUNNING GEAR	19 HP E	636	1.02	0.05	0.09	0.68	4								
9035	300 AMP	W/SHOP RUNNING GEAR	24 HP E	1,943	1.52	0.14	0.27	0.86	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 200-HP wheel loader listed in TABLE 3-1 has a total hourly rate of \$55.00 per hour and an ownership rate of \$25.00 per hour.

A. If an equivalent loader owned by a contractor had been purchased new in 1980, the total hourly rate can be determined as follows:

Total Hourly Rate	= \$55.00/Hr.
Ownership Rate	(-) \$25.00/Hr.
Ownership adjusted for Age: (Ownership Rate) x (Age Adj. Factor)	= (+) \$17.75/Hr.
= (\$25.00) x (.71)	= \$47.75/Hr.
Adjusted Total Hourly Rate	

B. If an equivalent loader owned by a Contractor had been purchased new in 1972, this loader is over-age and the total hourly rate can be determined as follows:

Total Hourly Rate	= \$55.00/Hr.
Ownership Rate	(-) \$25.00/Hr.
Ownership adjusted for Age: (Ownership Rate) x (Oldest Age Adj. Factor)	= (+) \$13.50/Hr.
= (\$25.00) x (.54)	= \$43.50/Hr.
Adjusted Total Hourly Rate	

C. If an equivalent loader, manufactured in 1972, had been purchased used in 1977 by the Contractor, the loader is over-age and the rate computation would be identical to Example B.

D. If an equivalent loader, manufactured in 1980, had been purchased used in 1982 by the Contractor, the used loader 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												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
15	AGGREGATE SPREADERS	1.07	1.03	1.00	0.99	1.00	0.94	0.86	0.78	0.71				
30	AIR COMPRESSORS	1.07	1.04	1.00	1.01	0.99	0.91	0.96	0.89	0.77				
45	AIR TOOLS, SANDBLASTERS, ETC	1.07	1.04	1.00	1.01									
60	ASPHALT DISTRIBUTORS	1.07	1.03	1.00	0.99	1.00	0.94	0.86	0.79	0.71				
65	ASPHALT AND CONCRETE PAVERS	1.07	1.03	1.00	0.99	1.00	0.94	0.86	0.79	0.71				
70	ASPHALT KETTLES AND RECYCLERS	1.04	1.02	1.00	0.98	0.96	0.88	0.78						
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67	0.60				
80	BRUSH CHIPPERS	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.68	0.61				
90	BUCKETS, CLAMSHELL & DRAGLINE	1.05	1.03	1.00	0.99	1.00	0.95	0.84	0.70	0.62				
95	BUCKETS, CONCRETE	1.05	1.03	1.00	0.99	1.00	0.95	0.84	0.69	0.61				
105	CONCRETE OR GROUT PUMP	1.04	1.02	1.00	0.98	0.96	0.89	0.79						
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.04	1.02	1.00	0.98	0.96	0.88	0.78						
125	CONCRETE FINISHERS & BUGGIES	1.04	1.02	1.00	0.98	0.96	0.88							
130	CONCRETE SAWS	1.04	1.02	1.00	0.98	0.96	0.88	0.78						
135	CONCRETE VIBRATORS	1.07	1.04	1.00	1.01									
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	1.07	1.03	1.00	1.01	0.99	0.92							
150	0 THRU 25 TON	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.57	0.51	
165	OVER 25 TON THRU 50 TON	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.67	0.61	0.57	0.52	0.41
170	OVER 50 TON THRU 150 TON	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.42
180	OVER 150 TON	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.74	0.67	0.62	0.58	0.53	0.43
	DRAGLINE & CLAMSHELL,CRAWLER													
185	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.60	0.56		
190	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.67	0.61	0.57	0.52	0.41
195	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.42
196	OVER 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.74	0.67	0.62	0.58	0.53	0.43
200	CRANES, HYDRAULIC, SELF-PROPELLED	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.43
205	CRANES, TOWER	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.57	0.51	0.41
	CRANES & HYD. EXC., TRK MTD													
210	UNDER 26 T. (THRU 1 CY)	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.42
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.74	0.68	0.62	0.58	0.53	0.43
230	66 THRU 125 T	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.74	0.68	0.63	0.59	0.54	0.44
240	OVER 125 T	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.74	0.68	0.63	0.59	0.54	0.44
255	DRILL, AUGER	1.02	1.01	1.00	1.01	1.00	0.92	0.79	0.68	0.62				
270	DRILL, BLAST HOLE	1.02	1.01	1.00	1.01	1.00	0.92	0.79	0.68	0.62				
300	DRILL, CORE	1.02	1.01	1.00	1.01	1.00	0.92	0.79	0.68	0.62				
315	DRILL, ROTARY TO 11" DIA. HOLE	1.02	1.01	1.00	1.01	1.00	0.92	0.79	0.69	0.64	0.58	0.55	0.52	0.45
330	DRILL, ROTARY OVER 11" DIA.	1.02	1.01	1.00	1.01	1.00	0.93	0.80	0.70	0.65	0.59	0.57	0.54	0.47
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.02	1.01	1.00	1.01	1.00	0.93	0.80	0.70	0.65	0.59	0.57	0.54	0.47
375	FORK LIFTS	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.68	0.61				
390	GRADERS	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.70	0.64	0.57	0.52		
420	GENERATORS	1.06	1.04	1.00	0.97	0.95	0.92	0.81						
435	HOIST	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.68	0.61				
	HYD. EXCAVATOR (SEE KEY NO. 570-601)													
440	LIGHT PLANTS	1.04	1.02	1.00	0.98	0.96	0.88	0.78						
450	LOADER, BELT	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67	0.60				
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.00	0.99	1.00	1.00	0.96	0.87	0.79	0.69	0.62				
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.02	1.01	1.00	0.98	0.95	0.85	0.71	0.61	0.54				
470	OVER 225 HP	1.02	1.01	1.00	0.98	0.96	0.86	0.73	0.64	0.57	0.51	0.47		
475	LOADER, FRONT END WITH BACKHOE,WHEEL TYPE	1.02	1.01	1.00	0.98	0.95	0.85	0.71	0.61	0.54				

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW											
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.05	1.02	1.00	0.98	0.95	0.87						
485	PIPELAYERS PUMP, GROUT (SEE KEY NO. 105)	1.00	0.99	1.00	1.00	0.96	0.87	0.78	0.69	0.61	0.54	0.49	
495	PUMP, WATER, ENGINE DRIVE	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67	0.60			
500	PUMP, WATER, ELECTRIC DRIVE	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67	0.60			
510	RIPPERS	1.00	0.99	1.00	1.00	0.96	0.87	0.78					
525	ROLLERS, EXCEPT VIB. ROLLERS	1.08	1.05	1.00	0.95	0.86	0.79	0.71	0.64	0.56			
530	ROLLERS, VIBRATORY	1.08	1.05	1.00	0.95	0.86	0.79	0.70					
540	SCRAPERS, STANDARD	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71	0.65			
542	SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71	0.65			
545	0 THRU 200 HP	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.70	0.64			
550	OVER 200 HP	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71	0.65			
555	SCRAPERS, TRACTOR DRAWN	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71	0.65	0.58	0.53	
560	SOIL STABILIZERS SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.70	0.64			
570	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.88	0.80					
585	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.81	0.72	0.65			
595	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.60	0.56	
600	OVER 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.52
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53
615	0 THRU 225 HP	1.00	0.99	1.00	1.00	0.96	0.87	0.78	0.69	0.60			
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.00	0.99	1.00	1.00	0.96	0.87	0.79	0.69	0.62			
625	OVER 425 HP	1.00	0.99	1.00	1.00	0.96	0.88	0.79	0.71	0.63	0.56	0.51	
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.00	0.99	1.00	1.00	0.96	0.87	0.79	0.69	0.62			
645	TRACTOR, WHEEL TYPE	1.07	1.05	1.00	0.97	0.96	0.88	0.78	0.67	0.59			
650	TRENCHER	1.04	1.01	1.00	0.98	0.92	0.79	0.68	0.58	0.53			
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.69	0.62			
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.04	1.02	1.00	0.98	0.96	0.88	0.77	0.66	0.58			
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING												
670	DUMP BODIES	1.04	1.02	1.00	0.98	0.96	0.88	0.78					
675	ALL OTHER ACCESSORIES TRUCK, HIGHWAY	1.04	1.02	1.00	0.98	0.96	0.88	0.78					
690	0 THRU 10,000 GVW	1.09	1.03	1.00	0.95	0.91	0.83						
695	OVER 10,000 THRU 30,000 GVW	1.08	1.03	1.00	0.95	0.91	0.84	0.71					
705	OVER 30,000 GVW	1.08	1.03	1.00	0.95	0.91	0.84	0.72					
720	TRUCK, OFF-HIGHWAY	1.03	1.01	1.00	0.99	0.96	0.88	0.77	0.66	0.60	0.55	0.52	
765	WAGON, BOTTOM & REAR DUMP	1.03	1.01	1.00	0.99	0.96	0.88	0.77	0.66	0.60	0.55	0.51	
780	WAGON, WATER	1.03	1.01	1.00	0.99	0.96	0.88	0.76	0.65	0.58	0.54	0.50	
785	WATER BLASTER	1.04	1.02	1.00	0.98	0.96	0.88						
795	WATER TANKS	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.69	0.62	0.56	0.51	
810	WELDERS	1.04	1.02	1.00	0.98	0.96	0.88	0.77					
811	WELDERS ELECTRIC POWER	1.04	1.02	1.00	0.98	0.96	0.88	0.78					



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 200-HP wheel loader listed in TABLE 3-1 has an hourly standby rate of \$12.00 per hour. If an equivalent loader owned by a Contractor had been purchased new in 1980, the hourly standby rate can be determined as follows:

$$\text{Hourly Standby Rate} = \$12.00/\text{Hr.}$$

$$\begin{aligned} \text{Standby Adjusted for Age} \\ (\text{Standby Rate}) \times (\text{Age Adj. Factor}) \\ = (\$12.00) \times (.75) &= \$9.00/\text{Hr.} \end{aligned}$$

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
15	AGGREGATE SPREADERS	1.06	1.03	1.00	0.99	1.00	0.94	0.88	0.81	0.75				
30	AIR COMPRESSORS	1.06	1.03	1.00	1.01	0.99	0.93	0.97	0.91	0.81				
45	AIR TOOLS, SANDBLASTERS, ETC	1.07	1.03	1.00	1.01									
60	ASPHALT DISTRIBUTORS	1.06	1.03	1.00	0.99	1.00	0.94	0.88	0.81	0.75				
65	ASPHALT AND CONCRETE PAVERS	1.06	1.03	1.00	0.99	1.00	0.94	0.88	0.81	0.75				
70	ASPHALT KETTLES AND RECYCLERS	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
80	BRUSH CHIPPERS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
90	BUCKETS, CLAMSHELL & DRAGLINE	1.04	1.02	1.00	0.99	1.00	0.95	0.86	0.73	0.66				
95	BUCKETS, CONCRETE	1.04	1.02	1.00	0.99	1.00	0.95	0.86	0.73	0.66				
105	CONCRETE OR GROUT PUMP	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
125	CONCRETE FINISHERS & BUGGIES	1.04	1.02	1.00	0.99	0.96	0.89							
130	CONCRETE SAWS	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
135	CONCRETE VIBRATORS	1.07	1.03	1.00	1.01									
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	1.06	1.03	1.00	1.01	0.99	0.93							
150	O THRU 25 TON	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.76	0.70	0.66	0.62	0.57	
165	OVER 25 TON THRU 50 TON	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.62	0.58	0.49
170	OVER 50 TON THRU 150 TON	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.67	0.63	0.58	0.49
180	OVER 150 TON DRAGLINE & CLAMSHELL,CRAWLER	1.03	1.02	1.00	0.98	0.97	0.91	0.85	0.77	0.71	0.67	0.63	0.59	0.50
185	O THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.62		
190	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.62	0.58	0.49
195	OVER 2-1/2 CY THRU 5 CY	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.67	0.63	0.58	0.49
196	OVER 5 CY	1.03	1.02	1.00	0.98	0.97	0.91	0.85	0.77	0.71	0.67	0.63	0.59	0.50
200	CRANES, HYDRAULIC, SELF- PROPELLED	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.76	0.70	0.66	0.62	0.57	0.48
205	CRANES, TOWER CRANES & HYD. EXC., TRK MTD	1.03	1.02	1.00	0.98	0.97	0.91	0.85	0.78	0.72	0.68	0.64	0.60	0.51
210	UNDER 26 T. (THRU 1 CY)	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.76	0.70	0.66	0.62	0.57	0.48
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.62	0.58	0.48
230	66 THRU 125 T	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.63	0.58	0.49
240	OVER 125 T	1.03	1.02	1.00	0.98	0.97	0.91	0.85	0.77	0.72	0.67	0.64	0.59	0.50
255	DRILL, AUGER	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.72	0.67				
270	DRILL, BLAST HOLE	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.72	0.67				
300	DRILL, CORE	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.72	0.67				
315	DRILL, ROTARY TO 11" DIA. HOLE	1.02	1.01	1.00	1.01	1.00	0.93	0.82	0.73	0.68	0.63	0.61	0.58	0.52
330	DRILL, ROTARY OVER 11" DIA.	1.02	1.01	1.00	1.01	1.00	0.93	0.82	0.73	0.69	0.64	0.62	0.59	0.53
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.02	1.01	1.00	1.01	1.00	0.93	0.82	0.73	0.69	0.64	0.62	0.59	0.53
375	FORK LIFTS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
390	GRADERS	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.75	0.70	0.64	0.60		
420	GENERATORS	1.05	1.03	1.00	0.97	0.95	0.93	0.83						
435	HOIST HYD. EXCAVATOR (SEE KEY NO. 570-601)	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
440	LIGHT PLANTS	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
450	LOADER, BELT	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.00	0.99	1.00	1.00	0.96	0.89	0.81	0.73	0.66				
	LOADER, WHEEL TYPE													
465	O THRU 225 HP	1.02	1.01	1.00	0.98	0.96	0.88	0.75	0.67	0.61				
470	OVER 225 HP	1.02	1.01	1.00	0.98	0.96	0.88	0.75	0.67	0.61	0.56	0.52		
475	LOADER, FRONT END WITH BACKHOE,WHEEL TYPE	1.02	1.01	1.00	0.98	0.96	0.88	0.75	0.67	0.61				

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.04	1.02	1.00	0.98	0.96	0.94							
485	PIPELAYERS	1.00	0.99	1.00	1.00	0.97	0.89	0.82	0.74	0.67	0.61	0.56		
495	PUMP, GROUT (SEE KEY NO. 105)	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
500	PUMP, WATER, ENGINE DRIVE	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
510	RIPPERS	1.00	0.99	1.00	1.00	0.96	0.88	0.81						
525	ROLLERS, EXCEPT VIB. ROLLERS	1.07	1.04	1.00	0.95	0.88	0.82	0.75	0.68	0.62				
530	ROLLERS, VIBRATORY	1.07	1.04	1.00	0.95	0.87	0.81	0.74						
540	SCRAPERS, STANDARD	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
542	SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
545	0 THRU 200 HP	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
550	OVER 200 HP	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
555	SCRAPERS, TRACTOR DRAWN	1.04	1.02	1.00	1.00	0.98	0.90	0.83	0.75	0.69	0.63	0.59		
560	SOIL STABILIZERS	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED													
570	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.83						
585	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.69				
595	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.62		
600	OVER 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.62	0.57	0.48
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.67	0.63	0.58	0.49
615	0 THRU 225 HP	1.00	0.99	1.00	1.00	0.96	0.89	0.81	0.73	0.66				
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.00	0.99	1.00	1.00	0.96	0.89	0.81	0.73	0.66				
625	OVER 425 HP	1.00	0.99	1.00	1.00	0.97	0.89	0.81	0.73	0.66	0.60	0.55		
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.00	0.99	1.00	1.00	0.96	0.89	0.81	0.73	0.66				
645	TRACTOR, WHEEL TYPE	1.06	1.04	1.00	0.97	0.97	0.89	0.80	0.71	0.64				
650	TRENCHER	1.03	1.01	1.00	0.98	0.93	0.82	0.72	0.63	0.59				
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.03	1.02	1.00	0.99	0.96	0.90	0.82	0.72	0.66				
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING													
670	DUMP BODIES	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
675	ALL OTHER ACCESSORIES	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
	TRUCK, HIGHWAY													
690	0 THRU 10,000 GVW	1.07	1.03	1.00	0.96	0.92	0.86							
695	OVER 10,000 THRU 30,000 GVW	1.07	1.03	1.00	0.96	0.92	0.86	0.76						
705	OVER 30,000 GVW	1.07	1.03	1.00	0.96	0.92	0.86	0.76						
720	TRUCK, OFF-HIGHWAY	1.03	1.01	1.00	0.99	0.97	0.89	0.79	0.69	0.63	0.59	0.56		
765	WAGON, BOTTOM & REAR DUMP	1.03	1.01	1.00	0.99	0.97	0.89	0.79	0.69	0.63	0.59	0.56		
780	WAGON, WATER	1.03	1.01	1.00	0.99	0.97	0.89	0.79	0.69	0.64	0.59	0.57		
785	WATER BLASTER	1.04	1.02	1.00	0.99	0.96	0.89							
795	WATER TANKS	1.03	1.01	1.00	0.99	0.96	0.90	0.82	0.73	0.66	0.61	0.57		
810	WELDERS	1.04	1.02	1.00	0.99	0.96	0.90	0.81						
811	WELDERS ELECTRIC POWER	1.04	1.02	1.00	0.99	0.96	0.90	0.81						



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 wheel loader 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 = 10,000 Hrs.) can be determined as follows:

Total Hourly Rate (adjusted for age)	= \$47.75/Hr.
Ownership Rate (adjusted for age)	(-) \$17.75/Hr.
Ownership Adjusted for Work Hours (Ownership Rate) x (Work Hr Adj. Factor)	
= (\$17.75) x (.88)	= (+) \$15.62/Hr.
Adjusted Total Hourly Rate	= <u>\$45.62/Hr.</u>

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	0.97	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.86
6,000	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
8,000	1.00	0.97	0.95	0.92	0.90	0.88	0.86	0.85	0.83	0.81	0.80	0.79	0.78
9,000	1.00	0.96	0.94	0.91	0.89	0.87	0.85	0.83	0.82	0.80	0.79	0.78	0.76
10,000	1.00	0.96	0.94	0.91	0.88	0.86	0.84	0.82	0.80	0.79	0.77	0.76	0.75
11,000	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
12,000	1.00	0.96	0.93	0.90	0.87	0.84	0.83	0.80	0.78	0.76	0.75	0.74	0.72
13,000	1.00	0.95	0.93	0.89	0.86	0.84	0.82	0.79	0.77	0.75	0.74	0.73	0.71
14,000	1.00	0.95	0.93	0.89	0.86	0.83	0.81	0.79	0.76	0.74	0.73	0.71	0.69
15,000	1.00	0.95	0.93	0.88	0.85	0.82	0.80	0.78	0.75	0.73	0.72	0.70	0.68
16,000	1.00	0.95	0.92	0.88	0.85	0.82	0.80	0.77	0.74	0.72	0.71	0.69	0.67
18,000	1.00	0.95	0.92	0.87	0.84	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65
20,000	1.00	0.94	0.91	0.87	0.83	0.80	0.77	0.74	0.71	0.69	0.67	0.66	0.63
22,000	1.00	0.94	0.91	0.86	0.82	0.79	0.76	0.73	0.70	0.68	0.66	0.64	0.62
50,000	1.00	0.92	0.88	0.81	0.76	0.72	0.68	0.64	0.60	0.57	0.54	0.52	0.49

TABLE 3-5. HOURLY RATE ELEMENT

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
1015	4.87	2.80	10.51	2.52	0.25	0.04	5.85	26.84							
1020	5.43	3.11	4.45	1.07	0.25	0.04	6.52	20.87							
1035	0.81	0.58	3.70	1.18	0.03	0.00	1.13	7.43							
1040	0.98	0.69	1.33	0.37	0.03	0.00	1.37	4.77							
1045	1.00	0.70	5.17	1.66	0.03	0.00	1.39	9.95							
1050	1.06	0.75	2.05	0.58	0.03	0.00	1.48	5.95							
1055	1.09	0.77	5.17	1.66	0.03	0.00	1.52	10.24							
1060	1.24	0.87	2.18	0.61	0.03	0.00	1.72	6.65							
1065	1.13	0.79	5.17	1.66	0.03	0.00	1.57	10.35							
1070	1.33	0.93	2.78	0.78	0.03	0.00	1.84	7.69							
1075	2.01	1.40	3.54	0.99	0.03	0.00	2.78	10.75							
1080	2.44	1.76	4.91	1.38	0.16	0.02	3.41	14.08							
1085	3.16	2.26	6.12	1.71	0.16	0.02	4.41	17.84							
1090	3.78	2.70	7.57	2.12	0.19	0.03	5.28	21.67							
1095	4.43	3.15	9.18	2.57	0.19	0.03	6.17	25.72							
1100	5.03	3.56	10.47	2.93	0.19	0.03	7.00	29.21							
1105	5.53	3.91	10.88	3.05	0.19	0.03	7.69	31.28							
1110	6.23	4.40	11.84	3.32	0.19	0.03	8.66	34.67							
1115	7.43	5.23	16.11	4.51	0.19	0.03	10.31	43.81							
1120	8.38	5.90	18.37	5.14	0.23	0.03	11.64	49.69							
1135	0.32	0.08	0.00	0.07	0.00	0.00	0.83	1.30							
1140	0.59	0.15	0.00	0.07	0.00	0.00	1.51	2.32							
1145	0.60	0.15	0.00	0.07	0.00	0.00	1.53	2.35							
1150	0.66	0.16	0.00	0.14	0.00	0.00	1.69	2.65							
1155	0.89	0.22	0.00	0.14	0.00	0.00	2.27	3.52							
1160	2.51	0.64	0.00	0.30	0.06	0.01	6.48	10.00							
1165	3.02	0.80	0.00	0.44	0.15	0.02	7.87	12.30							
1170	3.73	0.98	0.00	0.55	0.15	0.02	9.67	15.10							
1180	0.19	0.05	0.00	0.07	0.00	0.00	0.49	0.80							
1185	0.42	0.10	0.00	0.12	0.00	0.00	1.07	1.71							
1190	0.20	0.05	0.00	0.07	0.00	0.00	0.51	0.83							
1195	0.21	0.05	0.00	0.07	0.00	0.00	0.54	0.87							
1200	0.23	0.06	0.00	0.07	0.00	0.00	0.59	0.95							
1205	0.76	0.19	0.00	0.14	0.00	0.00	1.95	3.04							
1215	0.41	0.10	0.00	0.16	0.00	0.00	1.75	2.42							
1220	0.27	0.07	0.00	0.14	0.00	0.00	1.13	1.61							
1225	0.24	0.06	0.00	0.11	0.00	0.00	1.02	1.43							
1230	0.22	0.05	0.00	0.09	0.00	0.00	0.92	1.28							
1235	0.17	0.04	0.00	0.07	0.00	0.00	0.73	1.01							
1245	2.72	1.52	3.33	1.06	0.00	0.00	3.94	12.57							
1250	2.79	1.56	3.33	1.06	0.00	0.00	4.04	12.73							
1255	3.00	1.68	3.33	1.06	0.00	0.00	4.35	13.42							
1260	3.38	1.90	3.33	1.06	0.00	0.00	4.91	14.58							
1270	7.60	4.36	2.82	0.79	0.40	0.06	11.74	27.77							
1275	12.43	7.18	3.83	1.07	0.90	0.13	19.22	44.76							
1280	13.91	8.01	5.24	1.47	0.89	0.13	21.49	51.14							
1285	16.87	9.46	5.24	1.47	0.00	0.00	25.92	58.96							
1295	4.08	2.38	1.21	0.34	0.39	0.06	6.32	14.73							
1300	6.77	3.89	1.77	0.50	0.39	0.06	10.45	23.83							
1305	9.10	5.24	2.26	0.63	0.57	0.09	14.06	31.95							
1310	10.94	6.35	3.83	1.07	0.90	0.13	16.94	40.16							
1315	12.98	7.54	3.71	1.04	1.09	0.16	20.10	46.62							
1320	16.69	9.72	5.96	1.67	1.52	0.23	25.85	61.54							
1325	12.48	7.00	3.63	1.02	0.00	0.00	19.18	43.31							
1330	14.99	8.40	5.03	1.41	0.00	0.00	23.03	52.86							

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
1340	0.41	0.19	0.00	1.10	0.02	0.00	0.55	2.27								
1345	0.48	0.23	0.00	1.22	0.02	0.00	0.65	2.60								
1355	1.12	0.51	0.59	1.94	0.03	0.00	1.49	5.68								
1365	0.55	0.34	0.00	0.20	0.02	0.00	0.78	1.89								
1370	0.71	0.44	2.22	0.53	0.02	0.00	1.01	4.93								
1375	0.27	0.17	0.00	0.20	0.00	0.00	0.38	1.02								
1380	0.48	0.29	0.00	0.13	0.00	0.00	0.68	1.58								
1390	1.06	0.59	7.73	2.47	0.00	0.00	1.59	13.44								
1395	1.14	0.65	7.73	2.47	0.05	0.01	1.71	13.76								
1405	0.99	0.50	0.00	0.00	0.00	0.00	1.09	2.58	1.24	0.51	0.00	0.00	0.00	0.00	1.56	3.31
1410	1.07	0.54	0.00	0.00	0.00	0.00	1.18	2.79	1.33	0.55	0.00	0.00	0.00	0.00	1.68	3.56
1415	1.55	0.78	0.00	0.00	0.00	0.00	1.71	4.04	1.94	0.80	0.00	0.00	0.00	0.00	2.44	5.18
1420	1.81	0.91	0.00	0.00	0.00	0.00	2.00	4.72	2.27	0.93	0.00	0.00	0.00	0.00	2.86	6.06
1425	2.34	1.18	0.00	0.00	0.00	0.00	2.58	6.10	2.92	1.20	0.00	0.00	0.00	0.00	3.68	7.80
1430	2.49	1.26	0.00	0.00	0.00	0.00	2.74	6.49	3.11	1.28	0.00	0.00	0.00	0.00	3.92	8.31
1435	2.71	1.37	0.00	0.00	0.00	0.00	2.99	7.07	3.39	1.39	0.00	0.00	0.00	0.00	4.27	9.05
1440	3.01	1.52	0.00	0.00	0.00	0.00	3.31	7.84	3.76	1.54	0.00	0.00	0.00	0.00	4.73	10.03
1445	3.27	1.65	0.00	0.00	0.00	0.00	3.60	8.52	4.09	1.68	0.00	0.00	0.00	0.00	5.15	10.92
1450	3.50	1.76	0.00	0.00	0.00	0.00	3.85	9.11	4.37	1.80	0.00	0.00	0.00	0.00	5.50	11.67
1455	3.86	1.95	0.00	0.00	0.00	0.00	4.26	10.07	4.83	1.99	0.00	0.00	0.00	0.00	6.08	12.90
1460	4.03	2.03	0.00	0.00	0.00	0.00	4.44	10.50	5.03	2.07	0.00	0.00	0.00	0.00	6.34	13.44
1465	4.15	2.09	0.00	0.00	0.00	0.00	4.58	10.82	5.19	2.13	0.00	0.00	0.00	0.00	6.54	13.86
1470	4.37	2.20	0.00	0.00	0.00	0.00	4.81	11.38	5.46	2.25	0.00	0.00	0.00	0.00	6.88	14.59
1475	4.54	2.29	0.00	0.00	0.00	0.00	5.01	11.84	5.68	2.34	0.00	0.00	0.00	0.00	7.15	15.17
1485	0.94	0.47	0.00	0.00	0.00	0.00	1.04	2.45	1.17	0.48	0.00	0.00	0.00	0.00	1.48	3.13
1490	1.31	0.66	0.00	0.00	0.00	0.00	1.44	3.41	1.64	0.67	0.00	0.00	0.00	0.00	2.06	4.37
1495	1.93	0.97	0.00	0.00	0.00	0.00	2.12	5.02	2.41	0.99	0.00	0.00	0.00	0.00	3.03	6.43
1500	2.09	1.05	0.00	0.00	0.00	0.00	2.30	5.44	2.61	1.07	0.00	0.00	0.00	0.00	3.29	6.97
1505	2.63	1.33	0.00	0.00	0.00	0.00	2.90	6.86	3.29	1.35	0.00	0.00	0.00	0.00	4.14	8.78
1510	2.90	1.46	0.00	0.00	0.00	0.00	3.19	7.55	3.62	1.49	0.00	0.00	0.00	0.00	4.56	9.67
1515	3.32	1.67	0.00	0.00	0.00	0.00	3.66	8.65	4.15	1.71	0.00	0.00	0.00	0.00	5.23	11.09
1520	3.59	1.81	0.00	0.00	0.00	0.00	3.95	9.35	4.48	1.84	0.00	0.00	0.00	0.00	5.65	11.97
1525	3.87	1.95	0.00	0.00	0.00	0.00	4.26	10.08	4.83	1.99	0.00	0.00	0.00	0.00	6.09	12.91
1530	4.16	2.10	0.00	0.00	0.00	0.00	4.58	10.84	5.20	2.14	0.00	0.00	0.00	0.00	6.54	13.88
1535	4.40	2.22	0.00	0.00	0.00	0.00	4.85	11.47	5.50	2.26	0.00	0.00	0.00	0.00	6.93	14.69
1540	4.63	2.34	0.00	0.00	0.00	0.00	5.11	12.08	5.79	2.38	0.00	0.00	0.00	0.00	7.29	15.46
1545	4.89	2.47	0.00	0.00	0.00	0.00	5.39	12.75	6.12	2.52	0.00	0.00	0.00	0.00	7.71	16.35
1550	5.11	2.58	0.00	0.00	0.00	0.00	5.64	13.33	6.39	2.63	0.00	0.00	0.00	0.00	8.05	17.07
1555	5.33	2.69	0.00	0.00	0.00	0.00	5.87	13.89	6.66	2.74	0.00	0.00	0.00	0.00	8.39	17.79
1565	1.48	0.75	0.00	0.00	0.00	0.00	1.63	3.86	1.85	0.76	0.00	0.00	0.00	0.00	2.33	4.94
1570	1.52	0.77	0.00	0.00	0.00	0.00	1.68	3.97	1.90	0.78	0.00	0.00	0.00	0.00	2.40	5.08
1575	2.20	1.11	0.00	0.00	0.00	0.00	2.43	5.74	2.75	1.13	0.00	0.00	0.00	0.00	3.47	7.35
1580	2.71	1.37	0.00	0.00	0.00	0.00	2.99	7.07	3.39	1.39	0.00	0.00	0.00	0.00	4.27	9.05
1585	3.06	1.54	0.00	0.00	0.00	0.00	3.37	7.97	3.83	1.57	0.00	0.00	0.00	0.00	4.82	10.22
1590	3.34	1.68	0.00	0.00	0.00	0.00	3.68	8.70	4.18	1.72	0.00	0.00	0.00	0.00	5.26	11.16
1595	3.62	1.82	0.00	0.00	0.00	0.00	3.98	9.42	4.52	1.86	0.00	0.00	0.00	0.00	5.69	12.07
1600	3.85	1.94	0.00	0.00	0.00	0.00	4.24	10.03	4.81	1.98	0.00	0.00	0.00	0.00	6.06	12.85
1605	4.02	2.03	0.00	0.00	0.00	0.00	4.43	10.48	5.03	2.07	0.00	0.00	0.00	0.00	6.33	13.43
1610	4.37	2.20	0.00	0.00	0.00	0.00	4.82	11.39	5.46	2.25	0.00	0.00	0.00	0.00	6.88	14.59
1615	4.65	2.35	0.00	0.00	0.00	0.00	5.13	12.13	5.81	2.39	0.00	0.00	0.00	0.00	7.32	15.52
1620	4.91	2.47	0.00	0.00	0.00	0.00	5.41	12.79	6.13	2.52	0.00	0.00	0.00	0.00	7.72	16.37
1625	5.19	2.62	0.00	0.00	0.00	0.00	5.72	13.53	6.49	2.67	0.00	0.00	0.00	0.00	8.17	17.33
1630	5.40	2.72	0.00	0.00	0.00	0.00	5.95	14.07	6.75	2.78	0.00	0.00	0.00	0.00	8.50	18.03
1635	5.68	2.86	0.00	0.00	0.00	0.00	6.25	14.79	7.09	2.92	0.00	0.00	0.00	0.00	8.94	18.95
1645	0.14	0.08	0.00	0.00	0.00	0.00	0.17	0.39								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIKE	TIKE	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIKE	TIKE	REPR	TOTAL RATE
					WEAR	RPR										
1650	0.18	0.10	0.00	0.00	0.00	0.00	0.21	0.49								
1655	0.23	0.13	0.00	0.00	0.00	0.00	0.27	0.63								
1660	0.33	0.18	0.00	0.00	0.00	0.00	0.39	0.90								
1665	0.41	0.23	0.00	0.00	0.00	0.00	0.49	1.13								
1675	0.57	0.32	0.00	0.00	0.00	0.00	0.67	1.56								
1680	0.60	0.33	0.00	0.00	0.00	0.00	0.70	1.63								
1685	0.62	0.35	0.00	0.00	0.00	0.00	0.73	1.70								
1690	0.84	0.47	0.00	0.00	0.00	0.00	0.99	2.30								
1695	0.89	0.50	0.00	0.00	0.00	0.00	1.05	2.44								
1700	1.28	0.71	0.00	0.00	0.00	0.00	1.51	3.50								
1705	1.52	0.85	0.00	0.00	0.00	0.00	1.79	4.16								
1715	0.66	0.37	0.00	0.00	0.00	0.00	0.77	1.80								
1720	0.74	0.41	0.00	0.00	0.00	0.00	0.86	2.01								
1725	0.86	0.48	0.00	0.00	0.00	0.00	1.01	2.35								
1730	0.97	0.54	0.00	0.00	0.00	0.00	1.14	2.65								
1735	1.14	0.63	0.00	0.00	0.00	0.00	1.34	3.11								
1750	0.34	0.17	0.00	0.00	0.00	0.00	0.37	0.88	0.42	0.17	0.00	0.00	0.00	0.53	1.12	
1755	0.40	0.20	0.00	0.00	0.00	0.00	0.44	1.04	0.50	0.21	0.00	0.00	0.00	0.63	1.34	
1760	0.50	0.25	0.00	0.00	0.00	0.00	0.55	1.30	0.62	0.26	0.00	0.00	0.00	0.78	1.66	
1765	0.59	0.30	0.00	0.00	0.00	0.00	0.65	1.54	0.74	0.30	0.00	0.00	0.00	0.93	1.97	
1770	0.69	0.35	0.00	0.00	0.00	0.00	0.76	1.80	0.87	0.36	0.00	0.00	0.00	1.09	2.32	
1775	0.86	0.43	0.00	0.00	0.00	0.00	0.94	2.23	1.07	0.44	0.00	0.00	0.00	1.35	2.86	
1780	0.94	0.48	0.00	0.00	0.00	0.00	1.04	2.46	1.18	0.49	0.00	0.00	0.00	1.49	3.16	
1785	1.16	0.58	0.00	0.00	0.00	0.00	1.28	3.02	1.45	0.60	0.00	0.00	0.00	1.82	3.87	
1790	1.23	0.62	0.00	0.00	0.00	0.00	1.36	3.21	1.54	0.63	0.00	0.00	0.00	1.94	4.11	
1795	1.49	0.75	0.00	0.00	0.00	0.00	1.64	3.88	1.86	0.77	0.00	0.00	0.00	2.34	4.97	
1800	1.61	0.81	0.00	0.00	0.00	0.00	1.77	4.19	2.01	0.83	0.00	0.00	0.00	2.53	5.37	
1805	1.77	0.89	0.00	0.00	0.00	0.00	1.95	4.61	2.21	0.91	0.00	0.00	0.00	2.78	5.90	
1810	1.96	0.99	0.00	0.00	0.00	0.00	2.16	5.11	2.45	1.01	0.00	0.00	0.00	3.08	6.54	
1815	2.26	1.14	0.00	0.00	0.00	0.00	2.49	5.89	2.82	1.16	0.00	0.00	0.00	3.55	7.53	
1820	2.45	1.24	0.00	0.00	0.00	0.00	2.70	6.39	3.07	1.26	0.00	0.00	0.00	3.86	8.19	
1825	3.00	1.51	0.00	0.00	0.00	0.00	3.31	7.82	3.76	1.54	0.00	0.00	0.00	4.73	10.03	
1830	3.45	1.74	0.00	0.00	0.00	0.00	3.81	9.00	4.32	1.78	0.00	0.00	0.00	5.44	11.54	
1840	0.39	0.20	0.00	0.00	0.00	0.00	0.43	1.02	0.49	0.20	0.00	0.00	0.00	0.62	1.31	
1845	0.48	0.24	0.00	0.00	0.00	0.00	0.53	1.25	0.60	0.25	0.00	0.00	0.00	0.75	1.60	
1850	0.60	0.30	0.00	0.00	0.00	0.00	0.66	1.56	0.75	0.31	0.00	0.00	0.00	0.94	2.00	
1855	0.72	0.36	0.00	0.00	0.00	0.00	0.79	1.87	0.90	0.37	0.00	0.00	0.00	1.13	2.40	
1860	0.83	0.42	0.00	0.00	0.00	0.00	0.91	2.16	1.04	0.43	0.00	0.00	0.00	1.31	2.78	
1865	0.99	0.50	0.00	0.00	0.00	0.00	1.09	2.58	1.24	0.51	0.00	0.00	0.00	1.56	3.31	
1870	1.09	0.55	0.00	0.00	0.00	0.00	1.21	2.85	1.37	0.56	0.00	0.00	0.00	1.72	3.65	
1875	1.33	0.67	0.00	0.00	0.00	0.00	1.46	3.46	1.66	0.68	0.00	0.00	0.00	2.09	4.43	
1880	1.41	0.71	0.00	0.00	0.00	0.00	1.55	3.67	1.76	0.73	0.00	0.00	0.00	2.22	4.71	
1885	1.81	0.91	0.00	0.00	0.00	0.00	1.99	4.71	2.26	0.93	0.00	0.00	0.00	2.85	6.04	
1890	1.87	0.94	0.00	0.00	0.00	0.00	2.06	4.87	2.34	0.96	0.00	0.00	0.00	2.94	6.24	
1895	2.14	1.08	0.00	0.00	0.00	0.00	2.36	5.58	2.67	1.10	0.00	0.00	0.00	3.37	7.14	
1900	2.35	1.19	0.00	0.00	0.00	0.00	2.59	6.13	2.94	1.21	0.00	0.00	0.00	3.70	7.85	
1905	2.82	1.42	0.00	0.00	0.00	0.00	3.11	7.35	3.53	1.45	0.00	0.00	0.00	4.45	9.43	
1910	3.01	1.52	0.00	0.00	0.00	0.00	3.31	7.84	3.76	1.55	0.00	0.00	0.00	4.73	10.04	
1915	3.83	1.93	0.00	0.00	0.00	0.00	4.22	9.98	4.79	1.97	0.00	0.00	0.00	6.03	12.79	
1920	4.27	2.15	0.00	0.00	0.00	0.00	4.70	11.12	5.33	2.19	0.00	0.00	0.00	6.72	14.24	
1930	1.57	0.79	0.00	0.00	0.00	0.00	1.73	4.09	1.96	0.81	0.00	0.00	0.00	2.47	5.24	
1935	1.63	0.82	0.00	0.00	0.00	0.00	1.80	4.25	2.04	0.84	0.00	0.00	0.00	2.57	5.45	
1940	1.83	0.92	0.00	0.00	0.00	0.00	2.02	4.77	2.29	0.94	0.00	0.00	0.00	2.88	6.11	
1945	2.45	1.24	0.00	0.00	0.00	0.00	2.70	6.39	3.06	1.26	0.00	0.00	0.00	3.86	8.18	
1950	2.74	1.38	0.00	0.00	0.00	0.00	3.02	7.14	3.42	1.41	0.00	0.00	0.00	4.31	9.14	

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
1955	2.83	1.43	0.00	0.00	0.00	0.00	3.12	7.38	3.53	1.45	0.00	0.00	0.00	0.00	4.45	9.43
1960	3.03	1.53	0.00	0.00	0.00	0.00	3.34	7.90	3.79	1.56	0.00	0.00	0.00	0.00	4.77	10.12
1965	3.85	1.94	0.00	0.00	0.00	0.00	4.25	10.04	4.82	1.98	0.00	0.00	0.00	0.00	6.07	12.87
1970	3.96	2.00	0.00	0.00	0.00	0.00	4.37	10.33	4.96	2.04	0.00	0.00	0.00	0.00	6.24	13.24
1975	5.05	2.55	0.00	0.00	0.00	0.00	5.57	13.17	6.32	2.60	0.00	0.00	0.00	0.00	7.95	16.87
1980	5.18	2.61	0.00	0.00	0.00	0.00	5.71	13.50	6.48	2.66	0.00	0.00	0.00	0.00	8.16	17.30
1985	6.16	3.11	0.00	0.00	0.00	0.00	6.79	16.06	7.70	3.17	0.00	0.00	0.00	0.00	9.70	20.57
1990	6.40	3.23	0.00	0.00	0.00	0.00	7.06	16.69	8.00	3.29	0.00	0.00	0.00	0.00	10.08	21.37
2000	0.89	0.45	0.00	0.00	0.00	0.00	0.98	2.32	1.12	0.46	0.00	0.00	0.00	0.00	1.41	2.99
2005	1.15	0.58	0.00	0.00	0.00	0.00	1.26	2.99	1.43	0.59	0.00	0.00	0.00	0.00	1.80	3.82
2010	1.56	0.79	0.00	0.00	0.00	0.00	1.72	4.07	1.96	0.80	0.00	0.00	0.00	0.00	2.46	5.22
2015	2.08	1.05	0.00	0.00	0.00	0.00	2.29	5.42	2.59	1.07	0.00	0.00	0.00	0.00	3.27	6.93
2020	3.09	1.56	0.00	0.00	0.00	0.00	3.41	8.06	3.87	1.59	0.00	0.00	0.00	0.00	4.87	10.33
2025	3.53	1.78	0.00	0.00	0.00	0.00	3.89	9.20	4.41	1.82	0.00	0.00	0.00	0.00	5.56	11.79
2030	4.27	2.16	0.00	0.00	0.00	0.00	4.71	11.14	5.34	2.20	0.00	0.00	0.00	0.00	6.73	14.27
2035	5.21	2.62	0.00	0.00	0.00	0.00	5.74	13.57	6.51	2.68	0.00	0.00	0.00	0.00	8.20	17.39
2040	6.31	3.18	0.00	0.00	0.00	0.00	6.96	16.45	7.89	3.25	0.00	0.00	0.00	0.00	9.94	21.08
2045	7.34	3.70	0.00	0.00	0.00	0.00	8.09	19.13	9.18	3.78	0.00	0.00	0.00	0.00	11.56	24.52
2055	0.23	0.08	0.31	0.07	0.00	0.00	0.48	1.17								
2060	0.23	0.08	0.31	0.07	0.00	0.00	0.48	1.17								
2065	0.42	0.15	0.41	0.10	0.00	0.00	0.87	1.95								
2070	0.33	0.12	0.51	0.12	0.00	0.00	0.68	1.76								
2075	0.42	0.15	0.61	0.15	0.00	0.00	0.87	2.20								
2080	0.19	0.07	0.41	0.10	0.00	0.00	0.38	1.15								
2085	0.27	0.09	0.71	0.17	0.00	0.00	0.54	1.78								
2090	0.26	0.09	0.41	0.10	0.00	0.00	0.53	1.39								
2095	0.32	0.11	0.41	0.10	0.00	0.00	0.67	1.61								
2100	0.24	0.08	0.41	0.10	0.00	0.00	0.49	1.32								
2105	0.44	0.16	0.28	0.07	0.00	0.00	0.91	1.86								
2110	0.80	0.28	0.28	0.07	0.00	0.00	1.64	3.07								
2115	1.19	0.42	0.39	0.09	0.00	0.00	2.44	4.53								
2120	1.03	0.36	0.28	0.07	0.00	0.00	2.12	3.86								
2125	1.28	0.45	0.22	0.05	0.00	0.00	2.62	4.62								
2130	1.78	0.63	0.45	0.11	0.00	0.00	3.66	6.63								
2135	2.27	0.80	0.73	0.18	0.00	0.00	4.65	8.63								
2140	0.49	0.17	0.92	0.22	0.00	0.00	1.01	2.81								
2145	0.51	0.18	0.39	0.09	0.00	0.00	1.05	2.22								
2150	1.71	0.60	0.62	0.15	0.00	0.00	3.50	6.58								
2155	1.58	0.56	0.45	0.11	0.00	0.00	3.25	5.95								
2160	1.78	0.63	0.45	0.11	0.00	0.00	3.66	6.63								
2170	0.26	0.09	0.40	0.13	0.00	0.00	0.34	1.22								
2180	0.21	0.07	0.56	0.18	0.00	0.00	0.28	1.30								
2185	0.82	0.29	1.27	0.41	0.00	0.00	1.09	3.88								
2190	1.06	0.37	1.27	0.41	0.00	0.00	1.41	4.52								
2200	0.08	0.04	0.04	0.02	0.02	0.00	0.11	0.31								
2205	0.09	0.04	0.04	0.02	0.02	0.00	0.12	0.33								
2210	0.29	0.11	0.56	0.18	0.02	0.00	0.39	1.55								
2215	0.23	0.09	0.56	0.18	0.02	0.00	0.31	1.39								
2225	11.37	6.38	5.72	1.60	0.00	0.00	17.48	42.55								
2230	19.77	11.08	8.38	2.35	0.00	0.00	30.37	71.95								
2235	34.75	19.48	10.07	2.82	0.00	0.00	53.39	120.51								
2245	2.39	1.35	4.80	1.54	0.04	0.01	3.68	13.81								
2250	10.72	6.01	4.03	1.13	0.00	0.00	16.47	38.36								
2260	2.82	1.18	0.71	0.20	0.08	0.01	3.96	8.96								
2265	3.25	1.36	1.19	0.33	0.08	0.01	4.57	10.79								

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
2270	0.90	0.38	0.00	0.21	0.04	0.01	1.27	2.81								
2275	1.79	0.75	0.00	0.34	0.04	0.01	2.52	5.45								
2285	5.10	2.10	3.68	1.03	0.02	0.00	7.15	19.08								
2295	6.03	2.48	6.53	1.83	0.03	0.00	8.46	25.36								
2300	16.47	6.82	13.52	3.79	0.30	0.05	23.12	64.07								
2310	5.16	2.12	3.98	1.11	0.03	0.00	7.24	19.64								
2315	7.98	3.32	9.02	2.53	0.16	0.02	11.21	34.24								
2320	8.19	3.40	9.02	2.53	0.16	0.02	11.51	34.83								
2325	10.94	4.51	10.51	2.94	0.08	0.01	15.35	44.34								
2330	14.02	5.77	17.81	4.99	0.08	0.01	19.67	62.35								
2335	16.66	6.98	11.27	3.16	0.72	0.11	23.43	62.33								
2340	23.91	9.96	11.27	3.16	0.75	0.11	33.59	82.75								
2345	29.34	12.25	15.39	4.31	1.02	0.15	41.24	103.70								
2355	0.18	0.08	0.82	0.26	0.00	0.00	0.27	1.61								
2360	0.22	0.10	1.22	0.39	0.00	0.00	0.33	2.26								
2365	0.22	0.10	1.43	0.46	0.00	0.00	0.33	2.54								
2370	0.49	0.22	1.43	0.46	0.00	0.00	0.73	3.33								
2375	0.62	0.28	1.83	0.59	0.00	0.00	0.92	4.24								
2380	0.70	0.32	3.06	0.98	0.00	0.00	1.04	6.10								
2385	1.03	0.46	3.57	1.14	0.00	0.00	1.53	7.73								
2390	1.37	0.62	6.62	2.12	0.00	0.00	2.05	12.78								
2400	14.30	9.42	2.96	0.95	0.00	0.00	16.63	44.26	17.15	9.53	3.75	1.20	0.00	0.00	22.81	54.44
2405	15.81	12.86	3.63	0.73	0.00	0.00	21.01	54.04	18.24	12.96	4.59	0.92	0.00	0.00	27.28	63.99
2410	15.90	12.94	2.90	0.58	0.00	0.00	17.17	49.49	18.34	13.03	3.75	0.75	0.00	0.00	21.34	57.21
2420	17.37	14.14	2.90	0.58	0.00	0.00	18.76	53.75	20.04	14.24	3.75	0.75	0.00	0.00	23.31	62.09
2430	18.16	14.79	3.18	0.64	0.00	0.00	19.62	56.39	20.96	14.89	4.11	0.82	0.00	0.00	24.38	65.16
2440	21.70	17.66	5.34	1.07	0.00	0.00	28.84	74.61	25.03	17.79	6.77	1.35	0.00	0.00	37.44	88.38
2445	21.24	17.29	4.27	0.85	0.00	0.00	22.95	66.60	24.51	17.42	5.52	1.10	0.00	0.00	28.51	77.06
2455	18.79	18.21	4.27	0.94	0.00	0.00	23.42	65.63	21.14	18.30	5.52	1.21	0.00	0.00	28.11	74.28
2465	23.07	22.36	4.27	0.94	0.00	0.00	28.76	79.40	25.96	22.47	5.52	1.21	0.00	0.00	34.51	89.67
2475	31.56	30.58	7.30	1.61	0.00	0.00	39.34	110.39	35.50	30.73	9.43	2.07	0.00	0.00	47.20	124.93
2485	33.06	32.03	7.30	1.61	0.00	0.00	41.21	115.21	37.19	32.19	9.43	2.07	0.00	0.00	49.45	130.33
2490	31.80	30.82	9.13	2.01	0.00	0.00	47.57	121.33	35.78	30.97	11.56	2.54	0.00	0.00	59.46	140.31
2500	35.79	34.68	7.30	1.61	0.00	0.00	44.61	123.99	40.26	34.85	9.43	2.07	0.00	0.00	53.53	140.14
2510	33.86	36.30	7.30	1.75	0.00	0.00	47.82	127.03	37.62	36.45	9.43	2.26	0.00	0.00	56.26	142.02
2520	35.64	38.22	7.30	1.75	0.00	0.00	50.35	133.26	39.60	38.37	9.43	2.26	0.00	0.00	59.23	148.89
2535	15.11	9.96	3.66	1.17	0.00	0.00	17.58	47.48	18.13	10.08	4.63	1.48	0.00	0.00	24.11	58.43
2540	12.35	10.05	2.93	0.59	0.00	0.00	13.34	39.26	14.25	10.13	3.78	0.76	0.00	0.00	16.58	45.50
2550	23.43	13.02	5.34	1.07	0.00	0.00	31.15	74.01	29.29	13.25	7.02	1.40	0.00	0.00	43.80	94.76
2555	17.35	14.12	4.58	0.92	0.00	0.00	23.07	60.04	20.02	14.23	5.80	1.16	0.00	0.00	29.94	71.15
2560	17.44	14.19	3.66	0.73	0.00	0.00	18.84	54.86	20.12	14.30	4.73	0.95	0.00	0.00	23.41	63.51
2570	33.37	18.54	6.60	1.32	0.00	0.00	44.36	104.19	41.71	18.87	8.68	1.74	0.00	0.00	62.39	133.39
2575	22.76	18.53	5.66	1.13	0.00	0.00	30.26	78.34	26.26	18.66	7.17	1.43	0.00	0.00	39.28	92.80
2585	39.76	26.20	7.61	1.67	0.00	0.00	59.46	134.70	47.71	26.51	10.00	2.20	0.00	0.00	79.28	165.70
2590	38.07	25.09	7.61	1.67	0.00	0.00	56.94	129.38	45.68	25.38	10.00	2.20	0.00	0.00	75.92	159.18
2595	26.16	25.35	6.52	1.43	0.00	0.00	39.13	98.59	29.44	25.48	8.26	1.82	0.00	0.00	48.92	113.92
2600	25.61	24.81	5.22	1.15	0.00	0.00	31.92	88.71	28.81	24.94	6.74	1.48	0.00	0.00	38.30	100.27
2610	32.27	31.27	6.18	1.36	0.00	0.00	40.22	111.30	36.30	31.43	7.98	1.76	0.00	0.00	48.27	125.74
2615	30.83	29.87	7.73	1.70	0.00	0.00	46.11	116.24	34.68	30.02	9.79	2.15	0.00	0.00	57.63	134.27
2625	47.89	31.56	9.13	2.01	0.00	0.00	71.63	162.22	57.47	31.93	11.99	2.64	0.00	0.00	95.51	199.54
2630	45.31	29.86	9.13	2.01	0.00	0.00	67.76	154.07	54.37	30.21	11.99	2.64	0.00	0.00	90.35	189.56
2635	28.62	27.73	7.82	1.72	0.00	0.00	42.81	108.70	32.20	27.87	9.91	2.18	0.00	0.00	53.51	125.67
2645	62.02	42.72	13.54	3.25	0.00	0.00	106.42	227.95	72.36	43.12	17.80	4.27	0.00	0.00	00135.44	272.99
2650	33.52	35.95	11.61	2.79	0.00	0.00	55.71	139.58	37.25	36.09	14.70	3.53	0.00	0.00	68.09	159.66
2665	12.07	9.83	2.80	0.56	0.00	0.00	13.04	38.30	13.93	9.90	3.61	0.72	0.00	0.00	16.21	44.37

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
2675	15.86	15.37	4.20	0.92	0.00	0.00	19.77	56.12	17.84	15.45	5.42	1.19	0.00	0.00	23.72	63.62
2685	21.73	21.05	4.35	0.96	0.00	0.00	27.08	75.17	24.44	21.16	5.62	1.24	0.00	0.00	32.50	84.96
2695	32.86	31.84	6.23	1.37	0.00	0.00	40.95	113.25	36.96	32.00	8.05	1.77	0.00	0.00	49.14	127.92
2710	22.79	22.09	9.13	2.01	0.00	0.00	34.09	90.11	25.64	22.20	11.56	2.54	0.00	0.00	42.61	104.55
2715	24.99	24.22	7.30	1.61	0.00	0.00	31.15	89.27	28.12	24.34	9.43	2.07	0.00	0.00	37.38	101.34
2730	29.54	28.62	7.63	1.68	0.00	0.00	36.82	104.29	33.23	28.77	9.86	2.17	0.00	0.00	44.18	118.21
2740	38.32	37.13	11.45	2.52	0.00	0.00	57.31	146.73	43.11	37.32	14.50	3.19	0.00	0.00	71.64	169.76
2745	36.99	39.67	9.16	2.20	0.00	0.00	52.26	140.28	41.10	39.83	11.83	2.84	0.00	0.00	61.48	157.08
2755	54.47	58.40	17.43	4.18	0.00	0.00	76.94	211.42	60.52	58.64	22.51	5.40	0.00	0.00	90.52	237.59
2760	53.89	57.78	21.78	5.23	0.00	0.00	89.55	228.23	59.87	58.02	27.59	6.62	0.00	0.00	109.45	261.55
2775	16.16	13.15	7.57	1.51	0.00	0.00	21.48	59.87	18.64	13.25	9.59	1.92	0.00	0.00	27.88	71.28
2780	15.98	13.01	6.05	1.21	0.00	0.00	17.26	53.51	18.44	13.10	7.82	1.56	0.00	0.00	21.45	62.37
2790	40.05	22.26	9.76	1.95	0.00	0.00	53.25	127.27	50.07	22.65	12.82	2.56	0.00	0.00	74.89	162.99
2795	22.99	18.71	8.36	1.67	0.00	0.00	30.56	82.29	26.53	18.85	10.59	2.12	0.00	0.00	39.67	97.76
2800	22.62	18.41	6.69	1.34	0.00	0.00	24.43	73.49	26.10	18.55	8.64	1.73	0.00	0.00	30.36	85.38
2810	21.81	21.13	9.87	2.13	0.00	0.00	32.61	87.35	24.53	21.24	12.25	2.69	0.00	0.00	40.77	101.48
2815	21.49	20.82	7.73	1.70	0.00	0.00	26.79	78.53	24.18	20.93	9.99	2.20	0.00	0.00	32.14	89.44
2825	54.07	35.63	13.28	2.92	0.00	0.00	80.87	186.77	64.88	36.05	17.46	3.84	0.00	0.00	107.83	230.06
2830	31.32	30.35	11.38	2.50	0.00	0.00	46.84	122.39	35.23	30.50	14.42	3.17	0.00	0.00	58.55	141.87
2835	32.59	31.58	9.11	2.00	0.00	0.00	40.62	115.90	36.66	31.74	11.76	2.59	0.00	0.00	48.74	131.49
2845	30.19	32.37	14.50	3.48	0.00	0.00	50.17	130.71	33.54	32.50	18.37	4.41	0.00	0.00	61.32	150.14
2850	35.33	34.23	11.60	2.55	0.00	0.00	44.03	127.74	39.74	34.40	14.98	3.30	0.00	0.00	52.84	145.26
2865	17.71	14.42	4.45	0.89	0.00	0.00	23.55	61.02	20.44	14.52	5.64	1.13	0.00	0.00	30.57	72.30
2870	15.25	14.78	3.56	0.78	0.00	0.00	19.01	53.38	17.16	14.85	4.60	1.01	0.00	0.00	22.81	60.43
2880	22.16	18.04	6.30	1.26	0.00	0.00	29.47	77.23	25.57	18.17	7.98	1.60	0.00	0.00	38.25	91.57
2885	19.22	18.62	5.04	1.11	0.00	0.00	23.95	67.94	21.62	18.71	6.51	1.43	0.00	0.00	28.74	77.01
2890	22.30	21.60	7.50	1.65	0.00	0.00	33.35	86.40	25.08	21.71	9.51	2.09	0.00	0.00	41.69	100.08
2895	23.52	22.79	6.00	1.32	0.00	0.00	29.32	82.95	26.46	22.90	7.75	1.71	0.00	0.00	35.18	94.00
2900	62.32	66.82	9.62	2.31	0.00	0.00	88.03	229.10	69.24	67.09	12.42	2.98	0.00	0.00	103.56	255.29
2910	6.27	5.12	4.51	1.35	1.03	0.15	6.90	25.33								
2915	6.73	5.48	4.63	1.39	1.03	0.15	7.40	26.81								
2920	7.39	6.06	4.63	1.39	1.36	0.20	8.13	29.16								
2925	8.11	6.64	4.63	1.39	1.40	0.21	8.92	31.30								
2930	10.81	8.81	6.28	1.89	1.23	0.18	11.88	41.08								
2935	14.81	12.20	6.85	2.05	2.98	0.45	16.31	55.65								
2940	17.50	14.50	6.85	2.05	3.92	0.59	19.29	64.70								
2945	21.74	17.88	8.38	2.51	4.22	0.63	23.93	79.29								
2950	27.82	23.05	9.26	2.78	6.20	0.93	30.66	100.70								
2955	52.52	43.47	20.62	6.19	11.51	1.73	57.88	193.92								
2965	6.45	5.24	4.59	1.38	0.97	0.15	7.09	25.87								
2970	6.80	5.52	4.87	1.46	0.97	0.15	7.47	27.24								
2975	10.43	8.55	7.25	2.18	1.90	0.29	11.47	42.07								
2985	6.98	5.67	5.03	1.51	1.05	0.16	7.67	28.07								
2990	7.60	6.16	5.03	1.51	1.05	0.16	8.35	29.86								
2995	8.07	6.52	5.16	1.55	1.05	0.16	8.86	31.37								
3000	8.11	6.55	5.16	1.55	1.05	0.16	8.90	31.48								
3005	9.94	8.05	6.24	1.87	1.34	0.20	10.91	38.55								
3010	10.24	8.28	6.24	1.87	1.34	0.20	11.24	39.41								
3015	10.59	8.56	6.24	1.87	1.34	0.20	11.63	40.43								
3020	13.87	11.46	8.14	2.44	2.98	0.45	15.28	54.62								
3025	14.28	11.86	8.14	2.44	3.33	0.50	15.75	56.30								
3030	14.84	12.30	8.14	2.44	3.33	0.50	16.35	57.90								
3035	19.08	15.79	9.47	2.84	4.22	0.63	21.02	73.05								
3045	5.71	4.57	4.75	1.43	0.50	0.07	6.26	23.29								
3050	5.79	4.65	4.75	1.43	0.60	0.09	6.34	23.65								

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	
3055	6.00	4.82	4.75	1.43	0.60	0.09	6.58	24.27								
3060	6.84	5.57	4.75	1.43	1.05	0.16	7.52	27.32								
3065	11.21	9.23	7.09	2.13	2.23	0.33	12.34	44.56								
3070	12.22	10.18	7.09	2.13	2.98	0.45	13.48	48.53								
3075	15.27	12.55	7.57	2.27	2.98	0.45	16.81	57.91								
3085	10.26	9.21	6.69	1.74	0.95	0.14	9.64	38.63	11.54	9.26	8.58	2.23	1.15	0.17	11.75	44.68
3090	17.79	15.86	9.58	2.49	1.24	0.19	16.70	63.85	20.01	15.95	12.36	3.21	1.51	0.23	20.35	73.62
3100	11.81	8.84	6.93	2.49	0.62	0.09	9.24	40.02	13.63	8.91	9.12	3.28	0.76	0.11	11.73	47.54
3105	11.84	10.64	8.18	2.13	1.17	0.17	11.13	45.26	13.32	10.70	10.76	2.80	1.43	0.21	13.57	52.79
3110	14.78	13.22	8.58	2.23	1.19	0.18	13.88	54.06	16.62	13.29	11.29	2.94	1.45	0.22	16.91	62.72
3115	19.38	19.48	9.74	2.53	3.05	0.46	21.29	75.93	21.53	19.57	12.55	3.26	3.77	0.57	25.34	86.59
3120	30.14	29.90	10.07	2.62	3.05	0.46	33.04	109.28	33.49	30.03	12.92	3.36	3.77	0.57	39.34	123.48
3125	30.18	36.43	15.48	4.02	3.50	0.53	40.35	130.49	33.20	36.55	19.97	5.19	4.33	0.65	47.16	147.05
3135	10.90	8.19	8.70	3.13	0.73	0.11	8.53	40.29	12.57	8.26	11.45	4.12	0.90	0.13	10.82	48.25
3140	10.31	9.20	8.70	2.26	0.73	0.11	9.68	40.99	11.60	9.25	11.45	2.98	0.90	0.13	11.80	48.11
3145	15.15	13.54	9.59	2.49	1.15	0.17	14.23	56.32	17.05	13.61	12.61	3.28	1.40	0.21	17.34	65.50
3155	11.67	8.74	8.46	3.05	0.65	0.10	9.13	41.80	13.47	8.81	11.13	4.01	0.79	0.12	11.59	49.92
3160	12.32	11.05	9.83	2.56	1.13	0.17	11.58	48.64	13.86	11.11	12.93	3.36	1.39	0.21	14.11	56.97
3165	13.34	11.94	9.59	2.49	1.13	0.17	12.53	51.19	15.00	12.01	12.61	3.28	1.39	0.21	15.27	59.77
3170	15.01	14.98	12.97	3.37	1.90	0.28	16.47	64.98	16.68	15.04	17.07	4.44	2.36	0.35	19.61	75.55
3180	20.32	18.27	6.27	1.63	2.03	0.30	19.10	67.92	22.86	18.37	8.01	2.08	2.51	0.38	23.28	77.49
3185	18.66	18.55	6.27	1.63	2.03	0.30	20.47	67.91	20.74	18.63	8.01	2.08	2.51	0.38	24.36	76.71
3190	23.07	22.81	10.17	2.64	2.03	0.30	25.27	86.29	25.63	22.91	13.14	3.42	2.51	0.38	30.09	98.08
3195	24.75	24.54	10.99	2.86	2.47	0.37	27.13	93.11	27.50	24.65	14.11	3.67	3.05	0.46	32.30	105.74
3200	30.43	36.44	13.21	3.43	2.47	0.37	40.61	126.96	33.47	36.56	17.02	4.43	3.05	0.46	47.46	142.45
3205	42.56	51.41	14.25	3.70	5.12	0.77	56.90	174.71	46.81	51.58	18.23	4.74	6.33	0.95	66.50	195.14
3215	17.71	15.98	6.07	1.58	2.03	0.30	16.65	60.32	19.92	16.07	7.75	2.01	2.51	0.38	20.30	68.94
3220	23.85	23.60	8.84	2.30	2.22	0.33	26.13	87.27	26.50	23.71	11.30	2.94	2.74	0.41	31.11	98.71
3225	23.91	28.77	9.08	2.36	2.47	0.37	31.94	98.90	26.30	28.87	11.62	3.02	3.05	0.46	37.33	110.65
3235	21.82	21.65	10.32	2.68	2.22	0.33	23.92	82.94	24.25	21.74	13.30	3.46	2.74	0.41	28.48	94.38
3240	22.69	27.38	10.86	2.82	2.54	0.38	30.34	97.01	24.96	27.47	13.99	3.64	3.10	0.46	35.46	109.08
3250	14.90	11.15	4.65	1.68	0.84	0.13	11.65	45.00	17.19	11.24	5.93	2.13	1.05	0.16	14.79	52.49
3255	13.84	12.34	4.91	1.28	0.98	0.15	13.00	46.50	15.57	12.41	6.25	1.62	1.21	0.18	15.84	53.08
3260	15.48	13.85	5.20	1.35	1.28	0.19	14.54	51.89	17.42	13.93	6.61	1.72	1.58	0.24	17.72	59.22
3265	19.84	17.85	7.07	1.84	2.03	0.30	18.65	67.58	22.32	17.95	9.05	2.35	2.51	0.38	22.73	77.29
3270	22.38	22.25	8.86	2.30	2.47	0.37	24.54	83.17	24.87	22.35	11.30	2.94	3.05	0.46	29.22	94.19
3275	25.08	30.15	10.87	2.83	2.47	0.37	33.50	105.27	27.59	30.25	13.95	3.63	3.05	0.46	39.15	118.08
3280	53.58	64.02	17.77	4.62	3.81	0.57	71.48	215.85	58.94	64.23	22.91	5.96	4.71	0.71	83.54	241.00
3290	11.36	13.65	3.24	7.20	0.00	0.00	17.38	52.83								
3295	0.52	0.63	0.00	0.00	0.00	0.00	0.80	1.95								
3300	1.89	2.27	0.00	0.00	0.00	0.00	2.89	7.05								
3305	14.25	17.11	5.67	8.41	0.00	0.00	21.80	67.24								
3310	0.52	0.63	0.00	0.00	0.00	0.00	0.80	1.95								
3315	1.89	2.27	0.00	0.00	0.00	0.00	2.89	7.05								
3320	17.47	20.98	5.67	8.41	0.00	0.00	26.72	79.25								
3325	0.67	0.81	0.00	0.00	0.00	0.00	1.03	2.51								
3330	2.02	2.43	0.00	0.00	0.00	0.00	3.09	7.54								
3335	20.27	24.34	8.91	10.03	0.00	0.00	31.00	94.55								
3340	0.73	0.87	0.00	0.00	0.00	0.00	1.11	2.71								
3345	3.71	4.45	0.00	0.00	0.00	0.00	5.87	13.83								
3350	21.57	25.90	8.91	10.03	0.00	0.00	33.00	99.41								
3355	0.67	0.81	0.00	0.00	0.00	0.00	1.03	2.51								
3360	3.83	4.60	0.00	0.00	0.00	0.00	5.86	14.29								
3370	6.08	3.36	0.00	0.87	0.00	0.00	8.90	19.21								
3375	5.77	3.18	0.00	0.87	0.00	0.00	8.44	18.26								

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
3380	6.32	3.49	0.00	0.87	0.00	0.00	9.26	19.94								
3385	7.57	4.18	0.00	0.92	0.00	0.00	11.08	23.75								
3390	8.60	4.75	0.00	0.98	0.00	0.00	12.60	26.93								
3400	6.82	3.76	0.00	0.87	0.00	0.00	9.98	21.43								
3405	7.41	4.09	0.00	0.92	0.00	0.00	10.85	23.27								
3410	10.24	5.65	4.98	1.20	0.00	0.00	14.99	37.06								
3420	3.36	1.86	0.00	0.55	0.00	0.00	4.92	10.69								
3425	5.93	3.27	0.00	0.88	0.00	0.00	8.69	18.77								
3430	7.03	3.88	0.00	0.88	0.00	0.00	10.30	22.09								
3435	8.71	4.80	0.00	0.99	0.00	0.00	12.74	27.24								
3440	18.35	10.13	8.22	1.97	0.00	0.00	26.86	65.53								
3450	1.50	0.83	0.00	0.34	0.00	0.00	2.20	4.87								
3455	0.95	0.53	0.00	0.34	0.00	0.00	1.40	3.22								
3460	0.14	0.08	0.00	0.27	0.00	0.00	0.21	0.70								
3470	2.57	1.42	2.19	0.53	0.00	0.00	3.76	10.47								
3475	1.78	0.98	1.00	0.24	0.00	0.00	2.61	6.61								
3485	1.44	0.79	1.09	0.17	0.00	0.00	2.11	5.60								
3490	2.21	1.22	2.81	0.45	0.00	0.00	3.24	9.93								
3495	2.63	1.45	1.99	0.48	0.00	0.00	3.84	10.39								
3500	3.01	1.66	2.69	0.65	0.00	0.00	4.41	12.42								
3505	3.63	2.00	2.99	0.72	0.00	0.00	5.31	14.65								
3515	1.52	0.84	1.63	0.26	0.00	0.00	2.22	6.47								
3520	2.35	1.30	2.44	0.59	0.00	0.00	3.44	10.12								
3530	13.91	11.25	10.46	3.98	0.00	0.00	20.37	59.97								
3535	17.97	14.75	15.15	5.76	1.53	0.23	26.39	81.78								
3540	16.71	13.68	21.67	8.24	1.08	0.16	24.53	86.07								
3550	18.42	15.10	18.24	6.93	1.37	0.21	27.04	87.31								
3555	26.69	21.92	16.69	6.34	2.19	0.33	39.21	113.37								
3560	30.25	24.80	17.44	6.63	2.19	0.33	44.41	126.05								
3565	22.53	18.21	20.43	7.76	0.00	0.00	32.98	101.91								
3570	26.14	21.13	20.43	7.76	0.00	0.00	38.27	113.73								
3575	27.10	28.86	26.11	8.35	0.00	0.00	39.67	130.09								
3580	49.60	52.82	54.75	27.37	0.00	0.00	36.31	220.85								
3600	1.44	0.82	0.97	0.44	0.06	0.01	1.68	5.42								
3605	1.44	0.82	0.97	0.44	0.07	0.01	1.69	5.44								
3610	1.56	0.89	0.97	0.44	0.09	0.01	1.82	5.78								
3615	2.13	1.21	1.73	0.78	0.10	0.01	2.48	8.44								
3620	2.18	1.24	1.73	0.78	0.10	0.02	2.54	8.59								
3625	2.42	1.37	2.54	1.14	0.10	0.02	2.83	10.42								
3630	2.95	1.68	2.86	1.29	0.15	0.02	3.45	12.40								
3635	3.11	1.76	2.86	1.29	0.13	0.02	3.63	12.80								
3640	3.32	1.87	2.86	1.29	0.09	0.01	3.87	13.31								
3645	1.37	0.77	2.74	0.66	0.03	0.01	1.59	7.17								
3650	1.76	1.02	3.55	0.85	0.13	0.02	2.07	9.40								
3655	1.76	1.04	3.55	0.85	0.24	0.04	2.07	9.55								
3660	2.49	1.43	4.66	1.12	0.16	0.02	2.91	12.79								
3665	2.53	1.45	4.66	1.12	0.16	0.02	2.96	12.90								
3670	2.63	1.51	4.66	1.12	0.16	0.02	3.08	13.18								
3675	3.78	2.17	2.66	0.64	0.25	0.04	4.42	13.96								
3680	4.08	2.34	2.82	0.68	0.25	0.04	4.77	14.98								
3685	5.29	3.09	5.03	1.21	0.55	0.08	6.21	21.46								
3690	5.78	3.36	5.03	1.21	0.55	0.08	6.78	22.79								
3695	5.99	3.48	5.03	1.21	0.55	0.08	7.03	23.37								
3700	6.87	3.90	5.03	1.21	0.72	0.11	7.83	25.47								
3705	2.43	1.41	2.74	0.66	0.23	0.04	2.84	10.35								

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	REPR	TOTAL RATE
3710	2.49	1.45	2.74	0.66	0.23	0.04	2.92	10.53								
3715	3.02	1.74	2.74	0.66	0.23	0.04	3.54	11.97								
3720	3.05	1.81	2.74	0.66	0.43	0.06	3.60	12.35								
3730	1.39	0.81	4.66	1.12	0.16	0.02	1.63	9.79								
3735	2.05	1.18	5.91	1.42	0.17	0.03	2.40	13.16								
3740	4.06	2.31	8.57	2.06	0.20	0.03	4.74	21.97								
3745	5.43	3.17	9.39	2.25	0.56	0.08	6.37	27.25								
3750	6.30	3.65	9.39	2.25	0.56	0.08	7.39	29.62								
3755	6.34	3.70	9.39	2.25	0.65	0.10	7.44	29.87								
3760	6.81	3.93	9.39	2.25	0.55	0.08	7.98	30.99								
3765	13.59	7.86	14.04	3.37	1.15	0.17	15.92	56.10								
3780	1.94	0.80	5.96	1.43	0.00	0.00	1.85	11.98	2.21	0.81	7.84	1.88	0.00	0.00	2.46	15.20
3785	2.53	1.04	7.53	1.81	0.00	0.00	2.41	15.32	2.89	1.06	9.91	2.38	0.00	0.00	3.22	19.46
3790	2.73	1.12	8.86	2.13	0.00	0.00	2.60	17.44	3.12	1.14	11.66	2.80	0.00	0.00	3.47	22.19
3795	2.94	1.21	11.68	2.80	0.00	0.00	2.80	21.43	3.36	1.23	15.37	3.69	0.00	0.00	3.74	27.39
3800	3.35	1.38	14.90	3.58	0.00	0.00	3.19	26.40	3.83	1.40	19.61	4.71	0.00	0.00	4.26	33.81
3805	4.00	1.65	14.90	3.58	0.00	0.00	3.81	27.94	4.57	1.67	19.61	4.71	0.00	0.00	5.08	35.64
3810	4.44	1.83	18.13	4.35	0.00	0.00	4.24	32.99	5.08	1.86	23.85	5.72	0.00	0.00	5.65	42.16
3815	5.35	2.21	20.14	4.83	0.00	0.00	5.10	37.63	6.12	2.24	26.50	6.36	0.00	0.00	6.80	48.02
3820	7.21	2.97	26.18	6.28	0.00	0.00	6.88	49.52	8.24	3.01	34.45	8.27	0.00	0.00	9.17	63.14
3825	9.63	3.97	34.04	8.17	0.00	0.00	9.17	64.98	11.00	4.02	44.78	10.75	0.00	0.00	12.23	82.78
3830	13.12	5.41	50.35	12.08	0.00	0.00	12.51	93.47	15.00	5.48	66.25	15.90	0.00	0.00	16.68	119.31
3835	17.14	7.06	58.41	14.02	0.00	0.00	16.34	112.97	19.59	7.16	76.85	18.44	0.00	0.00	21.79	143.83
3845	0.09	0.04	0.37	0.09	0.00	0.00	0.09	0.68	0.11	0.04	0.48	0.12	0.00	0.00	0.12	0.87
3850	0.15	0.06	0.59	0.14	0.00	0.00	0.14	1.08	0.17	0.06	0.77	0.18	0.00	0.00	0.19	1.37
3855	0.19	0.08	0.89	0.21	0.00	0.00	0.18	1.55	0.22	0.08	1.16	0.28	0.00	0.00	0.24	1.98
3870	0.17	0.07	0.44	0.11	0.00	0.00	0.16	0.95	0.19	0.07	0.58	0.14	0.00	0.00	0.21	1.19
3875	0.38	0.16	1.03	0.25	0.00	0.00	0.36	2.18	0.43	0.16	1.35	0.32	0.00	0.00	0.48	2.74
3880	0.41	0.17	1.48	0.35	0.00	0.00	0.39	2.80	0.47	0.17	1.93	0.46	0.00	0.00	0.53	3.56
3885	0.44	0.18	0.24	0.06	0.00	0.00	0.42	1.34	0.50	0.18	0.32	0.08	0.00	0.00	0.56	1.64
3890	0.58	0.24	0.48	0.12	0.00	0.00	0.55	1.97	0.66	0.24	0.64	0.15	0.00	0.00	0.74	2.43
3895	0.83	0.34	0.89	0.21	0.00	0.00	0.79	3.06	0.95	0.35	1.17	0.28	0.00	0.00	1.06	3.81
3900	0.87	0.36	1.09	0.26	0.00	0.00	0.83	3.41	1.00	0.36	1.43	0.34	0.00	0.00	1.11	4.24
3905	1.29	0.53	2.54	0.61	0.00	0.00	1.23	6.20	1.47	0.54	3.34	0.80	0.00	0.00	1.64	7.79
3910	1.71	0.70	3.50	0.84	0.00	0.00	1.63	8.38	1.95	0.71	4.61	1.11	0.00	0.00	2.17	10.55
3915	1.95	0.80	4.11	0.99	0.00	0.00	1.86	9.71	2.23	0.82	5.41	1.30	0.00	0.00	2.48	12.24
3920	2.32	0.96	6.53	1.57	0.00	0.00	2.21	13.59	2.65	0.97	8.59	2.06	0.00	0.00	2.95	17.22
3925	2.43	1.00	6.53	1.57	0.00	0.00	2.31	13.84	2.77	1.01	8.59	2.06	0.00	0.00	3.09	17.52
3930	2.85	1.18	8.46	2.03	0.00	0.00	2.72	17.24	3.26	1.19	11.13	2.67	0.00	0.00	3.62	21.87
3935	3.40	1.40	11.12	2.67	0.00	0.00	3.24	21.83	3.88	1.42	14.63	3.51	0.00	0.00	4.32	27.76
3945	0.10	0.04	0.37	0.09	0.00	0.00	0.10	0.70	0.12	0.04	0.48	0.12	0.00	0.00	0.13	0.89
3950	0.12	0.05	0.52	0.12	0.00	0.00	0.11	0.92	0.13	0.05	0.67	0.16	0.00	0.00	0.15	1.16
3955	0.16	0.07	0.59	0.14	0.00	0.00	0.15	1.11	0.18	0.07	0.77	0.18	0.00	0.00	0.20	1.40
3960	0.20	0.08	0.74	0.18	0.00	0.00	0.19	1.39	0.23	0.08	0.96	0.23	0.00	0.00	0.26	1.76
3965	0.21	0.09	1.18	0.28	0.00	0.00	0.20	1.96	0.25	0.09	1.54	0.37	0.00	0.00	0.27	2.52
3970	0.20	0.08	1.18	0.28	0.00	0.00	0.19	1.93	0.23	0.09	1.54	0.37	0.00	0.00	0.26	2.49
3985	6.99	5.27	4.64	1.58	0.50	0.07	7.60	26.65	8.39	5.33	6.09	2.07	0.67	0.10	10.64	33.29
3990	8.02	6.03	5.01	1.70	0.50	0.07	8.71	30.04	9.63	6.09	6.58	2.24	0.67	0.10	12.20	37.51
3995	8.51	6.41	5.01	1.70	0.55	0.08	9.25	31.51	10.22	6.47	6.58	2.24	0.74	0.11	12.95	39.31
4000	8.63	6.51	5.56	1.89	0.63	0.09	9.38	32.69	10.36	6.58	7.31	2.49	0.86	0.13	13.14	40.87
4005	11.80	9.06	6.68	2.27	1.39	0.21	12.89	44.30	14.16	9.15	8.78	2.98	1.88	0.28	18.05	55.28
4010	16.87	13.00	9.27	3.15	2.17	0.33	18.44	63.23	20.24	13.13	12.19	4.14	2.94	0.44	25.82	78.90
4020	6.70	5.09	5.01	1.70	0.60	0.09	7.30	26.49	8.04	5.14	6.58	2.24	0.81	0.12	10.22	33.15
4025	7.87	5.98	5.64	1.92	0.69	0.10	8.57	30.77	9.45	6.04	7.41	2.52	0.94	0.14	12.00	38.50
4030	8.11	6.15	6.68	2.27	0.69	0.10	8.83	32.83	9.73	6.21	8.78	2.98	0.94	0.14	12.36	41.14

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	
4035	8.90	6.73	7.79	2.65	0.69	0.10	9.68	36.54	10.68	6.80	10.24	3.48	0.94	0.14	13.56	45.84	
4040	6.31	4.80	5.01	1.70	0.60	0.09	6.87	25.38	7.57	4.85	6.58	2.24	0.81	0.12	9.62	31.79	
4045	6.85	5.22	5.64	1.92	0.69	0.10	7.47	27.89	8.22	5.28	7.41	2.52	0.94	0.14	10.45	34.96	
4050	7.41	5.63	6.68	2.27	0.69	0.10	8.07	30.85	8.89	5.69	8.78	2.98	0.94	0.14	11.30	38.72	
4055	8.40	6.36	7.79	2.65	0.69	0.10	9.14	35.13	10.08	6.43	10.24	3.48	0.94	0.14	12.80	44.11	
4060	9.36	7.27	7.79	2.65	1.39	0.21	10.26	38.93	11.24	7.34	10.24	3.48	1.88	0.28	14.36	48.82	
4070	3.76	2.84	2.52	0.86	0.27	0.04	4.09	14.38	4.51	2.87	3.32	1.13	0.37	0.06	5.73	17.99	
4075	5.79	4.41	4.82	1.64	0.55	0.08	6.31	23.60	6.95	4.45	6.34	2.16	0.74	0.11	8.83	29.58	
4080	6.20	4.73	5.38	1.83	0.63	0.09	6.76	25.62	7.44	4.78	7.07	2.40	0.86	0.13	9.46	32.14	
4085	6.54	5.06	5.94	2.02	0.92	0.14	7.16	27.78	7.84	5.11	7.80	2.65	1.25	0.19	10.02	34.86	
4095	3.16	2.38	4.65	0.93	0.20	0.03	3.43	14.78	3.79	2.40	6.02	1.20	0.27	0.04	4.81	18.53	
4100	6.70	5.06	5.38	1.83	0.50	0.07	7.29	26.83	8.04	5.11	7.07	2.40	0.67	0.10	10.20	33.59	
4105	8.83	6.66	6.49	2.21	0.63	0.09	9.60	34.51	10.59	6.73	8.53	2.90	0.86	0.13	13.43	43.17	
4110	9.15	6.90	7.31	2.48	0.63	0.09	9.95	36.51	10.98	6.97	9.61	3.27	0.86	0.13	13.93	45.75	
4120	0.51	0.29	0.00	0.11	0.00	0.00	0.68	1.59									
4125	0.84	0.47	0.00	0.21	0.00	0.00	1.11	2.63									
4130	1.02	0.57	0.00	0.33	0.00	0.00	1.35	3.27									
4135	2.64	1.46	0.00	0.45	0.00	0.00	3.50	8.05									
4145	6.12	3.40	4.03	0.97	0.00	0.00	8.12	22.64									
4150	8.30	4.61	4.03	0.97	0.00	0.00	11.01	28.92									
4155	12.80	7.11	5.24	1.26	0.00	0.00	16.99	43.40									
4160	14.15	7.86	6.04	1.45	0.00	0.00	18.79	48.29									
4180	14.03	7.80	5.94	1.19	0.00	0.00	18.66	47.62	17.54	7.93	7.80	1.56	0.00	0.00	26.24	61.07	
4185	20.05	11.14	8.72	1.74	0.00	0.00	26.66	68.31	25.06	11.34	11.46	2.29	0.00	0.00	37.48	87.63	
4190	24.24	13.47	11.43	2.29	0.00	0.00	32.23	83.66	30.30	13.70	15.02	3.00	0.00	0.00	45.32	107.34	
4195	42.11	27.75	22.85	5.03	0.00	0.00	62.98	160.72	50.53	28.08	30.04	6.61	0.00	0.00	83.98	199.24	
4205	18.23	9.12	6.53	2.48	0.00	0.00	22.69	59.05	24.31	9.36	8.58	3.26	0.00	0.00	34.58	80.09	
4210	21.48	11.94	7.61	1.52	0.00	0.00	28.56	71.11	26.85	12.15	10.00	2.00	0.00	0.00	40.17	91.17	
4215	27.04	15.02	9.20	1.84	0.00	0.00	35.95	89.05	33.80	15.29	12.09	2.42	0.00	0.00	50.55	114.15	
4220	37.67	24.83	14.54	3.20	0.00	0.00	56.35	136.59	45.21	25.12	19.11	4.21	0.00	0.00	75.13	168.78	
4230	10.89	5.45	4.27	1.62	0.00	0.00	13.56	35.79	14.52	5.59	5.61	2.13	0.00	0.00	20.66	48.51	
4235	13.29	6.65	6.12	2.33	0.00	0.00	16.55	44.94	17.72	6.82	8.05	3.06	0.00	0.00	25.21	60.86	
4240	13.20	7.33	7.42	1.48	0.00	0.00	17.55	46.98	16.50	7.46	9.75	1.95	0.00	0.00	24.67	60.33	
4250	12.01	6.01	3.90	1.48	0.00	0.00	14.95	38.35	16.02	6.17	5.12	1.95	0.00	0.00	22.79	52.05	
4255	15.93	7.97	5.01	1.90	0.00	0.00	19.83	50.64	21.24	8.18	6.58	2.50	0.00	0.00	30.22	68.72	
4260	24.87	13.82	7.23	1.45	0.00	0.00	33.07	80.44	31.09	14.06	9.51	1.90	0.00	0.00	46.51	103.07	
4265	38.68	21.49	12.06	2.41	0.00	0.00	51.42	126.06	48.35	21.87	15.85	3.17	0.00	0.00	72.31	161.55	
4280	15.88	7.94	4.27	1.62	0.00	0.00	19.76	49.47	21.17	8.15	5.61	2.13	0.00	0.00	30.12	67.18	
4285	16.61	8.31	5.38	2.04	0.00	0.00	20.68	53.02	22.15	8.52	7.07	2.69	0.00	0.00	31.50	71.93	
4290	19.83	9.92	5.38	2.04	0.00	0.00	24.68	61.85	26.43	10.18	7.07	2.69	0.00	0.00	37.61	83.98	
4295	22.90	12.72	10.09	2.02	0.00	0.00	30.44	78.17	28.62	12.95	13.26	2.65	0.00	0.00	42.81	100.29	
4310	13.02	7.24	6.68	1.34	0.00	0.00	17.31	45.59	16.28	7.36	8.78	1.76	0.00	0.00	24.35	58.53	
4315	23.34	12.97	10.76	2.15	0.00	0.00	31.03	80.25	29.17	13.20	14.14	2.83	0.00	0.00	43.64	102.98	
4320	27.32	18.00	14.47	3.18	0.00	0.00	40.86	103.83	32.78	18.22	19.02	4.18	0.00	0.00	54.48	128.68	
4330	7.73	3.87	2.78	1.06	0.00	0.00	9.63	25.07	10.31	3.97	3.66	1.39	0.00	0.00	14.67	34.00	
4335	10.86	5.43	4.64	1.76	0.00	0.00	13.52	36.21	14.48	5.57	6.09	2.32	0.00	0.00	20.60	49.06	
4340	13.79	6.90	5.75	2.19	0.00	0.00	17.16	45.79	18.38	7.08	7.56	2.87	0.00	0.00	26.15	62.04	
4345	19.37	10.76	7.79	1.56	0.00	0.00	25.75	65.23	24.21	10.95	10.24	2.05	0.00	0.00	36.22	83.67	
4350	21.79	12.11	9.65	1.93	0.00	0.00	28.97	74.45	27.24	12.32	12.68	2.54	0.00	0.00	40.74	95.52	
4360	12.11	6.06	4.01	1.52	0.00	0.00	15.08	38.78	16.15	6.22	5.27	2.00	0.00	0.00	22.98	52.62	
4365	13.61	7.56	5.31	1.06	0.00	0.00	18.09	45.63	17.01	7.69	6.97	1.39	0.00	0.00	25.44	58.50	
4370	16.31	9.06	7.79	1.55	0.00	0.00	21.68	56.40	20.38	9.22	10.24	2.05	0.00	0.00	30.49	72.38	
4375	23.66	13.15	8.90	1.78	0.00	0.00	31.46	78.95	29.58	13.38	11.70	2.34	0.00	0.00	44.24	101.24	
4380	29.49	16.38	11.39	2.28	0.00	0.00	39.20	98.74	36.86	16.67	14.97	2.99	0.00	0.00	55.13	126.62	
4385	31.54	20.79	12.32	2.71	0.00	0.00	47.18	114.54	37.85	21.03	16.19	3.56	0.00	0.00	62.90	141.53	

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
4390	39.21	25.84	15.58	3.43	0.00	0.00	58.65	142.71	47.05	26.14	20.48	4.51	0.00	0.00	78.20	176.38
4395	43.72	28.81	17.21	3.79	0.00	0.00	65.39	158.92	52.46	29.15	22.62	4.98	0.00	0.00	87.18	196.39
4400	58.02	39.96	24.63	5.91	0.00	0.00	99.54	228.06	67.68	40.33	32.38	7.77	0.00	0.00	126.69	274.85
4405	67.66	46.60	30.87	7.41	0.00	0.00	116.09	268.63	78.93	47.04	40.57	9.74	0.00	0.00	147.75	324.03
4415	7.79	3.90	3.34	1.27	0.00	0.00	9.70	26.00	10.39	4.00	4.39	1.67	0.00	0.00	14.79	35.24
4420	10.03	5.57	3.90	0.78	0.00	0.00	13.33	33.61	12.53	5.67	5.12	1.02	0.00	0.00	18.75	43.09
4425	12.83	7.13	5.05	1.01	0.00	0.00	17.06	43.08	16.04	7.26	6.63	1.33	0.00	0.00	24.00	55.26
4430	15.83	8.80	6.68	1.34	0.00	0.00	21.05	53.70	19.79	8.95	8.78	1.76	0.00	0.00	29.60	68.88
4435	37.52	20.85	15.21	3.04	0.00	0.00	49.88	126.50	46.90	21.21	19.99	4.00	0.00	0.00	70.15	162.25
4445	12.80	7.11	5.64	1.13	0.00	0.00	17.02	43.70	16.00	7.24	7.41	1.48	0.00	0.00	23.94	56.07
4450	20.63	11.46	8.46	1.69	0.00	0.00	27.43	69.67	25.79	11.67	11.12	2.22	0.00	0.00	38.58	89.38
4455	25.57	14.21	11.28	2.26	0.00	0.00	34.00	87.32	31.97	14.46	14.82	2.96	0.00	0.00	47.82	112.03
4465	11.02	8.25	8.19	3.00	0.62	0.09	8.62	39.79	12.71	8.32	10.74	3.93	0.76	0.11	10.94	47.51
4470	13.22	9.92	7.29	2.62	0.84	0.13	10.34	44.36	15.25	10.00	9.38	3.38	1.05	0.16	13.12	52.34
4475	14.37	12.84	13.11	3.41	1.12	0.17	13.49	58.51	16.16	12.91	16.93	4.40	1.39	0.21	16.44	68.44
4485	1.70	0.93	0.00	0.12	0.00	0.00	2.17	4.92	2.12	0.95	0.00	0.12	0.00	0.00	3.05	6.24
4490	2.25	1.24	0.00	0.14	0.00	0.00	2.88	6.51	2.82	1.26	0.00	0.14	0.00	0.00	4.04	8.26
4495	3.33	1.83	0.00	0.19	0.00	0.00	4.25	9.60	4.16	1.86	0.00	0.19	0.00	0.00	5.97	12.18
4500	1.68	0.92	0.00	0.26	0.00	0.00	2.15	5.01	2.11	0.94	0.00	0.26	0.00	0.00	3.02	6.33
4510	1.36	0.71	0.79	0.19	0.08	0.01	3.66	6.80								
4520	1.05	0.55	0.32	0.08	0.08	0.01	2.84	4.93								
4525	1.41	0.73	0.64	0.15	0.08	0.01	3.78	6.80								
4530	1.66	0.86	0.79	0.19	0.08	0.01	4.46	8.05								
4540	2.35	1.56	1.13	0.32	0.92	0.14	3.84	10.26	2.94	1.59	1.48	0.42	1.44	0.22	5.33	13.42
4550	0.49	0.30	0.00	0.00	0.00	0.00	0.79	1.58	0.62	0.31	0.00	0.00	0.00	1.09	2.02	
4555	0.59	0.36	0.00	0.00	0.00	0.00	0.94	1.89	0.74	0.37	0.00	0.00	0.00	0.00	1.31	2.42
4560	0.11	0.07	0.00	0.00	0.00	0.00	0.18	0.36	0.14	0.07	0.00	0.00	0.00	0.00	0.25	0.46
4565	0.60	0.37	0.00	0.00	0.00	0.00	0.95	1.92	0.75	0.37	0.00	0.00	0.00	0.00	1.32	2.44
4570	0.45	0.28	0.00	0.00	0.00	0.00	0.72	1.45	0.56	0.28	0.00	0.00	0.00	0.00	1.00	1.84
4575	0.56	0.34	0.00	0.00	0.00	0.00	0.89	1.79	0.70	0.35	0.00	0.00	0.00	0.00	1.23	2.28
4580	0.80	0.49	0.00	0.00	0.00	0.00	1.27	2.56	1.00	0.50	0.00	0.00	0.00	0.00	1.77	3.27
4585	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.26	0.10	0.05	0.00	0.00	0.00	0.00	0.19	0.34
4590	2.55	1.70	1.69	0.47	1.13	0.17	4.16	11.87	3.18	1.73	2.23	0.62	1.77	0.27	5.78	15.58
4600	0.58	0.36	0.00	0.00	0.00	0.00	0.93	1.87	0.73	0.36	0.00	0.00	0.00	0.00	1.29	2.38
4605	0.63	0.39	0.00	0.00	0.00	0.00	1.00	2.02	0.78	0.39	0.00	0.00	0.00	0.00	1.39	2.56
4610	0.11	0.07	0.00	0.00	0.00	0.00	0.18	0.36	0.14	0.07	0.00	0.00	0.00	0.00	0.25	0.46
4615	0.60	0.37	0.00	0.00	0.00	0.00	0.95	1.92	0.75	0.37	0.00	0.00	0.00	0.00	1.32	2.44
4620	0.52	0.32	0.00	0.00	0.00	0.00	0.82	1.66	0.64	0.32	0.00	0.00	0.00	0.00	1.14	2.10
4625	0.72	0.44	0.00	0.00	0.00	0.00	1.15	2.31	0.90	0.45	0.00	0.00	0.00	0.00	1.60	2.95
4630	0.90	0.55	0.00	0.00	0.00	0.00	1.44	2.89	1.13	0.56	0.00	0.00	0.00	0.00	2.00	3.69
4635	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.26	0.10	0.05	0.00	0.00	0.00	0.00	0.19	0.34
4640	2.90	1.96	2.26	0.63	1.49	0.22	4.75	14.21	3.62	2.00	2.97	0.83	2.35	0.35	6.60	18.72
4650	0.62	0.38	0.00	0.00	0.00	0.00	0.98	1.98	0.77	0.38	0.00	0.00	0.00	0.00	1.37	2.52
4655	0.67	0.41	0.00	0.00	0.00	0.00	1.07	2.15	0.84	0.42	0.00	0.00	0.00	0.00	1.49	2.75
4660	0.11	0.07	0.00	0.00	0.00	0.00	0.18	0.36	0.14	0.07	0.00	0.00	0.00	0.00	0.25	0.46
4665	0.60	0.37	0.00	0.00	0.00	0.00	0.95	1.92	0.75	0.37	0.00	0.00	0.00	0.00	1.32	2.44
4670	0.60	0.37	0.00	0.00	0.00	0.00	0.96	1.93	0.75	0.38	0.00	0.00	0.00	0.00	1.33	2.46
4675	0.87	0.53	0.00	0.00	0.00	0.00	1.38	2.78	1.08	0.54	0.00	0.00	0.00	0.00	1.92	3.54
4680	1.11	0.68	0.00	0.00	0.00	0.00	1.77	3.56	1.39	0.69	0.00	0.00	0.00	0.00	2.46	4.54
4685	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.26	0.10	0.05	0.00	0.00	0.00	0.00	0.19	0.34
4690	3.68	2.50	3.38	0.95	2.07	0.31	6.04	18.93	4.59	2.54	4.45	1.25	3.26	0.49	8.38	24.96
4700	0.71	0.44	0.00	0.00	0.00	0.00	1.14	2.29	0.89	0.44	0.00	0.00	0.00	0.00	1.58	2.91
4705	0.89	0.55	0.00	0.00	0.00	0.00	1.43	2.87	1.12	0.56	0.00	0.00	0.00	0.00	1.98	3.66
4710	0.11	0.07	0.00	0.00	0.00	0.00	0.18	0.36	0.14	0.07	0.00	0.00	0.00	0.00	0.25	0.46
4715	0.60	0.37	0.00	0.00	0.00	0.00	0.95	1.92	0.75	0.37	0.00	0.00	0.00	0.00	1.32	2.44

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRES	TIRES	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRES	TIRES	REPR	TOTAL RATE
4720	0.78	0.48	0.00	0.00	0.00	0.00	1.24	2.50	0.97	0.49	0.00	0.00	0.00	0.00	1.73	3.19
4725	1.01	0.62	0.00	0.00	0.00	0.00	1.62	3.25	1.26	0.63	0.00	0.00	0.00	0.00	2.24	4.13
4730	1.53	0.94	0.00	0.00	0.00	0.00	2.44	4.91	1.91	0.95	0.00	0.00	0.00	0.00	3.39	6.25
4735	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.26	0.10	0.05	0.00	0.00	0.00	0.00	0.19	0.34
4740	6.65	4.31	5.16	1.44	1.60	0.24	10.77	30.17	8.31	4.38	6.78	1.90	2.45	0.37	14.96	39.15
4750	1.00	0.61	0.00	0.00	0.00	0.00	1.59	3.20	1.24	0.62	0.00	0.00	0.00	0.00	2.21	4.07
4755	0.11	0.07	0.00	0.00	0.00	0.00	0.18	0.36	0.14	0.07	0.00	0.00	0.00	0.00	0.25	0.46
4760	0.63	0.39	0.00	0.00	0.00	0.00	1.01	2.03	0.79	0.40	0.00	0.00	0.00	0.00	1.41	2.60
4765	0.94	0.58	0.00	0.00	0.00	0.00	1.50	3.02	1.17	0.59	0.00	0.00	0.00	0.00	2.08	3.84
4770	1.37	0.84	0.00	0.00	0.00	0.00	2.19	4.40	1.72	0.86	0.00	0.00	0.00	0.00	3.05	5.63
4775	1.88	1.16	0.00	0.00	0.00	0.00	3.00	6.04	2.35	1.18	0.00	0.00	0.00	0.00	4.17	7.70
4780	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.26	0.10	0.05	0.00	0.00	0.00	0.00	0.19	0.34
4785	10.85	7.36	5.03	1.41	5.93	0.89	17.79	49.26	13.56	7.47	6.62	1.85	9.40	1.41	24.71	65.02
4790	12.14	8.16	7.45	2.09	6.05	0.91	19.86	56.66	15.17	8.29	9.80	2.75	9.59	1.44	27.59	74.63
4795	12.21	8.43	7.45	2.09	8.36	1.25	20.13	59.92	15.27	8.57	9.80	2.75	13.35	2.00	27.96	79.70
4800	13.99	9.67	11.68	3.27	9.88	1.48	23.07	73.04	17.48	9.82	15.37	4.30	15.82	2.37	32.04	97.20
4805	13.54	9.01	7.45	2.09	5.93	0.89	22.09	61.00	16.92	9.16	9.80	2.75	9.40	1.41	30.68	80.12
4810	14.35	9.52	7.45	2.09	6.05	0.91	23.40	63.77	17.94	9.87	9.80	2.75	9.59	1.44	32.49	83.68
4815	16.02	10.77	11.68	3.27	8.36	1.25	26.21	77.56	20.02	10.94	15.37	4.30	13.35	2.00	36.41	102.39
4820	17.61	11.90	11.68	3.27	9.88	1.48	28.85	84.67	22.01	12.09	15.37	4.30	15.82	2.37	40.07	112.03
4830	1.20	0.74	0.00	0.00	0.00	0.00	1.91	3.85	1.50	0.75	0.00	0.00	0.00	0.00	2.66	4.91
4835	1.59	0.98	0.00	0.00	0.00	0.00	2.55	5.12	1.99	1.00	0.00	0.00	0.00	0.00	3.53	6.52
4840	1.81	1.11	0.00	0.00	0.00	0.00	2.89	5.81	2.26	1.13	0.00	0.00	0.00	0.00	4.01	7.40
4845	1.81	1.11	0.00	0.00	0.00	0.00	2.90	5.82	2.27	1.13	0.00	0.00	0.00	0.00	4.02	7.42
4855	3.67	2.01	1.69	0.64	0.00	0.00	7.32	15.33	4.59	2.05	2.23	0.85	0.00	0.00	9.52	19.24
4860	4.93	2.70	2.74	1.04	0.00	0.00	9.83	21.24	6.16	2.75	3.61	1.37	0.00	0.00	12.78	26.87
4865	6.51	3.57	3.39	1.29	0.00	0.00	12.99	27.75	8.14	3.64	4.46	1.70	0.00	0.00	16.89	34.83
4870	8.63	4.74	4.78	1.82	0.00	0.00	17.22	37.19	10.79	4.82	6.30	2.39	0.00	0.00	22.39	46.69
4875	10.11	5.55	6.08	2.31	0.00	0.00	20.17	44.22	12.64	5.65	8.01	3.05	0.00	0.00	26.22	55.57
4885	3.94	2.16	2.82	1.07	0.00	0.00	7.86	17.85	4.93	2.20	3.72	1.41	0.00	0.00	10.22	22.48
4890	7.62	4.18	3.48	1.32	0.00	0.00	15.21	31.81	9.53	4.26	4.58	1.74	0.00	0.00	19.77	39.88
4895	9.40	5.15	4.78	1.82	0.00	0.00	18.74	39.89	11.75	5.25	6.30	2.39	0.00	0.00	24.37	50.06
4900	12.29	6.74	6.52	2.48	0.00	0.00	24.51	52.54	15.36	6.86	8.59	3.26	0.00	0.00	31.86	65.93
4905	17.18	9.42	9.13	3.47	0.00	0.00	34.27	73.47	21.47	9.59	12.02	4.57	0.00	0.00	44.55	92.20
4915	4.04	2.21	2.74	1.04	0.00	0.00	8.05	18.08	5.04	2.25	3.61	1.37	0.00	0.00	10.46	22.73
4920	4.89	2.68	3.39	1.29	0.00	0.00	9.75	22.00	6.11	2.73	4.46	1.70	0.00	0.00	12.68	27.68
4925	5.70	3.12	3.78	1.44	0.00	0.00	11.36	25.40	7.12	3.18	4.98	1.89	0.00	0.00	14.77	31.94
4930	7.36	4.04	5.30	2.01	0.00	0.00	14.68	33.39	9.20	4.11	6.98	2.65	0.00	0.00	19.09	42.03
4935	9.84	5.40	6.52	2.48	0.00	0.00	19.63	43.87	12.30	5.50	8.59	3.26	0.00	0.00	25.53	55.18
4940	13.83	7.59	9.69	3.68	0.00	0.00	27.59	62.38	17.29	7.72	12.76	4.85	0.00	0.00	35.87	78.49
4950	4.66	2.55	2.82	1.07	0.00	0.00	9.29	20.39	5.82	2.60	3.72	1.41	0.00	0.00	12.08	25.63
4955	5.79	3.18	3.39	1.29	0.00	0.00	11.55	25.20	7.24	3.23	4.46	1.70	0.00	0.00	15.02	31.65
4960	8.85	4.86	5.65	2.15	0.00	0.00	17.66	39.17	11.07	4.94	7.44	2.83	0.00	0.00	22.96	49.24
4965	12.78	7.01	8.26	3.14	0.00	0.00	25.49	56.68	15.97	7.13	10.88	4.13	0.00	0.00	33.13	71.24
4975	3.52	1.93	1.83	0.69	0.00	0.00	7.01	14.98	4.39	1.96	2.40	0.91	0.00	0.00	9.12	18.78
4980	4.68	2.57	2.91	1.11	0.00	0.00	9.34	20.61	5.85	2.61	3.84	1.46	0.00	0.00	12.14	25.90
4985	5.73	3.14	3.39	1.29	0.00	0.00	11.44	24.99	7.17	3.20	4.46	1.70	0.00	0.00	14.87	31.40
4990	8.45	4.63	4.78	1.82	0.00	0.00	16.85	36.53	10.56	4.72	6.30	2.39	0.00	0.00	21.90	45.87
4995	9.53	5.23	5.65	2.15	0.00	0.00	19.02	41.58	11.92	5.32	7.44	2.83	0.00	0.00	24.72	52.23
5000	13.57	7.45	8.69	3.30	0.00	0.00	27.07	60.08	16.96	7.58	11.45	4.35	0.00	0.00	35.20	75.54
5010	4.17	2.29	2.87	1.09	0.00	0.00	8.33	18.75	5.22	2.33	3.78	1.44	0.00	0.00	10.83	23.60
5015	5.84	3.20	3.91	1.49	0.00	0.00	11.64	26.08	7.30	3.26	5.15	1.96	0.00	0.00	15.14	32.81
5020	7.28	3.99	4.78	1.82	0.00	0.00	14.52	32.39	9.10	4.07	6.30	2.39	0.00	0.00	18.88	40.74
5025	9.05	4.96	5.87	2.23	0.00	0.00	18.04	40.15	11.31	5.05	7.73	2.94	0.00	0.00	23.46	50.49
5030	12.91	7.08	8.69	3.30	0.00	0.00	25.76	57.74	16.14	7.21	11.45	4.35	0.00	0.00	33.49	72.64

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIKE	TIKE	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIKE	TIKE	REPR	TOTAL RATE
WEAR	RPR			WEAR	RPR							WEAR	RPR			
5035	25.22	13.84	15.21	5.78	0.00	0.00	50.32	110.37	31.53	14.08	20.03	7.61	0.00	0.00	65.42	138.67
5045	0.69	0.44	1.18	0.38	0.10	0.02	0.85	3.66	0.87	0.45	1.54	0.49	0.20	0.03	1.14	4.72
5050	0.83	0.52	0.60	0.25	0.10	0.02	1.02	3.34	1.04	0.53	0.79	0.33	0.20	0.03	1.36	4.28
5055	0.96	0.60	1.70	0.54	0.09	0.01	1.17	5.07	1.20	0.61	2.22	0.71	0.17	0.03	1.56	6.50
5060	1.07	0.67	0.89	0.37	0.09	0.01	1.31	4.41	1.34	0.68	1.17	0.49	0.17	0.03	1.76	5.64
5065	1.27	0.79	1.13	0.47	0.10	0.01	1.55	5.32	1.59	0.80	1.48	0.62	0.19	0.03	2.07	6.78
5070	1.17	0.73	2.37	0.76	0.10	0.01	1.43	6.57	1.47	0.74	3.08	0.99	0.19	0.03	1.92	8.42
5075	1.36	0.84	2.51	0.80	0.10	0.01	1.65	7.27	1.70	0.86	3.27	1.05	0.19	0.03	2.21	9.31
5080	1.45	0.90	1.45	0.61	0.10	0.01	1.77	6.29	1.81	0.91	1.91	0.80	0.19	0.03	2.37	8.02
5085	1.82	1.16	2.18	0.91	0.34	0.05	2.24	8.70	2.28	1.18	2.86	1.20	0.65	0.10	2.99	11.26
5090	3.23	2.14	3.14	1.32	1.11	0.17	4.01	15.12	4.04	2.18	4.13	1.74	2.13	0.32	5.37	19.91
5100	2.02	1.26	1.49	0.63	0.22	0.03	2.47	8.12	2.52	1.28	1.96	0.82	0.42	0.06	3.30	10.36
5105	3.68	2.30	2.22	0.93	0.38	0.06	4.50	14.07	4.61	2.34	2.91	1.22	0.73	0.11	6.03	17.95
5110	4.83	3.09	3.34	1.40	0.91	0.14	5.93	19.64	6.04	3.14	4.40	1.85	1.73	0.26	7.95	25.37
5115	6.22	3.96	4.15	1.74	1.12	0.17	7.63	24.99	7.77	4.03	5.46	2.29	2.13	0.32	10.22	32.22
5120	6.52	4.26	4.43	1.86	1.87	0.28	8.06	27.28	8.15	4.33	5.83	2.45	3.56	0.53	10.79	35.64
5125	8.05	5.08	5.32	2.23	1.12	0.17	9.86	31.83	10.06	5.16	7.00	2.94	2.13	0.32	13.20	40.81
5130	10.45	6.81	7.45	3.13	2.84	0.43	12.90	44.01	13.06	6.92	9.80	4.12	5.41	0.81	17.28	57.40
5140	4.00	2.56	2.62	1.10	0.82	0.12	4.92	16.14	5.00	2.61	3.44	1.45	1.57	0.24	6.58	20.89
5145	5.64	3.58	3.22	1.35	0.91	0.14	6.91	21.75	7.04	3.63	4.24	1.78	1.73	0.26	9.25	27.93
5150	6.43	4.09	4.03	1.69	1.12	0.17	7.89	25.42	8.04	4.16	5.30	2.23	2.13	0.32	10.57	32.75
5155	10.01	6.39	6.24	2.62	1.87	0.28	12.29	39.70	12.51	6.49	8.21	3.45	3.56	0.53	16.45	51.20
5160	13.51	8.70	8.06	3.38	2.97	0.45	16.62	53.69	16.89	8.83	10.60	4.45	5.67	0.85	22.26	69.55
5165	16.73	10.70	10.88	3.26	6.21	0.93	18.08	66.79	20.08	10.84	14.31	4.29	11.86	1.78	23.24	86.40
5170	23.55	15.44	15.10	4.53	8.44	1.27	25.55	93.88	28.26	15.64	19.87	5.96	16.11	2.42	32.85	121.11
5175	46.76	31.44	27.79	8.34	21.24	3.19	50.94	189.70	56.11	31.85	36.57	10.97	40.55	6.08	65.49	247.63
5185	4.92	3.13	3.42	1.44	0.82	0.12	6.04	19.89	6.15	3.18	4.50	1.89	1.57	0.24	8.08	25.61
5190	5.77	3.66	4.43	1.86	0.91	0.14	7.08	23.85	7.22	3.72	5.83	2.45	1.73	0.26	9.48	30.69
5195	6.71	4.26	4.87	2.05	1.12	0.17	8.22	27.40	8.38	4.33	6.41	2.69	2.13	0.32	11.01	35.27
5200	9.39	6.06	6.20	2.61	2.15	0.32	11.55	38.29	11.74	6.15	8.16	3.43	4.10	0.61	15.49	49.68
5205	12.55	8.18	8.18	3.43	3.42	0.51	15.49	51.76	15.69	8.31	10.76	4.52	6.53	0.98	20.75	67.54
5210	15.74	10.10	11.24	3.37	6.21	0.93	17.01	64.60	18.88	10.24	14.79	4.44	11.86	1.78	21.87	83.86
5215	22.97	14.76	14.50	4.35	6.53	0.98	24.83	88.92	27.56	14.95	19.08	5.72	12.47	1.87	31.93	113.58
5220	41.99	27.71	24.65	7.40	16.12	2.42	45.60	165.89	50.38	28.08	32.44	9.73	30.77	4.62	58.63	214.65
5230	4.36	2.78	3.22	1.35	0.76	0.11	5.36	17.94	5.46	2.82	4.24	1.78	1.46	0.22	7.17	23.15
5235	5.64	3.55	4.43	1.86	0.76	0.11	6.90	23.25	7.04	3.61	5.83	2.45	1.46	0.22	9.24	29.85
5240	6.12	3.90	5.12	2.15	1.12	0.17	7.51	26.09	7.65	3.96	6.73	2.83	2.13	0.32	10.06	33.68
5245	8.36	5.45	6.61	2.77	2.25	0.34	10.32	36.10	10.45	5.53	8.69	3.65	4.30	0.64	13.82	47.08
5250	12.49	8.15	8.98	3.77	3.42	0.51	15.43	52.75	15.62	8.28	11.82	4.96	6.53	0.98	20.66	68.85
5255	17.54	11.54	13.49	4.05	6.53	0.98	19.03	73.16	21.04	11.69	17.75	5.33	12.47	1.87	24.47	94.62
5265	2.02	1.31	1.93	0.81	0.47	0.07	2.49	9.10	2.53	1.33	2.54	1.07	0.89	0.13	3.34	11.83
5270	2.56	1.64	2.50	1.05	0.48	0.07	3.14	11.44	3.20	1.66	3.29	1.38	0.90	0.14	4.21	14.78
5275	5.07	3.22	3.54	1.49	0.82	0.12	6.22	20.48	6.34	3.27	4.66	1.96	1.57	0.24	8.33	26.37
5280	6.11	3.90	4.31	1.81	1.12	0.17	7.50	24.92	7.64	3.96	5.67	2.38	2.13	0.32	10.04	32.14
5285	8.47	5.45	5.48	2.30	1.87	0.28	10.42	34.27	10.58	5.54	7.21	3.03	3.56	0.53	13.95	44.40
5295	4.26	2.72	3.22	1.35	0.82	0.12	5.23	17.72	5.32	2.77	4.24	1.78	1.57	0.24	7.01	22.93
5300	5.26	3.34	4.03	1.69	0.91	0.14	6.45	21.82	6.57	3.40	5.30	2.23	1.73	0.26	8.64	28.13
5305	6.17	3.93	4.83	2.03	1.12	0.17	7.57	25.82	7.71	4.00	6.36	2.67	2.13	0.32	10.14	33.33
5310	8.77	5.63	6.24	2.62	1.87	0.28	10.78	36.19	10.96	5.72	8.21	3.45	3.56	0.53	14.44	46.87
5315	11.77	7.68	7.61	3.20	3.26	0.49	14.54	48.55	14.71	7.80	10.02	4.21	6.22	0.93	19.47	63.36
5320	16.10	10.77	8.42	3.54	6.21	0.93	20.02	65.99	20.12	10.95	11.08	4.65	11.86	1.78	26.81	87.25
5325	22.57	14.52	16.72	5.01	6.53	0.98	24.40	90.73	27.08	14.71	21.99	6.60	12.47	1.87	31.38	116.10
5330	41.85	27.05	23.77	7.13	12.80	1.92	45.29	159.81	50.22	27.40	31.27	9.38	24.44	3.67	58.23	204.61
5340	1.89	1.21	1.73	0.73	0.35	0.05	2.32	8.28	2.36	1.23	2.28	0.96	0.65	0.10	3.10	10.68
5345	5.10	3.24	3.42	1.44	0.82	0.12	6.25	20.39	6.38	3.29	4.50	1.89	1.57	0.24	8.38	26.25

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	
5350	6.21	3.90	4.23	1.78	0.76	0.11	7.59	24.58	7.76	3.96	5.56	2.31	1.46	0.22	10.16	31.46
5355	8.68	5.55	5.84	2.45	1.68	0.25	10.67	35.12	10.86	5.64	7.68	3.23	3.21	0.48	14.29	45.39
5360	14.27	9.23	10.47	3.14	6.21	0.93	15.44	59.69	17.12	9.36	13.78	4.13	11.86	1.78	19.86	77.89
5370	5.30	3.40	4.19	1.76	1.12	0.17	6.51	22.45	6.62	3.46	5.51	2.32	2.13	0.32	8.72	29.08
5375	7.13	4.63	6.36	2.67	1.87	0.28	8.80	31.74	8.91	4.71	8.37	3.52	3.56	0.53	11.78	41.38
5380	7.65	4.96	6.65	2.79	1.96	0.29	9.43	33.73	9.56	5.04	8.74	3.67	3.73	0.56	12.63	43.93
5385	10.29	6.73	8.74	3.67	2.97	0.45	12.72	45.57	12.86	6.84	11.50	4.83	5.67	0.85	17.03	59.58
5390	13.05	8.44	12.29	3.69	5.63	0.84	14.13	58.07	15.66	8.55	16.16	4.85	10.75	1.61	18.17	75.75
5395	19.73	13.17	15.43	4.63	8.44	1.27	21.47	84.14	23.68	13.35	20.30	6.09	16.11	2.42	27.61	109.56
5405	5.25	3.38	4.15	1.74	1.12	0.17	6.46	22.27	6.57	3.43	5.46	2.29	2.13	0.32	8.65	28.85
5410	6.02	3.84	4.55	1.91	1.12	0.17	7.40	25.01	7.53	3.91	5.99	2.52	2.13	0.32	9.90	32.30
5415	8.29	5.36	5.80	2.44	1.96	0.29	10.21	34.35	10.37	5.44	7.63	3.21	3.73	0.56	13.68	44.62
5420	11.36	7.37	8.46	3.55	2.91	0.44	14.01	48.10	14.20	7.49	11.13	4.67	5.55	0.83	18.76	62.63
5425	15.75	10.11	12.37	3.71	6.21	0.93	17.03	66.11	18.90	10.25	16.27	4.88	11.86	1.78	21.90	85.84
5430	22.89	14.71	15.63	4.69	6.53	0.98	24.75	90.18	27.46	14.90	20.56	6.17	12.47	1.87	31.82	115.25
5440	4.74	3.06	3.75	1.57	1.12	0.17	5.83	20.24	5.92	3.11	4.93	2.07	2.13	0.32	7.81	26.29
5445	6.05	3.86	8.80	2.81	1.12	0.17	7.43	30.24	7.57	3.92	11.46	3.67	2.13	0.32	9.95	39.02
5450	7.79	5.04	6.44	2.71	1.87	0.28	9.60	33.73	9.74	5.12	8.48	3.56	3.56	0.53	12.85	43.84
5455	11.41	7.48	8.18	3.43	3.42	0.51	14.10	48.53	14.26	7.60	10.76	4.52	6.53	0.98	18.89	63.54
5460	15.43	9.98	11.48	3.44	6.62	0.99	16.70	64.64	18.52	10.11	15.10	4.53	12.64	1.90	21.48	84.28
5465	20.20	13.12	16.11	4.83	6.53	0.98	21.88	83.65	24.24	13.29	21.20	6.36	12.47	1.87	28.13	107.56
5475	3.25	2.05	1.89	0.61	0.38	0.06	4.54	12.78	4.06	2.09	2.49	0.80	0.53	0.08	6.04	16.09
5480	3.83	2.39	2.22	0.71	0.29	0.04	5.35	14.83	4.79	2.43	2.91	0.93	0.41	0.06	7.10	18.63
5485	5.85	3.68	3.22	1.03	0.58	0.09	8.18	22.63	7.31	3.74	4.24	1.36	0.82	0.12	10.86	28.45
5490	6.88	4.35	4.47	1.43	0.78	0.12	9.63	27.66	8.60	4.42	5.88	1.88	1.08	0.16	12.80	34.82
5500	3.29	2.09	2.34	0.75	0.41	0.06	4.61	13.55	4.11	2.12	3.07	0.98	0.58	0.09	6.12	17.07
5505	3.88	2.46	2.50	0.80	0.47	0.07	5.44	15.62	4.85	2.50	3.29	1.05	0.66	0.10	7.22	19.67
5510	4.47	2.84	2.82	0.90	0.59	0.09	6.27	17.98	5.59	2.89	3.71	1.19	0.82	0.12	8.32	22.64
5515	5.13	3.24	3.22	1.03	0.59	0.09	7.18	20.48	6.41	3.29	4.24	1.36	0.82	0.12	9.54	25.78
5520	6.14	3.92	4.03	1.29	0.92	0.14	8.62	25.06	7.68	3.99	5.30	1.70	1.29	0.19	11.45	31.60
5530	4.85	2.66	1.69	0.64	0.00	0.00	9.67	19.51	6.06	2.71	2.23	0.85	0.00	0.00	12.57	24.42
5535	5.77	3.16	2.30	0.88	0.00	0.00	11.51	23.62	7.21	3.22	3.03	1.15	0.00	0.00	14.96	29.57
5545	5.09	2.79	2.82	1.07	0.00	0.00	10.16	21.93	6.36	2.84	3.72	1.41	0.00	0.00	13.20	27.53
5555	0.58	0.27	0.00	0.55	0.00	0.00	1.07	2.47								
5560	1.19	0.56	0.00	1.13	0.00	0.00	2.21	5.09								
5565	2.31	1.10	0.00	2.16	0.00	0.00	4.29	9.86								
5570	0.61	0.29	0.00	0.27	0.00	0.00	1.13	2.30								
5575	0.96	0.45	0.00	0.40	0.00	0.00	1.78	3.59								
5585	1.67	0.79	0.00	0.27	0.00	0.00	3.11	5.84								
5590	2.54	1.20	0.00	0.36	0.00	0.00	4.71	8.81								
5600	2.14	1.01	0.00	0.30	0.00	0.00	3.97	7.42								
5605	2.84	1.34	0.00	0.54	0.00	0.00	5.27	9.99								
5610	3.42	1.62	0.00	0.86	0.00	0.00	6.35	12.25								
5620	4.23	2.01	0.00	0.07	0.00	0.00	7.86	14.17								
5625	4.73	2.24	0.00	0.07	0.00	0.00	8.79	15.83								
5630	7.78	3.69	0.00	0.07	0.00	0.00	14.45	25.99								
5635	8.29	3.93	0.00	0.07	0.00	0.00	15.41	27.70								
5645	4.39	2.08	0.00	0.47	0.00	0.00	8.15	15.09								
5650	5.04	2.39	0.00	0.54	0.00	0.00	9.36	17.33								
5655	5.90	2.79	0.00	0.65	0.00	0.00	10.95	20.29								
5660	6.47	3.07	0.00	0.80	0.00	0.00	12.02	22.36								
5665	7.35	3.48	0.00	0.69	0.00	0.00	13.64	25.16								
5670	8.63	4.09	0.00	1.02	0.00	0.00	16.03	29.77								
5675	9.98	4.73	0.00	1.02	0.00	0.00	18.53	34.26								
5680	13.35	6.33	0.00	1.25	0.00	0.00	24.80	45.73								

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
5685	19.29	9.14	0.00	1.37	0.00	0.00	35.83	65.63							
5695	3.43	1.63	0.00	0.54	0.00	0.00	6.37	11.97							
5700	3.97	1.88	0.00	0.70	0.00	0.00	7.37	13.92							
5705	5.26	2.49	0.00	0.70	0.00	0.00	9.78	18.23							
5710	1.27	0.60	0.00	0.27	0.00	0.00	2.36	4.50							
5715	1.64	0.78	0.00	0.36	0.00	0.00	3.04	5.82							
5720	2.08	0.98	0.00	0.47	0.00	0.00	3.86	7.39							
5730	5.65	2.68	0.00	0.73	0.00	0.00	10.49	19.55							
5735	6.41	3.04	0.00	0.86	0.00	0.00	11.91	22.22							
5740	6.94	3.29	0.00	1.02	0.00	0.00	12.88	24.13							
5745	8.51	4.04	0.00	1.20	0.00	0.00	15.82	29.57							
5750	10.45	4.95	0.00	1.25	0.00	0.00	19.40	36.05							
5755	14.82	7.02	0.00	1.48	0.00	0.00	27.52	50.84							
5765	7.37	3.49	2.38	0.76	0.00	0.00	13.68	27.68							
5770	13.86	6.57	6.28	2.01	0.00	0.00	25.75	54.47							
5775	20.12	9.53	11.88	3.80	0.00	0.00	37.36	82.69							
5780	21.61	10.24	22.15	7.09	0.00	0.00	40.13	101.22							
5785	27.15	12.87	26.18	8.38	0.00	0.00	50.42	125.00							
5795	8.39	6.03	2.34	0.93	0.00	0.00	10.72	28.41	10.07	6.10	3.01	1.20	0.00	0.00	14.58
5800	13.31	9.57	4.45	1.78	0.00	0.00	17.00	46.11	15.98	9.67	5.72	2.29	0.00	0.00	23.12
5805	18.38	13.21	4.45	1.78	0.00	0.00	23.47	61.29	22.06	13.35	5.72	2.29	0.00	0.00	31.92
5810	19.13	13.75	6.68	2.67	0.00	0.00	24.43	66.66	22.95	13.90	8.59	3.43	0.00	0.00	33.22
5815	26.69	19.18	9.13	3.65	0.00	0.00	34.08	92.73	32.03	19.39	11.73	4.69	0.00	0.00	46.35
5825	1.42	0.58	0.00	0.16	0.00	0.00	1.99	4.15							
5830	0.53	0.22	0.00	0.11	0.00	0.00	0.74	1.60							
5835	2.10	0.86	0.00	0.34	0.00	0.00	2.94	6.24							
5840	0.92	0.38	0.00	0.05	0.00	0.00	1.28	2.63							
5850	0.54	0.33	1.02	0.33	0.00	0.00	0.77	2.99							
5855	0.69	0.42	1.53	0.49	0.00	0.00	0.97	4.10							
5865	0.04	0.02	0.20	0.07	0.00	0.00	0.05	0.38							
5870	0.05	0.03	0.31	0.10	0.00	0.00	0.07	0.56							
5875	0.09	0.06	0.82	0.26	0.00	0.00	0.13	1.36							
5885	0.72	0.45	4.38	1.40	0.00	0.00	1.03	7.98							
5890	0.42	0.26	1.69	0.64	0.00	0.00	0.60	3.61							
5895	0.95	0.59	8.05	2.58	0.00	0.00	1.35	13.52							
5900	1.38	0.85	3.37	1.28	0.00	0.00	1.96	8.84							
5905	1.76	1.08	3.93	1.49	0.00	0.00	2.50	10.76							
5910	1.88	1.15	3.82	1.45	0.00	0.00	2.67	10.97							
5920	0.08	0.05	0.51	0.16	0.00	0.00	0.11	0.91							
5925	0.11	0.07	0.82	0.26	0.00	0.00	0.15	1.41							
5930	0.22	0.14	1.63	0.52	0.00	0.00	0.31	2.82							
5940	0.10	0.06	0.31	0.10	0.00	0.00	0.14	0.71							
5945	0.11	0.07	0.31	0.10	0.00	0.00	0.16	0.75							
5955	0.13	0.08	0.11	0.05	0.00	0.00	0.09	0.46							
5960	0.19	0.12	0.27	0.12	0.00	0.00	0.13	0.83							
5965	0.67	0.41	1.35	0.61	0.00	0.00	0.48	3.52							
5970	0.88	0.54	3.24	1.46	0.00	0.00	0.62	6.74							
5980	0.11	0.07	0.11	0.05	0.00	0.00	0.08	0.42							
5985	0.13	0.08	0.22	0.10	0.00	0.00	0.09	0.62							
5995	2.86	1.28	0.00	0.11	0.00	0.00	3.66	7.91	3.82	1.32	0.00	0.11	0.00	0.00	5.48
															10.73
6000	0.23	0.10	0.00	0.00	0.00	0.00	0.30	0.63	0.31	0.11	0.00	0.00	0.00	0.45	0.87
6005	2.09	0.93	0.00	0.09	0.00	0.00	2.67	5.78	2.79	0.96	0.00	0.09	0.00	0.00	4.01
6010	0.10	0.05	0.00	0.00	0.00	0.00	0.13	0.28	0.14	0.05	0.00	0.00	0.00	0.20	0.39
6015	2.49	1.11	0.00	0.11	0.00	0.00	3.17	6.88	3.31	1.14	0.00	0.11	0.00	0.00	4.76
6020	0.22	0.10	0.00	0.00	0.00	0.00	0.28	0.60	0.30	0.10	0.00	0.00	0.00	0.43	0.83

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	
6025	1.75	0.78	0.00	0.09	0.00	0.00	2.23	4.85	2.33	0.80	0.00	0.09	0.00	0.00	3.35	6.57
6030	0.14	0.06	0.00	0.00	0.00	0.00	0.18	0.38	0.19	0.06	0.00	0.00	0.00	0.00	0.27	0.52
6035	1.00	0.45	0.00	0.09	0.00	0.00	1.28	2.82	1.34	0.46	0.00	0.09	0.00	0.00	1.92	3.81
6040	0.05	0.02	0.00	0.00	0.00	0.00	0.07	0.14	0.07	0.02	0.00	0.00	0.00	0.00	0.10	0.19
6045	2.77	1.24	0.00	0.09	0.00	0.00	3.53	7.63	3.69	1.27	0.00	0.09	0.00	0.00	5.30	10.35
6050	0.22	0.10	0.00	0.00	0.00	0.00	0.28	0.60	0.30	0.10	0.00	0.00	0.00	0.00	0.43	0.83
6055	2.45	1.09	0.00	0.09	0.00	0.00	3.12	6.75	3.26	1.12	0.00	0.09	0.00	0.00	4.69	9.16
6060	0.29	0.13	0.00	0.00	0.00	0.00	0.38	0.80	0.39	0.14	0.00	0.00	0.00	0.00	0.56	1.09
6065	0.84	0.46	0.00	0.09	0.00	0.00	1.07	2.46	1.05	0.47	0.00	0.09	0.00	0.00	1.51	3.12
6075	6.02	2.69	0.00	0.24	0.00	0.00	7.68	16.63	8.02	2.77	0.00	0.24	0.00	0.00	11.53	22.56
6080	0.44	0.19	0.00	0.00	0.00	0.00	0.55	1.19	0.58	0.20	0.00	0.00	0.00	0.00	0.84	1.62
6085	6.35	2.83	0.00	0.23	0.00	0.00	8.10	17.51	8.46	2.92	0.00	0.23	0.00	0.00	12.15	23.76
6090	5.04	2.25	0.00	0.18	0.00	0.00	6.44	13.91	6.72	2.32	0.00	0.18	0.00	0.00	9.66	18.88
6095	0.39	0.18	0.00	0.00	0.00	0.00	0.50	1.07	0.52	0.18	0.00	0.00	0.00	0.00	0.75	1.45
6100	4.71	2.10	0.00	0.18	0.00	0.00	6.01	13.00	6.28	2.16	0.00	0.18	0.00	0.00	9.01	17.63
6105	3.37	1.51	0.00	0.11	0.00	0.00	4.30	9.29	4.50	1.55	0.00	0.11	0.00	0.00	6.46	12.62
6110	0.22	0.10	0.00	0.00	0.00	0.00	0.28	0.60	0.29	0.10	0.00	0.00	0.00	0.00	0.42	0.81
6115	3.29	1.47	0.00	0.11	0.00	0.00	4.20	9.07	4.39	1.51	0.00	0.11	0.00	0.00	6.31	12.32
6120	1.89	0.84	0.00	0.09	0.00	0.00	2.41	5.23	2.52	0.87	0.00	0.09	0.00	0.00	3.62	7.10
6125	0.11	0.05	0.00	0.00	0.00	0.00	0.14	0.30	0.15	0.05	0.00	0.00	0.00	0.00	0.21	0.41
6130	1.18	0.53	0.00	0.09	0.00	0.00	1.50	3.30	1.57	0.54	0.00	0.09	0.00	0.00	2.26	4.46
6135	0.06	0.02	0.00	0.00	0.00	0.00	0.07	0.15	0.07	0.03	0.00	0.00	0.00	0.00	0.11	0.21
6140	0.73	0.33	0.00	0.09	0.00	0.00	0.93	2.08	0.97	0.34	0.00	0.09	0.00	0.00	1.40	2.80
6145	0.03	0.01	0.00	0.00	0.00	0.00	0.04	0.08	0.04	0.01	0.00	0.00	0.00	0.00	0.06	0.11
6150	0.31	0.14	0.00	0.09	0.00	0.00	0.39	0.93	0.41	0.14	0.00	0.09	0.00	0.00	0.59	1.23
6155	0.02	0.01	0.00	0.00	0.00	0.00	0.02	0.05	0.02	0.01	0.00	0.00	0.00	0.00	0.03	0.06
6165	6.52	2.91	0.00	0.31	0.00	0.00	8.33	18.07	8.70	3.00	0.00	0.31	0.00	0.00	12.49	24.50
6170	5.14	2.30	0.00	0.22	0.00	0.00	6.57	14.23	6.86	2.36	0.00	0.22	0.00	0.00	9.85	19.29
6175	3.78	1.69	0.00	0.11	0.00	0.00	4.82	10.40	5.03	1.74	0.00	0.11	0.00	0.00	7.23	14.11
6180	2.40	1.07	0.00	0.10	0.00	0.00	3.07	6.64	3.20	1.10	0.00	0.10	0.00	0.00	4.60	9.00
6190	3.39	1.95	3.42	0.82	0.20	0.03	4.72	14.53								
6195	3.80	2.19	3.42	0.82	0.20	0.03	5.30	15.76								
6200	4.34	2.50	3.42	0.82	0.25	0.04	6.05	17.42								
6205	6.85	4.03	5.03	1.21	0.74	0.11	9.59	27.56								
6215	2.92	1.69	3.06	0.73	0.20	0.03	4.08	12.71								
6220	3.16	1.83	3.06	0.73	0.20	0.03	4.42	13.43								
6225	3.26	1.88	3.14	0.75	0.20	0.03	4.55	13.81								
6230	3.11	1.81	7.91	1.90	0.25	0.04	4.35	19.37								
6235	3.46	2.00	3.06	0.73	0.25	0.04	4.83	14.37								
6240	3.22	1.88	7.91	1.90	0.29	0.04	4.51	19.75								
6245	3.58	2.08	3.06	0.73	0.29	0.04	5.00	14.78								
6250	7.70	4.56	4.71	1.13	0.99	0.15	10.80	30.04								
6260	3.17	1.83	2.74	0.66	0.20	0.03	4.42	13.05								
6265	3.96	2.28	2.74	0.66	0.24	0.04	5.52	15.44								
6270	7.99	4.71	5.24	1.26	0.91	0.14	11.20	31.45								
6275	9.14	5.67	5.24	1.26	2.29	0.34	12.96	36.90								
6285	4.19	3.21	0.00	0.22	2.11	0.32	6.26	16.31								
6290	5.84	3.76	0.00	0.24	1.64	0.25	8.35	20.08								
6300	5.41	3.85	0.00	0.41	2.01	0.30	7.93	19.91								
6305	5.75	4.34	0.00	0.46	2.74	0.41	8.56	22.26								
6310	8.35	5.80	0.00	0.69	2.74	0.41	12.17	30.16								
6320	0.75	0.49	0.00	0.05	0.23	0.03	1.07	2.62								
6330	1.25	0.70	0.00	0.15	0.00	0.00	1.73	3.83								
6335	1.61	0.91	0.00	0.15	0.00	0.00	2.23	4.90								
6340	1.68	0.95	0.00	0.15	0.00	0.00	2.33	5.11								

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
6345	2.51	1.42	0.00	0.15	0.00	0.00	3.49	7.57								
6350	3.82	2.15	0.00	0.15	0.00	0.00	5.31	11.43								
6355	5.50	3.10	0.00	0.15	0.00	0.00	7.63	16.38								
6360	3.75	2.11	0.00	0.16	0.00	0.00	5.21	11.23								
6365	4.35	2.45	0.00	0.15	0.00	0.00	6.04	12.99								
6370	6.47	3.65	0.00	0.15	0.00	0.00	8.98	19.25								
6380	0.56	0.32	0.00	0.16	0.00	0.00	0.78	1.82								
6385	1.13	0.64	0.00	0.16	0.00	0.00	1.57	3.50								
6395	13.71	7.73	8.46	2.03	0.00	0.00	19.03	50.96								
6400	20.34	11.46	12.49	3.00	0.00	0.00	28.23	75.52								
6405	21.49	12.11	12.49	3.00	0.00	0.00	29.83	78.92								
6415	21.61	12.18	13.29	3.19	0.00	0.00	29.99	80.26								
6425	2.35	1.33	2.09	0.50	0.00	0.00	3.26	9.53								
6430	2.82	1.59	2.09	0.50	0.00	0.00	3.91	10.91								
6435	4.28	2.41	3.42	0.82	0.00	0.00	5.94	16.87								
6440	4.54	2.56	3.42	0.82	0.00	0.00	6.30	17.64								
6445	4.73	2.66	3.42	0.82	0.00	0.00	6.56	18.19								
6450	5.00	2.82	3.42	0.82	0.00	0.00	6.94	19.00								
6460	4.77	2.69	7.91	1.90	0.00	0.00	6.62	23.89								
6465	5.09	2.87	3.42	0.82	0.00	0.00	7.07	19.27								
6470	5.09	2.87	7.91	1.90	0.00	0.00	7.07	24.84								
6475	5.42	3.05	3.42	0.82	0.00	0.00	7.52	20.23								
6480	2.32	1.30	3.99	0.96	0.00	0.00	3.21	11.78								
6485	3.19	1.79	7.91	1.90	0.00	0.00	4.42	19.21								
6490	3.51	1.98	3.42	0.82	0.00	0.00	4.87	14.60								
6495	3.88	2.19	7.91	1.90	0.00	0.00	5.39	21.27								
6500	4.21	2.37	3.42	0.82	0.00	0.00	5.84	16.66								
6505	4.23	2.38	7.91	1.90	0.00	0.00	5.87	22.29								
6510	4.55	2.56	3.42	0.82	0.00	0.00	6.32	17.67								
6520	1.43	0.65	1.83	0.59	0.00	0.00	2.48	6.98								
6525	1.73	0.79	1.83	0.59	0.00	0.00	3.01	7.95								
6530	3.82	1.75	2.42	0.77	0.00	0.00	6.63	15.39								
6535	4.17	1.91	2.42	0.77	0.00	0.00	7.23	16.50								
6540	5.91	2.71	5.34	1.71	0.00	0.00	10.25	25.92								
6545	6.21	2.85	5.34	1.71	0.00	0.00	10.78	26.89								
6555	4.04	1.85	2.75	0.88	0.00	0.00	7.01	16.53								
6560	4.41	2.02	2.75	0.88	0.00	0.00	7.65	17.71								
6565	7.18	3.29	4.33	1.38	0.00	0.00	12.46	28.64								
6570	7.78	3.57	4.33	1.38	0.00	0.00	13.49	30.55								
6580	2.76	1.27	2.19	0.70	0.00	0.00	4.79	11.71								
6585	3.39	1.55	2.19	0.70	0.00	0.00	5.87	13.70								
6595	2.07	0.95	1.69	0.54	0.00	0.00	3.59	8.84								
6600	1.89	0.87	1.69	0.54	0.00	0.00	3.27	8.26								
6610	8.71	4.00	4.21	1.35	0.00	0.00	15.12	33.39								
6615	6.65	3.05	2.81	0.90	0.00	0.00	11.54	24.95								
6630	6.38	2.97	4.10	1.31	0.21	0.03	11.10	26.10								
6635	7.13	3.42	4.78	1.53	0.72	0.11	12.49	30.18								
6640	8.42	3.90	4.78	1.53	0.19	0.03	14.63	33.48								
6645	9.32	4.40	7.02	2.25	0.61	0.09	16.26	39.95								
6650	8.74	4.12	7.02	2.25	0.53	0.08	15.25	37.99								
6655	9.44	4.44	7.02	2.25	0.53	0.08	16.47	40.23								
6660	10.84	5.08	7.02	2.25	0.53	0.08	18.89	44.69								
6665	9.70	4.56	7.02	2.25	0.53	0.08	16.92	41.06								
6670	10.50	4.93	7.02	2.25	0.53	0.08	18.31	43.62								
6680	9.40	4.31	7.02	2.25	0.00	0.00	16.31	39.29								

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	
6685	7.53	3.56	4.78	1.53	0.53	0.08	13.15	31.16								
6690	7.98	3.77	6.74	2.16	0.53	0.08	13.94	35.20								
6695	9.15	4.30	6.74	2.16	0.53	0.08	15.96	38.92								
6705	9.69	4.55	6.46	2.07	0.53	0.08	16.90	40.28								
6710	14.01	6.65	11.40	3.65	1.07	0.16	24.48	61.42								
6720	5.90	2.73	3.93	1.26	0.11	0.02	10.25	24.20								
6725	5.94	2.77	3.93	1.26	0.22	0.03	10.34	24.49								
6730	7.90	3.65	4.49	1.44	0.15	0.02	13.73	31.38								
6735	6.83	3.18	4.49	1.44	0.22	0.03	11.88	28.07								
6740	6.43	3.10	3.93	1.26	0.72	0.11	11.28	26.83								
6745	8.82	4.14	4.94	1.58	0.46	0.07	15.37	35.38								
6750	10.28	4.81	6.69	2.14	0.48	0.07	17.91	42.38								
6755	8.27	3.90	7.02	2.25	0.53	0.08	14.43	36.48								
6760	11.99	5.63	6.69	2.14	0.61	0.09	20.91	48.06								
6765	10.40	4.90	6.69	2.14	0.61	0.09	18.14	42.97								
6770	8.93	4.26	7.02	2.25	0.79	0.12	15.63	39.00								
6780	6.60	3.18	3.82	1.22	0.72	0.11	11.57	27.22								
6785	6.03	2.81	3.82	1.22	0.20	0.03	10.50	24.61								
6790	7.06	3.28	4.49	1.44	0.20	0.03	12.27	28.77								
6795	7.56	3.62	4.21	1.35	0.72	0.11	13.24	30.81								
6800	7.69	3.57	4.49	1.44	0.20	0.03	13.38	30.80								
6805	10.10	4.74	6.18	1.98	0.53	0.08	17.62	41.23								
6810	8.43	3.97	6.01	1.92	0.53	0.08	14.71	35.65								
6815	9.10	4.28	6.01	1.92	0.53	0.08	15.88	37.80								
6820	11.58	5.42	6.18	1.98	0.53	0.08	20.18	45.95								
6830	1.22	0.56	0.90	0.29	0.00	0.00	2.12	5.09								
6835	3.18	1.46	1.91	0.61	0.00	0.00	5.52	12.68								
6840	7.55	3.46	3.99	1.28	0.00	0.00	13.11	29.39								
6845	10.19	4.67	7.02	2.25	0.00	0.00	17.67	41.80								
6850	12.21	5.60	8.71	2.79	0.00	0.00	21.18	50.49								
6855	14.70	6.74	10.17	3.25	0.00	0.00	25.50	60.36								
6860	17.09	7.84	10.17	3.25	0.00	0.00	29.64	67.99								
6870	1.17	0.53	0.90	0.29	0.00	0.00	2.02	4.91								
6875	2.65	1.21	1.97	0.63	0.00	0.00	4.59	11.05								
6880	6.96	3.19	3.93	1.26	0.00	0.00	12.07	27.41								
6885	9.39	4.31	6.46	2.07	0.00	0.00	16.29	38.52								
6890	12.31	5.64	6.69	2.14	0.00	0.00	21.35	48.13								
6900	1.20	0.55	1.43	0.46	0.00	0.00	2.08	5.72								
6905	6.16	2.83	2.92	0.93	0.00	0.00	10.69	23.53								
6910	9.31	4.27	4.49	1.44	0.00	0.00	16.15	35.66								
6915	11.69	5.36	8.76	2.80	0.00	0.00	20.28	48.89								
6920	20.37	9.34	14.72	4.71	0.00	0.00	35.34	84.48								
6930	10.05	6.06	6.20	2.48	3.05	0.46	12.88	41.18	12.57	6.16	8.11	3.24	5.07	0.76	17.17	53.08
6935	17.37	9.61	10.33	3.31	6.35	0.95	18.06	65.98	21.71	9.80	13.51	4.32	10.55	1.58	24.32	85.79
6940	22.16	12.15	12.24	3.92	7.28	1.09	21.24	80.08	27.70	12.39	16.09	5.15	12.10	1.81	28.76	104.00
6945	24.64	13.50	13.64	4.37	8.01	1.20	25.58	90.94	30.80	13.76	17.84	5.71	13.31	2.00	34.43	117.85
6950	25.66	13.92	17.65	4.59	9.66	1.45	26.59	99.52	32.08	14.18	22.90	5.95	16.78	2.52	35.80	130.21
6955	27.36	14.77	17.65	4.59	9.66	1.45	28.34	103.82	34.20	15.06	22.90	5.95	16.78	2.52	38.14	135.55
6960	33.91	18.55	16.69	5.34	10.83	1.62	32.49	119.43	42.39	18.91	21.94	7.02	17.99	2.70	44.00	154.95
6965	39.02	21.13	18.60	5.95	10.83	1.62	40.43	137.58	48.77	21.53	24.33	7.78	17.99	2.70	54.42	177.52
6970	42.22	22.74	27.45	7.14	14.37	2.16	43.71	159.79	52.78	23.18	35.62	9.26	24.96	3.74	58.84	208.38
6975	44.16	23.72	27.45	7.14	14.37	2.16	45.69	164.69	55.20	24.18	35.62	9.26	24.96	3.74	61.50	214.46
6980	48.26	26.14	27.45	7.14	17.83	2.67	50.00	179.49	60.33	26.64	35.62	9.26	30.97	4.65	67.31	234.78
6985	44.31	24.31	20.40	6.53	14.69	2.20	42.47	154.91	55.38	24.78	26.82	8.58	24.41	3.66	57.51	201.14
6990	54.85	29.63	37.26	9.69	19.49	2.92	56.81	210.65	68.56	30.20	48.34	12.57	33.86	5.08	76.47	275.08

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	
7005	15.12	8.26	9.47	3.03	4.70	0.70	15.69	56.97	18.90	8.41	12.38	3.96	7.80	1.17	21.12	73.74
7010	19.83	10.90	12.06	3.86	6.76	1.01	19.01	73.43	24.78	11.11	15.85	5.07	11.23	1.68	25.75	95.47
7015	22.58	12.24	13.44	4.30	6.33	0.95	23.40	83.24	28.23	12.47	17.57	5.62	10.52	1.58	31.50	107.49
7020	24.40	13.15	19.45	5.06	8.40	1.26	25.27	96.99	30.51	13.41	25.24	6.56	14.59	2.19	34.01	126.51
7025	29.26	15.67	19.45	5.06	9.05	1.36	30.26	110.11	36.58	15.97	25.24	6.56	15.71	2.36	40.74	143.16
7035	10.52	6.26	5.17	2.07	2.65	0.40	13.44	40.51	13.15	6.37	6.76	2.70	4.41	0.66	17.93	51.98
7040	21.16	11.65	12.09	3.87	7.28	1.09	20.29	77.43	26.45	11.87	15.90	5.09	12.10	1.81	27.48	100.70
7045	25.15	13.66	20.04	5.21	9.66	1.45	26.07	101.24	31.43	13.92	26.00	6.76	16.78	2.52	35.09	132.50
7050	23.88	13.02	13.48	4.31	7.28	1.09	24.77	87.83	29.85	13.27	17.62	5.64	12.10	1.81	33.34	113.63
7060	10.81	6.42	7.23	2.89	2.65	0.40	13.80	44.20	13.51	6.53	9.46	3.78	4.41	0.66	18.40	56.75
7065	15.23	8.31	10.33	3.31	4.70	0.70	15.80	58.38	19.04	8.47	13.51	4.32	7.80	1.17	21.27	75.58
7075	21.74	11.94	12.82	4.10	7.28	1.09	22.58	81.55	27.17	12.17	16.76	5.36	12.10	1.81	30.39	105.76
7080	34.18	18.91	17.62	5.64	12.48	1.87	32.81	123.51	42.73	19.27	23.16	7.41	20.73	3.11	44.43	160.84
7085	22.44	12.17	11.30	2.94	8.42	1.26	23.25	81.78	28.05	12.40	14.65	3.81	14.63	2.19	31.30	107.03
7090	37.95	20.55	24.28	6.31	13.96	2.09	39.32	144.46	47.44	20.94	31.49	8.19	24.25	3.64	52.93	188.88
7095	44.61	24.17	28.12	7.31	16.56	2.48	46.22	169.47	55.76	24.63	36.48	9.49	28.76	4.31	62.22	221.65
7110	5.02	3.70	0.00	0.14	1.67	0.25	6.04	16.82	6.02	3.74	0.00	0.14	2.18	0.33	7.77	20.18
7115	6.23	4.82	0.00	0.14	2.99	0.45	7.59	22.22	7.48	4.87	0.00	0.14	3.91	0.59	9.76	26.75
7125	2.51	1.91	0.00	0.09	1.03	0.15	3.05	8.74	3.02	1.93	0.00	0.09	1.35	0.20	3.92	10.51
7135	8.19	4.68	6.28	1.76	0.89	0.13	10.37	32.30	10.24	4.76	8.22	2.30	1.52	0.23	14.69	41.96
7140	12.84	7.42	12.57	3.52	2.19	0.33	16.30	55.17	16.05	7.55	16.43	4.60	3.76	0.56	23.09	72.04
7150	11.99	6.76	13.85	3.88	0.50	0.07	15.15	52.20	14.99	6.88	18.11	5.07	0.81	0.12	21.46	67.44
7160	3.25	1.97	2.82	1.02	0.00	0.00	6.09	15.15	4.07	2.00	3.72	1.34	0.00	0.00	8.31	19.44
7165	0.81	0.44	0.00	0.09	0.00	0.00	1.03	2.37	1.01	0.45	0.00	0.09	0.00	0.00	1.45	3.00
7170	4.75	2.88	3.48	1.25	0.00	0.00	8.90	21.26	5.94	2.92	4.58	1.65	0.00	0.00	12.13	27.22
7175	0.96	0.52	0.00	0.09	0.00	0.00	1.22	2.79	1.20	0.53	0.00	0.09	0.00	0.00	1.72	3.54
7180	0.76	0.42	0.00	0.09	0.00	0.00	0.97	2.24	0.95	0.42	0.00	0.09	0.00	0.00	1.36	2.82
7185	7.20	4.36	4.56	1.64	0.00	0.00	13.48	31.24	9.00	4.43	6.01	2.16	0.00	0.00	18.38	39.98
7190	1.28	0.70	0.00	0.09	0.00	0.00	1.64	3.71	1.60	0.72	0.00	0.09	0.00	0.00	2.30	4.71
7195	1.02	0.56	0.00	0.09	0.00	0.00	1.31	2.98	1.28	0.57	0.00	0.09	0.00	0.00	1.84	3.78
7200	1.36	0.75	0.00	0.09	0.00	0.00	1.74	3.94	1.71	0.76	0.00	0.09	0.00	0.00	2.45	5.01
7205	9.99	6.05	6.08	2.19	0.00	0.00	18.71	43.02	12.48	6.14	8.01	2.88	0.00	0.00	25.51	55.02
7210	1.35	0.74	0.00	0.09	0.00	0.00	1.72	3.90	1.69	0.75	0.00	0.09	0.00	0.00	2.42	4.95
7215	1.51	0.83	0.00	0.09	0.00	0.00	1.93	4.36	1.89	0.84	0.00	0.09	0.00	0.00	2.71	5.53
7220	1.49	0.82	0.00	0.09	0.00	0.00	1.90	4.30	1.86	0.83	0.00	0.09	0.00	0.00	2.67	5.45
7225	13.76	8.33	8.69	3.13	0.00	0.00	25.77	59.68	17.20	8.46	11.45	4.12	0.00	0.00	35.14	76.37
7230	2.01	1.10	0.00	0.09	0.00	0.00	2.57	5.77	2.51	1.12	0.00	0.09	0.00	0.00	3.61	7.33
7235	2.20	1.21	0.00	0.09	0.00	0.00	2.81	6.31	2.75	1.23	0.00	0.09	0.00	0.00	3.95	8.02
7240	1.75	0.96	0.00	0.09	0.00	0.00	2.24	5.04	2.19	0.98	0.00	0.09	0.00	0.00	3.14	6.40
7245	1.73	0.95	0.00	0.11	0.00	0.00	2.21	5.00	2.16	0.97	0.00	0.11	0.00	0.00	3.10	6.34
7250	22.44	12.31	14.56	4.08	0.00	0.00	32.23	85.62	28.05	12.53	19.18	5.37	0.00	0.00	44.76	109.89
7255	2.96	1.63	0.00	0.13	0.00	0.00	3.78	8.50	3.70	1.65	0.00	0.13	0.00	0.00	5.32	10.80
7260	3.27	1.79	0.00	0.14	0.00	0.00	4.17	9.37	4.08	1.82	0.00	0.14	0.00	0.00	5.86	11.90
7265	2.97	1.63	0.00	0.14	0.00	0.00	3.79	8.53	3.71	1.66	0.00	0.14	0.00	0.00	5.32	10.83
7270	0.09	0.05	0.00	0.05	0.00	0.00	0.12	0.31	0.11	0.05	0.00	0.05	0.00	0.00	0.16	0.37
7275	2.25	1.24	0.00	0.16	0.00	0.00	2.88	6.53	2.82	1.26	0.00	0.16	0.00	0.00	4.04	8.28
7280	26.49	15.64	19.99	4.80	0.00	0.00	35.80	102.72	31.79	15.85	26.33	6.32	0.00	0.00	47.74	128.03
7285	4.09	2.24	0.00	0.20	0.00	0.00	5.22	11.75	5.11	2.28	0.00	0.20	0.00	0.00	7.34	14.93
7290	4.32	2.37	0.00	0.21	0.00	0.00	5.52	12.42	5.40	2.41	0.00	0.21	0.00	0.00	7.76	15.78
7295	3.60	1.97	0.00	0.18	0.00	0.00	4.59	10.34	4.50	2.01	0.00	0.18	0.00	0.00	6.46	13.15
7300	1.05	0.58	0.00	0.13	0.00	0.00	1.34	3.10	1.31	0.59	0.00	0.13	0.00	0.00	1.89	3.92
7305	0.12	0.07	0.00	0.09	0.00	0.00	0.16	0.44	0.15	0.07	0.00	0.09	0.00	0.00	0.22	0.53
7310	2.44	1.34	0.00	0.22	0.00	0.00	3.12	7.12	3.05	1.36	0.00	0.22	0.00	0.00	4.38	9.01
7315	44.42	26.22	30.42	7.30	0.00	0.00	60.03	168.39	53.30	26.57	40.07	9.62	0.00	0.00	80.04	209.60
7320	6.15	3.37	0.00	0.31	0.00	0.00	7.85	17.68	7.69	3.43	0.00	0.31	0.00	0.00	11.04	22.47

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
7325	6.72	3.69	0.00	0.32	0.00	0.00	8.58	19.31	8.40	3.75	0.00	0.32	0.00	0.00	12.07	24.54
7330	0.14	0.08	0.00	0.09	0.00	0.00	0.18	0.49	0.17	0.08	0.00	0.09	0.00	0.00	0.25	0.59
7335	4.58	2.51	0.00	0.22	0.00	0.00	5.85	13.16	5.73	2.56	0.00	0.22	0.00	0.00	8.23	16.74
7345	3.96	2.40	2.74	0.99	0.00	0.00	7.42	17.51	4.95	2.44	3.61	1.30	0.00	0.00	10.12	22.42
7350	4.68	2.83	3.39	1.22	0.00	0.00	8.77	20.89	5.85	2.88	4.46	1.61	0.00	0.00	11.95	26.75
7355	5.04	3.05	3.82	1.38	0.00	0.00	9.43	22.72	6.29	3.10	5.04	1.81	0.00	0.00	12.86	29.10
7360	0.83	0.45	0.00	0.09	0.00	0.00	1.06	2.43	1.03	0.46	0.00	0.09	0.00	0.00	1.49	3.07
7365	0.83	0.45	0.00	0.05	0.00	0.00	1.05	2.38	1.03	0.46	0.00	0.05	0.00	0.00	1.48	3.02
7370	6.90	4.18	5.30	1.91	0.00	0.00	12.92	31.21	8.62	4.24	6.98	2.51	0.00	0.00	17.61	39.96
7375	0.93	0.51	0.00	0.09	0.00	0.00	1.18	2.71	1.16	0.52	0.00	0.09	0.00	0.00	1.66	3.43
7380	1.12	0.61	0.00	0.05	0.00	0.00	1.43	3.21	1.40	0.63	0.00	0.05	0.00	0.00	2.01	4.09
7385	8.77	5.31	6.52	2.35	0.00	0.00	16.43	39.38	10.96	5.40	8.59	3.09	0.00	0.00	22.40	50.44
7390	1.41	0.77	0.00	0.09	0.00	0.00	1.80	4.07	1.76	0.79	0.00	0.09	0.00	0.00	2.53	5.17
7395	1.41	0.77	0.00	0.05	0.00	0.00	1.80	4.03	1.76	0.79	0.00	0.05	0.00	0.00	2.53	5.13
7400	13.11	7.94	9.69	3.49	0.00	0.00	24.55	58.78	16.38	8.06	12.76	4.60	0.00	0.00	33.48	75.28
7405	1.53	0.84	0.00	0.09	0.00	0.00	1.95	4.41	1.91	0.85	0.00	0.09	0.00	0.00	2.74	5.59
7410	1.60	0.88	0.00	0.09	0.00	0.00	2.04	4.61	1.99	0.89	0.00	0.09	0.00	0.00	2.86	5.83
7415	2.14	1.18	0.00	0.05	0.00	0.00	2.74	6.11	2.68	1.20	0.00	0.05	0.00	0.00	3.85	7.78
7420	21.41	11.75	13.04	3.65	0.00	0.00	30.76	80.61	26.77	11.96	17.17	4.81	0.00	0.00	42.72	103.43
7425	3.02	1.66	0.00	0.13	0.00	0.00	3.86	8.67	3.78	1.69	0.00	0.13	0.00	0.00	5.42	11.02
7430	3.03	1.66	0.00	0.11	0.00	0.00	3.87	8.67	3.79	1.69	0.00	0.11	0.00	0.00	5.45	11.04
7435	27.31	16.12	19.77	4.75	0.00	0.00	36.90	104.85	32.77	16.33	26.04	6.25	0.00	0.00	49.20	130.59
7440	4.63	2.54	0.00	0.24	0.00	0.00	5.91	13.32	5.79	2.59	0.00	0.24	0.00	0.00	8.32	16.94
7445	4.75	2.60	0.00	0.27	0.00	0.00	6.06	13.68	5.93	2.65	0.00	0.27	0.00	0.00	8.52	17.37
7450	2.91	1.60	0.00	0.13	0.00	0.00	3.72	8.36	3.64	1.63	0.00	0.13	0.00	0.00	5.23	10.63
7455	36.54	21.57	22.82	5.48	0.00	0.00	49.38	135.79	43.85	21.85	30.05	7.21	0.00	0.00	65.84	168.80
7460	5.27	2.89	0.00	0.29	0.00	0.00	6.73	15.18	6.59	2.94	0.00	0.29	0.00	0.00	9.46	19.28
7465	6.02	3.30	0.00	0.27	0.00	0.00	7.69	17.28	7.53	3.36	0.00	0.27	0.00	0.00	10.81	21.97
7470	3.36	1.84	0.00	0.13	0.00	0.00	4.29	9.62	4.20	1.88	0.00	0.13	0.00	0.00	6.03	12.24
7480	4.16	2.52	2.82	1.02	0.00	0.00	7.78	18.30	5.19	2.56	3.72	1.34	0.00	0.00	10.62	23.43
7485	5.30	3.21	3.39	1.22	0.00	0.00	9.92	23.04	6.62	3.26	4.46	1.61	0.00	0.00	13.53	29.48
7490	7.68	4.65	4.78	1.72	0.00	0.00	14.38	33.21	9.60	4.72	6.30	2.27	0.00	0.00	19.61	42.50
7495	9.69	5.87	6.08	2.19	0.00	0.00	18.15	41.98	12.11	5.96	8.01	2.88	0.00	0.00	24.74	53.70
7500	1.16	0.64	0.00	0.05	0.00	0.00	1.48	3.33	1.45	0.65	0.00	0.05	0.00	0.00	2.08	4.23
7505	1.30	0.71	0.00	0.05	0.00	0.00	1.66	3.72	1.63	0.73	0.00	0.05	0.00	0.00	2.34	4.75
7510	14.68	8.89	9.13	3.29	0.00	0.00	27.49	63.48	18.34	9.03	12.02	4.33	0.00	0.00	37.49	81.21
7515	2.01	1.10	0.00	0.05	0.00	0.00	2.56	5.72	2.51	1.12	0.00	0.05	0.00	0.00	3.61	7.29
7520	1.42	0.78	0.00	0.05	0.00	0.00	1.81	4.06	1.77	0.79	0.00	0.05	0.00	0.00	2.55	5.16
7525	20.18	11.07	13.47	3.77	0.00	0.00	28.98	77.47	25.22	11.27	17.74	4.97	0.00	0.00	40.25	99.45
7530	2.55	1.40	0.00	0.11	0.00	0.00	3.26	7.32	3.19	1.43	0.00	0.11	0.00	0.00	4.58	9.31
7535	2.15	1.18	0.00	0.13	0.00	0.00	2.75	6.21	2.69	1.20	0.00	0.13	0.00	0.00	3.86	7.88
7540	0.86	0.47	0.00	0.09	0.00	0.00	1.10	2.52	1.08	0.48	0.00	0.09	0.00	0.00	1.55	3.20
7545	0.51	0.28	0.00	0.14	0.00	0.00	0.66	1.59	0.64	0.29	0.00	0.14	0.00	0.00	0.92	1.99
7550	0.10	0.05	0.00	0.09	0.00	0.00	0.12	0.36	0.12	0.05	0.00	0.09	0.00	0.00	0.18	0.44
7560	2.95	1.79	1.83	0.66	0.00	0.00	5.53	12.76	3.69	1.82	2.40	0.87	0.00	0.00	7.54	16.32
7565	4.06	2.46	2.82	1.02	0.00	0.00	7.61	17.97	5.08	2.50	3.72	1.34	0.00	0.00	10.38	23.02
7570	4.84	2.93	3.13	1.13	0.00	0.00	9.06	21.09	6.05	2.98	4.12	1.48	0.00	0.00	12.36	26.99
7575	9.10	5.51	4.78	1.72	0.00	0.00	17.05	38.16	11.38	5.60	6.30	2.27	0.00	0.00	23.25	48.80
7580	11.88	7.20	6.30	2.27	0.00	0.00	22.26	49.91	14.85	7.31	8.30	2.99	0.00	0.00	30.35	63.80
7590	3.42	2.07	2.87	1.03	0.00	0.00	6.42	15.81	4.28	2.11	3.78	1.36	0.00	0.00	8.75	20.28
7595	0.59	0.32	0.00	0.05	0.00	0.00	0.75	1.71	0.74	0.33	0.00	0.05	0.00	0.00	1.06	2.18
7600	5.14	3.11	3.91	1.41	0.00	0.00	9.63	23.20	6.43	3.16	5.15	1.85	0.00	0.00	13.14	29.73
7605	0.64	0.35	0.00	0.05	0.00	0.00	0.82	1.86	0.81	0.36	0.00	0.05	0.00	0.00	1.16	2.38
7610	7.38	4.47	5.13	1.85	0.00	0.00	13.83	32.66	9.23	4.54	6.75	2.43	0.00	0.00	18.86	41.81
7615	0.74	0.41	0.00	0.05	0.00	0.00	0.94	2.14	0.92	0.41	0.00	0.05	0.00	0.00	1.33	2.71

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	
7620	10.31	6.24	7.17	2.58	0.00	0.00	19.32	45.62	12.89	6.34	9.44	3.40	0.00	0.00	26.34	58.41
7625	0.98	0.54	0.00	0.05	0.00	0.00	1.25	2.82	1.22	0.55	0.00	0.05	0.00	0.00	1.76	3.58
7630	13.58	8.22	9.55	3.44	0.00	0.00	25.44	60.24	16.98	8.36	12.59	4.53	0.00	0.00	34.69	77.15
7635	1.54	0.84	0.00	0.09	0.00	0.00	1.96	4.43	1.92	0.86	0.00	0.09	0.00	0.00	2.76	5.63
7640	1.64	0.90	0.00	0.11	0.00	0.00	2.09	4.74	2.05	0.91	0.00	0.11	0.00	0.00	2.94	6.01
7645	19.71	10.81	13.91	3.89	0.00	0.00	28.31	76.63	24.63	11.00	18.32	5.13	0.00	0.00	39.31	98.39
7650	2.12	1.16	0.00	0.15	0.00	0.00	2.71	6.14	2.65	1.18	0.00	0.15	0.00	0.00	3.81	7.79
7655	2.23	1.22	0.00	0.15	0.00	0.00	2.84	6.44	2.78	1.24	0.00	0.15	0.00	0.00	4.00	8.17
7660	26.25	14.40	17.82	4.99	0.00	0.00	37.70	101.16	32.81	14.66	23.47	6.57	0.00	0.00	52.37	129.88
7665	2.89	1.59	0.00	0.22	0.00	0.00	3.69	8.39	3.62	1.62	0.00	0.22	0.00	0.00	5.20	10.66
7670	2.65	1.45	0.00	0.20	0.00	0.00	3.38	7.68	3.31	1.48	0.00	0.20	0.00	0.00	4.75	9.74
7675	41.01	24.21	26.95	6.47	0.00	0.00	55.41	154.05	49.21	24.53	35.49	8.52	0.00	0.00	73.89	191.64
7680	6.46	3.54	0.00	0.26	0.00	0.00	8.24	18.50	8.07	3.60	0.00	0.26	0.00	0.00	11.59	23.52
7685	6.06	3.32	0.00	0.23	0.00	0.00	7.74	17.35	7.57	3.38	0.00	0.23	0.00	0.00	10.88	22.06
7690	5.66	3.11	0.00	0.21	0.00	0.00	7.23	16.21	7.08	3.16	0.00	0.21	0.00	0.00	10.17	20.62
7700	13.17	7.97	8.91	3.21	0.00	0.00	24.87	57.93	16.46	8.10	11.73	4.22	0.00	0.00	33.64	74.15
7705	1.44	0.79	0.00	0.05	0.00	0.00	1.84	4.12	1.80	0.80	0.00	0.05	0.00	0.00	2.59	5.24
7710	1.62	0.89	0.00	0.05	0.00	0.00	2.07	4.63	2.03	0.91	0.00	0.05	0.00	0.00	2.91	5.90
7715	1.65	0.91	0.00	0.05	0.00	0.00	2.11	4.72	2.07	0.92	0.00	0.05	0.00	0.00	2.97	6.01
7720	16.26	8.92	11.30	3.16	0.00	0.00	23.36	63.00	20.33	9.08	14.88	4.17	0.00	0.00	32.44	80.90
7725	2.06	1.13	0.00	0.05	0.00	0.00	2.62	5.86	2.57	1.15	0.00	0.05	0.00	0.00	3.69	7.46
7730	2.69	1.48	0.00	0.05	0.00	0.00	3.44	7.66	3.37	1.50	0.00	0.05	0.00	0.00	4.84	9.76
7735	2.26	1.24	0.00	0.05	0.00	0.00	2.88	6.43	2.82	1.26	0.00	0.05	0.00	0.00	4.06	8.19
7740	21.74	11.92	15.21	4.26	0.00	0.00	31.22	84.35	27.17	12.14	20.03	5.61	0.00	0.00	43.36	108.31
7745	2.68	1.47	0.00	0.13	0.00	0.00	3.43	7.71	3.35	1.50	0.00	0.13	0.00	0.00	4.82	9.80
7750	2.94	1.61	0.00	0.14	0.00	0.00	3.75	8.44	3.68	1.64	0.00	0.14	0.00	0.00	5.28	10.74
7755	2.57	1.41	0.00	0.12	0.00	0.00	3.28	7.38	3.21	1.44	0.00	0.12	0.00	0.00	4.62	9.39
7760	0.11	0.06	0.00	0.05	0.00	0.00	0.14	0.36	0.14	0.06	0.00	0.05	0.00	0.00	0.20	0.45
7765	0.67	0.37	0.00	0.12	0.00	0.00	0.85	2.01	0.84	0.37	0.00	0.12	0.00	0.00	1.20	2.53
7775	12.93	7.67	8.46	2.37	2.71	0.41	13.49	48.04	16.16	7.80	11.13	3.12	5.67	0.85	18.27	63.00
7780	17.87	11.04	12.49	3.50	6.73	1.01	18.82	71.46	22.34	11.24	16.43	4.60	14.10	2.11	25.49	96.31
7785	26.07	16.33	18.13	5.08	8.05	1.21	27.54	102.41	32.59	16.61	23.85	6.68	16.87	2.53	37.30	136.43
7795	20.31	12.54	12.16	3.41	7.59	1.14	21.39	78.54	25.39	12.76	16.01	4.48	15.91	2.39	28.97	105.91
7800	34.08	21.20	23.04	6.45	9.81	1.47	35.95	132.00	42.60	21.55	30.32	8.49	20.55	3.08	48.68	175.28
7810	1.18	0.70	1.73	0.48	0.24	0.04	1.24	5.61	1.48	0.72	2.28	0.64	0.50	0.07	1.67	7.36
7815	1.51	0.89	2.50	0.70	0.26	0.04	1.57	7.47	1.89	0.91	3.29	0.92	0.54	0.08	2.13	9.76
7825	0.27	0.16	0.67	0.19	0.04	0.01	0.41	1.75	0.34	0.16	0.87	0.24	0.05	0.01	0.57	2.24
7830	1.17	0.66	1.33	0.37	0.05	0.01	1.75	5.34	1.46	0.67	1.73	0.49	0.08	0.01	2.43	6.87
7835	1.61	0.91	2.07	0.58	0.08	0.01	2.41	7.67	2.01	0.93	2.70	0.76	0.11	0.02	3.34	9.87
7840	2.99	1.71	2.58	0.72	0.24	0.04	4.49	12.77	3.74	1.74	3.39	0.95	0.33	0.05	6.23	16.43
7845	6.09	3.46	4.23	1.18	0.38	0.06	9.11	24.51	7.61	3.52	5.56	1.56	0.53	0.08	12.66	31.52
7860	1.97	1.11	0.97	0.27	0.08	0.01	2.95	7.36	2.47	1.13	1.27	0.36	0.11	0.02	4.10	9.46
7865	3.86	2.20	1.77	0.50	0.24	0.04	5.78	14.39	4.83	2.24	2.33	0.65	0.33	0.05	8.03	18.46
7870	4.28	2.43	2.22	0.62	0.24	0.04	6.40	16.23	5.35	2.47	2.91	0.82	0.33	0.05	8.89	20.82
7875	7.04	3.91	4.55	1.27	0.00	0.00	10.49	27.26	8.80	3.98	5.99	1.68	0.00	0.00	14.57	35.02
7880	13.61	7.55	7.05	1.97	0.00	0.00	20.27	50.45	17.02	7.69	9.27	2.60	0.00	0.00	28.16	64.74
7890	11.26	6.25	4.03	1.13	0.00	0.00	16.76	39.43	14.07	6.36	5.30	1.48	0.00	0.00	23.28	50.49
7895	16.32	9.06	6.44	1.80	0.00	0.00	24.30	57.92	20.40	9.21	8.48	2.37	0.00	0.00	33.76	74.22
7900	20.64	11.45	6.44	1.80	0.00	0.00	30.73	71.06	25.80	11.65	8.48	2.37	0.00	0.00	42.69	90.99
7910	9.04	5.01	2.70	0.76	0.00	0.00	13.46	30.97	11.30	5.10	3.55	0.99	0.00	0.00	18.69	39.63
7915	9.85	5.46	2.70	0.76	0.00	0.00	14.66	33.43	12.31	5.56	3.55	0.99	0.00	0.00	20.37	42.78
7920	10.14	5.63	2.70	0.76	0.00	0.00	15.11	34.34	12.68	5.73	3.55	0.99	0.00	0.00	20.98	43.93
7925	18.82	10.44	6.04	1.69	0.00	0.00	28.03	65.02	23.52	10.63	7.95	2.23	0.00	0.00	38.93	83.26
7930	23.42	13.00	7.05	1.97	0.00	0.00	34.88	80.32	29.28	13.23	9.27	2.60	0.00	0.00	48.45	102.83
7945	1.12	0.46	2.30	0.64	0.14	0.02	1.47	6.15	1.34	0.47	3.07	0.86	0.18	0.03	2.02	7.97

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	
7950	1.39	0.56	2.30	0.64	0.17	0.03	1.82	6.91	1.67	0.57	3.07	0.86	0.22	0.03	2.49	8.91
7955	1.22	0.50	2.30	0.64	0.19	0.03	1.60	6.48	1.46	0.51	3.07	0.86	0.23	0.03	2.20	8.36
7960	1.44	0.59	2.30	0.64	0.22	0.03	1.89	7.11	1.72	0.60	3.07	0.86	0.29	0.04	2.59	9.17
7965	1.27	0.54	2.30	0.64	0.30	0.04	1.69	6.78	1.53	0.55	3.07	0.86	0.38	0.06	2.31	8.76
7970	1.62	0.90	6.04	1.81	0.50	0.07	1.85	12.79	2.16	0.93	7.76	2.33	0.63	0.09	2.88	16.78
7975	2.25	1.22	3.73	0.97	0.50	0.07	2.55	11.29	3.00	1.25	4.84	1.26	0.63	0.09	3.96	15.03
7980	1.88	1.03	6.94	2.08	0.50	0.07	2.13	14.63	2.50	1.06	8.92	2.68	0.63	0.09	3.32	19.20
7985	2.56	1.38	3.73	0.97	0.50	0.07	2.89	12.10	3.41	1.42	4.84	1.26	0.63	0.09	4.50	16.15
7990	2.06	1.14	6.94	2.08	0.57	0.09	2.35	15.23	2.75	1.17	8.92	2.68	0.72	0.11	3.65	20.00
7995	2.54	1.45	3.73	0.97	0.98	0.15	2.92	12.74	3.39	1.48	4.84	1.26	1.26	0.19	4.54	16.96
8000	3.45	1.72	12.99	4.16	1.00	0.15	3.64	27.11	4.60	1.77	16.73	5.35	1.29	0.19	5.66	35.59
8005	4.71	2.33	6.04	1.69	1.22	0.18	4.97	21.14	6.28	2.39	7.85	2.20	1.58	0.24	7.73	28.27
8010	4.93	2.44	6.04	1.69	1.27	0.19	5.20	21.76	6.57	2.50	7.85	2.20	1.63	0.24	8.08	29.07
8015	4.64	2.30	6.04	1.69	1.27	0.19	4.90	21.03	6.19	2.37	7.85	2.20	1.63	0.24	7.62	28.10
8020	5.46	2.68	6.04	1.69	1.27	0.19	5.74	23.07	7.27	2.75	7.85	2.20	1.63	0.24	8.93	30.87
8025	7.16	3.52	8.25	2.31	1.72	0.26	7.54	30.76	9.54	3.62	10.72	3.00	2.22	0.33	11.72	41.15
8030	7.58	3.73	8.25	2.31	1.84	0.28	7.99	31.98	10.11	3.84	10.72	3.00	2.36	0.35	12.43	42.81
8035	7.17	3.55	8.25	2.31	1.84	0.28	7.56	30.96	9.56	3.65	10.72	3.00	2.36	0.35	11.77	41.41
8040	7.08	3.46	9.87	2.76	1.53	0.23	7.45	32.38	9.44	3.56	12.83	3.59	1.98	0.30	11.59	43.29
8050	1.14	0.47	2.77	0.78	0.16	0.02	1.50	6.84	1.37	0.48	3.70	1.03	0.20	0.03	2.05	8.86
8055	1.46	0.59	2.77	0.78	0.16	0.02	1.92	7.70	1.76	0.61	3.70	1.03	0.20	0.03	2.63	9.96
8060	1.62	0.65	2.77	0.78	0.18	0.03	2.12	8.15	1.94	0.66	3.70	1.03	0.23	0.03	2.90	10.49
8065	1.35	0.55	2.77	0.78	0.16	0.02	1.77	7.40	1.62	0.56	3.70	1.03	0.20	0.03	2.43	9.57
8070	1.57	0.64	2.77	0.78	0.18	0.03	2.06	8.03	1.89	0.65	3.70	1.03	0.24	0.04	2.82	10.37
8075	1.50	0.63	2.69	0.75	0.30	0.05	1.98	7.90	1.80	0.64	3.58	1.00	0.39	0.06	2.72	10.19
8080	1.48	0.83	6.31	1.89	0.50	0.07	1.69	12.77	1.97	0.85	8.11	2.43	0.63	0.09	2.63	16.71
8085	1.62	0.90	6.31	1.89	0.50	0.07	1.85	13.14	2.16	0.93	8.11	2.43	0.63	0.09	2.87	17.22
8090	2.32	1.26	3.79	0.99	0.50	0.07	2.63	11.55	3.09	1.29	4.93	1.28	0.63	0.09	4.09	15.40
8095	1.73	0.97	7.02	2.11	0.57	0.09	1.98	14.47	2.30	1.00	9.02	2.71	0.72	0.11	3.08	18.94
8100	3.44	1.87	5.17	1.35	0.72	0.11	3.90	16.56	4.59	1.91	6.73	1.75	0.91	0.14	6.06	22.09
8105	3.25	1.66	12.06	3.86	1.25	0.19	3.46	25.73	4.34	1.71	15.53	4.97	1.62	0.24	5.38	33.79
8110	3.93	1.98	7.07	1.98	1.25	0.19	4.16	20.56	5.25	2.03	9.19	2.57	1.62	0.24	6.48	27.38
8115	4.54	2.22	8.11	2.27	0.99	0.15	4.78	23.06	6.05	2.28	10.54	2.95	1.26	0.19	7.43	30.70
8120	5.12	2.52	7.24	2.03	1.25	0.19	5.40	23.75	6.83	2.59	9.42	2.64	1.62	0.24	8.39	31.73
8125	4.71	2.55	5.29	1.38	0.98	0.15	5.33	20.39	6.28	2.62	6.88	1.79	1.24	0.19	8.29	27.29
8130	5.98	2.91	10.35	2.90	1.25	0.19	6.28	29.86	7.97	2.99	13.45	3.77	1.62	0.24	9.77	39.81
8135	6.05	3.00	10.59	2.97	1.62	0.24	6.39	30.86	8.07	3.09	13.77	3.86	2.07	0.31	9.93	41.10
8140	7.13	3.52	10.59	2.97	1.80	0.27	7.52	33.80	9.51	3.62	13.77	3.86	2.30	0.35	11.70	45.11
8150	1.74	0.94	3.56	0.93	0.36	0.05	1.97	9.55	2.32	0.97	4.63	1.20	0.45	0.07	3.06	12.70
8155	1.57	0.86	5.76	1.73	0.36	0.05	1.78	12.11	2.10	0.88	7.41	2.22	0.45	0.07	2.77	15.90
8160	2.26	1.21	3.79	0.99	0.36	0.05	2.55	11.21	3.02	1.24	4.93	1.28	0.45	0.07	3.97	14.96
8165	2.86	1.54	4.14	1.08	0.50	0.07	3.23	13.42	3.82	1.58	5.38	1.40	0.63	0.09	5.03	17.93
8170	4.71	2.33	7.24	2.03	1.25	0.19	4.97	22.72	6.28	2.40	9.42	2.64	1.62	0.24	7.73	30.33
8175	6.26	3.04	7.93	2.22	1.25	0.19	6.57	27.46	8.34	3.13	10.32	2.89	1.62	0.24	10.23	36.77
8180	6.60	3.20	10.35	2.90	1.25	0.19	6.93	31.42	8.80	3.29	13.45	3.77	1.62	0.24	10.77	41.94
8185	6.44	3.12	7.24	2.03	1.25	0.19	6.76	27.03	8.58	3.21	9.42	2.64	1.62	0.24	10.51	36.22
8190	6.73	3.26	7.93	2.22	1.25	0.19	7.07	28.65	8.98	3.35	10.32	2.89	1.62	0.24	10.99	38.39
8200	7.04	3.42	10.35	2.90	1.39	0.21	7.39	32.70	9.38	3.51	13.45	3.77	1.80	0.27	11.50	43.68
8205	7.10	3.44	10.35	2.90	1.39	0.21	7.45	32.84	9.46	3.54	13.45	3.77	1.80	0.27	11.59	43.88
8210	7.65	3.70	9.31	2.61	1.39	0.21	8.02	32.89	10.20	3.80	12.11	3.39	1.80	0.27	12.48	44.05
8220	7.71	3.76	8.45	2.37	1.76	0.26	8.10	32.41	10.27	3.87	10.99	3.08	2.31	0.35	12.61	43.48
8225	6.85	3.33	10.35	2.90	1.39	0.21	7.19	32.22	9.13	3.42	13.45	3.77	1.80	0.27	11.19	43.03
8230	6.61	3.22	10.35	2.90	1.39	0.21	6.94	31.62	8.81	3.31	13.45	3.77	1.80	0.27	10.80	42.21
8235	7.48	3.62	12.07	3.38	1.39	0.21	7.85	36.00	9.97	3.72	15.70	4.40	1.80	0.27	12.21	48.07
8245	2.91	1.31	0.00	0.11	0.00	0.00	3.38	7.71								

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	
8250	3.47	1.57	0.00	0.11	0.00	0.00	4.03	9.18								
8255	5.40	2.44	0.00	0.11	0.00	0.00	6.27	14.22								
8260	6.64	3.00	0.00	0.11	0.00	0.00	7.71	17.46								
8265	7.43	3.36	0.00	0.11	0.00	0.00	8.63	19.53								
8275	0.71	0.32	0.00	0.10	0.00	0.00	0.83	1.96	0.95	0.33	0.00	0.10	0.00	0.00	1.26	2.64
8280	1.14	0.51	0.00	0.10	0.00	0.00	1.32	3.07	1.52	0.53	0.00	0.10	0.00	0.00	2.01	4.16
8285	1.15	0.52	0.00	0.10	0.00	0.00	1.34	3.11	1.53	0.54	0.00	0.10	0.00	0.00	2.04	4.21
8290	1.17	0.53	0.00	0.10	0.00	0.00	1.36	3.16	1.56	0.54	0.00	0.10	0.00	0.00	2.07	4.27
8300	0.24	0.11	0.00	0.00	0.00	0.00	0.27	0.62								
8305	0.25	0.11	0.00	0.00	0.00	0.00	0.29	0.65								
8310	0.27	0.12	0.00	0.00	0.00	0.00	0.31	0.70								
8315	0.32	0.14	0.00	0.00	0.00	0.00	0.37	0.83								
8320	0.35	0.16	0.00	0.00	0.00	0.00	0.41	0.92								
8325	0.32	0.14	0.00	0.00	0.00	0.00	0.37	0.83								
8335	0.26	0.12	0.00	0.10	0.00	0.00	0.30	0.78								
8340	0.30	0.14	0.00	0.10	0.00	0.00	0.35	0.89								
8345	0.84	0.38	0.00	0.10	0.00	0.00	0.97	2.29								
8350	0.94	0.42	0.00	0.10	0.00	0.00	1.09	2.55								
8360	2.97	1.34	0.00	0.14	0.00	0.00	3.45	7.90								
8365	3.02	1.37	0.00	0.14	0.00	0.00	3.51	8.04								
8370	3.06	1.38	0.00	0.14	0.00	0.00	3.55	8.13								
8375	3.11	1.41	0.00	0.14	0.00	0.00	3.61	8.27								
8385	1.34	0.61	0.00	0.00	0.00	0.00	1.56	3.51								
8390	1.42	0.64	0.00	0.00	0.00	0.00	1.65	3.71								
8395	1.51	0.68	0.00	0.00	0.00	0.00	1.76	3.95								
8405	2.36	1.31	0.00	0.10	0.62	0.09	2.24	6.72	2.95	1.33	0.00	0.10	0.74	0.11	3.27	8.50
8410	2.84	1.55	0.00	0.10	0.62	0.09	2.69	7.89	3.54	1.58	0.00	0.10	0.74	0.11	3.92	9.99
8415	2.90	1.58	0.00	0.10	0.62	0.09	2.75	8.04	3.63	1.61	0.00	0.10	0.74	0.11	4.01	10.20
8420	3.38	1.88	0.00	0.10	0.88	0.13	3.21	9.58	4.23	1.91	0.00	0.10	1.06	0.16	4.68	12.14
8425	4.03	2.17	0.00	0.10	0.75	0.11	3.81	10.97	5.04	2.22	0.00	0.10	0.90	0.13	5.55	13.94
8430	7.82	4.45	0.00	0.10	2.63	0.39	7.46	22.85	9.78	4.54	0.00	0.10	3.17	0.48	10.88	28.95
8435	8.50	4.89	0.00	0.10	3.10	0.46	8.12	25.17	10.62	4.98	0.00	0.10	3.73	0.56	11.84	31.83
8445	3.18	1.72	0.00	0.10	0.62	0.09	3.01	8.72	3.97	1.75	0.00	0.10	0.74	0.11	4.38	11.05
8455	1.44	1.13	0.00	0.10	0.56	0.08	1.44	4.75								
8460	1.60	1.25	0.00	0.10	0.60	0.09	1.59	5.23								
8465	1.77	1.37	0.00	0.10	0.62	0.09	1.76	5.71								
8470	2.00	1.59	0.00	0.14	0.84	0.13	2.00	6.70								
8475	2.08	1.67	0.00	0.14	0.90	0.14	2.09	7.02								
8480	2.43	1.91	0.00	0.14	0.93	0.14	2.43	7.98								
8485	2.55	2.08	0.00	0.14	1.26	0.19	2.58	8.80								
8490	3.18	2.51	0.00	0.14	1.26	0.19	3.18	10.46								
8495	3.30	2.60	0.00	0.14	1.26	0.19	3.30	10.79								
8500	3.82	2.95	0.00	0.19	1.24	0.19	3.79	12.18								
8505	4.06	3.19	0.00	0.19	1.51	0.23	4.05	13.23								
8510	4.38	3.45	0.00	0.19	1.68	0.25	4.38	14.33								
8515	4.90	4.00	0.00	0.19	2.40	0.36	4.96	16.81								
8520	1.16	0.96	0.00	0.10	0.62	0.09	1.18	4.11								
8530	1.17	0.96	0.00	0.10	0.62	0.09	1.18	4.12								
8540	1.41	1.13	0.00	0.12	0.62	0.09	1.42	4.79								
8545	1.43	1.14	0.00	0.12	0.62	0.09	1.43	4.83								
8555	0.74	0.62	0.00	0.11	0.42	0.06	0.76	2.71								
8560	0.83	0.71	0.00	0.11	0.52	0.08	0.85	3.10								
8565	0.90	0.76	0.00	0.11	0.56	0.08	0.92	3.33								
8575	2.30	1.58	2.54	0.71	0.22	0.03	1.93	9.31								
8580	2.37	1.70	2.54	0.71	0.45	0.07	2.00	9.84								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR			
8585	2.49	1.77	2.54	0.71	0.45	0.07	2.10	10.13								
8595	20.32	12.86	11.45	3.89	6.27	0.94	19.05	74.78	24.38	13.03	14.79	5.03	10.45	1.57	26.67	95.92
8600	28.05	18.02	16.54	5.62	10.79	1.62	26.37	107.01	33.66	18.26	21.36	7.26	17.99	2.70	36.91	138.14
8605	38.10	25.16	22.13	7.53	14.42	2.16	35.97	145.47	45.71	25.49	28.59	9.72	24.04	3.61	50.36	187.52
8610	17.74	11.33	11.45	3.89	6.27	0.94	16.66	68.28	21.29	11.48	14.79	5.03	10.45	1.57	23.32	87.93
8615	25.61	16.92	16.54	5.62	13.60	2.04	24.18	104.51	30.73	17.14	21.36	7.26	22.68	3.40	33.85	136.42
8620	32.39	22.23	22.13	7.53	17.06	2.56	30.79	134.69	38.87	22.52	28.59	9.72	28.44	4.27	43.10	175.51
8630	16.39	10.38	6.49	2.21	4.11	0.62	15.37	55.57	19.67	10.51	8.38	2.85	6.60	0.99	21.52	70.52
8635	17.21	11.30	6.61	2.25	6.92	1.04	16.24	61.57	20.66	11.45	8.54	2.90	11.13	1.67	22.73	79.08
8640	28.10	18.34	11.45	3.89	10.62	1.59	26.48	100.47	33.72	18.58	14.79	5.03	17.08	2.56	37.08	128.84
8650	13.74	8.72	5.44	1.85	3.16	0.47	12.89	46.27	16.49	8.84	7.03	2.39	5.27	0.79	18.05	58.86
8655	21.70	13.68	11.45	3.89	6.27	0.94	20.33	78.26	26.04	13.86	14.79	5.03	10.45	1.57	28.47	100.21
8660	28.00	17.99	15.47	5.26	10.79	1.62	26.32	105.45	33.60	18.23	19.98	6.79	17.99	2.70	36.84	136.13
8665	36.65	24.04	16.43	5.59	12.93	1.94	34.57	132.15	43.98	24.36	21.23	7.22	21.56	3.23	48.39	169.97
8670	37.45	24.78	19.21	6.53	14.42	2.16	35.37	139.92	44.94	25.10	24.81	8.44	24.04	3.61	49.52	180.46
8685	12.36	7.78	5.47	1.86	3.44	0.52	11.58	43.01	14.84	7.88	7.06	2.40	5.74	0.86	16.21	54.99
8690	17.67	11.18	8.17	2.78	5.40	0.81	16.57	62.58	21.20	11.33	10.55	3.59	9.01	1.35	23.19	80.22
8695	21.07	13.81	12.54	4.26	10.27	1.54	19.87	83.36	25.29	13.99	16.20	5.51	17.12	2.57	27.82	108.50
8700	28.38	18.56	15.87	5.40	13.60	2.04	26.75	110.60	34.05	18.81	20.50	6.97	22.68	3.40	37.45	143.86
8705	41.75	27.34	21.37	7.27	14.42	2.16	39.37	153.68	50.10	27.69	27.60	9.38	24.04	3.61	55.11	197.53
8710	61.10	39.97	27.78	9.45	20.94	3.14	57.60	219.98	73.32	40.50	35.88	12.20	34.91	5.24	80.64	282.69
8720	21.54	13.59	10.68	3.63	6.27	0.94	20.19	76.84	25.85	13.77	13.80	4.69	10.45	1.57	28.26	98.39
8725	30.26	19.33	14.65	4.98	10.79	1.62	28.41	110.04	36.31	19.58	18.93	6.44	17.99	2.70	39.78	141.73
8730	32.04	20.74	16.33	5.55	13.60	2.04	30.15	120.45	38.45	21.01	21.10	7.17	22.68	3.40	42.22	156.03
8735	36.00	23.50	17.27	5.87	12.03	1.81	33.92	130.40	43.20	23.81	22.31	7.59	20.06	3.01	47.49	167.47
8740	40.06	26.33	20.81	7.08	14.42	2.16	37.80	148.66	48.08	26.68	26.88	9.14	24.04	3.61	52.92	191.35
8745	47.78	32.05	26.71	9.08	20.94	3.14	45.23	184.93	57.33	32.47	34.50	11.73	34.91	5.24	63.33	239.51
8755	9.10	6.41	6.04	1.93	1.92	0.29	9.13	34.82	10.93	6.48	7.95	2.54	2.58	0.39	11.87	42.74
8760	15.46	11.22	13.29	4.25	4.87	0.73	15.61	65.43	18.55	11.35	17.49	5.60	6.56	0.98	20.30	80.83
8765	21.29	15.56	18.13	5.80	7.24	1.09	21.53	90.64	25.55	15.75	23.85	7.63	9.75	1.46	27.99	111.98
8770	21.84	15.93	18.13	5.80	7.24	1.09	22.08	92.11	26.21	16.11	23.85	7.63	9.75	1.46	28.71	113.72
8775	26.30	19.21	22.15	7.09	8.89	1.33	26.60	111.57	31.56	19.44	29.15	9.33	11.98	1.80	34.58	137.84
8780	26.77	19.52	22.15	7.09	8.89	1.33	27.06	112.81	32.12	19.75	29.15	9.33	11.98	1.80	35.18	139.31
8790	15.51	11.25	13.29	4.25	4.87	0.73	15.66	65.56	18.61	11.38	17.49	5.60	6.56	0.98	20.36	80.98
8795	21.01	15.38	18.13	5.80	7.24	1.09	21.26	89.91	25.22	15.56	23.85	7.63	9.75	1.46	27.64	111.11
8800	21.34	15.59	18.13	5.80	7.24	1.09	21.58	90.77	25.60	15.78	23.85	7.63	9.75	1.46	28.05	112.12
8805	27.45	19.97	22.15	7.09	8.89	1.33	27.74	114.62	32.94	20.21	29.15	9.33	11.98	1.80	36.06	141.47
8810	27.91	20.27	22.15	7.09	8.89	1.33	28.19	115.83	33.49	20.51	29.15	9.33	11.98	1.80	36.65	142.91
8820	18.08	11.75	13.29	4.25	6.73	1.01	17.03	72.14	21.70	11.90	17.49	5.60	11.24	1.69	23.84	93.46
8825	26.17	17.30	18.13	5.80	10.84	1.63	24.71	104.58	31.40	17.53	23.85	7.63	17.55	2.63	34.60	135.19
8830	41.21	27.54	26.18	8.38	19.72	2.96	38.99	164.98	49.45	27.90	34.45	11.02	32.33	4.85	54.58	214.58
8840	16.94	11.07	11.16	3.57	6.59	0.99	15.97	66.29	20.33	11.22	14.68	4.70	10.90	1.63	22.36	85.82
8845	28.58	18.68	18.37	5.88	8.40	1.26	26.94	108.11	34.29	18.93	24.17	7.73	13.88	2.08	37.71	138.79
8855	18.78	12.16	13.29	4.25	6.73	1.01	17.68	73.90	22.54	12.32	17.49	5.60	11.24	1.69	24.75	95.63
8860	27.04	17.40	18.13	5.80	9.03	1.35	25.42	104.17	32.44	17.63	23.85	7.63	15.13	2.27	35.59	134.54
8870	4.80	1.69	5.40	1.51	0.04	0.01	8.77	22.22								
8875	7.30	2.56	9.50	2.66	0.04	0.01	13.35	35.42								
8885	1.26	0.83	0.00	0.01	0.00	0.00	1.05	3.15								
8890	1.46	0.96	0.00	0.01	0.00	0.00	1.22	3.65								
8895	1.70	1.12	0.00	0.01	0.00	0.00	1.41	4.24								
8905	2.08	1.44	0.59	0.15	0.22	0.03	1.75	6.26								
8910	2.41	1.65	0.59	0.15	0.22	0.03	2.01	7.06								
8915	2.68	1.83	0.59	0.15	0.22	0.03	2.24	7.74								
8925	0.25	0.13	0.72	0.22	0.00	0.00	0.18	1.50								
8930	0.30	0.15	0.90	0.27	0.00	0.00	0.21	1.83								

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
8940	0.44	0.26	3.54	0.85	0.03	0.00	0.60	5.72								
8945	0.48	0.28	3.54	0.85	0.03	0.00	0.65	5.83								
8950	0.52	0.30	5.90	1.42	0.03	0.00	0.70	8.87								
8955	0.67	0.38	6.26	1.50	0.03	0.00	0.90	9.74								
8965	0.62	0.36	1.35	0.32	0.03	0.00	0.84	3.52								
8970	0.67	0.38	1.89	0.45	0.03	0.00	0.90	4.32								
8975	0.74	0.43	1.89	0.45	0.05	0.01	1.00	4.57								
8980	0.80	0.47	3.19	0.77	0.05	0.01	1.09	6.38								
8990	0.25	0.13	0.36	0.11	0.00	0.00	0.18	1.03								
8995	0.26	0.13	0.72	0.22	0.00	0.00	0.18	1.51								
9005	0.12	0.06	0.68	0.21	0.00	0.00	0.08	1.15								
9010	0.15	0.08	0.86	0.26	0.00	0.00	0.11	1.46								
9015	0.40	0.20	1.08	0.32	0.00	0.00	0.28	2.28								
9020	0.69	0.34	1.51	0.45	0.00	0.00	0.49	3.48								
9030	0.06	0.03	0.68	0.21	0.00	0.00	0.04	1.02								
9035	0.18	0.09	0.86	0.26	0.00	0.00	0.13	1.52								

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, June 1985.
5. Caterpillar Performance Handbook, 14th ed, Caterpillar Tractor Company, Peoria, Illinois, 1983.
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, 1984, 1985.
13. Green Guide Volume I, Dataquest, Inc., Palo Alto, California, 1984, 1985.
14. Green Guide Volume II, Dataquest, Inc., Palo Alto, California, 1984, 1985.

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APPENDIX A

REFERENCES (Cont'd)

15. Means 1985 Labor Rates for the Construction Industry, 11th ed., R. S. Means Company, Inc., Kingston, Massachusetts, 1984.
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., 1974 through 1985.
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:	0.00 %
Working Hours Per Year:	1,150 Hrs/Yr
Labor Adjustment Factor (LAF):	1.270
Electricity Cost Per Kilowatt-Hour:	\$ 0.060 /Kw-Hr
Gasoline Cost Per Gallon:	\$ 1.120 /Gal.
Diesel Cost Per Gallon (Off-Road Use):	\$ 1.060 /Gal.
Diesel Cost Per Gallon (On-Road Use):	\$ 1.150 /Gal.
Freight Rates:	
0 thru 24,000 lbs.	\$34.000 /Cwt.
over 24,000 thru 30,000 lbs.	\$30.850 /Cwt.
over 30,000 thru 44,000 lbs.	\$23.650 /Cwt.
over 44,000 thru 60,000 lbs.	\$17.300 /Cwt.
over 60,000 thru 70,000 lbs.	\$15.450 /Cwt.
over 70,000 thru 80,000 lbs.	\$15.000 /Cwt.
over 80,000 thru 9999,900 lbs.	\$13.900 /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.

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GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
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.
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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.
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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.
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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.
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GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
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.

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GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
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	30	65 .000	.066	.038		0 .000	.000	.000		45	32	28	0	0	90	70
45	AIR TOOLS, SANDBLASTERS, ETC	A	4	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	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	25	65 .000	.066	.000		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	0 .000	.000	.000		0 .000	.000	.000		45	32	28	0	0	90	80
125	CONCRETE FINISHERS & 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	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	250
140	COMPACTORS, MANUALLY OPERATED	A	6	20	90 .000	.091	.053		0 .000	.000	.000		0	24	24	0	0	85	120
	CRANE, CRAWLER TYPE																		
150	0 THRU 25 TON	A	13	20	40 .000	.041	.024		0 .000	.000	.000		0	32	32	0	0	0	55
150		S	11	20	52 .000	.053	.031		0 .000	.000	.000		0	32	32	0	0	0	60
165	OVER 25 TON THRU 50 TON	A	15	20	40 .000	.041	.024		0 .000	.000	.000		0	20	20	0	0	0	65
165		S	13	20	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	20	50 .000	.051	.030		0 .000	.000	.000		0	32	32	0	0	0	70
185		S	10	20	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	20	50 .000	.051	.030		0 .000	.000	.000		0	20	20	0	0	0	80
190		S	13	20	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	20	50 .000	.051	.030		0 .000	.000	.000		0	22	22	0	0	0	90
195		S	16	20	65 .000	.066	.038		0 .000	.000	.000		0	22	22	0	0	0	100

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	
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	30	65 .900	.066	.038		10 .900	.010	.006		50	30	26	0	0	0	80
	CRANES & HYD. EXC., TRK MTD																		
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	20	65 .000	.066	.038		10 .000	.010	.006		0	30	26	97	78	0	80
240		S	20	20	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	85
255	DRILL, AUGER	A	10	20	50 .000	.051	.030		0 .000	.000	.000		0	32	28	67	57	0	90
270	DRILL, BLAST HOLE	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	90
300	DRILL, CORE	A	10	20	80 .000	.081	.047		0 .000	.000	.000		0	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 .900	.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)																		
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	25	65 .000	.066	.038		0 .000	.000	.000		0	28	28	26	0	99	90
450		S	8	25	85 .000	.086	.050		0 .000	.000	.000		0	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	LOADER, WHEEL TYPE	S	8	20	91 .000	.092	.054		0 .000	.000	.000		0	32	38	0	0	0	130
465	O 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

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	
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						
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						
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	80						
585		S	8	20	78 .000 .079 .046	0 .000 .000 .000	0	20	20	0	0	0	90						
595	OVER 2-1/2 CY THRU 5 CY	A	12	20	60 .000 .061 .035	0 .000 .000 .000	0	22	22	0	0	0	90						
595		S	10	20	78 .000 .079 .046	0 .000 .000 .000	0	22	22	0	0	0	100						

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	
600	OVER 5 CY	A	14	15	60 .000 .061 .035	0 .000 .000 .000	0	24	24	0	0	0	0	0	0	0	0	0	110
600		S	12	15	78 .000 .079 .046	0 .000 .000 .000	0	24	24	0	0	0	0	0	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	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	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	0	0	0	0	0	110
615		S	8	25	91 .000 .000 .054	0 .000 .000 .000	0	0	36	0	0	0	0	0	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	0	0	0	0	0	90
620		S	8	20	91 .000 .000 .054	0 .000 .000 .000	0	0	28	0	0	0	0	0	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	0	0	0	0	0	90
625		S	10	15	91 .000 .000 .054	0 .000 .000 .000	0	0	24	0	0	0	0	0	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	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	0	0	0	0	0	90
645	TRACTOR, WHEEL TYPE	A	10	20	65 .000 .066 .038	0 .000 .000 .000	0	24	28	73	44	0	0	0	0	0	0	0	60
645		S	8	20	85 .000 .086 .050	0 .000 .000 .000	0	24	28	38	21	0	0	0	0	0	0	0	65
650	TRENCHER	A	10	20	65 .000 .066 .038	0 .000 .000 .000	0	28	28	91	68	0	0	0	0	0	0	0	90
650		S	8	20	85 .000 .086 .050	0 .000 .000 .000	0	28	28	77	48	0	0	0	0	0	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	0	0	0	0	0	65
655		S	8	15	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	65
	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	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	0	0	0	0	0	80
675	ALL OTHER ACCESSORIES	A	8	20	65 .000 .066 .000	0 .000 .000 .000	0	32	32	0	0	0	0	0	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	0	0	0	0	0	70
690		S	5	25	20 .000 .020 .012	0 .000 .000 .000	0	28	24	36	22	0	0	0	0	0	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	0	0	0	0	0	60
695		S	6	25	46 .000 .045 .026	0 .000 .000 .000	0	30	26	42	30	0	0	0	0	0	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	0	0	0	0	0	60
705		S	6	20	65 .000 .067 .039	0 .000 .000 .000	0	32	28	43	29	48	0	0	0	0	0	0	70
720	TRUCK, OFF-HIGHWAY	A	12	15	40 .000 .000 .024	0 .000 .000 .000	0	0	34	59	36	65	0	0	0	0	0	0	60
720		S	10	15	52 .000 .000 .031	0 .000 .000 .000	0	0	34	39	21	43	0	0	0	0	0	0	70
765	WAGON, BOTTOM & REAR DUMP	A	12	15	65 .000 .066 .038	0 .000 .000 .000	0	24	32	59	39	65	0	0	0	0	0	0	60
765		S	10	15	85 .000 .086 .050	0 .000 .000 .000	0	24	32	39	22	43	0	0	0	0	0	0	70
780	WAGON, WATER	A	12	20	65 .000 .066 .038	0 .000 .000 .000	0	24	32	73	55	81	0	0	0	0	0	0	60
780		S	10	20	85 .000 .086 .050	0 .000 .000 .000	0	24	32	56	40	62	0	0	0	0	0	0	65

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	
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	0	1	2	3	4	YEAR PURCHASE NEW			1978	1977	1976	1975	1974
						1982	1981	1980					
	AGE IN YEARS	5	6	7	8	9	10	11	12				
Air Equipment	1785	1733	1683	1695	1668	1563	1630	1521	1354	1295	1186	1165	1028
Asphalt & Concrete Paving Equipment	2766	2685	2611	2583	2620	2461	2296	2111	1941	1815	1686	1610	1451
Buckets	4732	4639	4527	4471	4541	4313	3879	3280	2963	2738	2520	2175	1838
Cranes, Draglines & Clamshells - Crawler & Truck Mounted	3463	3395	3339	3282	3213	3009	2782	2512	2301	2138	2010	1843	1522
Drills	2858	2830	2803	2836	2810	2602	2265	1993	1858	1699	1638	1559	1373
Generators	3581	3511	3400	3314	3235	3160	2817	2390	2301	2128	2053	1839	1456
Graders, Motor	3813	3738	3645	3643	3561	3276	2992	2687	2492	2259	2109	1956	1604
Loaders, Track	3807	3769	3791	3792	3655	3349	3061	2750	2482	2247	2053	1916	1573
Loaders, Wheel	4013	3973	3944	3873	3783	3441	2938	2606	2375	2156	2002	1907	1584
Pile Driving Equipment	3698	3625	3570	3519	3439	3208	2894	2562	2329	2135	1989	1852	1523
Rollers	4212	4089	3926	3744	3431	3199	2913	2653	2396	2139	1983	1872	1556
Scrapers and Soil Stabilizers	3813	3738	3645	3643	3561	3276	2992	2687	2492	2259	2109	1956	1604
Shovels, Backhoes & Hydraulic Excavators	3463	3395	3339	3282	3213	3009	2782	2512	2301	2138	2010	1843	1522
Tractors, Crawler & Attachments	3807	3769	3791	3792	3655	3349	3061	2750	2482	2247	2053	1916	1573
Tractors, Wheel	3894	3818	3656	3557	3530	3256	2927	2578	2319	2125	1956	1813	1498
Trenchers	4580	4490	4431	4360	4097	3618	3153	2772	2580	2300	1894	1633	1527
Trucks, Highway	3268	3142	3055	2934	2824	2638	2324	2108	1934	1775	1646	1524	1369
Trucks & Wagons - Off Highway	3900	3824	3786	3744	3662	3363	2964	2588	2364	2196	2081	1965	1568
All Other Equipment	3698	3625	3570	3519	3439	3208	2894	2562	2329	2135	1989	1852	1523
All Tires & Tubes	2401	2377	2421	2453	2552	2506	2369	2055	1792	1699	1615	1485	1334

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/>			
FINAL TIRE WEAR FACTORS			
	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

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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.

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(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 Loader.

- (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.