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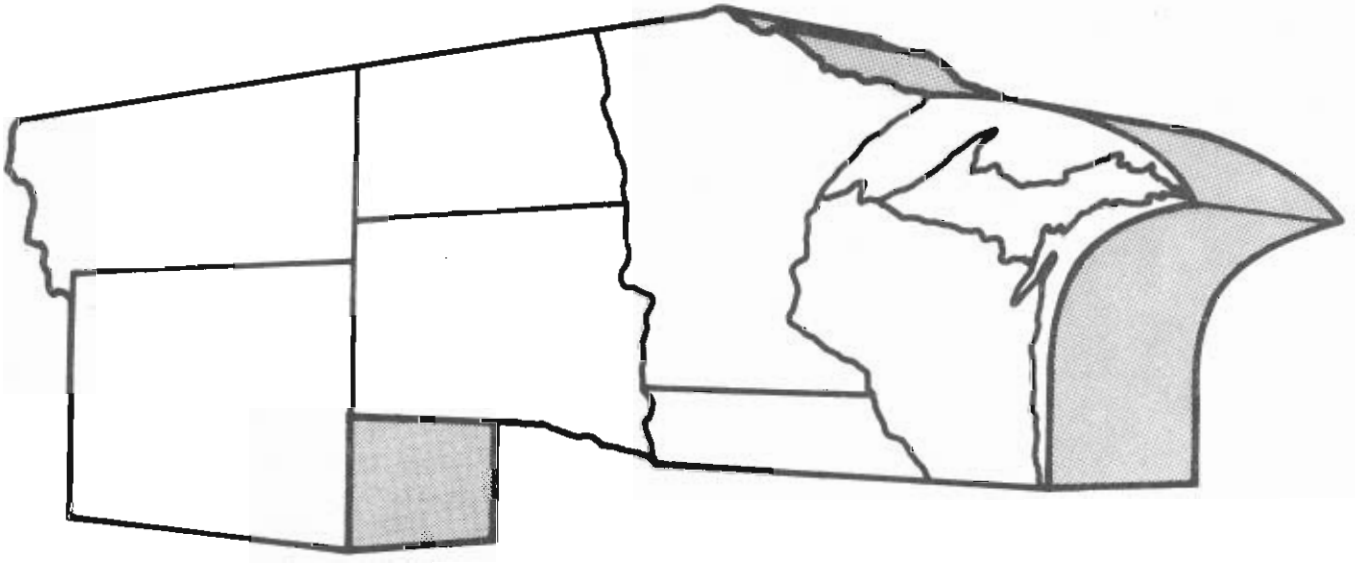
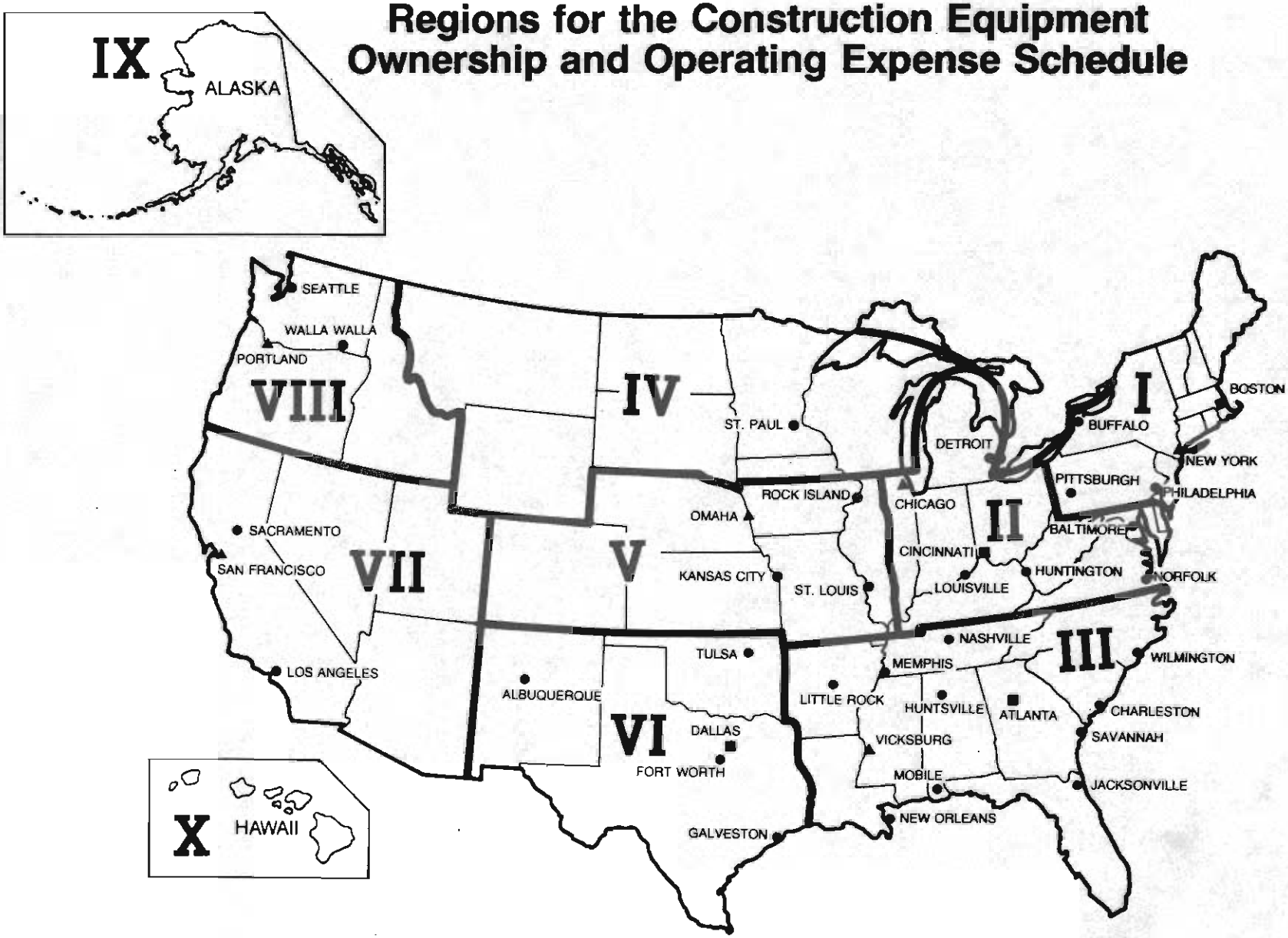
US Army Corps
of Engineers
Office of the Chief
of Engineers

Construction Equipment Ownership and Operating Expense Schedule

Region IV



Regions for the Construction Equipment Ownership and Operating Expense Schedule



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

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Pamphlet
No. 1110-1-8

1 June 1983

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 field operating activities having either military or civil works responsibilities for construction contracts in Region IV which includes the following states:

Iowa (north of U.S. Hwy 20)	North Dakota
Michigan (upper peninsula)	South Dakato
Minnesota	Wisconsin
Montana	Wyoming

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 1981. 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:

JAMES W. RAY
Colonel, Corps of Engineers
Chief of Staff

This pamphlet supersedes EP 1110-1-8, dated 1 June 1982

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

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Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

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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.

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 IV, which includes the following states:

Iowa (north of U.S. Hwy. 20)	North Dakota
Michigan (upper peninsula)	South Dakota
Minnesota	Wisconsin
Montana	Wyoming

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 1981. 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 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.

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 Defense Acquisition Regulations (DAR).

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 1981.

(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 (current year divided by year of manufacture), 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 DAR 15-205.50 and CAS 414 is included in the use rates. This cost was computed by multiplying the cost of money rate (11.250%) 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 9.00% to avoid duplication when applying markups for overhead and profit.

$$\text{CFC/hr} = \frac{[(N-1)(1+S)+2]\ (\text{Equipment Cost})\ (9.00\%)}{2N\ (\text{Work Hrs per Year})}$$

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 TABLE 3-1 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:

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

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.

(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 self-propelled hydraulic cranes) 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.

(5) 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.

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CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET
(EP 1110-1-8)

(Since this request for information is to less than ten persons, OMB approval under Section 3507, 44 USC, is not required.)

1. REQUIRED DATA

a. Unit Number 3105

(1) Equipment Description Lorain Truck Crane 50 Ton

(2) Model and Series MC-550A W/160' Boom

(3) Year Purchased 1981 (4) Year Manufactured 1981

(5) Equipment Horsepower 115 (6) Carrier Horsepower 246

(7) Fuel Type Diesel/Diesel (8) Shipping Weight 111,100 lbs.

(9) Tire Size: Front-1400x20 18PR Drive-1400x20 18PR Trailing- N/A

b. Key Number from APPENDIX D 225

(1) Condition Average

(2) Salvage Value % 20 (3) Life 18,000 hrs.

(4) Equipment Fuel Factor .038 (5) Carrier Fuel Factor .006

(6) FOG Factor: Gas N/A Diesel .26 Electric N/A

(7) Tire Wear Factor: Front .97 Drive .78 Trailing N/A

(8) Repairs Cost Factor .60

2. EQUIPMENT COST

a. List Price Year of Manufacture (including extras) =$ 319,655.00

(1) Discount: (List Price) x *7.5% *(17.5% for Highway Trucks)

=($ 319,655.00) x *.075 =(-)$ 23,974.13

(2) Freight: (Shipping Weight) x (Prep. and Del. Rate)
From 1-a-(8) From APPENDIX B

=(1,111 cwt.) x ($ 3.27) =(+)$ 3,632.97

b. Subtotal: Summation of Part a. (Use actual cost when available) =$ 299,313.85

(1) State Sales Tax: (Subtotal) x (Tax Rate)
From 2-b

=($ 299,313.85) x (.035) =(+)$ 10,475.98

c. Equipment Cost: Summation of Part b. (Use actual cost when available) =$ 309,789.83

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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)

(Life From 1-b-(3)) ÷ (Hours Use/Year From APPENDIX B)

=(18,000 Hrs) ÷ (1,350 Hrs/Yr) 13.33 Yrs.

4. ECONOMIC ADJUSTMENT FACTOR (EAF)

(Economic Index for Present Year From APPENDIX E) ÷ (Economic Index for Year of Manufacture From APP. E)

=(3372) ÷ (3009) =1.121 (EAF)

5. SALVAGE VALUE FACTOR (S)

(Salvage Factor From 1-b-(2)) x (EAF From 4)

=(.20) x (1.121) =.224 (S)

6. OWNERSHIP COSTS

a. Depreciation:

[(Equipment Cost From 2-c) x [1.0 - (S From 5)] - (Tire Cost Yr. of Mfg.)] ÷ (Life From 1-b-(3))

=[($ 309,790) x [1.0 - (.224)] - ($ 8,414)] ÷ (18,000 Hr) =$ 12.89 /Hr.

b. Cost of Facilities Capital (CFC):

(1) [[(Life From 3) - 1.0] x [(S From 5) + 1.0] ÷ 2.0] ÷ [(Life From 3) x 2.0]

=[[(13.33 Yrs)-1.0] x [(.224)+1.0] ÷ 2.0] ÷ [(13.33 Yrs)x2.0] = .6411

(2) (Equipment Cost From 2-c) x (Average Value Factor From 6-b-(1)) x (CFC Factor From Para. 2-2.c.(2)) ÷ (Hrs Use/Yr From APP. B)

=($ 309,790) x (.6411) x (.09) ÷ (1,350 Hrs/Yr) =$ 13.24 /Hr.

c. Total Hourly Ownership: (Sum 6-a + 6-b-(2)) =$ 26.13 /Hr.

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Figure 2-1. (Contuined)

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

7. OPERATING COSTS

a. Fuel Costs:

(1) Equipment: (Equip Fuel Factor From 1-b-(4)) x (H.P. From 1-a-(5)) x (Fuel Cost Per Gal.)

=(.038) x (115 HP) x ($ 1.04/Gal) =$ 4.54/Hr.

(2) Carrier: (Carrier Fuel Factor From 1-b-(5)) x (H.P. From 1-a-(6)) x (Fuel Cost Per Gal.)

=(.006) x (24½ HP) x ($ 1.22/Gal) =$ 1.80/Hr.

(3) Total Fuel Costs: (Sum 7-a-(1), 7-a-(2)) =$ 6.34/Hr.

b. FOG Costs:

(1) Equipment: (FOG Factor From 1-b-(6)) x (Hourly Fuel Cost From 7-a-(1))

=(.26) x ($ 4.54/Hr) =$ 1.18/Hrs.

(2) Carrier: (FOG Factor From 1-b-(6)) x (Hourly Fuel Cost From 7-a-(2))

=(.26) x ($ 1.80 /Hr) =$ .47/Hr.

(3) Total FOG Costs: (Sum 7-b-(1), 7-b-(2)) =$ 1.65/Hr.

c. Repairs Cost:

(1) Repair Factor:

(Repairs Cost Factor From 1-b-(8)) x (EAF From 4) x (LAF From APP. B)

=(.60) x (1.121) x (.94) = .6322

(2) Hourly Repairs:

[(Equipment Cost From 2-c) - (Tire Cost Yr. of Mfg.)] x (Repair Factor From 7-c-(1)) ÷ (Life From 1-b-(3))

=[($ 309,790) - ($ 8,414)] x (.6322 ÷ (18,000 Hr) =$ 10.58/Hr.

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Figure 2-1. (Continued)

FOR ILLUSTRATION PURPOSES ONLY

CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING RATE WORK SHEET (Continued)

d. Tire Wear Costs (Current Price Levels):

(1) Front Tires: 1.5 x (Front Tires Cost) ÷ [1.8 x (F-Tire Ftr Frm I-b-(7)) x (Max Tire Life Frm Tbl F-1)]

=1.5x($ 2,892)÷ [1.8x(.97)x(5,000 Hr)] =$ .60 /Hr.

(2) Drive Tires: 1.5 x (Drive Tires Cost) ÷ [1.8 x (D-Tire Ftr Frm 1-b-(7)) x (Max Tire Life Frm Tbl F-1)]

=1.5x($ 5,784)÷ [1.8x(.78)x(5,000 Hr)] =$ 1.24 /Hr.

(3) Trailing Tires: 1.5x(Trlg Tires Cost) ÷ [1.8x(T-Tire Ftr Frm 1-b-(7)) x (Max Tire Life Frm Tbl F-1)]

=1.5x($ _____)÷ [1.8x(_____)x(_____ Hr)] =$ 0 /Hr.

(4) Total Tire Wear Cost: (Sum 7-d-(1) thru (3)) =$ 1.74 /Hr.

e. Tire Repair Cost: (Tire Wear Prm 7-d-(4)) x 0.15

=($ 1.74) x 0.15 =$ .26 /Hr.

f. Total Operating Costs: (Sum 7-a thru 7-e) =$ 20.57 /Hr.

8. TOTAL HOURLY RATES

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

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

=($ 26.13 /Hr) + ($ 20.57 /Hr) =$ 46.70 /Hr.

b. Hourly Rate for Other Work Shifts:

(Depreciation From 6-a) + [(CFC Frm 6-b-(2)) x 40 ÷ (Work Hrs Per Week)] + (Operating Costs Frm 7-f)

=($ 12.89 /Hr) + [($ 13.24 /Hr)x40÷(60 Hr/Wk)] + ($ 20.57 /Hr) =$ 42.29 /Hr.

c. Hourly Standby Rate:

(Depreciation From 6-a) x 0.25 + (CFC Frm 6-b-(2))

=($ 12.89 /Hr) x 0.25 + ($ 13.24 /Hr) =$ 16.46 /Hr.

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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 15-205.20 of DAR.

(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.

$$CFC = \frac{[(N-1)(1+S) + 2](9.00\%)}{2N}$$

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 number of months' use per year is of such a variable nature that it is established for each contract by including this factor in the clauses of the contract.

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	4.94	9.69
16-inch thru 20-inch	25	.10	3.60	5.11	8.71
24-inch and over	30	.10	3.00	5.09	8.09
Booster & Barge:					
10-inch thru 14-inch	20	.05	4.75	4.94	9.69
16-inch thru 20-inch	25	.10	3.60	5.11	8.71
24-inch and over	30	.10	3.00	5.09	8.09
Dredge, Hopper	25	.10	3.60	5.11	8.71
Dredge, clamshell/ dragline	20	.05	4.75	4.94	9.69
Dredge, Dipper/Hyd Excav	25	.05	3.80	4.90	8.70
Bucket Dredge	30	.10	3.00	5.09	8.09
Dump Scows	20	.05	4.75	4.94	9.69
Barges:					
Fuel	20	.05	4.75	4.94	9.69
Water	20	.05	4.75	4.94	9.69
Equipment or Work	20	.05	4.75	4.94	9.69
Derrick	20	.10	4.50	5.15	9.65
Anchor	20	.05	4.75	4.94	9.69
Drill Boat or Barge	20	.10	4.50	5.15	9.65
Mooring Barge	20	.05	4.75	4.94	9.69
Tugs	20	.10	4.50	5.15	9.65
Tenders	20	.10	4.50	5.15	9.65
Launches	12	.05	7.92	5.08	13.00
Shore Pipeline (Average)	3	0	33.33	6.00	39.33
Floating Line:					
Pontoons	15	0	6.67	4.80	11.47
Pipeline/Joints (Avg)	10	0	10.00	4.95	14.95

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 3060 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.

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 CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	AGGREGATE SPREADER									
	ETNYRE - SELF-PROPELLED									
1010	SPREAD TO 8" DEPTH & 10' WIDE 187 HP G	46,548	24.32		2.94	5.57	12.21			155
1015	SPREAD TO 8" DEPTH & 13' WIDE 143 HP D	52,038	15.78		3.29	6.24	4.46			160
	AIR COMPRESSORS, PORTABLE (HOSE NOT INCLUDED)									
	ROTARY SCREW									
1030	SIZE 85 CFM QUIET 100 PSI 43 HP G	8,951	6.51		0.57	1.04	3.63			21
1035	SIZE 85 CFM QUIET 100 PSI 38 HP D	10,602	3.96		0.68	1.24	1.50			24
1040	SIZE 100 CFM QUIET 100 PSI 50 HP G	11,196	7.73		0.72	1.31	4.22			20
1045	SIZE 100 CFM QUIET 100 PSI 44 HP D	13,425	4.81		0.86	1.57	1.74			26
1050	SIZE 125 CFM QUIET 100 PSI 70 HP G	13,704	10.43		0.87	1.60	5.91			24
1055	SIZE 125 CFM QUIET 100 PSI 51 HP D	14,574	5.38		0.93	1.70	2.02			26
1060	SIZE 150 CFM QUIET 100 PSI 70 HP G	14,957	10.68		0.96	1.75	5.91			26
1065	SIZE 150 CFM QUIET 100 PSI 69 HP D	16,977	6.76		1.08	1.99	2.73			28
1070	SIZE 185 CFM QUIET 100 PSI 70 HP G	15,440	10.77		0.99	1.81	5.91			27
1075	SIZE 185 CFM QUIET 100 PSI 69 HP D	18,226	7.00		1.17	2.14	2.73			29
1080	SIZE 275 CFM QUIET 100 PSI 94 HP D	27,123	9.97		1.73	3.18	3.71			55
1085	SIZE 340 CFM QUIET 100 PSI 103 HP D	33,589	11.70		2.14	3.89	4.07			79
1090	SIZE 450 CFM QUIET 100 PSI 152 HP D	43,572	16.10		2.77	5.06	6.01			89
1095	SIZE 600 CFM QUIET 100 PSI 175 HP D	58,840	20.21		3.75	6.85	6.92			97
1100	SIZE 750 CFM QUIET 100 PSI 228 HP D	68,171	24.68		4.34	7.95	9.01			128
1105	SIZE 825 CFM QUIET 100 PSI 250 HP D	77,629	27.61		4.94	9.06	9.88			130
1110	SIZE 900 CFM QUIET 100 PSI 270 HP D	85,040	30.04		5.42	9.93	10.67			148
1115	SIZE 1000 CFM QUIET 100 PSI 283 HP D	94,982	32.60		6.05	11.10	11.18			186
1120	SIZE 1200 CFM QUIET 100 PSI 325 HP D	113,715	38.33		7.25	13.30	12.84			196
1125	SIZE 1600 CFM QUIET 100 PSI 456 HP D	128,588	47.84		8.20	15.04	18.02			216

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	AIR EQUIPMENT (HOSE NOT INCLUDED)									
	CLEMCO - SANDBLASTERS									
1140	SCW-1042P SANDBLASTER 1/2" HOSE 101CFM A CAP. 100 LBS. W/ACC. AND 25' HOSE	1,285	0.88		0.12	0.31	0.00			3
1145	SCW-1440P SANDBLASTER 1" HOSE 101CFM A CAP. 150 LBS W/ACC. AND 50' HOSE	2,402	1.60		0.24	0.58	0.00			5
1150	SCWB-1648P SANDBLASTER 1" HOSE 101CFM A CAP. 300 LBS. W/ACC. AND 50' HOSE	2,423	1.62		0.24	0.59	0.00			6
1155	SCWB-2452HPSANDBLASTER 1-1/4" HOS 216CFM A CAP. 600 LBS. W/ACC. AND 50' HOSE	2,690	1.84		0.26	0.65	0.00			7
1160	SCH-3079 SANDBLASTER 1-1/4" PIPE 216CFM A CAP. 1400 LBS W/HOPPER & 50' HOSE	3,579	2.42		0.35	0.87	0.00			9
1165	MOD 60-H SANDBLASTER 1-1/4" PIPE 450CFM A CAP. 3-TONS W/2 NOZZ. & 50' HOSE	10,395	6.82		1.01	2.46	0.00			28
1170	MOD 120-H SANDBLASTER 1-1/4" PIPE 700CFM A CAP. 6-TONS W/3 NOZZ. & 50' HOSE	12,546	8.13		1.19	2.88	0.00			45
1175	MOD 160-H SANDBLASTER 1-1/4" PIPE 900CFM A CAP. 8-TONS W/4 NOZZ. & 50' HOSE	15,600	10.19		1.48	3.62	0.00			53
	GARDNER DENVER - TOOLS									
1185	SPADER SP27E 32CFM A	916	0.66		0.10	0.23	0.00			1
1190	SINKER DRILL S58 98CFM A	2,013	1.39		0.20	0.49	0.00			1
1195	PAVING BREAKER B37 41CFM A	940	0.67		0.10	0.23	0.00			1
1200	PAVING BREAKER B67C 46CFM A	1,008	0.70		0.10	0.24	0.00			1
1205	PAVING BREAKER B87C 50CFM A	1,096	0.76		0.10	0.26	0.00			1
1210	FEED LEG DRILL S83F-54" TRAVEL 103CFM A RETRACTABLE FL-7	3,702	2.50		0.36	0.90	0.00			1
	MASTER - CONCRETE VIBRATORS									
1220	CONCRETE VIBR. MOD A-600SH 6" 125CFM A	1,788	1.77		0.18	0.44	0.00			1
1225	CONCRETE VIBR. MOD A-450SH 4.5" 110CFM A	1,148	1.16		0.12	0.28	0.00			1
1230	CONCRETE VIBR. MOD A-35010 3.5" 82CFM A	1,030	1.03		0.10	0.25	0.00			1
1235	CONCRETE VIBR. MOD A-30010 3" 64CFM A	929	0.92		0.10	0.23	0.00			1
1240	CONCRETE VIBR. MOD A-25010 2.5" 40CFM A	728	0.72		0.08	0.18	0.00			1

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	ASPHALT DISTRIBUTOR - ROSCO ********** (NO CHASSIS)									
1250	MOD RES 1000 GAL. TRUCK MOUNTED 50 HP G 18,000 TO 24,000 GVW REQUIRED	23,319	10.32		1.50	2.66	4.22			72
1255	MOD RES 1500 GAL. TRUCK MOUNTED 50 HP G 24,000 TO 32,000 GVW REQUIRED	24,191	10.50		1.55	2.76	4.22			75
1260	MOD RES 2000 GAL. TRUCK MOUNTED 50 HP G 32,000 GVW REQUIRED	25,937	10.84		1.66	2.95	4.22			87
1265	MOD RES 3000 GAL. TRUCK MOUNTED 50 HP G 42,000 GVW REQUIRED	29,845	11.64		1.92	3.40	4.22			109
	ASPHALT FINISHERS ********** SPW=STANDARD PAVING WIDTH									
	BARBER-GREENE									
1275	MOD SB111 8' SPW (PNEUMATIC) 70 HP D	79,998	20.64		5.07	9.28	2.77			165
1280	MOD SB131 10' SPW (PNEUMATIC) 95 HP D W/VIB SCREED, AUTO. FEEDERS AND GR CONTROL	116,249	29.84		7.34	13.32	3.75			258
1285	MOD SB140 10' SPW (PNEUMATIC) 130 HP D OPTIONS SAME AS MOD SB131	133,324	35.30		8.41	15.28	5.14			325
1290	MOD SA150 10' SPW (CRAWLER) 130 HP D OPTIONS SAME AS MOD SB131	160,568	40.73		10.26	18.93	5.14			375
	BLAW-KNOX									
1300	MOD PF-22 5'SPW (PNEUMATIC) 30 HP D	40,813	10.30		2.57	4.65	1.19			95
1305	MOD PF-35 6'SPW (PNEUMATIC) 44 HP D	59,647	15.02		3.78	6.88	1.74			104
1310	MOD PF-115 8'SPW (PNEUMATIC) 58 HP D	80,939	20.30		5.13	9.34	2.29			180
1315	MOD PF-120H 8'SPW (PNEUMATIC) 87 HP D	97,553	25.46		6.14	11.11	3.44			240
1320	MOD PF-180H 10'SPW (PNEUMATIC) 107 HP D	113,345	29.90		7.12	12.89	4.23			277
1325	MOD PF-220 12'SPW (PNEUMATIC) 148 HP D	159,395	42.13		9.98	17.95	5.85			387
1330	MOD PF-400 10'SPW (CRAWLER) 76 HP D	105,330	26.24		6.74	12.42	3.00			230
1335	MOD PF-500 10'SPW (CRAWLER) 107 HP D	128,794	32.80		8.23	15.18	4.23			291

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	AVERAGE COND. FUEL	SEVERE COND. OWNER-SHIP	SEVERE COND. FUEL	CWT
	ASPHALT KETTLES - ROSCO **********									
1345	MOD KB 110 GAL. TRAILER MOUNTED	3,324	1.71		0.23	0.45	0.00			13
1350	MOD KD 225 GAL. TRAILER MOUNTED	3,859	1.94		0.27	0.52	0.00			16
	ASPHALT RECYCLER - BOMAG **********									
1360	MOD AR-6 TRAILER MOUNTED 8 HP G	9,186	4.54		0.63	1.24	0.68			21
	BROOMS - M-B **********									
1370	MOD 53T HYD 7 FT. TOWED MECH DRIVE W/SPRINKLER	5,277	1.24		0.33	0.61	0.00			24
1375	MOD 53-M 7 FT. TOWED MOTOR DRIVEN W/SPRINKLER 30 HP G	7,070	4.57		0.45	0.82	2.53			30
1380	MOD MT 7 FT. TRACTOR MOUNTED PTO DRIVE W/SPRINKLER	2,414	0.65		0.15	0.28	0.00			10
1385	MOD HT 7 FT. TRACTOR MOUNTED HYD DRIVE W/SPRINKLER	4,053	0.93		0.26	0.48	0.00			14
	BRUSH CHIPPERS - FITCHBERG **********									
1395	MOD TWC-612 CAP. TO 6" DIA. LOG 151 HP G	10,191	13.94		0.65	1.23	8.89			40
1400	MOD TWC-915 CAP. TO 9" DIA. LOG 165 HP G	11,716	15.37		0.75	1.42	9.72			42
1405	MOD PT-540 CAP. TO 6" PTO/DRIVE	5,035	1.34		0.32	0.61	0.00			15
	BUCKETS, CLAMSHELL **********									
	ESCO - MODEL GPS GENERAL PURPOSE & SQUARE NOSE									
1415	.75 C.Y.	8,809	1.72	2.18	0.56	1.08	0.00	1.26	0.00	33
1420	1.0 C.Y.	10,278	2.00	2.53	0.65	1.25	0.00	1.46	0.00	43
1425	1.5 C.Y.	15,108	2.95	3.73	0.97	1.85	0.00	2.15	0.00	65
1430	2.0 C.Y.	17,096	3.34	4.21	1.09	2.09	0.00	2.43	0.00	72
1435	2.5 C.Y.	22,278	4.35	5.49	1.42	2.72	0.00	3.17	0.00	94
1440	3.0 C.Y.	23,598	4.60	5.81	1.50	2.88	0.00	3.35	0.00	99

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	BUCKETS, CLAMSHELL (CONT'D)									
	ESCO - MODEL GPS GEN PURPOSE & SQUARE NOSE (CONT'D)									
1445	3.5 C.Y.	24,129	4.71	5.96	1.54	2.95	0.00	3.44	0.00	110
1450	4.0 C.Y.	26,564	5.19	6.55	1.70	3.25	0.00	3.78	0.00	120
1455	4.5 C.Y.	28,715	5.60	7.09	1.83	3.50	0.00	4.09	0.00	132
1460	5.0 C.Y.	31,096	6.07	7.66	1.99	3.80	0.00	4.42	0.00	146
1465	5.5 C.Y.	33,558	6.54	8.27	2.13	4.09	0.00	4.77	0.00	158
1470	6.0 C.Y.	34,736	6.78	8.57	2.22	4.24	0.00	4.95	0.00	166
1475	6.5 C.Y.	37,572	7.32	9.26	2.39	4.58	0.00	5.34	0.00	177
1480	7.0 C.Y.	38,685	7.55	9.55	2.46	4.72	0.00	5.51	0.00	185
1485	7.5 C.Y.	40,139	7.83	9.90	2.56	4.90	0.00	5.71	0.00	192
	ESCO - MODEL HDS HEAVY DUTY & SQUARE NOSE									
1495	.75 C.Y.	9,220	1.80	2.28	0.59	1.13	0.00	1.32	0.00	35
1500	1.0 C.Y.	12,478	2.43	3.07	0.79	1.52	0.00	1.77	0.00	49
1505	1.5 C.Y.	18,136	3.53	4.47	1.15	2.21	0.00	2.58	0.00	74
1510	2.0 C.Y.	19,561	3.82	4.82	1.25	2.39	0.00	2.78	0.00	82
1515	2.5 C.Y.	24,859	4.85	6.13	1.58	3.03	0.00	3.54	0.00	105
1520	3.0 C.Y.	27,181	5.30	6.71	1.73	3.31	0.00	3.87	0.00	116
1525	3.5 C.Y.	29,317	5.72	7.23	1.87	3.58	0.00	4.17	0.00	126
1530	4.0 C.Y.	31,503	6.14	7.77	2.00	3.84	0.00	4.48	0.00	137
1535	4.5 C.Y.	33,819	6.60	8.35	2.16	4.13	0.00	4.82	0.00	147
1540	5.0 C.Y.	37,215	7.27	9.18	2.38	4.55	0.00	5.30	0.00	163
1545	5.5 C.Y.	39,263	7.66	9.69	2.50	4.79	0.00	5.59	0.00	172
1550	6.0 C.Y.	41,536	8.10	10.24	2.65	5.07	0.00	5.91	0.00	182
1555	6.5 C.Y.	43,286	8.44	10.68	2.75	5.28	0.00	6.16	0.00	193
1560	7.0 C.Y.	45,086	8.79	11.11	2.87	5.50	0.00	6.41	0.00	201
1565	7.5 C.Y.	46,874	9.14	11.56	2.98	5.72	0.00	6.67	0.00	209

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	BUCKETS, CLAMSHELL (CONT'D)									
	ESCO - MODEL XDS EXTRA HEAVY DUTY & SQUARE NOSE									
1575	.75 C.Y.	13,989	2.73	3.45	0.89	1.71	0.00	1.99	0.00	52
1580	1.0 C.Y.	14,258	2.78	3.52	0.91	1.74	0.00	2.03	0.00	58
1585	1.5 C.Y.	21,184	4.14	5.23	1.35	2.59	0.00	3.02	0.00	85
1590	2.0 C.Y.	25,623	4.99	6.32	1.63	3.12	0.00	3.65	0.00	103
1595	2.5 C.Y.	28,584	5.57	7.05	1.82	3.48	0.00	4.07	0.00	119
1600	3.0 C.Y.	31,033	6.05	7.66	1.97	3.78	0.00	4.42	0.00	135
1605	3.5 C.Y.	32,614	6.36	8.04	2.08	3.98	0.00	4.64	0.00	149
1610	4.0 C.Y.	34,545	6.74	8.52	2.20	4.22	0.00	4.92	0.00	158
1615	4.5 C.Y.	36,174	7.05	8.92	2.30	4.41	0.00	5.15	0.00	168
1620	5.0 C.Y.	38,791	7.57	9.57	2.48	4.74	0.00	5.52	0.00	181
1625	5.5 C.Y.	41,066	8.01	10.13	2.62	5.01	0.00	5.84	0.00	193
1630	6.0 C.Y.	43,169	8.42	10.65	2.75	5.27	0.00	6.15	0.00	203
1635	6.5 C.Y.	46,770	9.13	11.54	2.98	5.71	0.00	6.66	0.00	220
1640	7.0 C.Y.	48,167	9.40	11.88	3.07	5.88	0.00	6.85	0.00	230
1645	7.5 C.Y.	50,449	9.84	12.45	3.21	6.15	0.00	7.19	0.00	241
	BUCKETS, CONCRETE - GAR-BRO									
	GENERAL PURPOSE & MANUAL									
1655	433-G 1.0 C.Y.	1,327	0.26		0.09	0.16	0.00			6
1660	442-G 1.5 C.Y.	1,659	0.32		0.10	0.20	0.00			8
1665	462-G 2.0 C.Y.	2,158	0.43		0.14	0.27	0.00			11
1670	493-G 3.0 C.Y.	3,057	0.60		0.20	0.38	0.00			19
1675	4123-G 4.0 C.Y.	3,870	0.75		0.25	0.47	0.00			23

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	BUCKETS, CONCRETE - GAR-BRO (CONT'D)									
	LOW SLUMP - AIR OPERATED GATE									
1685	440-A 1.0 C.Y.	5,776	1.13		0.37	0.71	0.00			19
1690	450-A 1.5 C.Y.	6,009	1.18		0.39	0.74	0.00			21
1695	460-A 2.0 C.Y.	6,235	1.23		0.40	0.77	0.00			23
1700	493-A 3.0 C.Y.	8,152	1.59		0.52	0.99	0.00			42
1705	4139-A 4.0 C.Y.	8,450	1.65		0.54	1.03	0.00			52
1710	4200-A 6.0 C.Y. DBL. COMPT.	12,227	2.38		0.78	1.49	0.00			72
1715	4250-A 8.0 C.Y. DBL. COMPT.	14,644	2.86		0.94	1.79	0.00			80
	LAYDOWN - HEAVY DUTY - AIR GATE									
1725	425-A 1.0 C.Y.	6,591	1.28		0.42	0.80	0.00			26
1730	465-A 2.0 C.Y.	7,463	1.46		0.48	0.91	0.00			31
1735	495-A 3.0 C.Y.	8,510	1.66		0.55	1.04	0.00			40
1740	4125-A 4.0 C.Y.	9,459	1.85		0.61	1.16	0.00			49
1745	4155-A 5.0 C.Y.	11,071	2.16		0.71	1.35	0.00			60
	BUCKETS, DRAGLINE									
	HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED									
1760	.75 C.Y.	2,949	0.58	0.73	0.19	0.36	0.00	0.42	0.00	15
1765	1.0 C.Y.	3,497	0.68	0.86	0.22	0.42	0.00	0.50	0.00	18
1770	1.5 C.Y.	4,260	0.83	1.04	0.27	0.52	0.00	0.60	0.00	26
1775	2.0 C.Y.	5,032	0.98	1.25	0.32	0.61	0.00	0.72	0.00	32
1780	2.5 C.Y.	5,910	1.15	1.46	0.38	0.72	0.00	0.84	0.00	37
1785	3.0 C.Y.	7,286	1.42	1.80	0.46	0.89	0.00	1.04	0.00	46
1790	3.5 C.Y.	8,063	1.58	1.98	0.52	0.99	0.00	1.14	0.00	50
1795	4.0 C.Y.	9,813	1.91	2.41	0.62	1.19	0.00	1.39	0.00	65
1800	4.5 C.Y.	10,420	2.03	2.57	0.66	1.27	0.00	1.48	0.00	69
1805	5.0 C.Y.	12,572	2.46	3.10	0.81	1.54	0.00	1.79	0.00	85

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	BUCKETS, DRAGLINE (CONT'D)									
	HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED (CONT'D)									
1810	6.0 C.Y.	13,634	2.66	3.37	0.87	1.66	0.00	1.95	0.00	90
1815	7.0 C.Y.	14,902	2.91	3.68	0.95	1.82	0.00	2.12	0.00	101
1820	8.0 C.Y.	16,521	3.23	4.08	1.05	2.02	0.00	2.36	0.00	112
1825	9.0 C.Y.	19,083	3.71	4.71	1.21	2.32	0.00	2.72	0.00	128
1830	10.0 C.Y.	20,736	4.04	5.12	1.32	2.53	0.00	2.96	0.00	139
1835	12.0 C.Y.	25,502	4.97	6.29	1.63	3.11	0.00	3.63	0.00	166
1840	14.0 C.Y.	29,323	5.72	7.23	1.87	3.58	0.00	4.17	0.00	191
	HENORIX - MODEL TS, MEDIUM WEIGHT									
1850	.75 C.Y.	3,437	0.67	0.85	0.22	0.42	0.00	0.49	0.00	17
1855	1.0 C.Y.	4,229	0.83	1.04	0.27	0.52	0.00	0.60	0.00	19
1860	1.5 C.Y.	5,206	1.02	1.28	0.33	0.64	0.00	0.74	0.00	28
1865	2.0 C.Y.	6,202	1.20	1.53	0.39	0.75	0.00	0.88	0.00	36
1870	2.5 C.Y.	7,151	1.40	1.77	0.46	0.88	0.00	1.02	0.00	41
1875	3.0 C.Y.	8,547	1.66	2.11	0.55	1.04	0.00	1.22	0.00	49
1880	3.5 C.Y.	9,442	1.84	2.34	0.60	1.15	0.00	1.35	0.00	54
1885	4.0 C.Y.	11,321	2.21	2.79	0.72	1.38	0.00	1.61	0.00	70
1890	4.5 C.Y.	12,116	2.37	2.99	0.78	1.48	0.00	1.73	0.00	72
1895	5.0 C.Y.	15,529	3.03	3.83	0.99	1.90	0.00	2.21	0.00	93
1900	6.0 C.Y.	16,047	3.13	3.95	1.02	1.96	0.00	2.28	0.00	96
1905	7.0 C.Y.	18,313	3.57	4.52	1.17	2.23	0.00	2.61	0.00	111
1910	8.0 C.Y.	20,164	3.93	4.97	1.28	2.46	0.00	2.87	0.00	122
1915	9.0 C.Y.	24,132	4.71	5.96	1.54	2.95	0.00	3.44	0.00	149
1920	10.0 C.Y.	25,698	5.02	6.34	1.64	3.14	0.00	3.66	0.00	159
1925	12.0 C.Y.	32,753	6.39	8.09	2.09	4.00	0.00	4.67	0.00	202
1930	14.0 C.Y.	36,471	7.11	9.01	2.32	4.45	0.00	5.20	0.00	225

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	BUCKETS, DRAGLINE (CONT'D) **********									
	HENDRIX - MODEL MH-S, HEAVY WEIGHT									
1940	2.75 C.Y.	13,737	2.68	3.39	0.88	1.68	0.00	1.96	0.00	69
1945	3.0 C.Y.	14,285	2.78	3.52	0.91	1.74	0.00	2.03	0.00	72
1950	3.5 C.Y.	15,993	3.12	3.95	1.02	1.95	0.00	2.28	0.00	81
1955	4.0 C.Y.	21,388	4.17	5.27	1.37	2.61	0.00	3.04	0.00	110
1960	4.5 C.Y.	23,912	4.67	5.91	1.53	2.92	0.00	3.41	0.00	123
1965	5.0 C.Y.	24,692	4.81	6.09	1.57	3.01	0.00	3.51	0.00	127
1970	6.0 C.Y.	26,440	5.16	6.52	1.69	3.23	0.00	3.76	0.00	136
1975	7.0 C.Y.	33,610	6.56	8.30	2.14	4.10	0.00	4.79	0.00	175
1980	8.0 C.Y.	34,569	6.75	8.53	2.20	4.22	0.00	4.92	0.00	180
1985	9.0 C.Y.	43,951	8.57	10.84	2.80	5.36	0.00	6.25	0.00	234
1990	10.0 C.Y.	45,641	8.90	11.26	2.91	5.57	0.00	6.50	0.00	243
1995	12.0 C.Y.	54,284	10.59	13.39	3.46	6.62	0.00	7.73	0.00	289
2000	14.0 C.Y.	57,988	11.32	14.31	3.70	7.08	0.00	8.26	0.00	309
	SAUERMAN - CRESCENT SCRAPER WITH DRAGLINE CONVERSION KIT									
2010	SC-1050-K 1.0 C.Y.	9,435	1.84	2.33	0.60	1.15	0.00	1.35	0.00	15
2015	SC-1060-K 1.5 C.Y.	12,081	2.35	2.97	0.77	1.47	0.00	1.71	0.00	20
2020	SC-1070-K 2.0 C.Y.	16,568	3.23	4.09	1.05	2.02	0.00	2.36	0.00	25
2025	SC-1090-K 3.0 C.Y.	21,905	4.27	5.41	1.40	2.67	0.00	3.12	0.00	36
2030	SC-1100-K 4.0 C.Y.	32,760	6.39	8.09	2.09	4.00	0.00	4.67	0.00	49
2035	SC-1110-K 5.0 C.Y.	37,347	7.29	9.21	2.38	4.56	0.00	5.31	0.00	58
2040	SC-1120-K 6.0 C.Y.	45,273	8.83	11.16	2.88	5.52	0.00	6.44	0.00	68
2045	SC-1130-K 8.0 C.Y.	54,986	10.73	13.57	3.50	6.71	0.00	7.83	0.00	88
2050	SC-1140-K 10.0 C.Y.	56,717	13.01	16.46	4.25	8.14	0.00	9.50	0.00	106
2055	SC-1150-K 12.0 C.Y.	77,369	15.09	19.08	4.93	9.44	0.00	11.01	0.00	132

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	COMPACTORS, MANUALLY OPERATED									
2065	UR-12 INGERSOLL-RAND RAMMER 3 HP G	1,527	0.97		0.12	0.27	0.35			1
2070	GVR75Y WACKER RAMMER 3 HP G	1,201	0.85		0.10	0.21	0.35			1
2075	GVR100 WACKER RAMMER 5 HP G	1,632	1.30		0.13	0.29	0.58			1
2080	GVR151Y WACKER RAMMER 5 HP G	2,111	1.46		0.17	0.37	0.58			2
2085	GVR220Y WACKER RAMMER 6 HP G	2,728	1.83		0.22	0.48	0.70			2
2090	VPG160B WACKER VIBRO PLATE 3 HP G	1,053	0.81		0.09	0.19	0.35			2
2095	VPG260K WACKER VIBRO PLATE 7 HP G	1,649	1.60		0.13	0.29	0.82			3
2100	VPG600 WACKER VIBRO PLATE 9 HP G	3,095	2.39		0.24	0.54	1.05			7
2105	DPS2350 WACKER VIBRO PLATE 7 HP D	3,283	1.63		0.26	0.57	0.39			4
2110	DPS4570 WACKER VIBRO PLATE 10 HP D	5,264	2.54		0.42	0.93	0.55			8
2115	DVU4001 WACKER VIBRO PLATE 10 HP D	10,782	4.48		0.85	1.89	0.55			13
2120	W 55 T WACKER D/D ROLLER 8 HP D	10,359	4.21		0.82	1.82	0.44			17
2125	W 74 T WACKER D/D ROLLER 8 HP D	11,690	4.69		0.93	2.06	0.44			19
2130	BW 75 SL BOMAG D/D ROLLER 9 HP D	13,154	5.27		1.04	2.31	0.50			27
2135	BW 90 SL BOMAG D/D ROLLER 13 HP D	15,985	6.54		1.27	2.81	0.72			35
	CONCRETE BUGGIES - AEROIL									
2145	5 CF WALK-BEHIND 5 HP G	1,421	0.89		0.09	0.17	0.45			3
	CONCRETE FINISHERS - BOMAG									
2155	MOD F46B4 CARO TROWEL 7 HP G	1,344	1.11		0.09	0.16	0.64			2
2160	MOD RF2B4 DOUBLTROWEL 16 HP G	5,304	3.01		0.33	0.64	1.45			7
2165	MOD RF3B3 TRIPLTROWEL 16 HP G	6,839	3.32		0.43	0.83	1.45			9

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

UNIT NO.	EQUIPMENT			VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	CONCRETE PAVERS **********											
	CMI											
2175	MOD SF - 175 SLIPFORM PAVER CURBS, MEDIANS, AND SIDEWALKS	142 HP	D	121,261	32.97		7.75	14.30	5.61			263
2180	MOD SF - 250 26' WIDE SLIPFORM UNIT, 0-80 FT/MIN, CRAWLER MTD.	208 HP	D	215,794	56.42		13.80	25.45	8.22			470
2185	MOD SUBURBAN 25' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD.	250 HP	D	381,557	93.80		24.39	44.99	9.88			720
	GOMACO											
2195	MOD C-650 24' WIDE FORM PAVER W/4' FINISHING CYLINDERS	50 HP	G	23,890	10.66		1.53	2.80	4.22			91
2200	MOD HW-165 16'-6" WIDE SLIPFORM UNIT, AUTO VIBRATORS, CRLR MTD	100 HP	D	110,478	28.55		7.06	13.02	3.95			240
	CONCRETE PLACERS, SHOTCRETE **********											
	ALLENTOWN											
2210	R450 PNEUM. GUN N-1 3-4 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 365 CFM COMP.	12 HP	D	21,846	6.58		1.51	3.07	0.70			45
2215	R900 PNEUM. GUN N-2 6-10 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 600 CFM COMP.	20 HP	D	24,276	7.82		1.68	3.43	1.16			60
2220	GM27 ROTARY GUN 1-4 CY/HR INCL. HOSE,REQ. 400 CFM COMP.	400CFM	A	9,061	2.54		0.63	1.29	0.00			15
2225	GM57 ROTARY GUN 4-12 CY/HR INCL. HOSE,REQ. 600 CFM COMP.	600CFM	A	14,539	4.07		1.01	2.07	0.00			30
	CHALLENGE SQUEEZ-CRETE											
2235	250-D FOR WET SHOTCRETE 25 CY/HR TRAILER MOUNTED INCL. HOSE	62 HP	D	42,504	15.68		2.95	6.03	3.61			70

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	CONCRETE PUMPS									
	MORGEN									
2245	MOD 204-305 TRAILER MTD 60 CY/HR 110 HP D	50,101	21.24		3.47	7.11	6.41			70
2250	MOD 203-420 BOOM 72'-VT 120 CY/HR 210 HP D INCLUDES 24500 GVW TRUCK	127,529	51.62		8.83	18.02	14.35			255
	SCHWING									
2260	MOD BPA 350 TRAILER MTD 60 CY/HR 67 HP D	44,338	16.53		3.07	6.29	3.90			66
2265	MOD BPA 650 TRAILER MTD 60 CY/HR 152 HP D	69,375	29.38		4.79	9.78	8.85			98
2270	MOD BPA 901 TRAILER MTD 135 CY/HR 152 HP D	71,290	29.88		4.93	10.06	8.85			98
2275	MOD BPL 580 TRUCK MTD 72 CY/HR 175 HP D INCLUDING TRUCK AND 75' BOOM	135,000	50.58		9.30	18.91	11.96			302
2280	MOD BPL 801 TRUCK MTD 107 CY/HR 175 HP D INCLUDING TRUCK AND 92' BOOM	196,859	66.67		13.58	27.65	11.96			321
2285	MOD BPL1201 TRUCK MTD 147 CY/HR 239 HP D INCLUDING TRUCK AND 102' BOOM	245,854	85.15		16.92	34.39	16.33			408
2290	MOD BPL3000 TRUCK MTD 118 CY/HR 239 HP D INCLUDING TRUCK AND 102' BOOM	248,727	85.90		17.12	34.80	16.33			408
	CRANES, SHOVEL,BACKHOE,DRAGLINE									
	AMERICAN - CRAWLER TYPE									
	MOD 4120 DRAGLINE 1 CY 93 HP D 13'-7" CRAWLERS W/28" SHOES									
2300	DRAGLINE OR CLAMSHELL (LESS BUCKET)	167,188	31.81	38.81	10.01	18.12	2.90	20.38	3.68	635
	MOD 597-C 1.25 CY T/C 114 HP D 14'-7" CRAWLERS W/32" SHOES									
2305	DRAGLINE OR CLAMSHELL (LESS BUCKET)	228,543	38.72	45.57	12.82	21.68	3.56	23.58	4.51	814
2310	CRANE 35-T W/65' BOOM	235,682	35.17	40.44	13.40	21.88	2.85	23.69	3.68	803
	MOD 599-A LIFTING CRANE T/C 114 HP D 16'-0" CRAWLERS W/32" SHOES									
2320	CRANE 40-T W/75' BOOM	249,439	37.02	42.56	14.17	23.15	2.85	25.08	3.68	962

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D)									
	AMERICAN - CRAWLER TYPE (CONT'D)									
	MOD 5299-A LIFTING CRANE T/C 114 HP D 17'-6" CRAWLERS W/32" SHOES									
2330	CRANE 50-T W/75' BOOM	263,800	38.97	44.75	15.00	24.49	2.85	26.52	3.68	1088
	MOD 797-C 2 CY T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES									
2340	DRAGLINE OR CLAMSHELL (LESS BUCKET)	318,120	54.22	63.87	17.83	30.17	5.24	32.83	6.64	1278
2345	CRANE 40-T W/75' BOOM	311,615	46.99	54.12	17.71	28.92	4.19	31.32	5.42	1262
	MOD 7250 STEEL ERECTOR T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES									
2355	CRANE 60-T W/80' BOOM	332,069	46.59	52.57	18.09	28.05	4.19	29.78	5.42	1421
	MOD 7260 LIFTING CRANE T/C 168 HP D 19'-6" CRAWLERS W/38" SHOES									
2365	CRANE 100T W/200' BOOM	422,623	57.94	65.16	23.02	35.69	4.19	37.90	5.42	1886
	MOD 999-C STEEL ERECTOR T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES									
2375	CRANE 110-T W/200' BOOM	555,760	78.17	88.20	30.28	46.95	7.16	49.84	9.25	2792
	MOD 9260 4.5 CY T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES									
2385	CRANE 125T W/270' BOOM	579,959	81.19	91.57	31.59	48.98	7.16	52.01	9.25	3150
2390	DRAGLINE OR CLAMSHELL (LESS BUCKET)	556,108	87.59	100.87	29.76	47.74	8.95	50.88	11.34	2950
	MOD 9270 LIFT CR TAPERED TIP T/C 287 HP D 23'-9" CRAWLERS W/44" SHOES									
2400	CRANE 150T W/280' BOOM	658,585	91.06	102.51	35.88	55.63	7.16	59.07	9.25	3400
	MOD 9299 LIFTING CRANE T/C 287 HP D 24'-11" CRAWLERS W/44" SHOES									
2410	CRANE 165T W/290' BOOM	685,187	92.33	102.87	36.52	55.01	7.16	57.87	9.25	3580

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D) **********									
	AMERICAN - CRAWLER TYPE (CONT'D)									
	MOD 9310 LIFTING CRANE T/C 287 HP D 28'-2" CRAWLERS W/50" SHOES									
2420	CRANE 225T W/280' BOOM	740,933	99.16	110.36	39.49	59.49	7.16	62.58	9.25	3990
	BUCYRUS ERIE - CRAWLER TYPE									
	MOD 25-B SER-3 HVY DUTY 1 CY 115 HP D 13'-11" CRAWLERS W/30" SHOES									
2435	DRAGLINE OR CLAMSHELL (LESS BUCKET)	175,430	34.03	41.52	10.51	19.01	3.59	21.38	4.54	647
2440	CRANE 28-T W/50' BOOM	185,534	28.43	32.80	10.55	17.22	2.87	18.65	3.71	651
	MOD 30-B SER 5 HVY DUTY 1.5 CY 144 HP D 14'-7" CRAWLERS W/36" SHOES									
2450	BACKHOE	242,290	46.89	56.76	14.16	25.00	5.24	27.75	6.89	792
2455	DRAGLINE OR CLAMSHELL (LESS BUCKET)	237,999	41.25	48.62	13.35	22.58	4.49	24.55	5.69	833
2460	CRANE 35-T W/60' BOOM	239,171	36.52	42.12	13.59	22.20	3.59	24.04	4.64	831
	MOD 38-B SER 2 HVY DUTY 2 CY T/C 178 HP D 17'-5" CRAWLERS W/36" SHOES									
2470	SHOVEL	338,011	64.43	77.89	19.74	34.87	6.48	38.71	8.52	1279
2475	DRAGLINE OR CLAMSHELL (LESS BUCKET)	343,664	58.46	68.82	19.27	32.60	5.55	35.46	7.03	1192
	MOD 61-B SER 2 3.25 CY T/C 205 HP D 15'-11" CRAWLERS W/33" SHOES									
2485	SHOVEL	490,210	82.69	96.86	27.01	44.84	7.46	48.40	9.81	1762
2490	BACKHOE	469,361	79.55	93.23	25.87	42.94	7.46	46.33	9.81	1727
2495	DRAGLINE OR CLAMSHELL (LESS BUCKET)	474,683	73.30	84.23	25.41	40.75	6.40	43.42	8.10	1570
2500	CRANE 51-T W/70' BOOM	467,193	64.64	72.77	25.45	39.46	5.12	41.90	6.61	1571
	MOD 61-B SER-2 110-T 4 CY T/C 243 HP D 20'-6" CRAWLERS W/42" SHOES									
2510	CRANE 110T W/160' BOOM	581,280	80.07	90.07	31.66	49.10	6.07	52.13	7.83	2123
2515	DRAGLINE OR CLAMSHELL (LESS BUCKET)	554,974	85.81	98.64	29.70	47.64	7.58	50.77	9.60	1973

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	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									
2525	SHOVEL	593,391	100.00	117.12	32.70	54.28	8.95	58.58	11.77	2096
2530	BACKHOE	561,774	95.24	111.61	30.96	51.39	8.95	55.45	11.77	2000
2535	DRAGLINE OR CLAMSHELL (LESS BUCKET)	546,229	84.72	97.40	29.24	46.89	7.68	49.97	9.72	1768
	MOD 88-B SER 4 5.5 CY T/C 365 HP D 17'-10" CRAWLERS W/36" SHOES									
2545	SHOVEL	828,087	140.08	156.33	44.32	71.09	13.29	75.76	17.46	2822
2550	DRAGLINE OR CLAMSHELL (LESS BUCKET)	668,773	102.35	116.55	35.64	53.69	11.39	56.48	14.42	2274
	LINK BELT (FMC) - CRAWLER TYPE									
	MOD LS-98A LIFTING CRANE T/C 110 HP D 15'-1" CRAWLERS W/24" SHOES									
2565	CRANE 40-T W/50' BOOM	181,212	27.70	31.94	10.30	16.82	2.75	18.21	3.55	772
	MOD LS-118 LIFTING CRANE T/C 165 HP D 17'-0" CRAWLERS W/30" SHOES									
2575	CRANE 60-T W/80' BOOM	276,522	39.55	44.73	15.07	23.36	4.12	24.80	5.32	1232
	MOD LS-338 LIFTING CRANE T/C 170 HP D 20'-0" CRAWLERS W/38" SHOES									
2585	CRANE 100-T W/200' BOOM	381,293	52.83	59.49	20.77	32.21	4.24	34.19	5.48	1512
	MOD LS-518 LIFTING CRANE T/C 245 HP D 24'-4" CRAWLERS W-44" SHOES									
2595	CRANE 150-T W/250' BOOM	608,840	83.59	93.98	33.17	51.43	6.12	54.60	7.90	2712
	MANITOWOC - CRAWLER TYPE									
	MOD 3900 VICON 3.5 CY T/C 287 HP D 20'-4" CRAWLERS W/38" SHOES									
2610	DRAGLINE OR CLAMSHELL (LESS BUCKET)	398,208	65.71	76.03	21.31	34.18	8.95	36.43	11.34	2306
2615	CRANE 100T W/210' BOOM	431,251	62.55	70.89	23.49	36.43	7.16	38.68	9.25	2354

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D)									
	MANITOWOC - CRAWLER TYPE (CONT'D)									
	MOD 3900W VICON SER2 4 CY T/C 333 HP D 24'-0" CRAWLERS W/48" SHOES									
2625	DRAGLINE OR CLAMSHELL (LESS BUCKET)	507,210	82.51	95.32	27.15	43.54	10.39	46.40	13.16	2763
2630	CRANE 140T W/250' BOOM	513,700	74.24	84.11	27.99	43.39	8.31	46.07	10.74	2815
	MOD 4100W VICON SER1 5 CY T/C 360 HP D 26'-6" CRAWLERS W/48" SHOES									
2640	DRAGLINE OR CLAMSHELL (LESS BUCKET)	674,563	106.69	122.91	36.10	57.91	11.23	61.71	14.23	3788
2645	CRANE 200T W/260' BOOM	682,641	94.18	105.32	36.38	54.81	8.99	57.66	11.61	3929
	MOD 4600 VICON SERIES 3 7CY T/C 685 HP D 26'-1" CRAWLERS W/60" SHOES									
2655	CRANE 240T W/260' BOOM	1,050,184	148.74	167.00	55.96	84.31	17.10	88.70	22.08	5095
2660	DRAGLINE OR CLAMSHELL (LESS BUCKET)	1,069,990	167.48	191.19	57.02	85.90	21.37	90.37	27.07	5083
	NORTHWEST - CRAWLER TYPE									
	MOD 50-D 1.5 CY T/C 238 HP D 15'-4" CRAWLERS W/30" SHOES									
2675	DRAGLINE OR CLAMSHELL (LESS BUCKET)	238,436	44.78	53.09	13.36	22.61	7.43	24.60	9.41	954
2680	CRANE 45-T W/60' BOOM	235,767	38.82	45.17	13.40	21.88	5.94	23.70	7.67	947
	MOD 80-D 2.5 CY T/C 263 HP D 15'-10" CRAWLERS W/30" SHOES									
2690	SHOVEL	401,514	78.74	95.43	23.45	41.42	9.57	45.98	12.58	1510
2695	DRAGLINE OR CLAMSHELL (LESS BUCKET)	344,543	61.73	72.93	19.32	32.68	8.21	35.54	10.39	1274
2700	CRANE 40-T W/50' BOOM	340,847	53.74	62.22	19.37	31.64	6.56	34.26	8.48	1267
	MOD 9570 4.0 CY T/C 263 HP D 19'-0" CRAWLERS W/38" SHOES									
2710	DRAGLINE OR CLAMSHELL (LESS BUCKET)	430,549	69.33	80.00	23.04	36.96	8.21	39.39	10.39	1580
2715	CRANE 60-T W/50' BOOM	426,830	61.28	69.37	23.25	36.05	6.56	38.28	8.48	1565

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	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									
2725	SHOVEL	664,341	115.52	135.78	36.62	60.78	13.03	65.58	17.13	2571
2730	DRAGLINE OR CLAMSHELL (LESS BUCKET)	598,659	96.10	110.87	32.04	51.39	11.17	54.76	14.15	2365
2735	CRANE 97.5-T W/170' BOOM	619,842	88.30	99.82	33.77	52.36	8.94	55.59	11.54	2464
	MOD 190-D WT SERIES 2 T/C 430 HP D 21'-1" CRAWLERS W/54" SHOES									
2745	DRAGLINE 6.5 CY (LESS BUCKET)	630,975	99.72	113.96	33.63	50.66	13.42	53.29	16.99	2740
2750	CRANE 100-T W/170' BOOM	670,676	96.78	109.63	36.54	56.65	10.73	60.15	13.86	2872
	P & H - CRAWLER TYPE									
	MOD 535 1.25 CY T/C 190 HP D 15'-8" CRAWLERS W/30" SHOES									
2765	DRAGLINE OR CLAMSHELL (LESS BUCKET)	222,959	40.68	48.13	12.50	21.15	5.93	23.01	7.51	880
2770	CRANE 35-T W/50' BOOM	219,967	35.28	40.93	12.50	20.42	4.74	22.11	6.13	880
	MOD 550 1.75 CY T/C 190 HP D 18'-0" CRAWLERS W/30" SHOES									
2780	DRAGLINE (LESS BUCKET)	253,924	45.35	53.57	14.23	24.08	5.93	26.19	7.51	1028
2785	CRANE 50-T W/80' BOOM	251,262	39.50	45.72	14.28	23.32	4.74	25.26	6.13	1028
	MOD 670WLC 2 CY T/C 190 HP D 18'-6" CRAWLERS W/30" SHOES									
2795	DRAGLINE OR CLAMSHELL (LESS BUCKET)	325,736	56.20	66.23	18.26	30.90	5.93	33.61	7.51	1344
2800	CRANE 70-T W/150' BOOM	343,873	48.72	55.05	18.73	29.04	4.74	30.84	6.13	1466

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	CRANES, HYDRAULIC SELF-PROPELLED									
	GROVE									
2815	MOD RT58A 14 TON 112 HP D	96,555	19.39		5.35	8.44	4.43			407
2820	MOD RT515 15 TON 115 HP D	104,374	20.59		5.79	9.14	4.54			415
2825	MOD RT518 18 TON 115 HP D	117,962	22.77		6.51	10.23	4.54			448
2830	MOD RT522 22 TON 115 HP D	129,156	24.32		7.13	11.22	4.54			494
2835	MOD RT625 25 TON 156 HP D	168,607	31.42		9.33	14.68	6.17			545
2840	MOD RT740 40 TON 170 HP D	235,817	42.57		13.01	20.43	6.72			755
2845	MOD RT755 55 TON 170 HP D	281,556	49.38		15.51	24.31	6.72			835
2850	MOD RT865 65 TON 208 HP D	346,596	60.05		19.16	30.17	8.22			1095
2855	MOD RT980 80 TON 230 HP D	447,540	76.04		24.70	38.79	9.09			1310
	LORAIN									
2865	MOD LRT150 15 TON 120 HP D	101,843	20.28		5.66	8.99	4.74			438
2870	MOD LRT180 18 TON 120 HP D	109,717	21.34		6.10	9.69	4.74			450
2875	MOD LRT220 22 TON 120 HP D	117,380	22.39		6.54	10.39	4.74			468
	P & H									
2885	MOD OMEGA 15 15 TON 125 HP D	99,230	20.18		5.52	8.76	4.94			361
2890	MOD OMEGA 18 18 TON 125 HP D	103,957	20.82		5.78	9.18	4.94			366
2895	MOD OMEGA 20 20 TON 125 HP D	107,606	21.31		5.99	9.51	4.94			375
2900	MOD OMEGA 23 23 TON 125 HP D	122,815	23.73		6.81	10.75	4.94			425
2905	MOD OMEGA 25 25 TON 155 HP D	157,372	30.75		8.66	13.55	6.13			540
2910	MOD OMEGA 30 30 TON 155 HP D	162,045	31.38		8.92	13.97	6.13			550
2915	MOD OMEGA 35 35 TON 202 HP D	224,898	42.71		12.40	19.45	7.98			740
2920	MOD OMEGA 40 40 TON 202 HP D	232,266	43.71		12.81	20.11	7.98			760
2925	MOD OMEGA 45 45 TON 202 HP D	238,958	44.61		13.19	20.71	7.98			770
2930	MOD OMEGA 65 65 TON 235 HP D	318,690	57.63		17.60	27.67	9.29			980

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	CRANES, HYD SELF-PROPELLED (CONT'D) **********									
	PETTIBONE									
2940	MOD 25 12.5 TON 120 HP D	100,888	20.15		5.61	8.91	4.74			456
2945	MOD 36P 18 TON 120 HP D	116,167	22.58		6.43	10.15	4.74			492
2950	MOD 100SC 50 TON 188 HP D	263,537	47.25		14.57	22.92	7.43			1050
	CRANES, HYDRAULIC TRUCK MOUNTED ********** (HP & FUEL LISTED EQUIP/CARRIER)									
	BUCYRUS ERIE									
2960	30-XC 30 TON W/80' BOOM 130/210 HP D/D	182,562	31.02	35.95	9.71	15.45	6.67	16.46	8.55	552
2965	60-XC 60 TON W/104' BOOM 197/238 HP D/D	321,375	51.60	59.53	17.13	27.31	9.53	29.08	12.28	783
	GROVE									
2975	TMS185 18 TON W/106' BOOM 172 HP D	177,322	31.60	37.43	10.04	16.29	6.80	17.63	8.94	442
2980	TMS300 35 TON W/112' BOOM 203 HP D	206,501	35.77	41.90	10.99	17.46	8.02	18.59	10.56	705
2985	TMS475 50 TON W/142' BOOM 213 HP D	261,992	42.99	50.01	13.96	22.22	8.42	23.66	11.08	776
2990	TM875 80 TON W/146' BOOM 196/268 HP D/D	381,628	59.23	67.67	19.78	30.41	9.71	32.06	12.48	1200
2995	TM1150 115 TON W/172' BOOM 196/315 HP D/D	587,509	84.01	94.88	30.54	47.16	10.05	49.73	12.88	1600
3000	TM1400 140 TON W/173' BOOM 318/387 HP D/D	690,192	101.88	115.20	35.17	52.88	15.40	55.35	19.84	1870
	LINK BELT (FMC)									
3010	HTC-25 25 TON W/95' BOOM 216 HP D	174,101	33.44	39.93	9.85	15.96	8.54	17.27	11.23	462
3015	HTC-35 35 TON W/108' BOOM 216 HP D	204,584	35.99	42.25	10.90	17.37	8.54	18.50	11.23	628
3020	HTC-50 50 TON W/122' BOOM 244 HP D	249,582	42.94	50.23	13.30	21.20	9.64	22.57	12.69	727
	PETTIBONE									
3030	50TKLSPC 25 TON W/95' BOOM 210 HP D	178,262	33.62	40.07	10.09	16.37	8.30	17.72	10.92	520
3035	80TKLS 40 TON W/112' BOOM 244 HP D	227,589	40.34	47.38	12.12	19.29	9.64	20.53	12.69	738
3040	100TKLSPC50 TON W/111' BOOM 244 HP D	253,563	43.48	50.88	13.51	21.52	9.64	22.91	12.69	820
3045	160TKLSPC80 TON W/118' BOOM 365 HP D	403,208	67.73	78.65	20.91	32.17	14.42	33.91	18.98	1395

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	CRANES, TRUCK MOUNTED ********** (HP & FUEL LISTED EQUIP/CARRIER)									
	AMERICAN									
3055	5470 65 TON W/170' BOOM 115/238 HP D/D	321,548	48.04	54.84	17.09	27.13	6.29	28.89	8.01	1175
3060	5530 75 TON W/170' BOOM 115/238 HP D/D	329,052	48.07	54.40	17.09	26.34	6.29	27.78	8.01	1245
3065	7460 90 TON W/200' BOOM 203/238 HP D/D	409,970	62.01	70.66	21.31	32.92	9.76	34.72	12.59	1503
3070	7530 125 TON W/200' BOOM 203/350 HP D/D	459,047	69.21	78.70	23.85	36.80	10.58	38.81	13.54	1696
3075	8460 165 TON W/200' BOOM 268/350 HP D/D	659,073	94.64	106.56	33.63	50.69	13.15	53.07	16.92	2320
	LINK BELT (FMC)									
3085	HC108C 50 TON W/150' BOOM 110/238 HP D/D	315,824	47.10	53.76	16.79	26.65	6.09	28.37	7.75	1197
3090	HC218A 100 TON W/220' BOOM 165/318 HP D/D	438,067	65.10	73.85	22.71	34.91	8.85	36.80	11.30	1566
3095	HC238A 140 TON W/230' BOOM 171/318 HP D/D	523,474	73.80	82.77	26.68	40.16	9.09	42.04	11.61	2068
	LORAIN									
3105	MC550A 50 TON W/160' BOOM 115/246 HP D/D	309,790	46.70	53.36	16.46	26.13	6.35	27.82	8.08	1111
3110	MC670A 70 TON W/170' BOOM 150/290 HP D/D	353,443	53.18	60.43	18.36	28.33	8.05	29.88	10.28	1243
3115	MC790 90 TON W/220' BOOM 220/290 HP D/D	437,846	67.56	77.14	22.70	34.90	10.82	36.79	13.92	1594
3120	MC1400 140 TON W/230' BOOM 220/290 HP D/D	526,162	77.13	87.07	26.75	40.09	10.82	41.96	13.92	1950
	P & H									
3130	325TC 25 TON W/110' BOOM 83/190 HP D/D	208,684	33.04	38.36	11.81	19.16	4.67	20.73	5.94	645
3135	430ATC 35 TON W/150' BOOM 90/210 HP D/D	235,636	35.48	40.52	12.56	20.01	5.09	21.31	6.47	763
3140	440TC 40 TON W/170' BOOM 90/228 HP D/D	258,025	38.54	43.94	13.74	21.87	5.23	23.29	6.63	964
3145	650ATC 50 TON W/150' BOOM 135/236 HP D/D	340,083	51.27	58.63	18.09	28.73	7.06	30.59	9.04	1178
3150	670TC 70 TON W/180' BOOM 135/255 HP D/D	376,317	54.81	62.04	19.56	30.19	7.20	31.84	9.20	1340
3155	790BTC 90 TON W/200' BOOM 160/350 HP D/D	420,977	62.57	70.94	21.86	33.70	8.89	35.54	11.31	1606
3160	9115 125 TON W/220' BOOM 179/350 HP D/D	522,058	75.47	85.30	27.14	41.92	9.64	44.21	12.30	1709
3165	9150 150 TON W/270' BOOM 210/350 HP D/D	567,073	81.09	91.18	28.92	43.55	10.86	45.59	13.91	1805
3170	6250TC 300 TON W/320' BOOM 364/450 HP D/D	1,160,536	159.49	178.44	59.24	89.35	17.68	93.54	22.77	3928

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	DRILLS, BLAST HOLE, CRAWLER MTD **********									
	GARDNER DENVER									
3180	AT3100B/PR123J 3.0" HOLE 12' FEED 600CFM A	65,059	14.46		4.15	7.93	0.00			91
3185	AT3100B/PR55 3.5" HOLE 12' FEED 750CFM A	59,659	13.43		3.81	7.27	0.00			93
3190	AT3100B/PR66 4.0" HOLE 12' FEED 900CFM A	67,988	15.40		4.34	8.28	0.00			95
3195	AT3700A/PR66 ANGLE DRILL 900CFM A 4.0" HOLE 12' FEED	80,129	18.03		5.10	9.75	0.00			146
3200	ATD5100/PR80H ANGLE DRILL 1200CFM A 4.5" HOLE 20' FEED	88,928	20.09		5.66	10.82	0.00			200
	INGERSOLL-RAND									
3210	ECM350/VL140 4.0" HOLE 12' FEED 750CFM A	73,384	16.38		4.67	8.93	0.00			129
3215	ECM350/VL671 4.5" HOLE 12' FEED 900CFM A	80,051	17.99		5.10	9.75	0.00			131
3220	CM2000/VL170 5.0" HOLE 24' FEED1400CFM A	90,826	20.67		5.79	11.06	0.00			170
	JOY									
3230	RAM STD/VCR260 4.0" HOLE 12' FEED 800CFM A	65,577	14.77		4.18	7.99	0.00			100
3235	RAM EXT/VCR260 4.0" HOLE 12' FEED 800CFM A	74,380	16.68		4.74	9.06	0.00			144
3240	MUSTANG VCR280 5" HOLE 23' FEED1200CFM A	90,854	20.50		5.79	11.06	0.00			184
	DRILLS, CORE, AIR, COLUMN MOUNTED **********									
3250	LONGYEAR 24 WOLVERINE AX 700' 450CFM A	16,071	3.78		1.02	1.95	0.00			12
3255	LONGYEAR 65D EX 600' 400CFM A	10,338	2.54		0.66	1.26	0.00			3
3260	65D ROD PULLER 21" STROKE 400CFM A	1,536	0.57		0.10	0.19	0.00			1
	DRILLS, CORE, SKID MOUNTED **********									
	ACKER									
3270	TEREDO MARK-II NX 1000' MAX 44 HP D	24,195	7.92		1.54	2.94	2.15			40
3275	ACE MODEL C NX 725' MAX 20 HP D	16,827	4.87		1.08	2.05	0.98			45

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	DRILLS, CORE, SKID MOUNTED (CONT'D)									
	LONGYEAR									
3285	MOD 24 STD AX 675' MAX 12 HP G	15,290	4.76		0.98	1.86	1.24			17
3290	MOD 34 NX 1000' MAX 31 HP G	23,216	8.77		1.48	2.83	3.21			38
3295	MOD 34 NX 1000' MAX 40 HP D	27,694	8.45		1.77	3.37	1.96			39
3300	MOD 38 NX 1800' MAX 54 HP D	31,875	10.20		2.03	3.88	2.64			41
3305	MOD 44 NX 2500' MAX 60 HP D	38,224	11.94		2.44	4.66	2.93			56
	SPRAGUE AND HENWOOD									
3315	MOD 37-H NX 400' MAX 18 HP G	14,567	5.34		0.93	1.78	1.87			18
3320	MOD 40-CL NX 1050' MAX 49 HP D	22,514	7.86		1.44	2.74	2.40			27
	DRILLS, ROTARY									
	INGERSOLL-RAND									
3330	MOD T4-BH 7-7/8" DRILLMASTER TRK. MOUNTED 304 HP D	285,386	64.72		15.95	26.82	14.86			550
	JOY-ROBBINS									
3340	RRT 35 TK MTD 6-1/4" TO 7-7/8" 225 HP D	267,358	57.06		14.94	25.10	11.00			600
3345	RRT 50 TK MTD 6-3/4" TO 9-0" 335 HP D	408,770	86.48		22.84	38.41	16.37			860
3350	RRT 60 TK MTD 6-3/4" TO 9-7/8" 350 HP D	434,792	91.53		24.31	40.88	17.11			960
3355	RR10S CRLR MTD 6-3/4" TO 9-0" 410 HP D	310,151	74.00		17.39	29.39	20.04			1160
3360	RR10HD ON D9 6-3/4" TO 10-5/8" 410 HP D	342,729	79.18		19.22	32.49	20.04			1340
3365	RR10XHD ON D9 9-7/8" TO 12-1/4" 410 HP D	518,057	91.73		27.08	42.12	20.04			1830
3370	RR12E CRLR MTD 9-0" TO 12-1" 725/450 HP E/E	958,661	146.53		50.13	77.95	30.45			2605

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	FORK LIFTS									
	HYSTER - CHALLENGER									
3380	H30H 3000# @ 24" LC (LOAD CNTR) 63 HP G	23,374	11.20		1.47	2.79	5.32			71
3385	H60C 6000# @ 24" LC 80 HP G	26,435	13.58		1.67	3.16	6.76			103
3390	H110F 11000# @ 24" LC 116 HP G	40,370	20.08		2.56	4.85	9.80			163
3395	H150H 15000# @ 24" LC 127 HP G	56,638	24.51		3.56	6.72	10.73			234
3400	H200HS20000# @ 24" LC PS 127 HP G	64,818	26.10		4.08	7.71	10.73			256
3405	H250H 25000# @ 24" LC PS 127 HP G	67,396	26.63		4.23	7.99	10.73			295
3410	H300B 30000# @ 24" LC PS 127 HP G	75,050	28.12		4.72	8.93	10.73			360
3415	H460B 46000# @ 48" LC PS 190 HP G	145,440	48.83		9.08	17.01	16.05			590
	GENERATOR SETS, ELECTRIC									
	CATERPILLAR T = TURBOCHARGED TA = TURBOCHARGED AFTER COOLED									
	SKID MOUNTED									
3430	MOD 3304 -T 240/480V 75 KW 129 HP D	18,856	9.60	12.11	1.21	2.05	5.10	2.19	6.71	37
3435	MOD 3306 -T 240/480V 130 KW 200 HP D	22,209	13.67	17.36	1.43	2.42	7.90	2.58	10.40	46
3440	MOD 3306 -TA 240/480V 150 KW 220 HP D	25,320	15.19	19.26	1.63	2.76	8.69	2.93	11.44	48
3445	MOD 3406 -T 240/480V 175 KW 260 HP D	26,806	17.42	22.14	1.73	2.92	10.28	3.11	13.52	57
3450	MOD 3406 -TA 240/480V 200 KW 295 HP D	30,386	19.75	25.11	1.95	3.31	11.66	3.52	15.34	59
3455	MOD 3408 -T 240/480V 225 KW 330 HP D	35,481	22.36	28.40	2.29	3.87	13.04	4.12	17.16	72
3460	MOD 3408 -TA 240/480V 265 KW 390 HP D	38,547	25.83	32.88	2.48	4.20	15.41	4.47	20.28	81
3465	MOD D353 -TA 240/480V 290 KW 425 HP D	70,595	33.14	41.56	4.55	7.70	16.80	8.19	22.10	114
3470	MOD 3412 -T 240/480V 300 KW 440 HP D	53,375	30.85	39.08	3.43	5.81	17.39	6.19	22.88	91
3475	MOD 3412 -TA 240/480V 440 KW 625 HP D	62,089	41.44	52.74	3.99	6.76	24.70	7.19	32.50	102
3480	MOD D348 -TA 240/480V 510 KW 730 HP D	94,637	52.27	66.04	6.10	10.32	28.85	10.96	37.96	140
3485	MOD D398B-TA 230/460V 565 KW 810 HP D	140,421	64.16	80.38	9.04	15.30	32.01	16.27	42.12	208
3490	MOD D399 -TA 230/460V 820 KW 1155 HP D	182,750	88.45	111.12	11.77	19.92	45.65	21.18	60.06	268

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	GENERATOR SETS, ELECTRIC (CONT'D)									
	ONAN									
	SKID MOUNTED									
3505	120/240V 2.5 KW 6 HP G	1,269	0.85	1.07	0.08	0.14	0.51	0.14	0.66	2
3510	120/240V 6.5 KW 14 HP G	2,863	1.96	2.48	0.18	0.31	1.18	0.33	1.54	3
3515	120/240V 10.0 KW 20 HP G	3,126	2.64	3.36	0.20	0.34	1.69	0.37	2.20	4
3520	120/240V 3.0 KW 6 HP D	3,311	0.88	1.04	0.21	0.36	0.24	0.38	0.31	4
3525	120/240V 6.0 KW 12 HP D	4,395	1.35	1.65	0.29	0.48	0.47	0.51	0.62	5
3530	120/240V 12.0 KW 22 HP D	6,326	2.18	2.69	0.41	0.69	0.87	0.74	1.14	7
3535	120/240V 15 KW 27 HP D	6,482	2.46	3.04	0.42	0.71	1.07	0.75	1.40	14
3540	120/240V 30 KW 63 HP D	9,617	4.77	6.00	0.62	1.05	2.49	1.12	3.28	19
3545	120/240V 45 KW 87 HP D	12,716	6.49	8.16	0.82	1.39	3.44	1.47	4.52	25
3550	120/240V 60 KW 102 HP D	14,620	7.54	9.51	0.94	1.59	4.03	1.70	5.30	26
3555	120/240V 75 KW 162 HP D	17,399	10.97	13.93	1.12	1.89	6.40	2.02	8.42	30
3560	120/240V 90 KW 162 HP D	18,232	11.11	14.10	1.17	1.98	6.40	2.12	8.42	30
3565	120/240V 125 KW 210 HP D	21,071	13.96	17.76	1.35	2.29	8.30	2.44	10.92	50
3570	120/240V 150 KW 276 HP D	24,959	17.88	22.79	1.61	2.72	10.91	2.89	14.35	65
	GRADERS, MOTOR									
	CATERPILLAR									
3585	MOD 120-G POWER SHIFT ARTIC 125 HP D	94,872	20.92	25.48	5.74	9.50	4.55	10.54	5.98	275
3590	MOD 130-G POWER SHIFT ARTIC 135 HP D	102,282	22.54	27.47	6.19	10.25	4.91	11.39	6.46	295
3595	MOD 12-G POWER SHIFT ARTIC 135 HP D	110,081	23.79	28.94	6.67	11.03	4.91	12.25	6.46	313
3600	MOD 140-G POWER SHIFT ARTIC 150 HP D	113,240	25.01	30.51	6.84	11.32	5.46	12.57	7.18	316
3605	MOD 14-G POWER SHIFT ARTIC 180 HP D	158,159	33.87	41.26	9.51	15.60	6.55	17.31	8.61	433
3610	MOD 16-G POWER SHIFT ARTIC 250 HP D	228,924	48.67	59.27	13.74	22.48	9.10	24.92	11.96	579

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

UNIT NO.	EQUIPMENT				VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	GRADERS, MOTOR (CONT'D)												
	CHAMPION												
3620	MOD 710A	ARTICULATED	125 HP	D	78,188	18.34	22.47	4.72	7.78	4.55	8.64	5.98	296
3625	MOD 715A	ARTICULATED	152 HP	D	88,673	21.26	26.10	5.35	8.83	5.53	9.80	7.27	300
3630	MOD 720A	ARTICULATED	168 HP	D	94,585	22.99	28.25	5.70	9.40	6.12	10.43	8.04	335
3635	MOD 740A	ARTICULATED	181 HP	D	102,000	24.70	30.33	6.16	10.18	6.59	11.31	8.66	350
3640	MOD 710	NON-ARTICULATED	125 HP	D	73,414	17.60	21.58	4.43	7.29	4.55	8.09	5.98	270
3645	MOD 715	NON-ARTICULATED	152 HP	D	81,152	20.08	24.72	4.90	8.06	5.53	8.95	7.27	279
3650	MOD 720	NON-ARTICULATED	152 HP	D	85,855	20.87	25.65	5.17	8.51	5.53	9.44	7.27	307
3655	MOD 740	NON-ARTICULATED	181 HP	D	94,594	23.60	29.05	5.70	9.40	6.59	10.43	8.66	326
3660	MOD 760	NON-ARTICULATED	230 HP	D	117,718	29.91	36.91	7.05	11.48	8.37	12.72	11.00	384
	FIAT-ALLIS												
3670	MOD-65B	DIRECT DRIVE	68 HP	D	50,473	11.16	13.58	3.07	5.09	2.48	5.65	3.25	133
3675	MOD-100C	CONSTANT MESH	135 HP	D	81,402	19.32	23.67	4.92	8.11	4.91	9.00	6.46	280
3680	MOD-150C	POWER SHIFT	135 HP	D	85,928	20.01	24.50	5.19	8.56	4.91	9.51	6.46	286
3685	MOD-200C	POWER SHIFT	160 HP	D	92,562	22.26	27.32	5.59	9.22	5.82	10.22	7.65	292
	GALION												
3695	MOD 503-L	DIRECT DRIVE	68 HP	G	50,773	14.16	17.43	3.08	5.11	5.31	5.69	6.88	115
3700	MOD T-500C	POWER SHIFT	145 HP	D	94,042	21.72	26.57	5.69	9.41	5.28	10.45	6.94	281
3705	MOD T-600C	POWER SHIFT	186 HP	D	108,900	26.03	31.93	6.58	10.88	6.77	12.07	8.90	321
	HOISTS												
	BEEBE - AIR TUGGERS												
3715	2000P110-24	1.0 T 225 CFM RQD			4,874	1.10		0.32	0.60	0.00			5
3720	5000P120-24	2.5 T 500 CFM RQD			8,821	2.00		0.56	1.08	0.00			16
3725	10000P 60-30	5.0 T 500 CFM RQD			11,075	2.56		0.71	1.35	0.00			22
3730	20000P 50-40	10.0 T 850 CFM RQD			27,621	6.05		1.76	3.36	0.00			55

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	HOISTS (CONT'D)									
	SKAGIT									
3740	BU-18 DOUBLE DRUM W/5/8" CABLE 100 HP D	61,921	17.65		3.94	7.55	3.95			85
3745	G-70 DOUBLE DRUM W/7/8" CABLE 100 HP D	83,667	22.13		5.33	10.20	3.95			126
3750	RB-80 DOUBLE DRUM W/1-1/8" CABLE 130 HP D	128,629	32.87		8.20	15.69	5.14			240
3755	RB-90WDOUBLE DRUM W/1-3/8" CABLE 150 HP D	152,716	38.80		9.73	18.62	5.93			300
	HYDRAULIC EXCAVATOR, CRAWLER MOUNTED T/B = TELESCOPING BOOM B/H = BACKHOE									
	AMERICAN									
3770	MOD 185 1.00 CY B/H 103 HP D	105,820	23.62	29.58	6.52	12.11	3.75	13.85	4.93	410
3775	MOD 25A 1.38 CY B/H 185 HP D	179,769	38.14	46.52	10.50	18.55	6.73	20.59	8.85	660
3780	MOD 480 2.00 CY B/H 300 HP D	265,329	57.47	70.18	15.50	27.38	10.92	30.38	14.35	975
3785	MOD 680 4.00 CY B/H 456 HP D	422,904	83.34	99.32	23.31	38.69	16.60	41.75	21.82	1647
	BADGER (HOPTO)									
3795	MOD 211 1.00 CY B/H 160 HP D	127,450	30.01	37.64	7.86	14.60	5.82	16.68	7.65	516
3800	MOD 311 1.88 CY B/H 235 HP D	185,479	41.25	50.49	10.84	19.14	8.55	21.24	11.24	743
3805	MOD 900B 3.25 CY B/H 308 HP D	223,070	46.86	56.18	12.30	20.41	11.21	22.02	14.73	1009
3810	MOD 1900 4.50 CY B/H 616 HP D	483,521	99.34	118.89	26.64	44.23	22.42	47.74	29.47	2049
	BUCYRUS ERIE									
3820	MOD 300-H 1.00 CY B/H 176 HP D	156,415	35.96	45.06	9.64	17.91	6.41	20.47	8.42	540
3825	MOD 325-H 1.75 CY B/H 205 HP D	214,237	44.80	54.57	12.52	22.11	7.46	24.53	9.81	770
3830	MOD 350-H 2.50 CY B/H 248 HP D	271,465	56.26	68.49	15.86	28.01	9.03	31.09	11.86	1050
3835	MOD 400-H 4.25 CY B/H 392 HP D	444,925	83.91	99.53	24.53	40.71	14.27	43.92	18.75	1560
	CASE									
3845	MOD 880C "E" BOOM .63 CY B/H 125 HP D	80,408	19.97	25.11	4.96	9.21	4.55	10.52	5.98	292
3850	MOD 980B .75 CY B/H 180 HP D	124,188	30.27	38.05	7.65	14.22	6.55	16.26	8.61	420

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	HYDRAULIC EXCAVATOR,CRLR MTD (CONT'D) ********** T/B = TELESCOPING BOOM B/H = BACKHOE									
	CATERPILLAR									
3860	MOD 215 .75 CY B/H 90 HP D	116,179	24.96	31.18	7.16	13.30	3.28	15.21	4.31	387
3865	MOD 225 1.00 CY B/H 125 HP D	144,491	31.60	39.51	8.90	16.54	4.55	18.92	5.98	504
3870	MOD 235 1.43 CY B/H 195 HP D	255,556	51.31	62.31	14.92	26.36	7.10	29.27	9.33	875
3875	MOD 245 2.50 CY B/H 325 HP D	388,374	79.21	96.29	22.69	40.07	11.83	44.47	15.55	1318
	DROTT									
3885	MOD 40-D 1.00 CY B/H 157 HP D	102,064	25.27	31.78	6.29	11.69	5.71	13.36	7.51	400
3890	MOD 50-D 1.25 CY B/H 190 HP D	130,428	30.06	36.91	7.62	13.45	6.92	14.94	9.09	510
	GRADALL									
3900	MOD G-660 .50 CY T/B 115 HP D	133,032	29.09	36.36	8.20	15.23	4.19	17.41	5.50	459
3905	MOD G-880 .75 CY T/B 160 HP D	165,837	36.98	46.27	10.22	18.99	5.82	21.71	7.65	549
3910	MOD G-1000 1.25 CY T/B 272 HP D	222,123	49.00	59.93	12.98	22.92	9.90	25.44	13.01	787
	INSLEY									
3925	MOD H1500C 1.50 CY B/H 240 HP D	203,061	44.42	54.30	11.86	20.95	8.74	23.25	11.48	767
3930	MOD H2500C 2.00 CY B/H 290 HP D	236,793	52.24	63.89	13.83	24.43	10.56	27.11	13.87	955
3935	MOD H3500C 3.00 CY B/H 390 HP D	317,884	64.67	77.32	17.51	29.07	14.20	31.38	18.66	1275
	KOEHRING									
3945	MOD 166 BANTAM .50 CY B/H 108 HP D	82,421	19.60	24.61	5.07	9.43	3.93	10.79	5.17	321
3950	MOD 266 BANTAM .88 CY B/H 143 HP D	132,147	30.14	37.73	8.14	15.13	5.21	17.29	6.84	525
3955	MOD 366 BANTAM 1.50 CY B/H 210 HP D	160,009	35.90	43.98	9.35	16.51	7.64	18.33	10.05	616
3960	MOD 566 2.00 CY B/H 240 HP D	227,250	48.48	59.16	13.27	23.44	8.74	26.02	11.48	865
3965	MOD 666 2.38 CY B/H 307 HP D	283,453	60.80	74.22	16.56	29.25	11.17	32.46	14.69	1090
3970	MOD 866E 3.25 CY B/H 325 HP D	351,849	66.99	79.55	19.39	32.18	11.83	34.73	15.55	1327
3975	MOD 1066E 4.00 CY B/H 380 HP D	440,251	82.68	98.04	24.26	40.27	13.83	43.46	18.18	1640
3980	MOD 1166E 5.00 CY B/H 420 HP D	501,692	93.67	110.98	27.65	45.90	15.29	49.52	20.09	1813

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	HYDRAULIC EXCAVATOR,CRLR MTD (CONT'D) ********** T/B = TELESCOPING BOOM B/H = BACKHOE									
	KOEHRING (CONT'D)									
3985	MOD 1266D 5.50 CY B/H 760 HP D	739,928	143.79	164.18	39.60	63.52	27.66	67.69	36.36	2600
3990	MOD 1466 6.50 CY B/H 832 HP D	889,748	169.39	192.80	47.62	76.38	30.28	81.40	39.80	2900
	UNIT									
4005	MOD H202C SER II .75 CY B/H 152 HP D	116,284	27.64	34.69	7.16	13.31	5.53	15.22	7.27	440
4010	MOD H342 1.25 CY B/H 228 HP D	200,873	43.54	53.18	11.74	20.73	8.30	23.00	10.91	740
4015	MOD H471 1.75 CY B/H 304 HP D	248,403	54.79	67.01	14.51	25.63	11.07	28.44	14.54	1003
	HYDRAULIC EXCAVATOR, TRUCK MOUNTED ********** (HP & FUEL LISTED EQUIP/CARRRIER) T/B = TELESCOPING BOOM B/H = BACKHOE									
	GRADALL									
4025	MOD G-660 .50 CY T/B 115/210 HP D/G	147,558	28.52	34.02	8.34	13.51	7.23	14.61	9.47	450
4030	MOD G-880 .75 CY T/B 160/210 HP D/D	181,639	33.98	40.21	10.22	16.47	7.86	17.82	10.11	530
4035	MOD G-1000 1.25 CY T/B 272/312 HP D/D	238,867	46.21	54.40	12.70	20.17	13.03	21.47	16.81	730
	LAND CLEARING EQUIPMENT ********** (ADD TO TRACTOR)									
4045	FLECO LAND CLEARING RAKE FOR D-6	16,062	3.46	4.35	1.03	1.95	0.00	2.27	0.00	67
4050	FLECO LAND CLEARING RAKE FOR D-7	21,080	4.53	5.70	1.35	2.56	0.00	2.98	0.00	98
4055	FLECO LAND CLEARING RAKE FOR D-8	31,290	6.68	8.42	1.99	3.79	0.00	4.42	0.00	138
4060	FLECO CLAMP RAKE FOR CAT 977 (ADD TO 977 LOADER)	16,122	3.58	4.47	1.03	1.96	0.00	2.28	0.00	58

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LIGHTING SETS, TRAILER MOUNTED **********									
	ALLMAND METALLIC VAPOR									
4070	30' TOWER 4/1000W LTS 5 KW 11 HP D	12,099	3.99		0.77	1.37	0.57			29
	OVER-LOWE METALLIC VAPOR									
4080	38' TOWER 4/1000W LTS 6 KW 12 HP D	10,992	3.75		0.70	1.25	0.62			22
	LOADERS, BELT **********									
	KOLMAN									
4090	101XHD 24"X50' 355 T/HR 28 HP D	27,291	7.58	9.88	1.72	2.85	1.11	3.25	1.46	116
	OPTIONAL EQUIPMENT SELECT AS NEEDED									
4100	PLATE FEEDER DOZER TRAP MODEL 45	5,023	1.03	1.29	0.33	0.56	0.00	0.63	0.00	37
4105	BELT FEEDER DOZER TRAP MODEL 65	7,332	1.50	1.89	0.47	0.81	0.00	0.93	0.00	36
4110	WING WALLS STATIONARY	1,118	0.23	0.30	0.07	0.12	0.00	0.15	0.00	9
4115	TUNNEL EXTENSION W/WING WALLS	5,811	1.19	1.49	0.38	0.64	0.00	0.73	0.00	61
4120	SINGLE DECK SCREEN SB-70 7'X42	5,032	1.04	1.29	0.33	0.56	0.00	0.63	0.00	19
4125	DOUBLE DECK SCREEN DC-70-42 7'X42	5,965	1.21	1.53	0.38	0.65	0.00	0.75	0.00	27
4130	TRIPLE DECK SCREEN TC-70-42 7'X42	7,790	1.59	2.00	0.50	0.85	0.00	0.98	0.00	34
4135	XHD CONVEYOR JACKLEG	879	0.17	0.23	0.05	0.09	0.00	0.11	0.00	9
4140	101XHD 30"X50' 615 T/HR 42 HP D	30,592	9.11	11.89	1.92	3.19	1.66	3.63	2.18	135
	OPTIONAL EQUIPMENT SELECT AS NEEDED									
4150	PLATE FEEDER DOZER TRAP MODEL 45	6,251	1.28	1.61	0.41	0.69	0.00	0.79	0.00	42
4155	BELT FEEDER DOZER TRAP MODEL 65	7,679	1.58	1.97	0.50	0.85	0.00	0.96	0.00	40
4160	WING WALLS STATIONARY	1,118	0.23	0.30	0.07	0.12	0.00	0.15	0.00	9
4165	TUNNEL EXTENSION W/WING WALLS	5,811	1.19	1.49	0.38	0.64	0.00	0.73	0.00	61
4170	SINGLE DECK SCREEN SB-80 8'X48	5,644	1.15	1.45	0.37	0.62	0.00	0.71	0.00	23
4175	DOUBLE DECK SCREEN DC-80-48 8'X48	6,940	1.42	1.79	0.45	0.76	0.00	0.88	0.00	35
4180	TRIPLE DECK SCREEN TC-80-48 8'X48	8,796	1.80	2.26	0.57	0.97	0.00	1.11	0.00	43

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LOADERS, BELT (CONT'D) **********									
	KOLMAN (CONT'D)									
4185	XHD CONVEYOR JACKLEG	879	0.17	0.23	0.05	0.09	0.00	0.11	0.00	9
4190	101XHD 36"X50' 910 T/HR 56 HP D	35,009	10.97	14.36	2.20	3.62	2.21	4.11	2.91	160
	OPTIONAL EQUIPMENT SELECT AS NEEDED									
4200	PLATE FEEDER DOZER TRAP MODEL 45	6,705	1.37	1.72	0.43	0.74	0.00	0.84	0.00	45
4205	BELT FEEDER DOZER TRAP MODEL 65	8,134	1.67	2.10	0.53	0.90	0.00	1.03	0.00	42
4210	WING WALLS STATIONARY	1,118	0.23	0.30	0.07	0.12	0.00	0.15	0.00	9
4215	TUNNEL EXTENSION W/WING WALLS	5,811	1.19	1.49	0.38	0.64	0.00	0.73	0.00	61
4220	SINGLE DECK SCREEN SB-90 9'X54	6,373	1.30	1.65	0.41	0.70	0.00	0.81	0.00	28
4225	DOUBLE DECK SCREEN DC-90-54 9'X54	8,292	1.69	2.13	0.54	0.91	0.00	1.04	0.00	43
4230	TRIPLE DECK SCREEN TC-90-54 9'X54	11,070	2.26	2.84	0.71	1.21	0.00	1.39	0.00	54
4235	XHD CONVEYOR JACKLEG	879	0.17	0.23	0.05	0.09	0.00	0.11	0.00	9
4240	101XHD 42"X50' 1260 T/HR 84 HP D	42,820	14.36	18.90	2.67	4.39	3.32	4.99	4.37	180
	OPTIONAL EQUIPMENT SELECT AS NEEDED									
4250	PLATE FEEDER DOZER TRAP MODEL 45	7,142	1.46	1.84	0.46	0.78	0.00	0.90	0.00	48
4255	BELT FEEDER DOZER TRAP MODEL 65	9,357	1.91	2.41	0.60	1.03	0.00	1.18	0.00	45
4260	WING WALLS STATIONARY	1,118	0.23	0.30	0.07	0.12	0.00	0.15	0.00	9
4265	TUNNEL EXTENSION W/WING WALLS	5,811	1.19	1.49	0.38	0.64	0.00	0.73	0.00	61
4270	SINGLE DECK SCREEN SB-100 60"X10'	7,946	1.62	2.04	0.51	0.87	0.00	1.00	0.00	37
4275	DOUBLE DECK SCREEN DC-100 60"X10'	10,236	2.09	2.63	0.66	1.12	0.00	1.29	0.00	55
4280	TRIPLE DECK SCREEN TC-100 60"X10'	13,818	2.83	3.55	0.89	1.52	0.00	1.74	0.00	68
4285	XHD CONVEYOR JACKLEG	879	0.17	0.23	0.05	0.09	0.00	0.11	0.00	9
4290	101XHD 48"X50' 1700 T/HR 125 HP D	75,281	23.28	30.31	4.75	7.90	4.94	9.00	6.50	265
	OPTIONAL EQUIPMENT SELECT AS NEEDED									
4300	PLATE FEEDER DOZER TRAP MODEL 45	10,403	2.12	2.68	0.67	1.14	0.00	1.31	0.00	51
4305	WING WALLS STATIONARY	1,118	0.23	0.30	0.07	0.12	0.00	0.15	0.00	9
4310	TUNNEL EXTENSION W/WING WALLS	6,491	1.33	1.66	0.42	0.72	0.00	0.81	0.00	66
4315	SINGLE DECK SCREEN SB-120 60"X12'	8,995	1.84	2.31	0.58	0.99	0.00	1.13	0.00	53

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	LOADERS, BELT (CONT'D)									
	KOLMAN (CONT'D)									
4320	DOUBLE DECK SCREEN DC-120 60"X12'	12,421	2.54	3.20	0.80	1.37	0.00	1.57	0.00	77
4325	TRIPLE DECK SCREEN TC-120 60"X12'	16,308	3.33	4.19	1.05	1.79	0.00	2.05	0.00	80
4330	XHD CONVEYOR JACKLEG	879	0.17	0.23	0.05	0.09	0.00	0.11	0.00	9
4335	303 48"X50' 2000 CY/HR 125 HP D	133,542	37.56	49.34	8.37	13.79	4.94	15.69	6.50	627
4340	303 48"X60' 2000 CY/HR 185 HP D	148,570	43.75	57.35	9.33	15.43	7.31	17.57	9.62	662
4345	303 60"X50' 3600 CY/HR 185 HP D	153,515	46.41	61.44	9.58	15.69	7.31	17.82	9.62	682
4350	303 60"X60' 3600 CY/HR 290 HP D	176,873	57.58	76.32	11.04	18.07	11.46	20.53	15.08	737
4355	404 48"X50' 2000 CY/HR 185 HP D	165,044	47.04	61.44	10.39	17.25	7.31	19.66	9.62	616
4360	404 48"X60' 2000 CY/HR 185 HP D	174,409	49.03	63.99	10.99	18.27	7.31	20.81	9.62	650
4365	404 60"X50' 3600 CY/HR 290 HP D	198,215	60.86	79.93	12.45	20.60	11.46	23.45	15.08	671
4370	404 60"X60' 3600 CY/HR 290 HP D	219,073	66.21	87.17	13.75	22.71	11.46	25.84	15.08	724
	OPTIONAL EQUIPMENT SELECT AS NEEDED									
4380	SINGLE DECK SCREEN SB-120 72"X12'	9,953	2.04	2.57	0.64	1.10	0.00	1.26	0.00	58
4385	DOUBLE DECK SCREEN DC-120 72"X12'	13,200	2.70	3.39	0.85	1.45	0.00	1.66	0.00	85
4390	TRIPLE DECK SCREEN TC-120 72"X12'	17,903	3.66	4.60	1.15	1.97	0.00	2.25	0.00	90
4395	SINGLE DECK VIBRATING GRIZZLE 72"W	20,574	4.20	5.29	1.32	2.26	0.00	2.59	0.00	80
	LOADERS, FRONT END, CRAWLER TYPE									
	CASE									
4405	350 B 3/4 CY 39 HP D	33,975	10.73	13.67	2.17	3.98	1.66	4.61	2.19	105
4410	450 B 1 CY 53 HP D	44,909	14.28	18.19	2.88	5.26	2.26	6.09	2.98	138
4415	850B 1-1/2 CY 72 HP D	54,392	17.75	22.63	3.48	6.37	3.07	7.38	4.04	192
4420	1150 C 1-3/4 CY 105 HP D	78,626	25.71	32.79	5.02	9.20	4.48	10.67	5.90	240
4425	1450 B 2-1/4 CY 140 HP D	93,874	31.57	40.27	6.01	11.00	5.97	12.73	7.86	290

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

UNIT NO.	EQUIPMENT				VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LOADERS, F.E., CRAWLER TYPE (CONT'D)												
		CATERPILLAR											
4435	931B	1 CY	65 HP	D	39,672	13.67	17.49	2.53	4.64	2.77	5.39	3.65	150
4440	943	1-1/2 CY	80 HP	D	73,049	22.86	29.09	4.68	8.56	3.41	9.90	4.49	240
4445	953	2 CY	110 HP	D	91,878	29.30	37.33	5.88	10.76	4.69	12.46	6.18	290
4450	955L	2-1/4 CY	130 HP	D	99,834	32.45	41.36	6.38	11.69	5.54	13.54	7.30	348
4455	977L	3-1/4 CY	190 HP	D	153,003	49.13	62.68	9.78	17.92	8.10	20.75	10.67	512
4460	983B	4-1/2 CY	275 HP	D	237,426	75.18	95.73	15.19	27.81	11.73	32.20	15.44	750
		FIAT-ALLIS											
4470	FL9	1-5/8 CY	87 HP	D	60,162	20.07	25.61	3.85	7.05	3.71	8.16	4.89	272
4475	FL10C	2 CY	122 HP	D	76,904	26.28	33.57	4.91	9.00	5.20	10.44	6.85	310
4480	FL14C	2-5/8 CY	150 HP	D	100,953	33.92	43.27	6.46	11.83	6.40	13.70	8.42	410
4485	FL20	3-1/2 CY	223 HP	D	146,029	49.40	63.06	9.34	17.10	9.51	19.81	12.52	605
		INTERNATIONAL											
4495	100-E	1-1/8 CY	65 HP	D	48,967	15.98	20.39	3.13	5.73	2.77	6.64	3.65	161
4500	125-E	1-3/8 CY	78 HP	D	58,029	19.00	24.23	3.71	6.79	3.33	7.87	4.38	199
4505	175-C	2 CY	130 HP	D	92,397	30.60	39.03	5.91	10.82	5.54	12.53	7.30	332
4510	250-C	2-3/4 CY	190 HP	D	130,927	43.70	55.76	8.37	15.33	8.10	17.76	10.67	452
		JOHN DEERE											
4520	JD350-C	3/4 CY	42 HP	D	34,786	11.12	14.17	2.23	4.08	1.79	4.72	2.36	119
4525	JD450-C	1-1/4 CY	65 HP	D	45,399	15.10	19.26	2.91	5.32	2.77	6.15	3.65	165
		KOMATSU											
4535	D31S-16	1.3 CY	63 HP	D	41,056	13.91	17.75	2.63	4.81	2.69	5.57	3.54	156
4540	D53S-16	1.8 CY	110 HP	D	72,186	24.41	31.16	4.62	8.46	4.69	9.79	6.18	300
4545	D57S-1	2.1 CY	135 HP	D	87,821	29.77	37.99	5.62	10.29	5.76	11.91	7.58	337
4550	D75S-3	3.3 CY	200 HP	D	129,809	44.02	56.18	8.30	15.20	8.53	17.60	11.23	503
4555	D155S-1	5.9 CY	350 HP	D	253,438	83.56	106.58	16.21	29.69	14.92	34.38	19.66	950

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LOADERS, FRONT END, WHEEL TYPE ********** (ARTIC = ARTICULATED)									
	BOBCAT									
4565	MOD 310 5 C.F. SKID STEER 16 HP G	6,745	3.17	4.10	0.42	0.76	1.35	0.89	1.76	18
4570	MOD 313 5 C.F. SKID STEER 13 HP D	8,377	2.43	3.11	0.53	0.96	0.51	1.10	0.68	19
4575	MOD 540 6.5 C.F. SKID STEER 23 HP G	9,829	4.55	5.90	0.62	1.11	1.94	1.29	2.53	31
4580	MOD 543 6.5 C.F. SKID STEER 19 HP D	11,753	3.41	4.41	0.74	1.34	0.75	1.55	0.99	33
4585	MOD 610 9 C.F. SKID STEER 30 HP G	11,951	5.71	7.36	0.76	1.37	2.53	1.59	3.30	43
4590	MOD 630 9 C.F. SKID STEER 30 HP G	11,498	5.62	7.26	0.73	1.32	2.53	1.53	3.30	34
4595	MOD 641 10 C.F. SKID STEER 28 HP D	13,756	4.28	5.48	0.88	1.59	1.11	1.84	1.46	39
4600	MOD 642 10 C.F. SKID STEER 32 HP G	12,311	6.02	7.74	0.78	1.42	2.70	1.64	3.52	38
4605	MOD 742 10 C.F. SKID STEER 34 HP G	14,592	6.67	8.57	0.92	1.68	2.87	1.95	3.74	45
4610	MOD 743 10 C.F. SKID STEER 36 HP D	15,832	5.11	6.54	1.01	1.83	1.42	2.11	1.87	46
4615	MOD 825 12.5 C.F. SKID STEER 42 HP D	18,911	6.18	8.01	1.19	2.14	1.66	2.48	2.18	60
4620	MOD 843 13.5 C.F. SKID STEER 54 HP D	20,336	7.12	9.24	1.28	2.31	2.13	2.68	2.81	63
4625	MOD 974 33.8 C.F. SKID STEER 78 HP D	35,971	11.96	15.82	2.24	3.98	3.08	4.59	4.06	121
	CASE									
4635	W-14 1-1/2 CY ARTIC 83 HP D	52,351	15.21	19.62	3.31	5.97	3.28	6.90	4.32	137
4640	W-18 2 CY ARTIC 103 HP D	62,697	18.35	23.59	3.97	7.17	4.07	8.29	5.36	185
4645	W-24 C 2-1/2 CY ARTIC 132 HP D	89,494	25.38	32.63	5.66	10.23	5.22	11.83	6.86	216
4650	W-36 3-1/2 CY ARTIC 185 HP D	119,633	34.80	45.17	7.53	13.54	7.31	15.63	9.62	332
	CATERPILLAR									
4660	910 1-1/4 CY ARTIC 65 HP D	46,743	13.50	17.78	2.92	5.19	2.57	5.99	3.38	143
4665	920 1-3/4 CY ARTIC 80 HP D	62,127	17.06	21.99	3.92	7.07	3.16	8.17	4.16	186
4670	930 2-1/4 CY ARTIC 100 HP D	70,322	19.88	25.73	4.43	7.98	3.95	9.23	5.20	206
4675	950-B 3 CY ARTIC 130 HP D	111,471	30.85	40.70	6.95	12.36	5.14	14.25	6.76	323
4680	966-D 4 CY ARTIC 170 HP D	148,543	41.64	55.66	9.21	16.23	6.72	18.68	8.84	426
4685	980-C 5-1/4 CY ARTIC 260 HP D	198,700	51.60	67.08	11.65	20.39	10.28	22.82	13.52	577

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LOADERS, F.E., WHEEL TYPE (CONT'D)									
	CATERPILLAR (CONT'D)									
4690	988-B 7 CY ARTIC 375 HP D	294,071	74.84	97.49	17.07	29.49	14.82	32.98	19.50	892
4695	992-C 13 CY ARTIC 690 HP D	608,119	152.28	200.46	35.09	60.15	27.27	67.18	35.88	1916
	CLARK									
4705	35C 1-1/4 CY 82 HP D	52,945	15.65	20.50	3.32	5.92	3.24	6.83	4.26	171
4710	45C 1-1/2 CY 107 HP D	62,558	18.64	24.06	3.95	7.12	4.23	8.23	5.56	187
4715	55C 2 CY ARTIC 121 HP D	70,830	21.14	27.37	4.46	8.04	4.78	9.29	6.29	247
4720	75C 2-1/2 CY ARTIC 154 HP D	107,575	30.90	40.34	6.75	12.08	6.09	13.94	8.01	296
4725	125C 3-1/2 CY ARTIC 210 HP D	145,080	42.32	55.75	9.06	16.12	8.30	18.58	10.92	419
4730	175C 4-1/2 CY ARTIC 273 HP D	192,159	51.14	66.63	11.26	19.68	10.79	22.03	14.20	565
4735	275C 6-1/2 CY ARTIC 360 HP D	265,266	67.58	86.88	15.51	27.06	14.23	30.30	18.72	799
4740	475C 10 CY ARTIC 612 HP D	511,608	128.02	166.61	29.71	51.35	24.19	57.43	31.82	1544
	FIAT-ALLIS									
4750	345-B 1-1/2 CY ARTIC 80 HP D	46,876	14.01	18.14	2.96	5.32	3.16	6.14	4.16	151
4755	545-B 2 CY ARTIC 102 HP D	59,054	17.59	22.65	3.74	6.75	4.03	7.80	5.30	176
4760	605-B 2-1/2 CY ARTIC 108 HP D	67,109	19.72	25.55	4.23	7.61	4.27	8.79	5.62	200
4765	645-B 3 CY ARTIC 151 HP D	89,452	27.22	35.81	5.59	9.95	5.97	11.49	7.85	246
4770	FR-20 4 CY ARTIC 215 HP D	141,196	41.84	55.19	8.81	15.66	8.50	18.06	11.18	445
4775	945-B 6 CY ARTIC 335 HP D	233,996	60.93	78.82	13.64	23.69	13.24	26.50	17.42	700
	INTERNATIONAL									
4785	510B 1-3/8 CY 80 HP D	43,652	13.61	17.91	2.73	4.86	3.16	5.60	4.16	140
4790	515B 1-5/8 CY 100 HP D	53,481	16.79	22.07	3.34	5.96	3.95	6.87	5.20	167
4795	520B 2-1/4 CY ARTIC 120 HP D	63,011	19.62	25.53	3.96	7.11	4.74	8.21	6.24	232
4800	530 2-3/4 CY ARTIC 155 HP D	94,777	28.99	38.55	5.89	10.40	6.13	11.99	8.06	291
4805	540 3-3/4 CY ARTIC 189 HP D	131,885	38.47	50.78	8.23	14.61	7.47	16.84	9.83	360
4810	550 5-1/4 CY ARTIC 280 HP D	188,301	50.83	66.32	11.03	19.26	11.07	21.57	14.56	544

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LOADERS, F.E., WHEEL TYPE (CONT'D)									
	INTERNATIONAL (CONT'D)									
4815	560B 7-1/2 CY ARTIC 415 HP D	270,653	71.33	91.68	15.84	27.65	16.40	30.95	21.58	825
4820	570 12 CY ARTIC 590 HP D	556,949	135.20	175.59	32.38	56.03	23.32	62.65	30.68	1327
	TEREX (GM)									
4830	72-31B 3 CY ARTIC 160 HP D	95,465	29.39	39.08	5.93	10.48	6.32	12.08	8.32	309
4835	72-51B 4 CY ARTIC 231 HP D	144,735	40.51	53.47	8.43	14.63	9.13	16.38	12.01	465
4840	72-61 5-1/2 CY ARTIC 307 HP D	190,168	52.53	68.52	11.14	19.46	12.13	21.79	15.96	605
4845	72-71B 7-1/2 CY ARTIC 388 HP D	275,038	70.69	90.75	16.10	28.12	15.33	31.48	20.18	857
4850	72-81 9 CY ARTIC 434 HP D	383,512	93.89	121.27	22.36	38.85	17.15	43.47	22.57	1166
	TROJAN									
4860	1500 1-3/4 CY ARTIC 85 HP D	58,069	16.55	21.39	3.66	6.59	3.36	7.62	4.42	180
4865	1900 2-1/4 CY ARTIC 117 HP G	66,749	26.71	34.60	4.21	7.57	9.88	8.74	12.88	212
4870	2000 3 CY ARTIC 144 HP D	95,932	28.60	38.03	5.96	10.53	5.69	12.14	7.49	306
4875	2500 4 CY ARTIC 182 HP D	120,194	35.49	46.76	7.51	13.35	7.19	15.39	9.46	393
4880	3000 4-1/4 CY ARTIC 215 HP D	129,032	40.34	54.28	7.95	13.93	8.50	16.04	11.18	436
4885	5500 5-1/2 CY ARTIC 285 HP D	189,960	51.37	66.99	11.12	19.44	11.26	21.76	14.82	636
4890	7500 7 CY ARTIC 400 HP D	254,181	67.73	87.32	14.85	25.87	15.81	28.95	20.80	846
	LOADER/BACKHOE, WHEEL TYPE TRACTOR									
	CASE									
4900	580D LDR/BHOE 1.0 CY FE BUCKET 24" B/H DIPPER 55 HP D	39,341	10.77	13.52	2.50	4.37	2.17	5.03	2.86	115
4905	680H LDR/BHOE 1-1/4 CY FE BUCKET 30" B/H DIPPER 80 HP D	57,361	15.76	19.75	3.65	6.36	3.16	7.31	4.16	165
	JOHN DEERE									
4915	410 LDR/BHOE 1 CY FE BUCKET 24" B/H DIPPER 62 HP D	38,195	11.01	13.85	2.43	4.21	2.45	4.83	3.22	137
4920	510 LDR/BHOE 1-1/2 CY FE BUCKET 24" B/H DIPPER 80 HP D	58,617	16.10	20.20	3.72	6.46	3.16	7.41	4.16	205

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	LOADER/BACKHOE, CRLR TYPE TRACTOR									
	CASE									
4930	350B LDR/BHOE 3/4 CY FE BUCKET 39 HP D 24" B/H DIPPER	43,185	13.02	16.56	2.77	5.06	1.66	5.86	2.19	141
4935	450B LDR/BHOE 1 CY FE BUCKET 53 HP D 24" B/H DIP	58,640	17.69	22.50	3.75	6.87	2.26	7.96	2.98	167
	CATERPILLAR									
4945	931BLDR/BHOE 1 CY FE BUCKET 65 HP D 30" B/H DIPPER	53,659	17.15	21.86	3.43	6.28	2.77	7.28	3.65	207
	LOADER/BACKHOE ATTACHMENTS									
	HYDRAULICALLY OPERATED IMPACTOR MOUNTED ON BACKHOE BOOM TO FIT CASE AND JOHN DEERE BACKHOES (ADD TO BASIC LOADER-BACKHOE)									
4955	IMPACTOR WITH TAMPER TOOL	11,888	3.81		0.91	1.82	0.00			12
4960	IMPACTOR WITH CHISEL TOOL	11,213	3.60		0.86	1.71	0.00			11
	PILE EXTRACTORS									
	MKT CORPORATION									
4970	E2 700 FT-LBS 400CFM A	12,642	4.13		0.96	1.92	0.00			27
4975	E4 1000 FT-LBS 550CFM A	19,028	6.20		1.45	2.90	0.00			47
	VULCAN									
4985	400A 500 FT-LBS 450CFM A	14,926	4.86		1.14	2.27	0.00			30
4990	800A 1000 FT-LBS 900CFM A	20,134	6.68		1.54	3.07	0.00			57
4995	1200A 1640 FT-LBS 1350CFM A	23,551	8.00		1.80	3.59	0.00			97

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	PILE HAMMERS, DIESEL (FUEL NOT INCLUDED)									
	MKT CORPORATION									
5005	DE-30B/20B (6-FT) 12,000 FT-LBS	32,719	10.20		2.50	4.99	0.00			74
5010	DE-30B/20B (6-FT) 16,800 FT-LBS	33,939	10.58		2.59	5.17	0.00			82
5015	DE-70B/50B (6-FT) 30,000 FT-LBS	58,508	18.20		4.47	8.92	0.00			138
5020	DE-70B/50B (6-FT) 42,000 FT-LBS	62,135	19.32		4.74	9.47	0.00			158
	PILE HAMMERS, SINGLE ACTING									
	VULCAN									
5030	1 15000 FT-LBS 750CFM A	32,465	10.44		2.48	4.95	0.00			101
5035	06 19500 FT-LBS 900CFM A	37,162	11.95		2.83	5.66	0.00			121
5040	08 26000 FT-LBS 1100CFM A	42,655	13.75		3.25	6.50	0.00			175
5045	010 32500 FT-LBS 1350CFM A	46,720	15.13		3.57	7.12	0.00			195
5050	012 39000 FT-LBS 1500CFM A	52,231	16.76		3.99	7.96	0.00			287
5055	014 42000 FT-LBS 1750CFM A	62,547	20.23		4.78	9.54	0.00			283
5060	016 48750 FT-LBS 1750CFM A	74,326	23.88		5.68	11.33	0.00			320
5065	020 60000 FT-LBS 2150CFM A	87,431	28.11		6.67	13.32	0.00			425
5070	030 90000 FT-LBS 2350CFM A	146,943	46.66		11.21	22.39	0.00			575
	PILE HAMMERS, DOUBLE ACTING									
	MKT CORPORATION									
5080	9-B-3 8750 FT-LBS 900CFM A	23,871	7.84		1.83	3.64	0.00			74
5085	10-B-3 13100 FT-LBS 1200CFM A	28,231	9.34		2.16	4.31	0.00			114
5090	11-B-3 19150 FT-LBS 1200CFM A	38,447	12.50		2.94	5.86	0.00			141
5095	5 (SELF STOP) 1000 FT-LBS 375CFM A	9,950	3.31		0.76	1.52	0.00			17
5100	6 (SELF STOP) 2500 FT-LBS 600CFM A	12,458	4.15		0.95	1.89	0.00			31
5105	7 (SELF STOP) 4150 FT-LBS 750CFM A	16,010	5.34		1.23	2.44	0.00			50

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	PILE HAMMERS, DOUBLE ACTING (CONT'D)									
	VULCAN									
5115	50C 15100 FT-LBS 1250CFM A	41,219	13.37		3.15	6.28	0.00			153
5120	65C 19200 FT-LBS 1450CFM A	47,282	15.36		3.61	7.21	0.00			153
5125	80C 24450 FT-LBS 1750CFM A	50,698	16.56		3.87	7.73	0.00			184
5130	100C 32900 FT-LBS 2050CFM A	61,012	19.89		4.66	9.30	0.00			232
5135	140C 36000 FT-LBS 2150CFM A	76,883	24.85		5.87	11.72	0.00			287
5140	200C 50200 FT-LBS 2550CFM A	111,155	35.66		8.48	16.94	0.00			398
	PILE HAMMERS, VIBRATORY									
	MKT CORPORATION									
5150	V5 WITH POWER PACK 59 HP D	57,921	20.93		4.42	8.83	2.33			110
5155	V16 WITH POWER PACK 156 HP D	113,172	42.98		8.63	17.25	6.17			215
5160	V20 WITH POWER PACK 295 HP D	154,425	62.79		11.79	23.54	11.66			257
	PIPELAYER									
	CATERPILLAR									
5170	561D 15 FT BOOM, 40,000 LB CAP 105 HP D	106,412	21.12	25.81	6.49	10.82	2.29	12.02	2.95	357
5175	571G 18 FT BOOM, 60,000 LB CAP 200 HP D	169,948	34.67	42.43	10.37	17.28	4.37	19.20	5.62	500
5180	572G 18 FT BOOM, 90,000 LB CAP 200 HP D	194,549	38.85	47.50	11.86	19.77	4.37	21.98	5.62	605
5185	583K 20 FT BOOM, 140,000 LB CAP 300 HP D	245,097	50.32	61.61	14.94	24.91	6.55	27.69	8.42	900
5190	594H 24 FT BOOM, 200,000 LB CAP 410 HP D	342,226	70.02	85.68	20.87	34.79	8.95	38.66	11.51	1229
	PUMPS, GROUT									
	CHEMGROUT									
5200	CG-500 VERSATILE AIR OPERATED GROUT PLANT-100 PSI, 230 CFM	11,113	3.03		0.77	1.58	0.00			11
5205	CG-550 AIR OPERATED MINI GROUT PLANT-100 PSI, 150 CFM	4,101	1.16		0.29	0.59	0.00			5
5210	CG-600 AIR OPERATED COLLOIDAL MIXER AND PUMP-100 PSI, 450 CFM	16,393	4.55		1.14	2.33	0.00			18

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	PUMPS, GROUT (CONT'D)									
	CHEMGROUT (CONT'D)									
5215	CG-620 COLLOIDAL ADD-ON TO CG-500	7,071	1.90		0.49	1.01	0.00			11
	PUMPS, WATER (FOR CORE DRILLS)									
	LONGYEAR									
5225	520 RQG 5.7-20 GPM UP TO 600PSI 10 HP G	5,994	2.77		0.39	0.74	1.16			7
5230	535 RQG 9.9-35 GPM UP TO 800PSI 15 HP G	7,568	3.88		0.49	0.93	1.75			10
	PUMPS, WATER,CENTRIFUGAL,DEWATERING									
	HOMELITE - SKID MOUNTED									
5240	MOD 110S 1-1/2"-5000 GPH @ 30' H 2 HP G	396	0.38		0.03	0.05	0.23			1
5245	MOD 111S 2" - 9000 GPH @ 22' H 3 HP G	503	0.56		0.03	0.06	0.35			1
5250	MOD 120S 3" - 18000 GPH @ 20' H 8 HP G	910	1.42		0.06	0.11	0.93			2
	MARLOW - WHEEL MOUNTED									
5260	MOD 4D2 465 GPM @ 20 ' HEAD 43 HP G	7,917	8.24		0.50	0.96	5.01			14
5265	MOD 4C7 595 GPM @ 20 ' HEAD 30 HP D	4,545	3.21		0.29	0.55	1.65			10
5270	MOD 6E4A 1100 GPM @ 20 ' HEAD 79 HP G	10,507	14.31		0.68	1.29	9.20			15
5275	MOD 6E4A 1100 GPM @ 20 ' HEAD 60 HP D	15,119	7.68		0.96	1.84	3.31			24
5280	MOD 8FA3 2320 GPM @ 20 ' HEAD 70 HP D	19,482	9.34		1.24	2.37	3.86			23
5285	MOD 10FA61 2775 GPM @ 20 ' HEAD 68 HP D	20,667	9.43		1.32	2.52	3.75			30
	PUMPS, WATER, CENTRIFUGAL, TRASH									
	HOMELITE - SKID MOUNTED									
5295	MOD 121TP 2" - 11500 GPH @ 20' H 5 HP G	800	0.94		0.06	0.10	0.58			1
5300	MOD 120 3" - 23000 GPH @ 20' H 8 HP G	1,112	1.46		0.07	0.14	0.93			2
5305	MOD 160TP 4" - 36500 GPH @ 20' H 16 HP G	2,229	2.92		0.14	0.27	1.86			4

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	PUMPS, WATER,DIAPHRAGM									
	HOMELITE - SKID MOUNTED									
5315	MOD 111DP 2" - 1900 GPH @ 10' HD 3 HP G	961	0.65		0.06	0.11	0.35			1
5320	MOD 111DP 3" - 4800 GPH @ 10' HD 3 HP G	1,112	0.69		0.07	0.14	0.35			2
	PUMPS, WATER, SUBMERSIBLE									
	HOMELITE									
5330	MOD SP200 2" - 13000 GPH @ 10' HD 2 HP E	1,223	0.35		0.07	0.14	0.11			1
5335	MOD SP300 3" - 19000 GPH @ 15' HD 4 HP E	1,510	0.57		0.10	0.19	0.22			1
	RIPPER & HYDRAULIC BANK SLOPER (DOES NOT INCLUDE COST OF POINT WEAR)									
	ATECO									
5345	VRAR-1 D9H RADIAL LIFT	36,616	9.25	12.48	2.54	5.17	0.00	6.40	0.00	136
5350	D-9H SHANKS EA	2,859	0.71	0.97	0.20	0.40	0.00	0.50	0.00	15
5355	LPAS-D8K PARALLEL LIFT	21,228	5.39	7.25	1.47	3.00	0.00	3.70	0.00	87
5360	D-8K SHANKS EA	2,056	0.52	0.70	0.14	0.29	0.00	0.36	0.00	11
5365	LPAS-D7G PARALLEL LIFT	17,712	4.51	6.07	1.23	2.50	0.00	3.09	0.00	45
5370	D-7G SHANKS EA	1,258	0.32	0.43	0.09	0.18	0.00	0.22	0.00	5
5375	PS D6D RADIAL LIFT	8,071	2.09	2.80	0.56	1.14	0.00	1.41	0.00	24
5380	D-6C SHANKS EA	280	0.07	0.10	0.02	0.04	0.00	0.05	0.00	1
5385	V-LPRF-TD25C PARALLEL LIFT STD SVC	18,225	4.64	6.24	1.27	2.58	0.00	3.18	0.00	89
5390	TD-25C SHANKS EA	1,646	0.41	0.56	0.11	0.23	0.00	0.29	0.00	8
5395	V-LPRF-TD20E PARALLEL LIFT STD SVC	13,362	3.42	4.60	0.93	1.89	0.00	2.34	0.00	51
5400	TD-20E SHANKS EA	1,204	0.30	0.41	0.08	0.17	0.00	0.21	0.00	4
5405	PS-TD15C RADIAL LIFT	7,533	1.95	2.62	0.52	1.06	0.00	1.31	0.00	22
5410	TD-15C SHANKS EA	260	0.06	0.08	0.02	0.03	0.00	0.04	0.00	1
5415	V-LPRF 82-50 PARALLEL LIFT STD SVC	20,579	5.22	7.04	1.42	2.90	0.00	3.59	0.00	96
5420	82-50 SHANKS EA	1,646	0.41	0.56	0.11	0.23	0.00	0.29	0.00	8

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	RIPPER & HYDR BANK SLOPER (CONT'D) ********** (DOES NOT INCLUDE COST OF POINT WEAR)									
	ATECO (CONT'D)									
5425	LPRS-82-50 PARALLEL LIFT EXT SVC	20,015	5.09	6.86	1.39	2.83	0.00	3.50	0.00	88
5430	82-50 SHANKS EA	3,817	0.96	1.30	0.26	0.54	0.00	0.67	0.00	19
5435	V-LPRF-82-30 PARALLEL LIFT	18,225	4.64	6.24	1.27	2.58	0.00	3.18	0.00	89
5440	82-30 SHANKS EA	1,646	0.41	0.56	0.11	0.23	0.00	0.29	0.00	8
5445	D9,D8;82-30,82-50;TD25 HYDR BANK SLOP	7,834	1.71	2.14	0.50	0.95	0.00	1.11	0.00	28
	CATERPILLAR									
5455	D-10 MULTI-SHANK BEAM	44,305	11.18	15.08	3.07	6.26	0.00	7.74	0.00	179
5460	D-10 SHANKS EA	3,242	0.81	1.09	0.23	0.46	0.00	0.56	0.00	15
5465	D-10 SINGLE-SHANK BEAM	47,254	11.92	16.08	3.28	6.68	0.00	8.25	0.00	177
5470	D-9L MULTI-SHANK BEAM W/HYD-CONTROL	37,747	9.53	12.87	2.62	5.33	0.00	6.60	0.00	162
5475	D-9L SHANKS EA	2,916	0.73	0.99	0.20	0.41	0.00	0.51	0.00	14
5480	D-9L SINGLE-SHANK BEAM HYD-CNTL&SHANK	35,143	8.89	11.98	2.44	4.97	0.00	6.14	0.00	160
5485	D-8K MULTI-SHANK BEAM HYD-CONTROL	24,478	6.21	8.37	1.70	3.46	0.00	4.28	0.00	103
5490	D-8K SHANKS EA	1,640	0.41	0.56	0.11	0.23	0.00	0.29	0.00	7
5495	D-8K SINGLE-SHANK BEAM HYD-CNTL&SHANK	23,765	6.03	8.12	1.65	3.36	0.00	4.15	0.00	100
5500	D-7G MULTI-SHANK BEAM HYD-CONTROL	14,236	3.65	4.90	0.99	2.02	0.00	2.49	0.00	57
5505	D-7G SHANKS EA	851	0.21	0.29	0.06	0.12	0.00	0.15	0.00	3
5510	D-6D MULTI-SHANK BEAM HYD-CONTROL	8,914	2.30	3.09	0.61	1.25	0.00	1.56	0.00	34
5515	D-6D SHANKS EA	434	0.11	0.15	0.03	0.06	0.00	0.08	0.00	1
5520	D-4E MULTI-SHANK BEAM HYD-CONTROL	5,500	1.45	1.93	0.38	0.78	0.00	0.96	0.00	20
5525	D-4E SHANKS EA	232	0.06	0.08	0.02	0.03	0.00	0.04	0.00	1
5530	D-3B FIVE-SHANK BEAM HYD-CONTROL	2,444	0.68	0.89	0.17	0.34	0.00	0.42	0.00	7
5535	D-3B SHANKS EA	128	0.03	0.05	0.01	0.02	0.00	0.03	0.00	1

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	RIPPER & HYDR BANK SLOPER (CONT'D)									
	(DOES NOT INCLUDE COST OF POINT WEAR)									
	FIAT-ALLIS									
5545	41-R W/HYD-CNTL AND 2 SHANKS	49,940	12.58	16.98	3.47	7.06	0.00	8.73	0.00	195
5550	31-R W/HYD-CNTL AND 2 SHANKS	40,449	10.20	13.75	2.81	5.72	0.00	7.06	0.00	189
5555	30-R W/HYD-CNTL AND 2 SHANKS	26,286	6.64	8.96	1.82	3.71	0.00	4.59	0.00	108
5560	RP20B W/HYD-CNTL AND 3 SHANKS	24,869	6.28	8.48	1.73	3.51	0.00	4.35	0.00	88
	ROLLER, RUBBER TIRED, SELF-PROPELLED									
	FERGUSON									
5570	MOD SP-912 12 TON 85 HP D	30,744	10.45		1.95	3.55	3.36			82
5575	MOD SP-915 15 TON 85 HP D	32,716	10.85		2.07	3.79	3.36			105
5580	MOD SP-1118 18 TON 85 HP D	43,346	13.01		2.74	5.02	3.36			111
5585	MOD SP-1130 31 TON 125 HP D	72,406	21.45		4.47	7.93	4.94			228
	INGRAM									
5595	9-2800-P 12 TON 76 HP D	27,798	9.40		1.75	3.20	3.00			73
5600	9-2800-PA 12 TON 76 HP D	29,882	9.82		1.89	3.45	3.00			86
5605	9-3400-P 15 TON 78 HP D	30,564	10.06		1.93	3.53	3.08			97
5610	11-2700 15 TON 107 HP G	29,465	17.25		1.86	3.38	9.04			89
5615	11-2700 15 TON 76 HP D	32,824	10.44		2.07	3.78	3.00			91
5620	13-2300 15 TON 107 HP G	30,815	17.54		1.94	3.52	9.04			86
5625	13-2300 15 TON 76 HP D	34,184	10.74		2.16	3.93	3.00			90
5630	9-6000 27 TON 117 HP D	74,786	21.09		4.70	8.53	4.62			205
	TAMPO									
5640	SP-312 12 TON 68 HP D	30,954	9.65		1.96	3.58	2.69			66
5645	SP-518 15 TON 68 HP D	38,343	11.31		2.40	4.30	2.69			95
5650	SP-950 27 TON 130 HP D	78,139	22.41		4.92	8.95	5.14			198
5655	SP-1070 M 35 TON 130 HP D	95,265	26.01		5.98	10.85	5.14			258

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	ROLLER, RUBBER TIRED, TOWED **********									
	FERGUSON									
5665	RT-100S 50 TON	50,403	9.97		2.84	4.44	0.00			200
5670	RT-120S 60 TON	58,718	12.56		3.42	5.60	0.00			218
	SOUTHWEST									
5680	C 75 75 TON	64,313	12.73		3.59	5.52	0.00			363
5685	C 50 50 TON	57,149	11.38		3.29	5.31	0.00			309
5690	C 100 100 TON	90,333	17.96		5.25	8.59	0.00			551
	TAMPO									
5700	R-13 14 TON	7,827	1.69		0.47	0.81	0.00			35
	ROLLER, SHEEPSFOOT,DOUBLE DRUM,TOWED **********									
	FERGUSON									
5710	MOD 112 40"X48" 3-7 TON	10,802	2.28		0.69	1.27	0.00			65
5715	MOD 112W 40"X48" 4.5-8 TON	13,720	2.87		0.88	1.62	0.00			91
5720	MOD 112W-48 48"X48" 5-10 TON	14,120	2.95		0.91	1.67	0.00			105
5725	MOD 120 60"X60" 8-18 TON	21,143	4.37		1.35	2.50	0.00			157
5730	MOD 120 MOD 60"X60" 8-18 TON	32,361	6.62		2.07	3.82	0.00			230
5735	MOD 120-RE 60"X60" 11-22.5TON	49,147	10.00		3.14	5.81	0.00			327
5740	MOD 22 60"X72" 16-20 TON	32,063	6.57		2.05	3.79	0.00			215
5745	MOD 22 MOD 60"X72" 16-20 TON	37,310	7.62		2.39	4.41	0.00			269
5750	MOD 144-RE 60"X72" 19-24 TON	57,850	11.75		3.70	6.84	0.00			385
	TAMPO									
5760	H-1 TF 40"X48" 2.6TON	4,779	1.09		0.31	0.57	0.00			32
5765	H-2 TF 40"X48" 5 TON	9,668	2.06		0.62	1.14	0.00			63

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	ROLLER, SHEEPSFOOT,DD,SELF-PROPELLED **********									
	CATERPILLAR									
5775	815 B 40.5"X38" 170 HP D	135,792	35.66		8.68	16.05	6.72			418
5780	825C 51"X41.5" 310 HP D	207,928	57.03		13.28	24.57	12.25			633
5785	825C W/S BLADE 310 HP D	218,886	59.24		13.98	25.87	12.25			684
	HYSTER									
5795	C455-B TANDEM 80"X80" ARTIC 330 HP D	228,783	62.21		14.62	27.04	13.04			573
	ROLLER, SMOOTH WHEEL,SELF-PROPELLED **********									
	FERGUSON									
5805	3-5 TON TANDEM 39 HP D	21,968	6.33		1.41	2.60	1.54			73
5810	4-6 TON TANDEM 39 HP D	26,601	7.27		1.70	3.15	1.54			92
5815	5-8 TON TANDEM 85 HP D	36,666	11.55		2.34	4.33	3.36			121
5820	8-10 TON TANDEM 85 HP D	39,341	12.09		2.51	4.65	3.36			162
5825	8-12 TON TANDEM 85 HP D	42,533	12.73		2.72	5.03	3.36			164
5830	10-14 TON TANDEM 85 HP D	46,481	13.52		2.97	5.49	3.36			206
	INGRAM									
5840	12 TON EB 3 WHEEL 3" OVERLAP 107 HP G	47,116	20.69		3.01	5.57	9.04			194
5845	12 TON EB 3 WHEEL 3" OVERLAP 85 HP D	50,476	14.32		3.22	5.96	3.36			196
5850	14 TON EB 3 WHEEL 3" OVERLAP 107 HP G	49,943	21.27		3.20	5.91	9.04			221
5855	14 TON EB 3 WHEEL 3" OVERLAP 85 HP D	53,303	14.90		3.41	6.30	3.36			223
5860	4-6 TON FB 2 WHEEL TANDEM 54 HP G	22,219	10.13		1.42	2.63	4.56			82
5865	6-9 TON GB 2 WHEEL TANDEM 107 HP G	31,464	17.54		2.01	3.72	9.04			133
5870	6-9 TON GB 2 WHEEL TANDEM 76 HP D	34,824	10.72		2.22	4.11	3.00			135
5875	8-12 TON HB 2 WHEEL TANDEM 107 HP G	38,127	18.89		2.44	4.51	9.04			171
5880	8-12 TON HB 2 WHEEL TANDEM 76 HP D	41,487	12.07		2.65	4.90	3.00			173
5885	10-14 TON HB 2 WHEEL TANDEM 107 HP G	41,332	19.52		2.64	4.88	9.04			258
5890	10-14 TON HB 2 WHEEL TANDEM 76 HP D	44,696	12.72		2.86	5.29	3.00			262

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	ROLLER, VIBRATORY,SINGLE DRUM,TOWED ********** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	DYNAPAC									
5900	CK-11 40HZ 30"X55" 5 TON 18 HP G	11,467	5.66		0.79	1.57	2.10			31
5905	CF-11 40HZ TF 30"X55" 5 TON 18 HP G	14,053	6.34		0.97	1.92	2.10			32
5910	CH-47 27HZ 47"X74" 13 TON 43 HP D	28,459	10.54		1.98	3.91	2.37			130
5915	CF-47 27HZ TF 47"X74" 13 TON 43 HP D	30,900	11.19		2.14	4.24	2.37			135
5920	CK-51 25HZ 59"X83" 24 TON 95 HP D	43,925	18.22		3.04	6.02	5.24			221
5925	CF-51 25HZ TF 59"X83" 24 TON 95 HP D	46,053	18.80		3.19	6.32	5.24			216
	FERGUSON									
5935	65 25HZ TF 60"X72" 11 TON 49 HP D	32,906	12.13		2.28	4.51	2.70			110
5940	652 30HZ TF 44"X72" 11 TON 49 HP D	35,759	12.90		2.48	4.91	2.70			127
5945	230 25HZ 66"X78" 20 TON 77 HP D	53,262	19.47		3.69	7.30	4.24			234
5950	230T 25HZ TF 55"X78" 21 TON 77 HP D	58,160	20.78		4.03	7.97	4.24			268
	HYSTER									
5960	C200B 30HZ 48"X60" 9 TON 36 HP D	27,925	9.91		1.93	3.83	1.98			80
5965	C210A 30HZ TF 58"X60" 9 TON 39 HP D	33,270	11.55		2.30	4.56	2.15			100
	RAYGO									
5975	SF-54A TF 38HZ 30"X54" 7.5TON 30 HP D	16,981	6.58		1.18	2.33	1.65			48
5980	SM-54A 38HZ 30"X54" 7.5TON 30 HP D	15,392	6.16		1.07	2.11	1.65			48
	SOUTHWEST									
5990	756 25HZ TF 66"X78"23.5TON 75 HP D	66,931	22.99		4.64	9.18	4.13			240
5995	566 33HZ TF 56"X72"25.5TON 50 HP D	51,059	17.05		3.54	7.00	2.76			165

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	ROLLER, VIBRATORY,SD,TOWED (CONT'D)									
	TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	TAMPO									
6005	VC-80 27HZ 48"X60" 7.5TON 36 HP D	20,666	7.97		1.43	2.83	1.98			71
6010	VS-125 25HZ TF 48"X72" 11 TON 60 HP D	41,130	15.08		2.85	5.64	3.31			145
6015	VC-400 23HZ 60"X84"21.5TON 90 HP D	55,580	20.98		3.85	7.62	4.96			227
	ROLLER,VIB,SINGLE DRUM,SELF-PROPELLED									
	TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	DYNAPAC									
6025	CA-15 29HZ 48"X66" 11 TON 73 HP D	50,704	18.56		3.49	6.89	4.02			126
6030	CA-15A 42HZ 48"X66" 12 TON 73 HP D	56,686	20.18		3.90	7.66	4.02			137
6035	CA-15PD 29HZ TF 53"X66" 13 TON 73 HP D	63,690	22.04		4.39	8.64	4.02			151
6040	CA-25A 40HZ 60"X84" 18 TON 125 HP D	76,073	28.99		5.22	10.21	6.89			213
6045	CA-25 28HZ 60"X84" 18 TON 125 HP D	60,658	24.87		4.14	8.07	6.89			193
6050	CA-25S 28HZ 61"X84" 22 TON 125 HP D	64,164	25.80		4.38	8.55	6.89			216
6055	CA-25PD 28HZ 68"X84" 22 TON 125 HP D	73,535	28.31		5.03	9.84	6.89			240
6060	CA-30 28HZ 61"X84" 22 TON 125 HP D	67,465	26.68		4.61	9.00	6.89			235
6065	CA-30D 28HZ 61"X84" 22 TON 125 HP D	83,991	31.08		5.75	11.26	6.89			245
	FERGUSON									
6075	SP 266 42HZ 48"X66" 15 TON 125 HP D	67,120	26.45		4.65	9.20	6.89			213
6080	SP 75BA 30HZ 60"X84" 18 TON 85 HP D	60,346	22.05		4.12	8.04	4.69			197
6085	SP 75D 30HZ 60"X84" 22.5 TON 120 HP D	66,053	25.97		4.51	8.81	6.61			193
6090	SP 75DT 30HZ TF 60"X84" 22.5 TON 120 HP D	75,395	28.46		5.16	10.09	6.61			237

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	ROLLER, VIBRATORY,SD,S/P (CONT'D)									
	TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	INGERSOLL RAND									
6100	SPF-56 30HZ TF 56"X84" 21 TON 115 HP D	75,676	28.20		5.18	10.13	6.34			222
6105	SP-60DD 25HZ 60"X100" 30 TON 210 HP D	119,946	46.54		8.23	16.14	11.58			450
	RAYGO									
6115	RASCAL 220A 30HZ TF38"X48" 6 TON 70 HP D	49,936	18.15		3.45	6.80	3.86			97
6120	RASCAL 303A 38HZ 48"X66" 8 TON 70 HP D	50,534	18.34		3.48	6.84	3.86			137
6125	RASCAL 320A 25HZ TF48"X60" 8 TON 80 HP D	68,309	23.73		4.71	9.31	4.41			151
6130	RASCAL 320S 25HZ 48"X60" 8 TON 80 HP D	58,248	21.07		4.01	7.89	4.41			144
6135	RUSTLER 304A 28HZ 48"X66" 8 TON 70 HP D	54,762	19.45		3.77	7.42	3.86			130
6140	RASCAL 400A 25HZ 59"X84"13.5TON 88 HP D	63,750	23.16		4.35	8.49	4.85			213
6145	RUSTLER 404B 28HZ 59"X84"13.5TON 88 HP D	75,064	26.19		5.14	10.07	4.85			184
6150	RASCAL 410A 25HZ 59"X84"13.5TON 88 HP D	75,604	26.33		5.17	10.12	4.85			246
6155	RASCAL 420C 25HZ TF60"X84" 16 TON 119 HP D	84,082	30.71		5.77	11.31	6.56			223
6160	RASCAL 4000 25HZ 60"X84" 20 TON 125 HP D	72,626	28.07		4.97	9.72	6.89			209
6165	RASCAL 510A 25HZ 60"X80"22.5TON 119 HP D	93,676	33.67		6.26	11.93	6.56			374
6170	RASCAL 600A 25HZ 60"X100"22.5TON 119 HP D	81,622	30.45		5.42	10.27	6.56			332
6175	RASCAL 450A 28HZ 59"X84"28.5TON 125 HP D	77,050	29.41		5.20	10.03	6.89			263
	TAMPO									
6185	RS-16A 26HZ 48'X24" 7.5TON 68 HP D	50,039	18.05		3.44	6.77	3.75			124
6190	RS-16 26HZ 48"X24" 8 TON 68 HP D	43,776	16.37		3.02	5.94	3.75			115
6195	RS-16D 26HZ 48"X24" 8 TON 80 HP D	53,252	19.72		3.67	7.24	4.41			123
6200	RH-16A 26HZ 48"X24" 9 TON 75 HP D	58,423	20.76		4.02	7.92	4.13			153
6205	RP-16D 26HZ TF 48"X24" 9 TON 80 HP D	58,617	21.14		4.04	7.97	4.41			127
6210	RP-28D 25HZ TF 63"X84" 15 TON 110 HP D	76,345	28.03		5.23	10.22	6.06			212
6215	RS-28C 25HZ 60"X84" 15 TON 107 HP D	63,428	24.39		4.33	8.45	5.90			202

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	ROLLER, VIBRATORY,SD,S/P (CONT'D) ********** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	TAMPO (CONT'D)									
6220	RS-28D 25HZ 60"X84" 15 TON 107 HP D	68,596	25.77		4.69	9.16	5.90			208
6225	RH-28D 28HZ 60"X84"22.5TON 110 HP D	87,525	31.01		6.00	11.75	6.06			259
	ROLLER,VIB,DOUBLE DRUM,SELF-PROPELLED ********** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	DYNAPAC									
6235	LR-50 60HZ TANDEM 2 TON 16 HP D	8,984	3.49		0.62	1.23	0.88			25
6240	CC-10 50HZ TANDEM 2 TON 34 HP D	26,222	9.31		1.81	3.59	1.87			50
6245	CC-21 50HZ TANDEM 4 TON 71 HP D	58,769	20.54		4.07	8.06	3.91			133
6250	CC-42II 42HZ TANDEM 12 TON 125 HP D	75,226	28.62		5.21	10.32	6.89			200
6255	CC-50A 40HZ TANDEM 18 TON 155 HP D	95,209	36.01		6.60	13.06	8.54			304
6260	CC-50S 28HZ TANDEM 22 TON 181 HP D	109,471	41.59		7.58	15.01	9.98			342
6265	CC-50PD 28HZ TF TANDEM 22 TON 225 HP D	123,706	48.39		8.57	16.96	12.40			419
	RAYGO									
6275	REBEL 1-36 40HZ TANDEM 2 TON 16 HP D	9,214	3.55		0.64	1.26	0.88			23
6280	ROMPER 2-36 40HZ TANDEM 4 TON 35 HP D	22,306	8.34		1.55	3.06	1.93			40
6285	RUSTLER 5604A 50HZ TANDEM 5.5TON 70 HP D	58,185	20.32		4.03	7.98	3.86			132
6290	RUSTLER 7204A 38HZ TANDEM 8 TON 115 HP D	79,882	29.18		5.53	10.95	6.34			250
6295	RANGER 2-66 38HZ TANDEM 8 TON 119 HP D	93,050	32.96		6.45	12.76	6.56			215
	TAMPO									
6305	RS-03 60HZ 36"X24" 2 TON 14 HP D	9,070	3.38		0.63	1.24	0.77			23
6310	RS-144A 50HZ 42"X48" 8 TON 52 HP D	46,053	15.86		3.19	6.32	2.87			100
6315	RS-166A 36HZ 48"X66" 16 TON 80 HP D	69,495	24.02		4.81	9.53	4.41			192
6320	RS-188A 36HZ 60"X84" 30 TON 156 HP D	94,168	35.79		6.52	12.91	8.60			310

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	ROLLER, VIBRATORY,DD,S/P (CONT'D)									
	TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS									
	TAMPO (CONT'D)									
6325	RH-199 25HZ 60"X96" 45 TON 262 HP D	141,063	55.55		9.76	19.33	14.44			491
	SCRAPERS, SELF-PROPELLED									
	(CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)									
	CATERPILLAR									
6335	613-B 13 T 11 CY P.S. 150 HP D	114,950	34.36	45.22	7.03	12.23	6.08	14.06	7.96	324
6340	621-B 24 T 14-20 CY P.S. 330 HP D	231,801	66.97	89.20	14.03	25.19	12.01	29.11	15.79	648
6345	623-B 25 T 22 CY P.S. 330 HP D	257,918	73.34	96.93	15.75	27.30	13.38	31.36	17.50	713
6350	627-B 24 T 14-20 CY P.S. 225/225 HP D/D	270,360	80.88	106.10	16.79	31.11	17.32	36.13	22.46	726
6355	627-B PP 24 T 14-20 CY P.S. 225/225 HP D/D	286,912	84.06	110.00	17.85	33.13	17.32	38.47	22.46	768
6360	631-D 37.5T 21-31 CY P.S. 450 HP D	348,755	93.14	121.13	21.58	39.80	16.38	46.17	21.53	934
6365	633-D 37.5T 34 CY P.S. 450 HP D	397,732	104.47	134.91	24.78	44.11	18.25	50.87	23.87	1038
6370	637-D 37.5T 21-31 CY P.S. 450/255 HP D/D	429,438	127.25	166.47	26.72	49.59	27.13	57.59	35.19	1040
6375	637-D PP 37.5T 21-31 CY P.S. 450/255 HP D/D	447,701	130.76	170.77	27.89	51.82	27.13	60.17	35.19	1087
6380	641-B 47 T 28-38 CY P.S. 550 HP D	434,363	115.35	149.89	26.89	49.62	20.02	57.58	26.31	1167
6385	651-B 52 T 32-44 CY P.S. 550 HP D	452,300	118.69	154.01	28.03	51.80	20.02	60.12	26.31	1191
6390	657-B 52 T 32-44 CY P.S. 550/400 HP D/D	557,939	166.11	216.75	34.77	64.64	36.56	75.07	47.42	1435
	CLARK									
6400	110-9 11 T 9.5CY P.S. 160 HP D	95,171	29.42	38.10	5.92	10.50	6.49	12.10	8.49	286
6405	110-11B 13 T 11 CY P.S. 174 HP D	109,490	33.20	42.96	6.81	12.10	7.06	13.96	9.23	345
6410	110-15B 18 T 15 CY P.S. 232 HP D	144,069	41.83	54.38	8.93	15.79	9.41	18.20	12.31	456
6415	110H-TB 19 T 16 CY P.S. 140/140 HP D/D	196,086	56.06	73.34	12.20	22.65	10.77	26.30	13.98	521
6420	210-HB 26.5T 23 CY P.S. 324 HP D	241,124	66.07	85.47	15.01	26.68	13.14	30.77	17.18	710

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)									
	FIAT-ALLIS									
6430	161 18.7 T 15 CY P.S. 229 HP D	157,463	44.20	57.28	9.79	17.37	9.29	20.02	12.15	449
6435	260B 25.0 T 15-21 CY P.S. 325 HP D	212,216	59.15	77.04	13.13	24.18	11.83	28.04	15.55	584
6440	261B 26.5 T 23 CY P.S. 325 HP D	241,189	65.30	84.96	15.04	26.80	13.18	30.93	17.24	630
6445	262B 25.0 T 15-21 CY P.S. 325/171 HP D/D	256,864	80.50	105.77	15.93	29.47	19.09	34.21	24.76	679
6450	263-B 26.5 T 23 CY P.S. 325/171 HP D/D	304,180	89.12	116.05	18.98	35.34	19.09	41.05	24.76	742
	INTERNATIONAL									
6460	412B 13 T 11 CY P.S. 168 HP D	112,482	33.37	43.08	7.02	12.49	6.81	14.41	8.91	335
6465	431B 24 T 14-21 CY P.S. 326 HP D	225,251	62.00	80.75	13.93	25.64	11.87	29.73	15.60	594
6470	433B 24 T 14-21 CY P.S. 326/185 HP D/D	264,551	82.69	108.53	16.42	30.40	19.66	35.30	25.51	690
6475	442B 25 T 22 CY P.S. 326 HP D	251,836	68.51	88.66	15.68	27.84	13.22	32.09	17.29	680
6480	444B 25 T 22 CY P.S. 326/185 HP D/D	297,160	89.51	117.32	18.47	34.23	19.66	39.75	25.51	805
	JOHN DEERE									
6490	JD762 13.7 T 11 CY P.S. 175 HP D	118,454	34.94	45.03	7.39	13.19	7.10	15.22	9.28	355
6495	JD862 20.0 T 16 CY P.S. 250 HP D	159,793	45.68	59.19	9.94	17.64	10.14	20.34	13.26	492
	TEREX (GM)									
6505	S-23E 26.5T 23 CY P.S. 310 HP D	239,043	65.31	84.66	14.86	26.34	12.57	30.35	16.44	658
6510	S-24B 40.8T 24-34 CY P.S. 475 HP D	369,840	100.64	132.05	22.71	41.50	17.29	48.10	22.72	955
6515	TS-14B 23.5T 14-20 CY P.S. 144/144 HP D/D	234,732	65.31	85.76	14.58	27.01	11.08	31.35	14.38	544
6520	TS-18 30 T 18-24 CY P.S. 295/225 HP D/D	308,829	92.18	120.63	19.21	35.65	20.01	41.40	25.96	721
6525	TS-24 40 T 24-32 CY P.S. 394/225 HP D/D	414,553	119.94	157.01	25.79	47.86	23.82	55.57	30.90	959
6530	TS-24B 40.8T 24-34 CY P.S. 475/242 HP D/D	471,595	139.54	184.12	29.20	53.87	27.59	62.50	35.79	1084

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	SCRAPER, TRACTOR DRAWN									
	ROME									
6545	ROME 18T 12-17CY HYDR/CONTROL	65,998	12.38	14.81	3.82	6.56	0.00	7.32	0.00	235
6550	ROME 27T 18-26CY HYDR/CONTROL	87,619	16.72	20.10	5.01	8.49	0.00	9.47	0.00	365
	SOUTHWEST									
6560	SOUTHWEST DS18 DRAG SCRAPER 8.8 CY	33,650	6.36	7.63	1.93	3.29	0.00	3.68	0.00	137
	TRACTOR, CRAWLER (DOZER)									
	CATERPILLAR									
6570	D-3B P.S. 65 HP D	35,173	11.86	15.16	2.25	3.97	2.77	4.57	3.65	126
6575	3P POWER ANGLE & POWER TILT	7,193	1.57	1.98	0.46	0.87	0.00	1.02	0.00	24
6580	D-4E P.S. 75 HP D	43,934	14.47	18.48	2.82	4.96	3.20	5.71	4.21	173
6585	4A ANGLE BLADE HYDRAULIC	9,308	2.00	2.53	0.59	1.12	0.00	1.31	0.00	28
6590	4S STRAIGHT BLADE HYDRAULIC	7,246	1.58	1.98	0.46	0.88	0.00	1.02	0.00	25
6595	D-5B P.S. 105 HP D	73,555	23.07	29.42	4.72	8.31	4.48	9.56	5.90	223
6600	5A ANGLE BLADE HYDRAULIC	11,549	2.48	3.12	0.73	1.40	0.00	1.63	0.00	43
6605	5S STRAIGHT BLADE HYDRAULIC	8,905	1.93	2.42	0.57	1.08	0.00	1.25	0.00	32
6610	D-6D P.S. 140 HP D	100,633	31.36	39.98	6.46	11.37	5.97	13.08	7.86	274
6615	6S STRAIGHT BLADE HYDRAULIC	11,653	2.50	3.15	0.74	1.41	0.00	1.65	0.00	49
6620	6A ANGLE BLADE HYDRAULIC	13,184	2.82	3.55	0.84	1.60	0.00	1.86	0.00	53
6625	D-7G P.S. 200 HP D	144,601	45.01	57.35	9.28	16.34	8.53	18.79	11.23	377
6630	7S STRAIGHT BLADE HYDRAULIC	18,759	3.99	5.03	1.20	2.28	0.00	2.65	0.00	77
6635	7U HYD. UNIVERSAL BLADE	20,553	4.37	5.50	1.32	2.50	0.00	2.90	0.00	84
6640	7A ANGLE BLADE HYDRAULIC	16,363	3.49	4.39	1.05	1.99	0.00	2.31	0.00	68
6645	D-8K P.S. 300 HP D	193,915	52.23	64.99	11.73	20.32	12.79	22.71	16.85	638
6650	8S STRAIGHT BLADE HYDRAULIC	27,374	5.79	7.31	1.75	3.32	0.00	3.87	0.00	121
6655	8U HYD. UNIVERSAL BLADE	30,167	6.36	8.04	1.92	3.65	0.00	4.26	0.00	133
6660	8A ANGLE BLADE HYDRAULIC	23,177	4.91	6.19	1.48	2.81	0.00	3.27	0.00	116

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

UNIT NO.	EQUIPMENT			VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	TRACTOR, CRAWLER (DOZER) (CONT'D)											
	CATERPILLAR (CONT'D)											
6665		PUSH PLATE USE W/8S		707	0.19	0.24	0.04	0.08	0.00	0.10	0.00	4
6670	D-9L	P.S.	460 HP D	303,085	75.06	91.86	17.35	29.81	19.61	32.71	25.83	977
6675	9S	STRAIGHT BLADE HYDRAULIC		37,482	7.90	9.97	2.39	4.55	0.00	5.29	0.00	184
6680	9A	ANGLE BLADE HYDRAULIC		29,180	6.16	7.79	1.86	3.54	0.00	4.13	0.00	152
6685	9U	HYD. UNIVERSAL BLADE		39,629	8.35	10.55	2.53	4.81	0.00	5.60	0.00	195
6690	9C	CUSHION BLADE		32,962	6.96	8.79	2.10	4.00	0.00	4.66	0.00	154
6695		REAR CUSHION PUSH BLOCK		9,914	2.19	2.74	0.63	1.20	0.00	1.40	0.00	54
6700		FRONT PUSH PLATE		1,056	0.29	0.35	0.07	0.13	0.00	0.15	0.00	7
6705	D-10	P.S.	700 HP D	511,291	122.68	149.76	29.28	50.29	29.85	55.17	39.31	1526
6710	10S	STRAIGHT BLADE HYDRAULIC		57,142	12.00	15.18	3.65	6.93	0.00	8.07	0.00	280
6715	10U	HYD. UNIVERSAL BLADE		62,888	13.20	16.70	4.01	7.62	0.00	8.89	0.00	289
6720		FRONT PUSH PLATE		1,228	0.32	0.40	0.07	0.14	0.00	0.18	0.00	7
6725		REAR PUSH BLOCK		17,480	3.72	4.69	1.12	2.12	0.00	2.47	0.00	48
	FIAT-ALLIS											
6735	8-B	P.S.	88 HP D	53,704	17.47	22.32	3.44	6.06	3.75	6.98	4.94	189
6740	8-HA	ANGLE BLADE HYDRAULIC		7,883	1.71	2.16	0.50	0.95	0.00	1.12	0.00	30
6745	8-HSU	SEMI-U BLADE HYDRAULIC		7,872	1.69	2.13	0.50	0.95	0.00	1.11	0.00	30
6750	10-C	P.S.	122 HP D	72,045	23.67	30.23	4.62	8.14	5.20	9.36	6.85	256
6755	10-HA	ANGLE BLADE HYDRAULIC		8,772	1.90	2.39	0.56	1.06	0.00	1.24	0.00	36
6760	10-HSU	SEMI-U BLADE HYDRAULIC		10,742	2.29	2.89	0.69	1.30	0.00	1.52	0.00	38
6765	14-C	P.S.	150 HP D	100,833	31.98	40.77	6.47	11.39	6.40	13.10	8.42	306
6770	14-HA	ANGLE BLADE HYDRAULIC		13,435	2.88	3.62	0.86	1.63	0.00	1.90	0.00	51
6775	14-HSU	SEMI-U BLADE HYDRAULIC		13,414	2.85	3.60	0.86	1.63	0.00	1.90	0.00	51
6780	20	P.S.	223 HP D	128,423	42.52	54.31	8.24	14.51	9.51	16.70	12.52	453
6785	20-HA	ANGLE BLADE HYDRAULIC		14,286	3.06	3.85	0.92	1.74	0.00	2.02	0.00	66
6790	20-HS	STRAIGHT BLADE HYDRAULIC		15,008	3.20	4.04	0.96	1.82	0.00	2.12	0.00	66

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRACTOR, CRAWLER (DOZER) (CONT'D)									
	FIAT-ALLIS (CONT'D)									
6795	20-HSU SEMI-U BLADE HYDRAULIC	20,386	4.30	5.44	1.30	2.47	0.00	2.88	0.00	79
6800	30-C P.S. 300 HP D	192,000	51.86	64.56	11.61	20.11	12.79	22.49	16.85	636
6805	30HSU HYD. SEMI-UNIVERSAL BLADE	28,368	5.97	7.55	1.81	3.44	0.00	4.01	0.00	127
6810	30-HU FULL-U BLADE HYDRAULIC	28,812	6.06	7.67	1.83	3.49	0.00	4.07	0.00	114
6815	31 P.S. 425 HP D	264,226	72.02	89.70	15.97	27.68	18.12	30.94	23.87	908
6820	31-HSU SEMI-U BLADE HYDRAULIC	42,708	8.97	11.35	2.72	5.18	0.00	6.04	0.00	190
6825	31-HU FULL-U BLADE HYDRAULIC	43,737	9.19	11.61	2.79	5.31	0.00	6.18	0.00	210
6830	31-HC CUSHION BLADE	27,433	5.79	7.33	1.75	3.32	0.00	3.88	0.00	120
6835	41-B P.S. 524 HP D	382,809	91.85	112.11	21.93	37.66	22.34	41.30	29.43	1128
6840	41-HSU SEMI-U BLADE HYDRAULIC	49,359	10.36	13.10	3.15	5.99	0.00	6.97	0.00	222
6845	41-HU FULL-U BLADE HYDRAULIC	56,531	11.86	15.00	3.61	6.86	0.00	7.99	0.00	254
6850	41-HC CUSHION BLADE	31,484	6.65	8.40	2.01	3.82	0.00	4.45	0.00	120
	INTERNATIONAL									
6860	TD-7-E P.S. W/HYD BLADE 65 HP D	46,374	14.48	18.46	2.98	5.24	2.77	6.03	3.65	139
6865	TD-8-E P.S. W/HYD BLADE 78 HP D	57,590	17.83	22.71	3.70	6.51	3.33	7.48	4.38	172
6870	TD-12 P.S. W/HYD BLADE 110 HP D	79,902	24.84	31.67	5.13	9.03	4.69	10.39	6.18	267
6875	TD-15-C P.S. 140 HP D	95,702	30.21	38.52	6.14	10.81	5.97	12.43	7.86	271
6880	15D-2 HYD. SEMI-UNIVERSAL BLADE	10,950	2.34	2.95	0.70	1.33	0.00	1.55	0.00	46
6885	15G-2 ANGLE BLADE HYDRAULIC	12,352	2.63	3.31	0.79	1.50	0.00	1.74	0.00	50
6890	TD-20-E P.S. 210 HP D	143,810	45.38	57.86	9.23	16.25	8.95	18.69	11.79	414
6895	20D-2 HYD. SEMI-UNIVERSAL BLADE	19,419	4.11	5.18	1.24	2.36	0.00	2.74	0.00	61
6900	20G-2 ANGLE BLADE HYDRAULIC	13,055	2.77	3.50	0.83	1.58	0.00	1.84	0.00	71
6905	TD-25-E P.S. 310 HP D	189,187	51.87	64.62	11.44	19.82	13.22	22.16	17.41	604
6910	25D-2 HYD. SEMI-UNIVERSAL BLADE	23,834	5.03	6.35	1.52	2.89	0.00	3.37	0.00	113
6915	25G-2 ANGLE BLADE HYDRAULIC	19,635	4.15	5.24	1.25	2.38	0.00	2.77	0.00	115
6920	FRONT PUSHER CUSHION	8,292	1.81	2.27	0.53	1.01	0.00	1.18	0.00	29

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRACTOR, CRAWLER (DOZER) (CONT'D)									
	INTERNATIONAL (CONT'D)									
6925	REAR PUSHER CUSHION	4,804	1.12	1.39	0.30	0.58	0.00	0.68	0.00	23
6930	FRONT PUSH BLOCK /S BLD	732	0.22	0.26	0.05	0.09	0.00	0.10	0.00	12
	JOHN DEERE									
6940	JD350C/6305 D.D. W/HYD BLADE 42 HP D	30,700	9.53	12.14	1.97	3.47	1.79	3.99	2.36	107
6945	JD450C/6405 D.D. W/HYD BLADE 65 HP D	42,769	13.64	17.40	2.75	4.83	2.77	5.56	3.65	143
6950	JD550/6405 P.S. W/HYD BLADE 72 HP D	51,108	15.98	20.37	3.28	5.78	3.07	6.65	4.04	155
	KOMATSU									
6960	D31A-16 H.S. 63 HP D	34,812	11.68	14.90	2.24	3.94	2.69	4.52	3.54	128
6965	ANGLE TILTDOZER BLADE	5,645	1.22	1.54	0.36	0.68	0.00	0.80	0.00	20
6970	D45A-1 H.S. 90 HP D	52,259	17.26	22.04	3.35	5.90	3.84	6.79	5.05	200
6975	ANGLE TILTDOZER BLADE	4,017	0.89	1.11	0.26	0.49	0.00	0.57	0.00	24
6980	D53A-16A H.S. 118 HP D	76,661	24.53	31.30	4.92	8.66	5.03	9.97	6.63	246
6985	ANGLE TILTDOZER BLADE	6,686	1.45	1.81	0.43	0.81	0.00	0.94	0.00	42
6990	D65E-6 H.S. 155 HP D	108,533	34.05	43.42	6.97	12.26	6.61	14.11	8.70	377
6995	ANGLE TILTDOZER BLADE	8,718	1.87	2.36	0.56	1.06	0.00	1.24	0.00	61
7000	D85A-18 H.S. 220 HP D	136,763	44.29	56.53	8.78	15.45	9.38	17.77	12.36	437
7005	ANGLE TILTDOZER BLADE	13,637	2.90	3.66	0.87	1.66	0.00	1.93	0.00	99
7010	U-DOZER BLADE	14,553	3.09	3.90	0.93	1.77	0.00	2.06	0.00	104
7015	D155A-1 H.S. 320 HP D	196,674	53.80	67.01	11.90	20.61	13.64	23.03	17.97	690
7020	ANGLE TILTDOZER BLADE	18,708	3.96	4.99	1.19	2.27	0.00	2.64	0.00	140
7025	U-DOZER BLADE	19,770	4.18	5.28	1.26	2.40	0.00	2.80	0.00	142
7030	D355A-3 H.S. 410 HP D	264,952	71.36	88.82	16.02	27.76	17.48	31.03	23.03	945
7035	U-DOZER BLADE	25,418	5.36	6.77	1.62	3.08	0.00	3.59	0.00	196
7040	STRAIGHT DOZER BLADE	23,132	4.88	6.17	1.47	2.80	0.00	3.27	0.00	184
7045	D455A-1 H.S. 620 HP D	469,108	111.40	135.88	26.86	46.14	26.44	50.62	34.82	1445
7050	FULL U-DOZER BLADE	61,639	12.93	16.35	3.93	7.48	0.00	8.71	0.00	229

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRACTOR, CRAWLER (DOZER) (CONT'D)									
	KOMATSU (CONT'D)									
7055	U-DOZER BLADE	57,940	12.14	15.37	3.69	7.02	0.00	8.19	0.00	211
7060	STRAIGHT DOZER BLADE	54,240	11.38	14.39	3.46	6.58	0.00	7.66	0.00	193
	TEREX (GM)									
7070	82-20B P.S. (W/O BLADE) 205 HP D	148,419	46.18	58.84	9.53	16.77	8.74	19.29	11.51	409
7075	SEMI-U BLADE HYDRAULIC	13,786	2.93	3.70	0.88	1.67	0.00	1.95	0.00	58
7080	ANGLE BLADE HYDRAULIC	15,425	3.27	4.13	0.99	1.87	0.00	2.18	0.00	69
7085	FULL-U BLADE HYDRAULIC	15,799	3.34	4.24	1.00	1.91	0.00	2.24	0.00	68
7090	82-30B P.S. (W/O BLADE) 260 HP D	171,458	45.89	57.10	10.36	17.96	11.09	20.09	14.60	555
7095	SEMI-U BLADE HYDRAULIC	19,474	4.11	5.20	1.24	2.36	0.00	2.75	0.00	91
7100	ANGLE BLADE HYD. W/DUAL TILT	25,537	5.39	6.80	1.63	3.10	0.00	3.61	0.00	118
7105	FULL-U BLADE HYDRAULIC	22,093	4.65	5.89	1.40	2.67	0.00	3.12	0.00	107
7110	REAR CUSHION PUSH BLOCK	6,407	1.45	1.80	0.41	0.78	0.00	0.90	0.00	30
7115	82-50B P.S. (W/O BLADE) 370 HP D	244,162	65.34	81.29	14.77	25.58	15.78	28.60	20.78	776
7120	SEMI-U BLADE HYDRAULIC	25,446	5.36	6.78	1.62	3.08	0.00	3.60	0.00	118
7125	FULL-U BLADE HYDRAULIC	27,889	5.87	7.42	1.78	3.38	0.00	3.94	0.00	129
7130	ANGLE BLADE HYDRAULIC	24,667	5.20	6.58	1.57	2.99	0.00	3.49	0.00	157
7135	PUSH PLATE (WELD ON)	1,028	0.27	0.33	0.07	0.13	0.00	0.15	0.00	6
7140	PUSH BLOCK (CUSHION REAR)	5,916	1.33	1.67	0.37	0.71	0.00	0.84	0.00	21
	TRACTOR, WHEEL TYPE (DOZER)									
	CATERPILLAR									
7150	814-B ARTICULATED ST BLADE P.S. 210 HP D	139,209	37.93	50.27	8.71	15.68	8.30	18.12	10.92	420
7155	824-C ARTICULATED ST BLADE P.S. 310 HP D	215,256	59.26	80.21	13.36	23.77	12.25	27.41	16.12	621

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRACTOR, WHEEL TYPE (DOZER) (CONT'D)									
	CLARK									
7165	280 ARTICULATED ST BLADE P.S. 274 HP D	234,224	61.46	83.54	14.52	25.80	10.83	29.75	14.25	691
7170	380B ARTICULATED ST BLADE P.S. 473 HP D	381,507	97.81	130.35	23.62	41.93	18.69	48.34	24.60	1233
	TRACTOR, WHEEL TYPE (FARM)									
	JOHN DEERE									
7180	MOD 301 A 43 HP D	14,155	4.88	6.36	0.89	1.61	1.70	1.86	2.24	0
7185	MOD 302 50 HP D	15,824	5.53	7.17	1.00	1.82	1.98	2.10	2.60	0
7190	MOD 401 B 62 HP D	21,336	7.15	9.25	1.35	2.45	2.45	2.84	3.22	0
	TRENCHER, CHAIN - DITCH WITCH									
7200	MOD C99 6"X24" TRENCH 9 HP G	2,995	1.66	2.16	0.19	0.33	0.76	0.38	0.99	6
7205	MOD 2200 8"X36" TRENCH 17 HP G	13,252	4.84	6.21	0.84	1.51	1.44	1.74	1.87	30
7210	MOD 2300 10"X36" TRENCH 28 HP G	15,180	6.50	8.35	0.97	1.74	2.37	2.01	3.08	33
7215	MOD 6510 12"X54" TRENCH 64 HP D	33,452	10.70	13.73	2.13	3.80	2.53	4.38	3.33	72
7220	MOD R100 10"X72" TRENCH 105 HP D	72,593	21.56	27.63	4.59	8.17	4.15	9.41	5.46	95
	TRENCHER, WHEEL TYPE									
	BARBER-GREENE									
7230	MOD TA 56 16"X5'-10" TRENCH 100 HP D	117,933	31.13	39.69	7.55	13.64	3.95	15.76	5.20	250
7235	MOD TA 65 28"X7'-6" TRENCH 175 HP D	170,560	46.56	59.42	10.92	19.72	6.92	22.80	9.10	431
	CLEVELAND									
7245	MOD 247-HD-1 21"X7' TRENCH 84 HP D	133,613	33.79	43.01	8.56	15.46	3.32	17.86	4.37	277
7250	MOD 400W-HD-1 36"X9' TRENCH 175 HP D	232,761	60.33	76.84	14.91	26.93	6.92	31.11	9.10	659

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

UNIT NO.	EQUIPMENT							VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRUCKS, HIGHWAY ********** (CHASSIS ONLY)															
	FORD															
7265	F150	4X2	1/2T PKUP	6100 GVW	157 HP	G		6,572	5.56	7.44	0.45	0.87	3.01	1.07	4.02	38
7270	F150	4X4	1/2T PKUP	6250 GVW	157 HP	G		8,169	5.94	7.98	0.56	1.08	3.01	1.33	4.02	42
7275	F250	4X2	3/4T PKUP	6900 GVW	157 HP	G		6,994	5.72	7.64	0.48	0.91	3.01	1.11	4.02	40
7280	F250	4X4	3/4T PKUP	7400 GVW	157 HP	G		8,475	6.11	8.17	0.58	1.11	3.01	1.35	4.02	44
7285	F350	2AX		10000 GVW	157 HP	G		8,003	6.04	8.08	0.53	1.01	3.01	1.25	4.02	42
7290	F600	2AX		18500 GVW	154 HP	G		14,516	12.52	16.26	0.98	1.86	6.90	2.27	8.87	65
7295	F600	2AX		18500 GVW	162 HP	D		20,094	9.66	12.75	1.36	2.61	3.95	3.20	5.14	65
7300	F700	2AX		24500 GVW	177 HP	G		16,823	14.37	18.68	1.14	2.17	7.93	2.65	10.20	65
7305	F700	2AX		24500 GVW	162 HP	D		22,698	10.23	13.51	1.54	2.97	3.95	3.63	5.14	73
7310	F800	2AX		27000 GVW	177 HP	G		18,922	14.88	19.35	1.28	2.43	7.93	2.97	10.20	72
7315	F800	2AX		27000 GVW	162 HP	D		24,190	10.86	14.31	1.61	3.05	3.95	3.73	5.14	76
7320	LT800	3AX		43000 GVW	223 HP	G		28,881	26.42	34.36	1.94	3.69	14.84	4.50	19.12	110
7325	LT8000	3AX		44800 GVW	175 HP	D		39,785	17.48	23.11	2.68	5.12	6.40	6.27	8.33	126
7330	LTS8000	3AX		46000 GVW	175 HP	D		41,641	17.95	23.71	2.80	5.33	6.40	6.52	8.33	130
7335	LNT8000	3AX		46000 GVW	175 HP	D		39,371	17.46	23.05	2.64	5.02	6.40	6.14	8.33	124
7340	CT8000	3AX		46000 GVW	175 HP	D		45,941	18.87	24.96	3.09	5.91	6.40	7.23	8.33	136
7345	LT9000	3AX	58000 GVW	82000 GCW	239 HP	D		60,438	25.64	33.85	4.04	7.67	8.75	9.36	11.37	172
7350	LTS9000	3AX	60000 GVW	82000 GCW	239 HP	D		64,193	26.50	34.98	4.29	8.14	8.75	9.94	11.37	180
7355	LNT9000	3AX	60000 GVW	82000 GCW	239 HP	D		60,868	25.78	34.01	4.06	7.69	8.75	9.38	11.37	175
7360	CLT9000	3AX		82000 GCW	286 HP	D		59,977	27.67	36.48	4.01	7.62	10.47	9.30	13.61	149
	GMC AND CHEVROLET															
7370	C10903	4X2	1/2T PKUP	6200 GVW	165 HP	G		7,008	5.90	7.87	0.48	0.92	3.17	1.13	4.22	42
7375	C10906	4X2	WAGON	6400 GVW	165 HP	G		8,694	6.29	8.39	0.60	1.15	3.17	1.41	4.22	47
7380	K10906	4X4	WAGON	6800 GVW	165 HP	G		9,779	6.54	8.75	0.67	1.30	3.17	1.59	4.22	51
7385	C20903	4X2	3/4T PKUP	7100 GVW	165 HP	G		8,230	6.19	8.25	0.57	1.09	3.17	1.33	4.22	48
7390	K20903	4X4	3/4T PKUP	6800 GVW	165 HP	G		9,429	6.49	8.67	0.64	1.25	3.17	1.52	4.22	51

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRUCKS, HIGHWAY (CONT'D) ********** (CHASSIS ONLY)									
	GMC AND CHEVROLET (CONT'D)									
7395	C30903 2AX 9000 GVW 160 HP G	7,769	5.96	7.96	0.52	1.01	3.07	1.24	4.10	45
7400	C5D042 2AX 16000 GVW 161 HP G	12,240	12.36	16.02	0.82	1.58	7.21	1.93	9.27	59
7405	C6D042 2AX 19200 GVW 161 HP G	13,801	12.77	16.57	0.93	1.76	7.21	2.14	9.27	64
7410	C6D042 2AX 21200 GVW 165 HP D	19,060	9.54	12.58	1.29	2.47	4.03	3.03	5.23	73
7415	C7D042 2AX 23160 GVW 179 HP G	15,082	14.17	18.38	1.01	1.91	8.02	2.33	10.31	71
7420	C7D042 2AX 27500 GVW 185 HP D	26,077	11.82	15.60	1.76	3.36	4.51	4.11	5.87	92
7425	C7D064 3AX 44500 GVW 195 HP G	28,267	23.99	31.21	1.87	3.53	12.98	4.30	16.72	121
7430	C7D064 3AX 44860 GVW 205 HP D	33,033	17.49	23.01	2.21	4.18	7.50	5.10	9.75	128
7435	J8C042 2AX 35000 GVW 235 HP D	37,511	19.92	26.20	2.51	4.75	8.60	5.80	11.18	102
7440	J8C064 3AX 44860 GVW 210 HP D	39,145	19.05	25.11	2.63	5.01	7.69	6.13	9.99	128
7445	J9C042 2AX 35000 GVW 230 HP D	43,131	17.29	22.84	2.89	5.51	5.61	6.74	7.30	118
7450	J9C064 3AX 50000 GVW 335 HP D	53,631	28.05	36.95	3.63	6.99	12.26	8.55	15.94	148
7455	N9E064 3AX 56000 GVW 307 HP D	62,735	28.79	38.00	4.25	8.19	11.24	10.02	14.61	165
7460	D9K064 3AX 69000 GCW 307 HP D	56,720	27.4[illegible]	36.16	3.85	7.41	11.24	9.07	14.61	138
	INTERNATIONAL									
7470	SCOUT 4X4 6200 GVW 97 HP G	7,647	4.33	5.79	0.52	1.01	1.86	1.24	2.48	30
7475	1624 2AX 20000 GVW 147 HP G	11,563	11.39	14.77	0.78	1.49	6.59	1.82	8.47	57
7480	1724 2AX 20000 GVW 147 HP G	11,951	11.47	14.88	0.81	1.54	6.59	1.89	8.47	65
7485	1754 2AX 20000 GVW 165 HP D	16,734	8.97	11.80	1.13	2.19	4.03	2.69	5.23	71
7490	1824 2AX 21000 GVW 189 HP G	12,698	14.11	18.29	0.85	1.64	8.47	2.01	10.89	68
7495	1854 2AX 23000 GVW 180 HP D	19,147	10.03	13.21	1.30	2.49	4.39	3.04	5.71	74
7500	1924 2AX 25000 GVW 190 HP G	14,879	14.71	19.09	1.00	1.91	8.51	2.33	10.94	79
7505	1954 2AX 25000 GVW 210 HP D	24,723	12.16	16.05	1.68	3.25	5.12	3.97	6.66	100
7510	F2554 3AX 43000 GVW 210 HP D	41,136	19.49	25.69	2.77	5.29	7.69	6.46	9.99	123
7515	F2574 3AX 50000 GVW 230 HP D	49,318	22.20	29.29	3.33	6.40	8.42	7.83	10.94	123
7520	F4370 3AX 46000 GVW 290 HP D	51,911	25.56	33.71	3.51	6.75	10.61	8.26	13.80	133

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRUCKS, HIGHWAY (CONT'D) ********** (CHASSIS ONLY)									
	INTERNATIONAL (CONT'D)									
7525	F5050 3AX 52000 GVW 225 HP D	50,196	22.15	29.26	3.39	6.52	8.23	7.98	10.71	138
7530	F5070 3AX 52000 GVW 290 HP D	53,938	26.00	34.30	3.66	7.03	10.61	8.60	13.80	140
	KENWORTH									
7540	K100 3AX 47400 GVW 72800 GCW 290 HP D	66,490	28.76	38.04	4.51	8.72	10.61	10.68	13.80	138
7545	W900 3AX 50000 GVW 76800 GCW 290 HP D	67,706	29.03	38.39	4.60	8.89	10.61	10.88	13.80	140
7550	C500 3AX 56000 GVW 86000 GCW 290 HP D	74,712	30.54	40.44	5.09	9.84	10.61	12.06	13.80	144
	PETERBILT									
7560	MOD 348 3AX 56000 GVW 250 HP D	64,132	26.47	34.99	4.33	8.33	9.15	10.19	11.89	121
7565	MOD 362 3AX 50000 GVW 76800 GCW 350 HP D	70,660	32.49	42.90	4.81	9.29	12.81	11.37	16.65	131
7570	MOD 359 3AX 50000 GVW 76800 GCW 350 HP D	76,333	33.72	44.56	5.20	10.07	12.81	12.33	16.65	134
7575	MOD 353 3AX 73000 GVW 125000 GCW 350 HP D	79,277	34.35	45.42	5.40	10.46	12.81	12.82	16.65	174
7580	MOD 387 3AX 83000 GVW 150000 GCW 350 HP D	106,870	40.33	53.48	7.32	14.23	12.81	17.44	16.65	193
	TRUCK ACCESSORIES ********** (CHASIS NOT INCLUDED)									
	CRANES, HYDRAULIC									
7590	5.3T@5'RAD 24000 GVW MIN	21,621	5.16		1.51	3.08	0.00			79
7595	8.0T@3'RAD 26500 GVW MIN	26,254	6.24		1.83	3.74	0.00			84
7600	12.5T@4'RAD 27000 GVW MIN	40,719	9.62		2.83	5.79	0.00			142
7605	13.5T@4'RAD 44000 GVW MIN	50,883	12.01		3.54	7.24	0.00			158
7610	15.0T@4'RAD 48000 GVW MIN	57,935	13.65		4.03	8.24	0.00			211
	DUMP BODY, REAR, W/HOIST									
7620	5CY 24000 TO 26000 GVW	5,463	1.36	1.80	0.38	0.78	0.00	0.96	0.00	26
7625	AIR GATE 8CY 27000 TO 30000 GVW	8,624	2.10	2.81	0.60	1.23	0.00	1.52	0.00	44
7630	AIR GATE 10CY 36000 AND UP GVW	8,719	2.12	2.84	0.60	1.24	0.00	1.54	0.00	45

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	TRUCK ACCESSORIES (CONT'D)									
	(CHASIS NOT INCLUDED)									
	DUMP BODY, REAR, W/HOIST (CONT'D)									
7635	AIR GATE 12CY 36000 AND UP GVW	8,843	2.15	2.87	0.62	1.26	0.00	1.55	0.00	46
	FLATBEDS									
7645	8'X9.5'	1,751	0.41		0.12	0.25	0.00			11
7650	8'X10.5'	1,804	0.43		0.13	0.26	0.00			12
7655	8'X12.5'	1,970	0.46		0.14	0.28	0.00			14
7660	8'X14.5'	2,342	0.56		0.17	0.34	0.00			16
7665	8'X16.5'	2,565	0.61		0.18	0.37	0.00			18
7670	FLATBED-HOIST	2,455	0.58		0.17	0.35	0.00			10
7675	FLATBED-SIDEBOARDS	704	0.16		0.05	0.10	0.00			3
	HOISTS, ELECTRIC									
7685	1500LB@1.75'	1,916	0.54		0.14	0.28	0.00			4
7690	2400LB@3'	2,466	0.66		0.17	0.35	0.00			6
7695	5000LB@4'	6,727	1.65		0.46	0.95	0.00			15
7700	6000LB@6'	7,493	1.84		0.52	1.07	0.00			14
	TRANSIT MIXERS									
7710	7 CY 40000 - 50000 GVW RQD	23,808	5.69		1.65	3.38	0.00			63
7715	8 CY 50000 - 70000 GVW RQD	24,171	5.78		1.68	3.44	0.00			66
7720	8.5CY 55000 - 75000 GVW RQD	24,415	5.83		1.69	3.47	0.00			68
7725	9 CY 61000 - 80000 GVW RQD	24,754	5.91		1.72	3.52	0.00			73
	WATER TANKS									
7735	2000 GAL 23500-28000 GVW	10,584	2.48		0.74	1.51	0.00			35
7740	2500 GAL 25000-34950 GVW	11,144	2.60		0.77	1.58	0.00			39
7745	3000 GAL 29000-40000 GVW	11,836	2.77		0.82	1.68	0.00			44

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRUCK TRAILERS									
	BOTTOM DUMP									
7755	18CY 27T	25,823	5.14	6.43	1.59	2.94	0.00	3.42	0.00	122
7760	20CY 30T	29,720	5.89	7.37	1.84	3.41	0.00	3.95	0.00	140
7765	30CY 30T	29,365	5.82	7.29	1.82	3.36	0.00	3.90	0.00	160
7770	28CY 42T	37,244	7.33	9.18	2.31	4.29	0.00	4.98	0.00	180
7775	20CY 35T OFF-HIGHWAY	39,004	7.89	9.83	2.38	4.34	0.00	5.02	0.00	175
7780	32CY 55T OFF-HIGHWAY	82,886	16.40	20.52	5.11	9.41	0.00	10.91	0.00	365
7785	43CY 70T OFF-HIGHWAY	92,427	18.81	23.45	5.59	10.10	0.00	11.68	0.00	445
	END DUMP									
7795	20CY 24T	30,690	6.04	7.57	1.91	3.54	0.00	4.11	0.00	146
	LOWBOY, RIGID NECK, DROP DECK									
7805	25 TON 2 AXLE	19,206	3.45		1.19	1.94	0.00			89
7810	30 TON 2 AXLE	21,881	3.91		1.36	2.22	0.00			94
7815	35 TON 2 AXLE	26,535	4.70		1.65	2.71	0.00			109
7820	35 TON 3 AXLE	26,983	4.89		1.68	2.72	0.00			134
7825	40 TON 3 AXLE	28,532	5.18		1.77	2.86	0.00			144
7830	50 TON 3 AXLE	31,117	5.65		1.93	3.12	0.00			161
7835	60 TON 3 AXLE	34,265	6.56		2.06	3.18	0.00			188
7840	70 TON 3 AXLE	45,417	8.38		2.78	4.41	0.00			213
7845	75 TON 3 AXLE	46,335	8.54		2.84	4.52	0.00			228
7850	80 TON 4 AXLE	54,398	9.62		3.40	5.57	0.00			266
7855	90 TON 4 AXLE	60,014	10.99		3.69	5.89	0.00			297
7860	110 TON 4 AXLE	66,159	12.09		4.06	6.50	0.00			313
7865	120 TON 4 AXLE	75,142	13.52		4.64	7.50	0.00			351
7870	HELPER DOLLY 60 T TRAILER MAX	15,666	2.93		0.96	1.52	0.00			62

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRUCK TRAILERS (CONT'D)									
	PLATFORM TRAILERS									
7880	25 TON 2 AXLE	14,610	2.76		0.89	1.40	0.00			110
	PUP TRAILERS									
7890	8 CY LONG TONGUE	18,226	3.37		1.13	1.80	0.00			86
7895	10CY LONG TONGUE	18,369	3.39		1.13	1.81	0.00			86
	TILT TRAILERS									
7905	12 TON 2 AXLE	9,443	1.82		0.57	0.91	0.00			62
7910	16 TON 2 AXLE	9,720	1.86		0.60	0.94	0.00			65
7915	20 TON 2 AXLE	11,045	2.15		0.67	1.04	0.00			67
	WATER TANKER TRAILERS									
7925	4000 GAL 63 HP D	27,815	7.53		1.65	2.93	2.49			120
7930	5000 GAL 63 HP D	29,291	7.84		1.71	2.99	2.49			150
7935	6000 GAL 63 HP D	30,581	8.04		1.79	3.13	2.49			160
	TRUCKS, OFF-HIGHWAY									
	CATERPILLAR									
7945	769-C 35T 22-30 CY P.S. 450 HP D	264,582	63.01	81.00	15.51	27.33	11.23	30.64	14.51	689
7950	773-B 50T 30-45 CY P.S. 650 HP D	371,684	89.75	115.74	21.76	38.24	16.22	42.86	20.96	890
7955	777 85T 47-67 CY P.S. 870 HP D	517,311	121.56	156.51	30.04	52.26	21.72	58.49	28.05	1346
7960	768C PRIME MOVER TRACTOR P.S. 450 HP D	233,183	57.95	74.85	13.63	23.93	11.23	26.82	14.51	506
7965	772B PRIME MOVER TRACTOR P.S. 650 HP D	349,686	88.36	115.35	20.31	35.34	16.22	39.55	20.96	705
	DJB (ARTICULATED FRAME)									
7975	D275B 27.5T 15-20 CY P.S. 235 HP D	189,809	43.12	55.69	10.97	18.98	5.87	21.23	7.58	424
7980	D330B 33T 17-23 CY P.S. 255 HP D	214,225	46.22	58.64	12.56	22.13	6.36	24.81	8.22	444
7985	D350B 35T 20-26 CY P.S. 255 HP D	223,709	49.32	63.31	13.00	22.63	6.36	25.33	8.22	472

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	TRUCKS, OFF-HIGHWAY (CONT'D)									
	DJB (CONT'D) (ARTICULATED FRAME)									
7990	D550 55T 32-43 CY P.S. 450 HP D	374,782	82.72	105.86	21.84	38.14	11.23	42.70	14.51	834
	EUCLID									
8000	R25-215FD 25T 14-19 CY P.S. 214 HP D	164,047	35.73	45.51	9.61	16.89	5.34	18.92	6.90	404
8005	R35-302TD 35T 22-30 CY P.S. 430 HP D	250,763	59.59	76.49	14.72	25.96	10.73	29.11	13.86	623
8010	R50-301LD 50T 31-41 CY P.S. 576 HP D	336,331	81.60	105.63	19.64	34.41	14.38	38.55	18.57	836
8015	R75-301ND 75T 46-69 CY P.S. 646 HP D	449,641	102.24	131.79	26.08	45.32	16.12	50.71	20.83	1123
8020	R85-306ND 85T 52-67 CY P.S. 746 HP D	460,811	108.32	140.12	26.66	46.14	18.62	51.61	24.05	1227
	INTERNATIONAL									
8030	350B 50T 31-42 CY P.S. 580 HP D	348,457	83.33	107.81	20.47	36.14	14.48	40.53	18.70	740
	TEREX									
8040	33-03B 22T 15-18 CY P.S. 215 HP D	142,773	34.78	45.62	8.27	14.34	5.37	16.04	6.93	400
8045	33-05B 30T 19-23 CY P.S. 321 HP D	206,569	48.63	62.74	12.09	21.24	8.01	23.80	10.35	525
8050	33-07 40T 25-32 CY P.S. 493 HP D	262,093	66.48	86.80	15.22	26.47	12.31	29.63	15.89	756
8055	33-09 55T 34-44 CY P.S. 624 HP D	354,254	88.25	115.12	20.58	35.83	15.58	40.10	20.12	992
8060	33-11C 85T 51-65 CY P.S. 840 HP D	485,238	115.40	148.93	28.12	48.79	20.97	54.58	27.08	1227
	WABCO									
8070	HAULPAK35D 35T 23-29 CY P.S. 420 HP D	264,995	62.09	79.79	15.54	27.38	10.48	30.69	13.54	571
8075	HAULPAK50B 50T 31-40 CY P.S. 576 HP D	369,365	86.93	112.10	21.62	37.99	14.38	42.57	18.57	792
8080	HAULPAK60 60T 34-48 CY P.S. 576 HP D	405,802	94.95	123.16	23.67	41.41	14.38	46.38	18.57	850
8085	75B 75T 44-57 CY P.S. 665 HP D	448,688	105.47	136.55	26.20	45.90	16.60	51.42	21.44	915
8090	85D 85T 47-67 CY P.S. 818 HP D	521,504	120.51	155.09	30.29	52.71	20.42	59.00	26.37	1193

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	AVERAGE COND. FUEL	SEVERE COND. OWNER-SHIP	SEVERE COND. FUEL	CWT
	TRUCKS, WATER									
	TRACTOR DRAWN - KLEIN									
8100	KT-50 5000 GAL. CAT 613B P.S. 150 HP D	118,596	27.05	33.20	7.10	11.05	5.93	12.16	7.80	320
8105	KT-60 6000 GAL. CAT 621B P.S. 330 HP D	213,508	52.04	64.18	12.75	19.75	13.04	21.71	17.16	564
8110	KT-80 8000 GAL. CAT 631D P.S. 450 HP D	294,868	71.87	88.71	17.56	27.12	17.78	29.81	23.40	740
8115	KT-100 10000 GAL. CAT 631D P.S. 450 HP D	302,149	72.98	90.00	18.01	27.85	17.78	30.60	23.40	798
8120	KT-100 10000 GAL. CAT 641B P.S. 550 HP D	352,823	86.73	107.11	21.00	32.38	21.74	35.58	28.60	931
8125	KT-120 12000 GAL. CAT 651B P.S. 550 HP D	358,535	87.61	108.14	21.35	32.95	21.74	36.21	28.60	1097
	TRACTOR DRAWN - SOUTHWEST									
8135	STT-60 6000 GAL. CAT 621B P.S. 330 HP D	218,354	52.77	65.05	13.04	20.23	13.04	22.24	17.16	594
8140	STT-80 8000 GAL. CAT 631D P.S. 450 HP D	300,288	72.69	89.67	17.90	27.66	17.78	30.40	23.40	800
8145	STT-100 10000 GAL. CAT 631D P.S. 450 HP D	304,654	73.35	90.45	18.16	28.09	17.78	30.88	23.40	840
8150	STT-120 12000 GAL. CAT 651B P.S. 550 HP D	364,861	88.56	109.26	21.73	33.57	21.74	36.90	28.60	1054
8155	STT-140 14000 GAL. CAT 660B P.S. 550 HP D	368,301	89.09	109.88	21.94	33.92	21.74	37.28	28.60	1089
	WAGONS, BOTTOM DUMP									
	CATERPILLAR-ATHEY									
8165	621B/PW621B 33T 22-26CY P.S. 330 HP D	214,583	56.57	73.57	12.39	22.45	13.04	25.27	17.16	579
8170	768B/PW768C 63T 42-48CY P.S. 450 HP D	327,111	84.11	109.26	18.77	33.78	17.78	37.99	23.40	935
8175	772B/PW772B 100T 60-67CY P.S. 650 HP D	506,710	132.70	175.74	28.84	51.41	25.69	57.75	33.80	1304
	EUCLID									
8185	B30-303TDT301W 30T 21-27CY P.S. 277 HP D	206,640	52.33	67.86	11.93	21.63	10.95	24.34	14.40	483
8190	B70-203LDT147W 70T 47-62CY P.S. 423 HP D	364,599	84.51	107.27	21.24	38.95	16.72	43.91	22.00	934

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	TOTAL HOURLY RATES CONDITION SEVERE	TOTAL HOURLY RATES STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS AVERAGE COND. FUEL	ADJUSTABLE ELEMENTS SEVERE COND. OWNER-SHIP	ADJUSTABLE ELEMENTS SEVERE COND. FUEL	CWT
	WAGONS, REAR DUMP **********									
	CATERPILLAR-ATHEY									
8200	621B/PR621B 30T 20-24CY P.S. 330 HP D	225,879	58.56	76.02	13.05	23.66	13.04	26.63	17.16	590
8205	631D/PR631D 40T 27-32CY P.S. 450 HP D	321,357	81.32	105.02	18.64	33.99	17.78	38.28	23.40	833
	WATER BLASTER **********									
	AMERICAN AERO									
8215	WBD 90 10000 PSI @ 10 GPM W/2 NOZ 91 HP D TRAILER MOUNTED	29,898	17.75		2.35	5.21	5.30			42
8220	WBD150 10000 PSI @ 20 GPM W/2 NOZ 160 HP D TRAILER MOUNTED	45,247	28.56		3.56	7.91	9.32			70
	WATER TANKS **********									
	SKID MOUNTED									
8230	WST-8 8000 GAL. SOUTHWEST	13,534	2.07		0.81	1.47	0.00			107
8235	WST-10 10000 GAL. SOUTHWEST	15,775	2.41		0.95	1.71	0.00			122
8240	WST-12 12000 GAL. SOUTHWEST	18,355	2.80		1.10	1.99	0.00			142
	PORTABLE (WITH WHEELS)									
8250	EWT-8 8000 GAL. SOUTHWEST 8 HP G	24,763	4.70		1.46	2.60	0.68			130
8255	EWT-10 10000 GAL. SOUTHWEST 8 HP G	27,936	5.19		1.65	2.95	0.68			170
8260	EWT-12 12000 GAL. SOUTHWEST 8 HP G	30,996	5.66		1.83	3.28	0.68			185
	WELDERS *******									
	ELECTRIC DRIVE - AC 3 PHASE 60 HZ									
8270	250 AMP SKID MTD 20 HP E	1,868	1.29		0.13	0.25	0.72			7
8275	600 AMP SKID MTD 25 HP E	2,367	1.60		0.16	0.31	0.90			9

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES CONDITION AVERAGE	SEVERE	STAND-BY	ADJUSTABLE ELEMENTS AVERAGE COND. OWNER-SHIP	FUEL	SEVERE COND. OWNER-SHIP	FUEL	CWT
	WELDERS (CONT'D)									
	GASOLINE ENGINE DRIVE									
8285	200 AMP W/1 AXLE TRLR 14 HP G	2,416	2.47		0.18	0.36	1.45			11
8290	250 AMP W/1 AXLE TRLR 65 HP G	4,644	9.67		0.36	0.73	6.74			17
8295	300 AMP W/1 AXLE TRLR 65 HP G	4,756	9.70		0.37	0.75	6.74			17
8300	400 AMP W/1 AXLE TRLR 69 HP G	5,560	10.44		0.43	0.88	7.15			21
8305	650 AMP W/2 AXLE TRLR 85 HP G	7,041	12.91		0.54	1.09	8.81			22
	DIESEL ENGINE DRIVE									
8315	250 AMP W/1 AXLE TRLR 38 HP D	6,104	4.02		0.47	0.96	1.86			21
8320	300 AMP W/1 AXLE TRLR 38 HP D	6,159	4.03		0.47	0.96	1.86			21
8325	350 AMP W/2 AXLE TRLR 63 HP D	7,799	6.02		0.60	1.22	3.08			25
8330	400 AMP W/2 AXLE TRLR 64 HP D	7,589	6.01		0.58	1.18	3.13			30
	MIG									
8340	250AMP W/WIRE FEED AND SHOP GEAR 10 HP E	2,583	0.94		0.17	0.33	0.36			5
8345	300AMP W/WIRE FEED AND SHOP GEAR 20 HP E	2,730	1.44		0.19	0.36	0.72			5
	RECTIFIER									
8355	250 AMP W/SHOP RUNNING GEAR 19 HP E	1,627	1.20		0.12	0.22	0.68			4
8360	300 AMP W/SHOP RUNNING GEAR 24 HP E	1,753	1.44		0.12	0.23	0.86			6
8365	500 AMP W/SHOP RUNNING GEAR 30 HP E	2,231	1.82		0.16	0.30	1.08			7
8370	750 AMP W/SHOP RUNNING GEAR 42 HP E	3,684	2.64		0.26	0.49	1.51			10
	TRANSFORMER-RECTIFIER									
8380	250 AMP W/SHOP RUNNING GEAR 19 HP E	863	1.05		0.06	0.11	0.68			4
8385	300 AMP W/SHOP RUNNING GEAR 24 HP E	1,430	1.39		0.10	0.19	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 50-ton truck crane listed in TABLE 3-1 has a total hourly rate of $45.00 per hour and an ownership rate of $25.00 per hour.

A. If an equivalent crane owned by a contractor had been purchased new in 1978, the total hourly rate can be determined as follows:

Total Hourly Rate	= $45.00/Hr.
Ownership Rate	(-) $25.00/Hr.
Ownership adjusted for Age:	
(Ownership Rate) x (Age Adj. Factor)	
= ($25.00) x (.75)	= (+) $18.75/Hr.
Adjusted Total Hourly Rate	= $38.75/Hr.

B. If an equivalent crane owned by a Contractor had been purchased new in 1969, the total hourly rate can be determined as follows:

Total Hourly Rate	= $45.00/Hr.
Ownership Rate	(-) $25.00/Hr.
Ownership adjusted for Age:	
(Ownership Rate) x (Oldest Age Adj. Factor)	
= ($25.00) x (.36)	= (+) $ 9.00/Hr.
Adjusted Total Hourly Rate	= $29.00/Hr.

C. If an equivalent crane, manufactured in 1969, had been purchased used in 1977 by the Contractor, the crane is over-age and the rate computation would be identical to Example B.

D. If an equivalent crane, manufactured in 1978, had been purchased used in 1981 by the Contractor, the used crane is not over-age and the rate computation would be identical to Example A.

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
15	AGGREGATE SPREADERS	1.14	1.08	1.00	0.92	0.84	0.76	0.70	0.64					
30	AIR COMPRESSORS	1.16	1.08	1.00	1.05	0.97	0.84	0.80	0.72					
45	AIR TOOLS, SANDBLASTERS, ETC	1.16	1.09	1.00										
60	ASPHALT DISTRIBUTORS	1.15	1.09	1.00	0.92	0.83	0.74	0.68	0.62					
65	ASPHALT AND CONCRETE PAVERS	1.14	1.08	1.00	0.92	0.83	0.75	0.69	0.63					
70	ASPHALT KETTLES AND RECYCLERS	1.14	1.09	1.00	0.88	0.76	0.67							
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.14	1.09	1.00	0.89	0.76	0.68	0.61	0.56					
80	BRUSH CHIPPERS	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
90	BUCKETS, CLAMSHELL & DRAGLINE	1.12	1.06	1.00	0.89	0.73	0.65	0.59	0.53					
95	BUCKETS, CONCRETE	1.12	1.06	1.00	0.89	0.73	0.65	0.59	0.53					
105	CONCRETE OR GROUT PUMP	1.14	1.08	1.00	0.89	0.77	0.68							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
125	CONCRETE FINISHERS & BUGGIES	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
135	CONCRETE VIBRATORS	1.16	1.09	1.00										
140	COMPACTORS, MANUALLY OPERATED	1.16	1.08	1.00	1.05	0.97								
	CRANE, CRAWLER TYPE													
150	0 THRU 25 TON	1.14	1.08	1.00	0.91	0.81	0.73	0.67	0.62	0.56	0.44			
165	OVER 25 TON THRU 50 TON	1.13	1.08	1.00	0.92	0.82	0.74	0.68	0.63	0.57	0.45	0.37	0.36	
170	OVER 50 TON THRU 150 TON	1.13	1.08	1.00	0.92	0.82	0.75	0.69	0.64	0.58	0.47	0.39	0.37	0.35
180	OVER 150 TON	1.13	1.07	1.00	0.92	0.82	0.75	0.69	0.65	0.59	0.47	0.40	0.38	0.36
	DRAGLINE & CLAMSHELL,CRAWLER													
185	0 THRU 1 CY	1.13	1.08	1.00	0.92	0.82	0.74	0.68	0.63	0.57				
190	OVER 1 CY THRU 2-1/2 CY	1.13	1.08	1.00	0.92	0.82	0.74	0.69	0.64	0.58	0.46	0.39	0.37	
195	OVER 2-1/2 CY THRU 5 CY	1.13	1.07	1.00	0.92	0.82	0.75	0.69	0.65	0.59	0.47	0.40	0.38	0.36
196	OVER 5 CY	1.13	1.07	1.00	0.92	0.82	0.75	0.69	0.65	0.59	0.47	0.40	0.38	0.36
200	CRANES, HYDRAULIC, SELF-PROPELLED	1.13	1.08	1.00	0.92	0.82	0.74	0.68	0.63	0.57	0.46	0.38	0.36	
	CRANES & HYD. EXC. , TRK MTD													
210	UNDER 26 T. (THRU 1 CY)	1.13	1.08	1.00	0.92	0.82	0.74	0.68	0.63	0.57	0.45	0.37	0.35	
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.13	1.07	1.00	0.92	0.82	0.75	0.69	0.65	0.59	0.47	0.40	0.38	0.36
230	66 THRU 125 T	1.13	1.07	1.00	0.92	0.83	0.75	0.70	0.65	0.59	0.48	0.40	0.39	0.37
240	OVER 125 T	1.13	1.07	1.00	0.92	0.83	0.75	0.70	0.65	0.60	0.49	0.41	0.39	0.38
255	DRILL, AUGER	1.15	1.10	1.00	0.85	0.74	0.68	0.61	0.58					
270	DRILL, BLAST HOLE	1.15	1.10	1.00	0.85	0.74	0.68	0.61	0.58					
300	DRILL, CORE	1.15	1.10	1.00	0.85	0.74	0.68	0.61	0.58					
315	DRILL, ROTARY TO 11" DIA. HOLE	1.14	1.09	1.00	0.86	0.75	0.69	0.62	0.60	0.56	0.49	0.43	0.41	
330	DRILL, ROTARY OVER 11" DIA.	1.14	1.09	1.00	0.86	0.75	0.70	0.63	0.61	0.58	0.50	0.45	0.43	0.42
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.14	1.09	1.00	0.86	0.75	0.70	0.63	0.61	0.58	0.50	0.45	0.43	0.42
375	FORK LIFTS	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
390	GRADERS	1.18	1.11	1.00	0.90	0.79	0.72	0.63	0.58	0.52				
420	GENERATORS	1.20	1.12	1.00	0.86	0.69	0.66	0.59	0.56					
435	HOIST	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
	HYD. EXCAVATOR (SEE KEY NO. 570-601)													
440	LIGHT PLANTS	1.14	1.09	1.00	0.88	0.76	0.67	0.60	0.54					
450	LOADER, BELT	1.15	1.09	1.00	0.88	0.75	0.65	0.58	0.52					
460	LOADER,FRONT END &LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.19	1.11	1.00	0.90	0.79	0.70	0.61	0.54					
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.19	1.12	1.00	0.83	0.71	0.63	0.56	0.51					
470	OVER 225 HP	1.18	1.12	1.00	0.84	0.73	0.65	0.58	0.53	0.50				
475	LOADER, FRONT END WITH BACKHOE,WHEEL TYPE	1.20	1.13	1.00	0.82	0.70	0.62	0.54	0.49					
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.16	1.10	1.00	0.87	0.73								

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW 1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
485	PIPELAYERS	1.19	1.11	1.00	0.90	0.79	0.69	0.61	0.54	0.49				
	PUMP, GROUT (SEE KEY NO. 105)													
495	PUMP, WATER, ENGINE DRIVE	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
500	PUMP, WATER, ELECTRIC DRIVE	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
510	RIPPERS	1.19	1.11	1.00	0.90	0.79	0.70							
525	ROLLERS,EXCEPT VIB. ROLLERS	1.12	1.08	1.00	0.90	0.80	0.71	0.61	0.56					
530	ROLLERS, VIBRATORY	1.13	1.08	1.00	0.89	0.80	0.70							
540	SCRAPERS, STANDARD	1.17	1.10	1.00	0.90	0.79	0.73	0.64	0.59					
542	SCRAPERS, TANDEM POWERED	1.17	1.10	1.00	0.90	0.79	0.73	0.64	0.59					
	SCRAPERS, ELEVATING													
545	0 THRU 200 HP	1.18	1.11	1.00	0.90	0.79	0.72	0.63	0.58					
550	OVER 200 HP	1.18	1.11	1.00	0.90	0.79	0.72	0.63	0.58					
555	SCRAPERS, TRACTOR DRAWN	1.17	1.10	1.00	0.90	0.80	0.73	0.65	0.60	0.55				
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED													
570	0 THRU 1 CY	1.14	1.08	1.00	0.92	0.81	0.74	0.68	0.63	0.57				
585	OVER 1 CY THRU 2-1/2 CY	1.13	1.08	1.00	0.92	0.82	0.74	0.68	0.63	0.57	0.46			
595	OVER 2-1/2 CY THRU 5 CY	1.13	1.08	1.00	0.92	0.82	0.75	0.69	0.64	0.58	0.47	0.39	0.37	
600	OVER 5 CY	1.13	1.07	1.00	0.92	0.82	0.75	0.69	0.65	0.59	0.47	0.40	0.38	0.36
601	OVER 2-1/2 CY ELECTRIC	1.13	1.07	1.00	0.92	0.83	0.76	0.70	0.65	0.60	0.49	0.41	0.39	0.38
	TRACTOR, CRAWLER TYPE													
615	0 THRU 225 HP	1.20	1.11	1.00	0.90	0.78	0.68	0.60	0.53					
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.19	1.11	1.00	0.90	0.79	0.70	0.62	0.56	0.51				
625	OVER 425 HP	1.18	1.10	1.00	0.91	0.80	0.72	0.64	0.58	0.53	0.42	0.34		
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.19	1.11	1.00	0.90	0.80	0.71	0.63	0.56					
645	TRACTOR, WHEEL TYPE	1.14	1.10	1.00	0.88	0.75	0.66	0.59	0.53					
650	TRENCHER	1.29	1.16	1.00	0.85	0.72	0.66	0.56	0.43					
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.13	1.08	1.00	0.89	0.77	0.69	0.62	0.57					
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.15	1.09	1.00	0.87	0.74	0.65	0.57	0.51					
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING													
670	DUMP BODIES	1.14	1.08	1.00	0.89	0.77	0.68							
675	ALL OTHER ACCESSORIES	1.14	1.08	1.00	0.89	0.77	0.68							
	TRUCK, HIGHWAY													
690	0 THRU 10,000 GVW	1.17	1.08	1.00	0.86	0.76	0.68							
695	OVER 10,000 THRU 30,000 GVW	1.17	1.08	1.00	0.86	0.76	0.68							
705	OVER 30,000 GVW	1.17	1.08	1.00	0.86	0.76	0.68							
720	TRUCK, OFF-HIGHWAY	1.14	1.10	1.00	0.87	0.74	0.67	0.61	0.57	0.54				
765	WAGON, BOTTOM & REAR DUMP	1.14	1.10	1.00	0.87	0.75	0.68	0.62	0.59	0.55				
780	WAGON, WATER	1.16	1.11	1.00	0.85	0.72	0.63	0.57	0.53	0.49				
785	WATER BLASTER	1.14	1.09	1.00	0.88	0.76								
795	WATER TANKS	1.13	1.08	1.00	0.89	0.78	0.70	0.63	0.58	0.53				
810	WELDERS	1.15	1.09	1.00	0.87	0.74								
811	WELDERS ELECTRIC POWER	1.15	1.09	1.00	0.88	0.75	0.66							

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

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

Example: Assume that a two-year old 50-ton truck crane listed in TABLE 3-1 has an hourly standby rate of $16.00 per hour. If an equivalent crane owned by a Contractor had been purchased new in 1978, the hourly standby rate can be determined as follows:

Hourly Standby Rate	= $16.00/Hr.
Standby Adjusted for Age (Standby Rate) x (Age Adj. Factor) = ($16.00) x (.78)	= $12.48/Hr.

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW 1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
15	AGGREGATE SPREADERS	1.12	1.07	1.00	0.93	0.86	0.79	0.74	0.69					
30	AIR COMPRESSORS	1.13	1.07	1.00	1.04	0.97	0.87	0.83	0.76					
45	AIR TOOLS, SANDBLASTERS, ETC	1.15	1.08	1.00										
60	ASPHALT DISTRIBUTORS	1.12	1.07	1.00	0.93	0.86	0.79	0.74	0.69					
65	ASPHALT AND CONCRETE PAVERS	1.12	1.07	1.00	0.93	0.86	0.79	0.74	0.69					
70	ASPHALT KETTLES AND RECYCLERS	1.12	1.07	1.00	0.90	0.80	0.72							
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
80	BRUSH CHIPPERS	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
90	BUCKETS, CLAMSHELL & DRAGLINE	1.11	1.05	1.00	0.90	0.76	0.69	0.64	0.59					
95	BUCKETS, CONCRETE	1.11	1.05	1.00	0.90	0.76	0.69	0.64	0.59					
105	CONCRETE OR GROUT PUMP	1.12	1.07	1.00	0.90	0.80	0.72							
120	CONCREIE GUNITE EQUIPMENT & FLUID GROUTERS	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
125	CONCRETE FINISHERS & BUGGIES	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
135	CONCRETE VIBRATORS	1.15	1.08	1.00										
140	COMPACTORS, MANUALLY OPERATED	1.14	1.07	1.00	1.04	0.97								
	CRANE, CRAWLER TYPE													
150	0 THRU 25 TON	1.11	1.07	1.00	0.93	0.84	0.78	0.73	0.68	0.63	0.53			
165	OVER 25 TON THRU 50 TON	1.11	1.07	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.54	0.47	0.46	
170	OVER 50 TON THRU 150 TON	1.11	1.06	1.00	0.93	0.85	0.79	0.74	0.70	0.65	0.55	0.48	0.47	0.45
180	OVER 150 TON	1.11	1.06	1.00	0.93	0.85	0.79	0.74	0.70	0.65	0.55	0.49	0.48	0.46
	DRAGLINE & CLAMSHELL,CRAWLER													
185	0 THRU 1 CY	1.12	1.07	1.00	0.93	0.84	0.77	0.72	0.68	0.63				
190	OVER 1 CY THRU 2-1/2 CY	1.11	1.07	1.00	0.93	0.84	0.78	0.73	0.69	0.63	0.53	0.46	0.45	
195	OVER 2-1/2 CY THRU 5 CY	1.11	1.06	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.54	0.47	0.46	0.45
196	OVER 5 CY	1.11	1.06	1.00	0.93	0.85	0.79	0.74	0.70	0.65	0.55	0.49	0.48	0.46
200	CRANES, HYDRAULIC, SELF-PROPELLED	1.11	1.06	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.54	0.48	0.46	
	CRANES & HYD. EXC. , TRK MTD													
210	UNDER 26 T. (THRU 1 CY)	1.11	1.07	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.54	0.47	0.46	
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.11	1.06	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.54	0.47	0.46	0.45
230	66 THRU 125 T	1.11	1.06	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.55	0.48	0.47	0.45
240	OVER 125 T	1.11	1.06	1.00	0.93	0.85	0.79	0.74	0.70	0.65	0.55	0.48	0.47	0.46
255	DRILL, AUGER	1.13	1.08	1.00	0.87	0.77	0.72	0.66	0.63					
270	DRILL, BLAST HOLE	1.13	1.08	1.00	0.87	0.77	0.72	0.66	0.63					
300	DRILL, CORE	1.13	1.08	1.00	0.87	0.77	0.72	0.66	0.63					
315	DRILL, ROTARY TO 11" DIA. HOLE	1.12	1.08	1.00	0.88	0.78	0.73	0.67	0.65	0.62	0.55	0.51	0.49	
330	DRILL, ROTARY OVER 11" DIA.	1.12	1.08	1.00	0.88	0.78	0.74	0.68	0.66	0.63	0.57	0.52	0.50	0.49
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.12	1.08	1.00	0.88	0.78	0.74	0.68	0.66	0.63	0.57	0.52	0.50	0.49
375	FORK LIFTS	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
390	GRADERS	1.14	1.08	1.00	0.92	0.83	0.77	0.71	0.66	0.62				
420	GENERATORS	1.15	1.09	1.00	0.89	0.76	0.73	0.68	0.66					
435	HOIST	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
	HYD. EXCAVATOR (SEE KEY NO. 570-601)													
440	LIGHT PLANTS	1.11	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
450	LOADER, BELT	1.11	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
460	LOADER,FRONT END &LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.16	1.09	1.00	0.92	0.82	0.75	0.68	0.62					
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.16	1.10	1.00	0.86	0.76	0.70	0.63	0.59					
470	OVER 225 HP	1.16	1.10	1.00	0.86	0.77	0.70	0.64	0.60	0.57				
475	LOADER, FRONT END WITH BACKHOE,WHEEL TYPE	1.16	1.10	1.00	0.86	0.76	0.70	0.63	0.59					
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.13	1.08	1.00	0.89	0.78								

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW 1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
485	PIPELAYERS	1.16	1.09	1.00	0.92	0.83	0.75	0.69	0.63	0.59				
	PUMP, GROUT (SEE KEY NO. 105)													
495	PUMP, WATER, ENGINE DRIVE	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
500	PUMP, WATER, ELECTRIC DRIVE	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
510	RIPPERS	1.17	1.09	1.00	0.91	0.82	0.74							
525	ROLLERS,EXCEPT VIB. ROLLERS	1.10	1.07	1.00	0.91	0.83	0.75	0.67	0.63					
530	ROLLERS, VIBRATORY	1.11	1.07	1.00	0.91	0.83	0.75							
540	SCRAPERS, STANDARD	1.15	1.09	1.00	0.91	0.82	0.76	0.69	0.65					
542	SCRAPERS, TANDEM POWERED	1.15	1.09	1.00	0.91	0.82	0.76	0.69	0.65					
	SCRAPERS, ELEVATING													
545	0 THRU 200 HP	1.15	1.09	1.00	0.91	0.82	0.76	0.70	0.65					
550	OVER 200 HP	1.15	1.09	1.00	0.91	0.82	0.76	0.70	0.65					
555	SCRAPERS, TRACTOR DRAWN	1.14	1.09	1.00	0.92	0.83	0.77	0.70	0.66	0.61				
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED													
570	0 THRU 1 CY	1.12	1.07	1.00	0.93	0.84	0.77	0.72	0.68	0.62				
585	OVER 1 CY THRU 2-1/2 CY	1.12	1.07	1.00	0.93	0.84	0.77	0.72	0.68	0.63	0.53			
595	OVER 2-1/2 CY THRU 5 CY	1.11	1.07	1.00	0.93	0.84	0.78	0.73	0.69	0.64	0.54	0.47	0.45	
600	OVER 5 CY	1.11	1.06	1.00	0.93	0.85	0.78	0.73	0.69	0.64	0.54	0.47	0.46	0.45
601	OVER 2-1/2 CY ELECTRIC	1.11	1.06	1.00	0.93	0.85	0.79	0.74	0.70	0.65	0.55	0.48	0.47	0.45
	TRACTOR, CRAWLER TYPE													
615	0 THRU 225 HP	1.16	1.09	1.00	0.92	0.82	0.75	0.68	0.62					
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.16	1.09	1.00	0.92	0.83	0.75	0.68	0.63	0.59				
625	OVER 425 HP	1.16	1.09	1.00	0.92	0.83	0.75	0.69	0.63	0.59	0.50	0.43		
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.16	1.09	1.00	0.92	0.82	0.74	0.68	0.62					
645	TRACTOR, WHEEL TYPE	1.12	1.08	1.00	0.90	0.80	0.72	0.66	0.61					
650	TRENCHER	1.24	1.13	1.00	0.87	0.77	0.72	0.64	0.53					
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.12	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.11	1.07	1.00	0.90	0.80	0.73	0.67	0.63					
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING													
670	DUMP BODIES	1.12	1.07	1.00	0.90	0.80	0.72							
675	ALL OTHER ACCESSORIES	1.12	1.07	1.00	0.90	0.80	0.72							
	TRUCK, HIGHWAY													
690	0 THRU 10,000 GVW	1.14	1.07	1.00	0.88	0.80	0.73							
695	OVER 10,000 THRU 30,000 GVW	1.14	1.07	1.00	0.88	0.80	0.73							
705	OVER 30,000 GVW	1.14	1.07	1.00	0.88	0.80	0.73							
720	TRUCK, OFF-HIGHWAY	1.12	1.09	1.00	0.89	0.78	0.71	0.66	0.63	0.60				
765	WAGON, BOTTOM & REAR DUMP	1.12	1.09	1.00	0.88	0.78	0.71	0.66	0.63	0.60				
780	WAGON, WATER	1.12	1.09	1.00	0.89	0.78	0.72	0.67	0.64	0.61				
785	WATER BLASTER	1.12	1.08	1.00	0.90	0.79								
795	WATER TANKS	1.11	1.07	1.00	0.91	0.81	0.73	0.68	0.63	0.59				
810	WELDERS	1.13	1.08	1.00	0.90	0.78								
811	WELDERS ELECTRIC POWER	1.12	1.07	1.00	0.90	0.80	0.72							

TABLE 3-4. SHIFT ADJUSTMENT FACTORS FOR OWNERSHIP COSTS

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

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

Total Hourly Rate (adjusted for age)	= $38.75/Hr.
Ownership Rate (adjusted for age)	(-) $18.75/Hr.
Ownership Adjusted for Work Hours (Ownership Rate) x (Work Hr Adj. Factor) = ($18.75) x (.83)	= (+) $15.56/Hr.
Adjusted Total Hourly Rate	= $35.56/Hr.

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

Service Life From APP. D	Equipment Useage - Hours per Week												
	40	45	48	54	60	66	72	80	90	100	110	120	140
4,000	1.00	0.98	0.96	0.95	0.93	0.92	0.91	0.89	0.88	0.87	0.87	0.86	0.85
6,000	1.00	0.97	0.95	0.93	0.91	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.80
8,000	1.00	0.96	0.95	0.91	0.89	0.87	0.85	0.84	0.82	0.80	0.79	0.78	0.77
9,000	1.00	0.96	0.94	0.91	0.88	0.86	0.84	0.82	0.80	0.79	0.78	0.76	0.75
10,000	1.00	0.96	0.94	0.90	0.87	0.85	0.83	0.81	0.79	0.77	0.76	0.75	0.73
11,000	1.00	0.96	0.93	0.90	0.87	0.84	0.82	0.80	0.78	0.76	0.75	0.74	0.72
12,000	1.00	0.95	0.93	0.89	0.86	0.84	0.82	0.79	0.77	0.75	0.74	0.72	0.70
13,000	1.00	0.95	0.93	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.72	0.71	0.69
14,000	1.00	0.95	0.92	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.71	0.70	0.68
15,000	1.00	0.95	0.92	0.88	0.84	0.82	0.79	0.77	0.74	0.72	0.70	0.69	0.67
16,000	1.00	0.95	0.92	0.87	0.84	0.81	0.79	0.76	0.73	0.71	0.69	0.68	0.66
18,000	1.00	0.94	0.91	0.87	0.83	0.80	0.77	0.74	0.72	0.69	0.67	0.66	0.63
20,000	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
22,000	1.00	0.94	0.91	0.86	0.81	0.78	0.75	0.72	0.69	0.66	0.64	0.63	0.60
50,000	1.00	0.92	0.88	0.81	0.75	0.71	0.67	0.63	0.59	0.56	0.53	0.51	0.47

TABLE 3-5. HOURLY RATE ELEMENT

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
1010	3.51	2.06	12.21	2.93	0.22	0.03	3.36	24.32								
1015	3.94	2.30	4.46	1.07	0.22	0.03	3.76	15.78								
1030	0.63	0.41	3.63	1.16	0.02	0.00	0.66	6.51								
1035	0.75	0.49	1.50	0.42	0.02	0.00	0.78	3.96								
1040	0.79	0.52	4.22	1.35	0.02	0.00	0.83	7.73								
1045	0.95	0.62	1.74	0.49	0.02	0.00	0.99	4.81								
1050	0.97	0.63	5.91	1.89	0.02	0.00	1.01	10.43								
1055	1.03	0.67	2.02	0.56	0.02	0.00	1.08	5.38								
1060	1.06	0.69	5.91	1.89	0.02	0.00	1.11	10.68								
1065	1.21	0.78	2.73	0.76	0.02	0.00	1.26	6.76								
1070	1.10	0.71	5.91	1.89	0.02	0.00	1.14	10.77								
1075	1.30	0.84	2.73	0.76	0.02	0.00	1.35	7.00								
1080	1.93	1.25	3.71	1.04	0.03	0.00	2.01	9.97								
1085	2.34	1.55	4.07	1.14	0.13	0.02	2.45	11.70								
1090	3.06	2.00	6.01	1.68	0.13	0.02	3.20	16.10								
1095	4.14	2.71	6.92	1.94	0.15	0.02	4.33	20.21								
1100	4.81	3.14	9.01	2.52	0.15	0.02	5.03	24.68								
1105	5.49	3.57	9.88	2.77	0.15	0.02	5.73	27.81								
1110	6.02	3.91	10.67	2.99	0.15	0.02	6.28	30.04								
1115	6.73	4.37	11.18	3.13	0.15	0.02	7.02	32.60								
1120	8.07	5.23	12.84	3.60	0.15	0.02	8.42	38.33								
1125	9.12	5.92	18.02	5.05	0.18	0.03	9.52	47.84								
1140	0.25	0.06	0.00	0.06	0.00	0.00	0.51	0.88								
1145	0.46	0.12	0.00	0.06	0.00	0.00	0.96	1.60								
1150	0.47	0.12	0.00	0.06	0.00	0.00	0.97	1.62								
1155	0.52	0.13	0.00	0.12	0.00	0.00	1.07	1.84								
1160	0.69	0.18	0.00	0.12	0.00	0.00	1.43	2.42								
1165	1.94	0.52	0.00	0.25	0.05	0.01	4.05	6.82								
1170	2.26	0.62	0.00	0.35	0.13	0.02	4.75	8.13								
1175	2.85	0.77	0.00	0.45	0.13	0.02	5.97	10.19								
1185	0.18	0.05	0.00	0.06	0.00	0.00	0.37	0.66								
1190	0.39	0.10	0.00	0.10	0.00	0.00	0.80	1.39								
1195	0.18	0.05	0.00	0.06	0.00	0.00	0.38	0.67								
1200	0.19	0.05	0.00	0.06	0.00	0.00	0.40	0.70								
1205	0.21	0.05	0.00	0.06	0.00	0.00	0.44	0.76								
1210	0.72	0.18	0.00	0.12	0.00	0.00	1.48	2.50								
1220	0.35	0.09	0.00	0.14	0.00	0.00	1.19	1.77								
1225	0.22	0.06	0.00	0.12	0.00	0.00	0.76	1.16								
1230	0.20	0.05	0.00	0.09	0.00	0.00	0.69	1.03								
1235	0.18	0.05	0.00	0.07	0.00	0.00	0.62	0.92								
1240	0.14	0.04	0.00	0.06	0.00	0.00	0.48	0.72								
1250	1.55	1.11	4.22	1.35	0.00	0.00	2.09	10.32								
1255	1.61	1.15	4.22	1.35	0.00	0.00	2.17	10.50								
1260	1.72	1.23	4.22	1.35	0.00	0.00	2.32	10.84								
1265	1.98	1.42	4.22	1.35	0.00	0.00	2.67	11.64								
1275	5.61	3.67	2.77	0.77	0.33	0.05	7.44	20.64								
1280	7.98	5.34	3.75	1.05	0.93	0.14	10.65	29.84								
1285	9.16	6.12	5.14	1.44	1.06	0.16	12.22	35.30								
1290	11.56	7.37	5.14	1.44	0.00	0.00	15.22	40.73								
1300	2.78	1.87	1.19	0.33	0.36	0.05	3.72	10.30								
1305	4.14	2.74	1.74	0.49	0.36	0.05	5.50	15.02								
1310	5.62	3.72	2.29	0.64	0.48	0.07	7.48	20.30								
1315	6.63	4.48	3.44	0.96	0.93	0.14	8.88	25.46								
1320	7.69	5.20	4.23	1.18	1.13	0.17	10.30	29.90								
1325	10.63	7.32	5.85	1.64	2.08	0.31	14.30	42.13								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
1330	7.58	4.84	3.00	0.84	0.00	0.00	9.98	26.24								
1335	9.27	5.91	4.23	1.18	0.00	0.00	12.21	32.80								
1345	0.29	0.16	0.00	0.90	0.02	0.00	0.34	1.71								
1350	0.34	0.18	0.00	1.00	0.02	0.00	0.40	1.94								
1360	0.81	0.43	0.68	1.65	0.02	0.00	0.95	4.54								
1370	0.37	0.24	0.00	0.17	0.02	0.00	0.44	1.24								
1375	0.50	0.32	2.53	0.61	0.02	0.00	0.59	4.57								
1380	0.17	0.11	0.00	0.17	0.00	0.00	0.20	0.65								
1385	0.29	0.19	0.00	0.11	0.00	0.00	0.34	0.93								
1395	0.78	0.45	8.89	2.85	0.02	0.00	0.95	13.94								
1400	0.90	0.52	9.72	3.11	0.02	0.00	1.10	15.37								
1405	0.39	0.22	0.00	0.25	0.00	0.00	0.48	1.34								
1415	0.69	0.39	0.00	0.00	0.00	0.00	0.64	1.72	0.85	0.40	0.00	0.00	0.00	0.00	0.92	2.18
1420	0.80	0.45	0.00	0.00	0.00	0.00	0.75	2.00	1.00	0.46	0.00	0.00	0.00	0.00	1.07	2.53
1425	1.18	0.67	0.00	0.00	0.00	0.00	1.10	2.95	1.47	0.68	0.00	0.00	0.00	0.00	1.58	3.73
1430	1.33	0.76	0.00	0.00	0.00	0.00	1.25	3.34	1.66	0.77	0.00	0.00	0.00	0.00	1.78	4.21
1435	1.73	0.99	0.00	0.00	0.00	0.00	1.63	4.35	2.17	1.00	0.00	0.00	0.00	0.00	2.32	5.49
1440	1.84	1.04	0.00	0.00	0.00	0.00	1.72	4.60	2.23	1.06	0.00	0.00	0.00	0.00	2.46	5.81
1445	1.88	1.07	0.00	0.00	0.00	0.00	1.76	4.71	2.35	1.09	0.00	0.00	0.00	0.00	2.52	5.96
1450	2.07	1.18	0.00	0.00	0.00	0.00	1.94	5.19	2.58	1.20	0.00	0.00	0.00	0.00	2.77	6.55
1455	2.23	1.27	0.00	0.00	0.00	0.00	2.10	5.60	2.79	1.30	0.00	0.00	0.00	0.00	3.00	7.09
1460	2.42	1.38	0.00	0.00	0.00	0.00	2.27	6.07	3.02	1.40	0.00	0.00	0.00	0.00	3.24	7.66
1465	2.61	1.48	0.00	0.00	0.00	0.00	2.45	6.54	3.26	1.51	0.00	0.00	0.00	0.00	3.50	8.27
1470	2.70	1.54	0.00	0.00	0.00	0.00	2.54	6.78	3.38	1.57	0.00	0.00	0.00	0.00	3.62	8.57
1475	2.92	1.66	0.00	0.00	0.00	0.00	2.74	7.32	3.65	1.69	0.00	0.00	0.00	0.00	3.92	9.26
1480	3.01	1.71	0.00	0.00	0.00	0.00	2.83	7.55	3.76	1.75	0.00	0.00	0.00	0.00	4.04	9.55
1485	3.12	1.78	0.00	0.00	0.00	0.00	2.93	7.83	3.90	1.81	0.00	0.00	0.00	0.00	4.19	9.90
1495	0.72	0.41	0.00	0.00	0.00	0.00	0.67	1.80	0.90	0.42	0.00	0.00	0.00	0.00	0.96	2.28
1500	0.97	0.55	0.00	0.00	0.00	0.00	0.91	2.43	1.21	0.56	0.00	0.00	0.00	0.00	1.30	3.07
1505	1.41	0.80	0.00	0.00	0.00	0.00	1.32	3.53	1.76	0.82	0.00	0.00	0.00	0.00	1.89	4.47
1510	1.52	0.87	0.00	0.00	0.00	0.00	1.43	3.82	1.90	0.88	0.00	0.00	0.00	0.00	2.04	4.82
1515	1.93	1.10	0.00	0.00	0.00	0.00	1.82	4.85	2.42	1.12	0.00	0.00	0.00	0.00	2.59	6.13
1520	2.11	1.20	0.00	0.00	0.00	0.00	1.99	5.30	2.64	1.23	0.00	0.00	0.00	0.00	2.84	6.71
1525	2.28	1.30	0.00	0.00	0.00	0.00	2.14	5.72	2.85	1.32	0.00	0.00	0.00	0.00	3.06	7.23
1530	2.45	1.39	0.00	0.00	0.00	0.00	2.30	6.14	3.06	1.42	0.00	0.00	0.00	0.00	3.29	7.77
1535	2.63	1.50	0.00	0.00	0.00	0.00	2.47	6.60	3.29	1.53	0.00	0.00	0.00	0.00	3.53	8.35
1540	2.90	1.65	0.00	0.00	0.00	0.00	2.72	7.27	3.62	1.68	0.00	0.00	0.00	0.00	3.88	9.18
1545	3.05	1.74	0.00	0.00	0.00	0.00	2.87	7.66	3.82	1.77	0.00	0.00	0.00	0.00	4.10	9.69
1550	3.23	1.84	0.00	0.00	0.00	0.00	3.03	8.10	4.04	1.87	0.00	0.00	0.00	0.00	4.33	10.24
1555	3.37	1.91	0.00	0.00	0.00	0.00	3.16	8.44	4.21	1.95	0.00	0.00	0.00	0.00	4.52	10.68
1560	3.51	1.99	0.00	0.00	0.00	0.00	3.29	8.79	4.38	2.03	0.00	0.00	0.00	0.00	4.70	11.11
1565	3.65	2.07	0.00	0.00	0.00	0.00	3.42	9.14	4.56	2.11	0.00	0.00	0.00	0.00	4.89	11.56
1575	1.09	0.62	0.00	0.00	0.00	0.00	1.02	2.73	1.36	0.63	0.00	0.00	0.00	0.00	1.46	3.45
1580	1.11	0.63	0.00	0.00	0.00	0.00	1.04	2.78	1.39	0.64	0.00	0.00	0.00	0.00	1.49	3.52
1585	1.65	0.94	0.00	0.00	0.00	0.00	1.55	4.14	2.06	0.96	0.00	0.00	0.00	0.00	2.21	5.23
1590	1.99	1.13	0.00	0.00	0.00	0.00	1.87	4.99	2.49	1.16	0.00	0.00	0.00	0.00	2.67	6.32
1595	2.22	1.26	0.00	0.00	0.00	0.00	2.09	5.57	2.78	1.29	0.00	0.00	0.00	0.00	2.98	7.05
1600	2.41	1.37	0.00	0.00	0.00	0.00	2.27	6.05	3.02	1.40	0.00	0.00	0.00	0.00	3.24	7.66
1605	2.54	1.44	0.00	0.00	0.00	0.00	2.38	6.36	3.17	1.47	0.00	0.00	0.00	0.00	3.40	8.04
1610	2.69	1.53	0.00	0.00	0.00	0.00	2.52	6.74	3.36	1.56	0.00	0.00	0.00	0.00	3.60	8.52
1615	2.81	1.60	0.00	0.00	0.00	0.00	2.64	7.05	3.52	1.63	0.00	0.00	0.00	0.00	3.77	8.92
1620	3.02	1.72	0.00	0.00	0.00	0.00	2.83	7.57	3.77	1.75	0.00	0.00	0.00	0.00	4.05	9.57
1625	3.19	1.82	0.00	0.00	0.00	0.00	3.00	8.01	3.99	1.85	0.00	0.00	0.00	0.00	4.29	10.13
1630	3.36	1.91	0.00	0.00	0.00	0.00	3.15	8.42	4.20	1.95	0.00	0.00	0.00	0.00	4.50	10.65
1635	3.64	2.07	0.00	0.00	0.00	0.00	3.42	9.13	4.55	2.11	0.00	0.00	0.00	0.00	4.88	11.54

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
1640	3.75	2.13	0.00	0.00	0.00	0.00	3.52	9.40	4.68	2.17	0.00	0.00	0.00	0.00	5.03	11.88
1645	3.92	2.23	0.00	0.00	0.00	0.00	3.69	9.84	4.91	2.28	0.00	0.00	0.00	0.00	5.26	12.45
1655	0.10	0.06	0.00	0.00	0.00	0.00	0.10	0.26								
1660	0.13	0.07	0.00	0.00	0.00	0.00	0.12	0.32								
1665	0.17	0.10	0.00	0.00	0.00	0.00	0.16	0.43								
1670	0.24	0.14	0.00	0.00	0.00	0.00	0.22	0.60								
1675	0.30	0.17	0.00	0.00	0.00	0.00	0.28	0.75								
1685	0.45	0.26	0.00	0.00	0.00	0.00	0.42	1.13								
1690	0.47	0.27	0.00	0.00	0.00	0.00	0.44	1.18								
1695	0.49	0.28	0.00	0.00	0.00	0.00	0.46	1.23								
1700	0.63	0.36	0.00	0.00	0.00	0.00	0.60	1.59								
1705	0.66	0.37	0.00	0.00	0.00	0.00	0.62	1.65								
1710	0.95	0.54	0.00	0.00	0.00	0.00	0.89	2.38								
1715	1.14	0.65	0.00	0.00	0.00	0.00	1.07	2.86								
1725	0.51	0.29	0.00	0.00	0.00	0.00	0.48	1.28								
1730	0.58	0.33	0.00	0.00	0.00	0.00	0.55	1.46								
1735	0.66	0.38	0.00	0.00	0.00	0.00	0.62	1.66								
1740	0.74	0.42	0.00	0.00	0.00	0.00	0.69	1.85								
1745	0.86	0.49	0.00	0.00	0.00	0.00	0.81	2.16								
1760	0.23	0.13	0.00	0.00	0.00	0.00	0.22	0.58	0.29	0.13	0.00	0.00	0.00	0.00	0.31	0.73
1765	0.27	0.15	0.00	0.00	0.00	0.00	0.26	0.68	0.34	0.16	0.00	0.00	0.00	0.00	0.36	0.86
1770	0.33	0.19	0.00	0.00	0.00	0.00	0.31	0.83	0.41	0.19	0.00	0.00	0.00	0.00	0.44	1.04
1775	0.39	0.22	0.00	0.00	0.00	0.00	0.37	0.98	0.49	0.23	0.00	0.00	0.00	0.00	0.53	1.25
1780	0.46	0.26	0.00	0.00	0.00	0.00	0.43	1.15	0.57	0.27	0.00	0.00	0.00	0.00	0.62	1.46
1785	0.57	0.32	0.00	0.00	0.00	0.00	0.53	1.42	0.71	0.33	0.00	0.00	0.00	0.00	0.76	1.80
1790	0.63	0.36	0.00	0.00	0.00	0.00	0.59	1.58	0.78	0.36	0.00	0.00	0.00	0.00	0.84	1.98
1795	0.76	0.43	0.00	0.00	0.00	0.00	0.72	1.91	0.95	0.44	0.00	0.00	0.00	0.00	1.02	2.41
1800	0.81	0.46	0.00	0.00	0.00	0.00	0.76	2.03	1.01	0.47	0.00	0.00	0.00	0.00	1.09	2.57
1805	0.98	0.56	0.00	0.00	0.00	0.00	0.92	2.46	1.22	0.57	0.00	0.00	0.00	0.00	1.31	3.10
1810	1.06	0.60	0.00	0.00	0.00	0.00	1.00	2.66	1.33	0.62	0.00	0.00	0.00	0.00	1.42	3.37
1815	1.16	0.66	0.00	0.00	0.00	0.00	1.09	2.91	1.45	0.67	0.00	0.00	0.00	0.00	1.56	3.68
1820	1.29	0.73	0.00	0.00	0.00	0.00	1.21	3.23	1.61	0.75	0.00	0.00	0.00	0.00	1.72	4.08
1825	1.48	0.84	0.00	0.00	0.00	0.00	1.39	3.71	1.86	0.86	0.00	0.00	0.00	0.00	1.99	4.71
1830	1.61	0.92	0.00	0.00	0.00	0.00	1.51	4.04	2.02	0.94	0.00	0.00	0.00	0.00	2.16	5.12
1835	1.98	1.13	0.00	0.00	0.00	0.00	1.86	4.97	2.48	1.15	0.00	0.00	0.00	0.00	2.66	6.29
1840	2.28	1.30	0.00	0.00	0.00	0.00	2.14	5.72	2.85	1.32	0.00	0.00	0.00	0.00	3.06	7.23
1850	0.27	0.15	0.00	0.00	0.00	0.00	0.25	0.67	0.33	0.16	0.00	0.00	0.00	0.00	0.36	0.85
1855	0.33	0.19	0.00	0.00	0.00	0.00	0.31	0.83	0.41	0.19	0.00	0.00	0.00	0.00	0.44	1.04
1860	0.41	0.23	0.00	0.00	0.00	0.00	0.38	1.02	0.51	0.23	0.00	0.00	0.00	0.00	0.54	1.28
1865	0.48	0.27	0.00	0.00	0.00	0.00	0.45	1.20	0.60	0.28	0.00	0.00	0.00	0.00	0.65	1.53
1870	0.56	0.32	0.00	0.00	0.00	0.00	0.52	1.40	0.70	0.32	0.00	0.00	0.00	0.00	0.75	1.77
1875	0.66	0.38	0.00	0.00	0.00	0.00	0.62	1.66	0.83	0.39	0.00	0.00	0.00	0.00	0.89	2.11
1880	0.73	0.42	0.00	0.00	0.00	0.00	0.69	1.84	0.92	0.43	0.00	0.00	0.00	0.00	0.99	2.34
1885	0.88	0.50	0.00	0.00	0.00	0.00	0.83	2.21	1.10	0.51	0.00	0.00	0.00	0.00	1.18	2.79
1890	0.94	0.54	0.00	0.00	0.00	0.00	0.89	2.37	1.18	0.55	0.00	0.00	0.00	0.00	1.26	2.99
1895	1.21	0.69	0.00	0.00	0.00	0.00	1.13	3.03	1.51	0.70	0.00	0.00	0.00	0.00	1.62	3.83
1900	1.25	0.71	0.00	0.00	0.00	0.00	1.17	3.13	1.56	0.72	0.00	0.00	0.00	0.00	1.67	3.95
1905	1.42	0.81	0.00	0.00	0.00	0.00	1.34	3.57	1.78	0.83	0.00	0.00	0.00	0.00	1.91	4.52
1910	1.57	0.89	0.00	0.00	0.00	0.00	1.47	3.93	1.96	0.91	0.00	0.00	0.00	0.00	2.10	4.97
1915	1.88	1.07	0.00	0.00	0.00	0.00	1.76	4.71	2.35	1.09	0.00	0.00	0.00	0.00	2.52	5.96
1920	2.00	1.14	0.00	0.00	0.00	0.00	1.88	5.02	2.50	1.16	0.00	0.00	0.00	0.00	2.68	6.34
1925	2.55	1.45	0.00	0.00	0.00	0.00	2.39	6.39	3.19	1.48	0.00	0.00	0.00	0.00	3.42	8.09
1930	2.84	1.61	0.00	0.00	0.00	0.00	2.66	7.11	3.55	1.65	0.00	0.00	0.00	0.00	3.81	9.01
1940	1.07	0.61	0.00	0.00	0.00	0.00	1.00	2.68	1.34	0.62	0.00	0.00	0.00	0.00	1.43	3.39
1945	1.11	0.63	0.00	0.00	0.00	0.00	1.04	2.78	1.39	0.64	0.00	0.00	0.00	0.00	1.49	3.52

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
1950	1.24	0.71	0.00	0.00	0.00	0.00	1.17	3.12	1.56	0.72	0.00	0.00	0.00	0.00	1.67	3.95
1955	1.66	0.95	0.00	0.00	0.00	0.00	1.56	4.17	2.08	0.96	0.00	0.00	0.00	0.00	2.23	5.27
1960	1.86	1.06	0.00	0.00	0.00	0.00	1.75	4.67	2.33	1.08	0.00	0.00	0.00	0.00	2.50	5.91
1965	1.92	1.09	0.00	0.00	0.00	0.00	1.80	4.81	2.40	1.11	0.00	0.00	0.00	0.00	2.58	6.09
1970	2.06	1.17	0.00	0.00	0.00	0.00	1.93	5.16	2.57	1.19	0.00	0.00	0.00	0.00	2.76	6.52
1975	2.61	1.49	0.00	0.00	0.00	0.00	2.46	6.56	3.27	1.52	0.00	0.00	0.00	0.00	3.51	8.30
1980	2.69	1.53	0.00	0.00	0.00	0.00	2.53	6.75	3.36	1.56	0.00	0.00	0.00	0.00	3.61	8.53
1985	3.42	1.94	0.00	0.00	0.00	0.00	3.21	8.57	4.27	1.98	0.00	0.00	0.00	0.00	4.59	10.84
1990	3.55	2.02	0.00	0.00	0.00	0.00	3.33	8.90	4.44	2.06	0.00	0.00	0.00	0.00	4.76	11.26
1995	4.22	2.40	0.00	0.00	0.00	0.00	3.97	10.59	5.28	2.45	0.00	0.00	0.00	0.00	5.66	13.39
2000	4.51	2.57	0.00	0.00	0.00	0.00	4.24	11.32	5.64	2.62	0.00	0.00	0.00	0.00	6.05	14.31
2010	0.73	0.42	0.00	0.00	0.00	0.00	0.69	1.84	0.92	0.43	0.00	0.00	0.00	0.00	0.98	2.33
2015	0.94	0.53	0.00	0.00	0.00	0.00	0.88	2.35	1.17	0.54	0.00	0.00	0.00	0.00	1.26	2.97
2020	1.29	0.73	0.00	0.00	0.00	0.00	1.21	3.23	1.61	0.75	0.00	0.00	0.00	0.00	1.73	4.09
2025	1.70	0.97	0.00	0.00	0.00	0.00	1.60	4.27	2.13	0.99	0.00	0.00	0.00	0.00	2.29	5.41
2030	2.55	1.45	0.00	0.00	0.00	0.00	2.39	6.39	3.19	1.48	0.00	0.00	0.00	0.00	3.42	8.09
2035	2.91	1.65	0.00	0.00	0.00	0.00	2.73	7.29	3.63	1.68	0.00	0.00	0.00	0.00	3.90	9.21
2040	3.52	2.00	0.00	0.00	0.00	0.00	3.31	8.83	4.40	2.04	0.00	0.00	0.00	0.00	4.72	11.16
2045	4.28	2.43	0.00	0.00	0.00	0.00	4.02	10.73	5.35	2.48	0.00	0.00	0.00	0.00	5.74	13.57
2050	5.19	2.95	0.00	0.00	0.00	0.00	4.87	13.01	6.49	3.01	0.00	0.00	0.00	0.00	6.96	16.46
2055	6.02	3.42	0.00	0.00	0.00	0.00	5.65	15.09	7.52	3.49	0.00	0.00	0.00	0.00	8.07	19.08
2065	0.20	0.07	0.35	0.08	0.00	0.00	0.27	0.97								
2070	0.15	0.06	0.35	0.08	0.00	0.00	0.21	0.85								
2075	0.21	0.08	0.58	0.14	0.00	0.00	0.29	1.30								
2080	0.27	0.10	0.58	0.14	0.00	0.00	0.37	1.46								
2085	0.35	0.13	0.70	0.17	0.00	0.00	0.48	1.83								
2090	0.14	0.05	0.35	0.08	0.00	0.00	0.19	0.81								
2095	0.21	0.08	0.82	0.20	0.00	0.00	0.29	1.60								
2100	0.40	0.14	1.05	0.25	0.00	0.00	0.55	2.39								
2105	0.42	0.15	0.39	0.09	0.00	0.00	0.58	1.63								
2110	0.68	0.25	0.55	0.13	0.00	0.00	0.93	2.54								
2115	1.39	0.50	0.55	0.13	0.00	0.00	1.91	4.48								
2120	1.34	0.48	0.44	0.11	0.00	0.00	1.84	4.21								
2125	1.51	0.55	0.44	0.11	0.00	0.00	2.08	4.69								
2130	1.70	0.61	0.50	0.12	0.00	0.00	2.34	5.27								
2135	2.06	0.75	0.72	0.17	0.00	0.00	2.84	6.54								
2145	0.11	0.06	0.45	0.15	0.00	0.00	0.12	0.89								
2155	0.10	0.06	0.64	0.20	0.00	0.00	0.11	1.11								
2160	0.41	0.23	1.45	0.47	0.00	0.00	0.45	3.01								
2165	0.53	0.30	1.45	0.47	0.00	0.00	0.57	3.32								
2175	8.73	5.57	5.61	1.57	0.00	0.00	11.49	32.97								
2180	15.54	9.91	8.22	2.30	0.00	0.00	20.45	56.42								
2185	27.47	17.52	9.88	2.77	0.00	0.00	36.16	93.80								
2195	1.70	1.10	4.22	1.35	0.03	0.01	2.25	10.66								
2200	7.95	5.07	3.95	1.11	0.00	0.00	10.47	28.55								
2210	2.08	0.99	0.70	0.20	0.06	0.01	2.54	6.58								
2215	2.33	1.10	1.16	0.33	0.04	0.01	2.85	7.82								
2220	0.88	0.41	0.00	0.18	0.00	0.00	1.07	2.54								
2225	1.41	0.66	0.00	0.28	0.00	0.00	1.72	4.07								
2235	4.11	1.92	3.61	1.01	0.02	0.00	5.01	15.68								
2245	4.85	2.26	6.41	1.79	0.02	0.00	5.91	21.24								
2250	12.26	5.76	14.35	4.02	0.24	0.04	14.95	51.62								
2260	4.29	2.00	3.90	1.09	0.02	0.00	5.23	16.53								
2265	6.65	3.13	8.85	2.48	0.13	0.02	8.12	29.38								
2270	6.84	3.22	8.85	2.48	0.13	0.02	8.34	29.88								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
2275	12.81	6.10	11.96	3.35	0.60	0.09	15.67	50.58								
2280	18.76	8.89	11.96	3.35	0.68	0.10	22.93	66.67								
2285	23.29	11.10	16.33	4.57	1.17	0.18	28.51	85.15								
2290	23.57	11.23	16.33	4.57	1.17	0.18	28.85	85.90								
2300	10.81	7.31	2.90	0.52	0.00	0.00	10.27	31.81	12.97	7.41	3.68	0.66	0.00	0.00	14.09	38.81
2305	11.82	9.86	3.56	0.64	0.00	0.00	12.84	38.72	13.64	9.94	4.51	0.81	0.00	0.00	16.67	45.57
2310	11.31	10.57	2.85	0.51	0.00	0.00	9.93	35.17	13.05	10.64	3.68	0.66	0.00	0.00	12.41	40.44
2320	11.97	11.18	2.85	0.51	0.00	0.00	10.51	37.02	13.81	11.27	3.68	0.66	0.00	0.00	13.14	42.56
2330	12.66	11.83	2.85	0.51	0.00	0.00	11.12	38.97	14.61	11.91	3.68	0.66	0.00	0.00	13.89	44.75
2340	16.45	13.72	5.24	0.94	0.00	0.00	17.87	54.22	18.99	13.84	6.64	1.20	0.00	0.00	23.20	63.87
2345	14.95	13.97	4.19	0.75	0.00	0.00	13.13	46.99	17.25	14.07	5.42	0.97	0.00	0.00	16.41	54.12
2355	13.28	14.77	4.19	0.75	0.00	0.00	13.60	46.59	14.94	14.84	5.42	0.97	0.00	0.00	16.40	52.57
2365	16.90	18.79	4.19	0.75	0.00	0.00	17.31	57.94	19.01	18.89	5.42	0.97	0.00	0.00	20.87	65.16
2375	22.23	24.72	7.16	1.29	0.00	0.00	22.77	78.17	25.00	24.84	9.25	1.67	0.00	0.00	27.44	88.20
2385	23.19	25.79	7.16	1.29	0.00	0.00	23.76	81.19	26.09	25.92	9.25	1.67	0.00	0.00	28.64	91.57
2390	23.97	23.77	8.95	1.61	0.00	0.00	29.29	87.59	26.97	23.91	11.34	2.04	0.00	0.00	36.61	100.87
2400	26.34	29.29	7.16	1.29	0.00	0.00	26.98	91.06	29.63	29.44	9.25	1.67	0.00	0.00	32.52	102.51
2410	24.66	30.35	7.16	1.29	0.00	0.00	28.87	92.33	27.40	30.47	9.25	1.67	0.00	0.00	34.08	102.87
2420	26.67	32.82	7.16	1.29	0.00	0.00	31.22	99.16	29.63	32.95	9.25	1.67	0.00	0.00	36.86	110.36
2435	11.34	7.67	3.59	0.65	0.00	0.00	10.78	34.03	13.61	7.77	4.54	0.82	0.00	0.00	14.78	41.52
2440	8.90	8.32	2.87	0.52	0.00	0.00	7.82	28.43	10.27	8.38	3.71	0.67	0.00	0.00	9.77	32.80
2450	14.46	10.54	5.24	0.94	0.00	0.00	15.71	46.89	17.09	10.66	6.89	1.24	0.00	0.00	20.88	56.76
2455	12.31	10.27	4.49	0.81	0.00	0.00	13.37	41.25	14.20	10.35	5.69	1.02	0.00	0.00	17.36	48.62
2460	11.48	10.72	3.59	0.65	0.00	0.00	10.08	36.52	13.24	10.80	4.64	0.84	0.00	0.00	12.60	42.12
2470	20.17	14.70	6.48	1.17	0.00	0.00	21.91	64.43	23.84	14.87	8.52	1.53	0.00	0.00	29.13	77.89
2475	17.78	14.82	5.55	1.00	0.00	0.00	19.31	58.46	20.51	14.95	7.03	1.27	0.00	0.00	25.06	68.82
2485	23.77	21.07	7.46	1.34	0.00	0.00	29.05	82.69	27.17	21.23	9.81	1.77	0.00	0.00	36.88	96.86
2490	22.76	20.18	7.46	1.34	0.00	0.00	27.81	79.55	26.01	20.32	9.81	1.77	0.00	0.00	35.32	93.23
2495	20.46	20.29	6.40	1.15	0.00	0.00	25.00	73.30	23.02	20.40	8.10	1.46	0.00	0.00	31.25	84.23
2500	18.68	20.78	5.12	0.92	0.00	0.00	19.14	64.64	21.02	20.88	6.61	1.19	0.00	0.00	23.07	72.77
2510	23.25	25.85	6.07	1.09	0.00	0.00	23.81	80.07	26.15	25.98	7.83	1.41	0.00	0.00	28.70	90.07
2515	23.92	23.72	7.58	1.36	0.00	0.00	29.23	85.81	26.91	23.86	9.60	1.73	0.00	0.00	36.54	98.64
2525	28.77	25.51	8.95	1.61	0.00	0.00	35.16	100.00	32.89	25.69	11.77	2.12	0.00	0.00	44.65	117.12
2530	27.24	24.15	8.95	1.61	0.00	0.00	33.29	95.24	31.13	24.32	11.77	2.12	0.00	0.00	42.27	111.61
2535	23.54	23.35	7.68	1.38	0.00	0.00	28.77	84.72	26.49	23.48	9.72	1.75	0.00	0.00	35.96	97.40
2545	35.69	35.40	13.29	2.39	0.00	0.00	53.31	140.08	40.16	35.60	17.46	3.14	0.00	0.00	59.97	156.33
2550	24.07	29.62	11.39	2.05	0.00	0.00	35.22	102.35	26.74	29.74	14.42	2.60	0.00	0.00	43.05	116.55
2565	8.70	8.12	2.75	0.49	0.00	0.00	7.64	27.70	10.03	8.18	3.55	0.64	0.00	0.00	9.54	31.94
2575	11.06	12.30	4.12	0.74	0.00	0.00	11.33	39.55	12.44	12.36	5.32	0.96	0.00	0.00	13.65	44.73
2585	15.25	16.96	4.24	0.76	0.00	0.00	15.62	52.83	17.15	17.04	5.48	0.99	0.00	0.00	18.83	59.49
2595	24.35	27.08	6.12	1.10	0.00	0.00	24.94	83.59	27.39	27.21	7.90	1.42	0.00	0.00	30.06	93.98
2610	17.16	17.02	8.95	1.61	0.00	0.00	20.97	65.71	19.31	17.12	11.34	2.04	0.00	0.00	26.22	76.03
2615	17.25	19.18	7.16	1.29	0.00	0.00	17.67	62.55	19.40	19.28	9.25	1.67	0.00	0.00	21.29	70.89
2625	21.86	21.68	10.39	1.87	0.00	0.00	26.71	82.51	24.60	21.80	13.16	2.37	0.00	0.00	33.39	95.32
2630	20.54	22.85	8.31	1.50	0.00	0.00	21.04	74.24	23.11	22.96	10.74	1.93	0.00	0.00	25.37	84.11
2640	29.08	28.83	11.23	2.02	0.00	0.00	35.53	106.69	32.71	29.00	14.23	2.56	0.00	0.00	44.41	122.91
2645	24.57	30.24	8.99	1.62	0.00	0.00	28.76	94.18	27.30	30.36	11.61	2.09	0.00	0.00	33.96	105.32
2655	37.80	46.51	17.10	3.08	0.00	0.00	44.25	148.74	42.00	46.70	22.08	3.98	0.00	0.00	52.24	167.00
2660	38.51	47.39	21.37	3.85	0.00	0.00	56.36	167.48	42.79	47.58	27.07	4.87	0.00	0.00	68.88	191.19
2675	12.33	10.28	7.43	1.34	0.00	0.00	13.40	44.78	14.23	10.37	9.41	1.69	0.00	0.00	17.39	53.09
2680	11.31	10.57	5.94	1.07	0.00	0.00	9.93	38.82	13.05	10.65	7.67	1.38	0.00	0.00	12.42	45.17
2690	23.96	17.46	9.57	1.72	0.00	0.00	26.03	78.74	28.32	17.66	12.58	2.26	0.00	0.00	34.61	95.43
2695	17.82	14.86	8.21	1.48	0.00	0.00	19.36	61.73	20.56	14.98	10.39	1.87	0.00	0.00	25.13	72.93
2700	16.36	15.28	6.56	1.18	0.00	0.00	14.36	53.74	18.87	15.39	8.48	1.53	0.00	0.00	17.95	62.22
2710	18.56	18.40	8.21	1.48	0.00	0.00	22.68	69.33	20.88	18.51	10.39	1.87	0.00	0.00	28.35	80.00

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
2715	17.07	18.98	6.56	1.18	0.00	0.00	17.49	61.28	19.20	19.08	8.48	1.53	0.00	0.00	21.08	69.37
2725	32.22	28.56	13.03	2.35	0.00	0.00	39.36	115.52	36.82	28.76	17.13	3.08	0.00	0.00	49.99	135.78
2730	25.80	25.59	11.17	2.01	0.00	0.00	31.53	96.10	29.03	25.73	14.15	2.55	0.00	0.00	39.41	110.87
2735	24.79	27.57	8.94	1.61	0.00	0.00	25.39	88.30	27.89	27.70	11.54	2.08	0.00	0.00	30.61	99.82
2745	22.71	27.95	13.42	2.41	0.00	0.00	33.23	99.72	25.23	28.06	16.99	3.06	0.00	0.00	40.62	113.96
2750	26.82	29.83	10.73	1.93	0.00	0.00	27.47	96.78	30.17	29.98	13.86	2.50	0.00	0.00	33.12	109.63
2765	11.53	9.62	5.93	1.07	0.00	0.00	12.53	40.68	13.31	9.70	7.51	1.35	0.00	0.00	16.26	48.13
2770	10.56	9.86	4.74	0.85	0.00	0.00	9.27	35.28	12.18	9.93	6.13	1.10	0.00	0.00	11.59	40.93
2780	13.13	10.95	5.93	1.07	0.00	0.00	14.27	45.35	15.15	11.04	7.51	1.35	0.00	0.00	18.52	53.57
2785	12.06	11.26	4.74	0.85	0.00	0.00	10.59	39.50	13.91	11.35	6.13	1.10	0.00	0.00	13.23	45.72
2795	16.85	14.05	5.93	1.07	0.00	0.00	18.30	56.20	19.44	14.17	7.51	1.35	0.00	0.00	23.76	66.23
2800	13.75	15.29	4.74	0.85	0.00	0.00	14.09	48.72	15.47	15.37	6.13	1.10	0.00	0.00	16.98	55.05
2815	4.12	4.32	4.43	1.24	0.86	0.13	4.29	19.39								
2820	4.47	4.67	4.54	1.27	0.86	0.13	4.65	20.59								
2825	4.96	5.27	4.54	1.27	1.35	0.20	5.18	22.77								
2830	5.45	5.77	4.54	1.27	1.39	0.21	5.69	24.32								
2835	7.14	7.54	6.17	1.73	1.22	0.18	7.44	31.42								
2840	9.89	10.54	6.72	1.88	2.78	0.42	10.34	42.57								
2845	11.73	12.58	6.72	1.88	3.64	0.55	12.28	49.38								
2850	14.68	15.49	8.22	2.30	3.53	0.53	15.30	60.05								
2855	18.79	20.00	9.09	2.55	5.19	0.78	19.64	76.04								
2865	4.44	4.55	4.74	1.33	0.55	0.08	4.59	20.28								
2870	4.79	4.90	4.74	1.33	0.55	0.08	4.95	21.34								
2875	5.14	5.25	4.74	1.33	0.55	0.08	5.30	22.39								
2885	4.32	4.44	4.94	1.38	0.55	0.08	4.47	20.18								
2890	4.53	4.65	4.94	1.38	0.55	0.08	4.69	20.82								
2895	4.70	4.81	4.94	1.38	0.55	0.08	4.85	21.31								
2900	5.26	5.49	4.94	1.38	1.04	0.16	5.46	23.73								
2905	6.52	7.03	6.13	1.72	2.18	0.33	6.84	30.75								
2910	6.73	7.24	6.13	1.72	2.18	0.33	7.05	31.38								
2915	9.40	10.05	7.98	2.24	2.78	0.42	9.84	42.71								
2920	9.73	10.38	7.98	2.24	2.78	0.42	10.18	43.71								
2925	10.03	10.68	7.98	2.24	2.78	0.42	10.48	44.61								
2930	13.43	14.24	9.29	2.60	3.53	0.53	14.01	57.63								
2940	4.40	4.51	4.74	1.33	0.55	0.08	4.54	20.15								
2945	4.96	5.19	4.74	1.33	1.04	0.16	5.16	22.58								
2950	11.14	11.78	7.43	2.08	2.78	0.42	11.62	47.25								
2960	7.65	7.80	6.67	1.74	0.77	0.12	6.27	31.02	8.61	7.85	8.55	2.22	0.93	0.14	7.65	35.95
2965	13.57	13.74	9.53	2.48	1.02	0.15	11.11	51.60	15.27	13.81	12.28	3.19	1.25	0.19	13.54	59.53
2975	8.34	7.95	6.80	1.77	0.52	0.08	6.14	31.60	9.62	8.01	8.94	2.33	0.64	0.10	7.79	37.43
2980	8.63	8.83	8.02	2.09	0.97	0.15	7.08	35.77	9.71	8.88	10.56	2.74	1.20	0.18	8.63	41.90
2985	11.02	11.20	8.42	2.19	0.98	0.15	9.03	42.99	12.40	11.26	11.08	2.88	1.20	0.18	11.01	50.01
2990	14.17	16.24	9.71	2.52	2.60	0.39	13.60	59.23	15.75	16.31	12.48	3.24	3.21	0.48	16.20	67.67
2995	22.16	25.00	10.05	2.61	2.60	0.39	21.20	84.01	24.62	25.11	12.88	3.35	3.21	0.48	25.23	94.88
3000	23.62	29.26	15.40	4.00	3.28	0.49	25.83	101.88	25.98	29.37	19.84	5.16	4.05	0.61	30.19	115.20
3010	8.15	7.81	8.54	2.22	0.62	0.09	6.01	33.44	9.41	7.86	11.23	2.92	0.77	0.12	7.62	39.93
3015	8.63	8.74	8.54	2.22	0.70	0.10	7.06	35.99	9.71	8.79	11.23	2.92	0.86	0.13	8.61	42.25
3020	10.53	10.67	9.64	2.51	0.84	0.13	8.62	42.94	11.84	10.73	12.69	3.30	1.02	0.15	10.50	50.23
3030	8.38	7.99	8.30	2.16	0.54	0.08	6.17	33.62	9.67	8.05	10.92	2.84	0.66	0.10	7.83	40.07
3035	9.56	9.73	9.64	2.51	0.93	0.14	7.83	40.34	10.75	9.78	12.69	3.30	1.15	0.17	9.54	47.38
3040	10.68	10.84	9.64	2.51	0.93	0.14	8.74	43.48	12.01	10.90	12.69	3.30	1.15	0.17	10.66	50.88
3045	15.01	17.16	14.42	3.75	2.60	0.39	14.40	67.73	16.68	17.23	18.98	4.93	3.21	0.48	17.14	78.65
3055	13.39	13.74	6.29	1.63	1.73	0.26	11.00	48.04	15.07	13.82	8.01	2.08	2.14	0.32	13.40	54.84
3060	12.34	14.00	6.29	1.63	1.73	0.26	11.82	48.07	13.72	14.06	8.01	2.08	2.14	0.32	14.07	54.40
3065	15.48	17.44	9.76	2.54	1.73	0.26	14.80	62.01	17.20	17.52	12.59	3.27	2.14	0.32	17.62	70.66

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
3070	17.27	19.53	10.58	2.75	2.22	0.33	16.53	69.21	19.19	19.62	13.54	3.52	2.74	0.41	19.68	78.70
3075	22.75	27.94	13.15	3.42	2.22	0.33	24.83	94.64	25.03	28.04	16.92	4.40	2.74	0.41	29.02	106.56
3085	13.15	13.50	6.09	1.58	1.73	0.26	10.79	47.10	14.79	13.58	7.75	2.02	2.14	0.32	13.16	53.76
3090	16.27	18.64	8.85	2.30	2.97	0.45	15.62	65.10	18.08	18.72	11.30	2.94	3.67	0.55	18.59	73.85
3095	17.97	22.19	9.09	2.36	2.22	0.33	19.64	73.80	19.77	22.27	11.61	3.02	2.74	0.41	22.95	82.77
3105	12.89	13.24	6.35	1.65	1.73	0.26	10.58	46.70	14.50	13.32	8.08	2.10	2.14	0.32	12.90	53.36
3110	13.29	15.04	8.05	2.09	1.73	0.26	12.72	53.18	14.77	15.11	10.28	2.67	2.14	0.32	15.14	60.43
3115	16.27	18.63	10.82	2.81	2.97	0.45	15.61	67.56	18.07	18.72	13.92	3.62	3.67	0.55	18.59	77.14
3120	17.79	22.30	10.82	2.81	3.39	0.51	19.51	77.13	19.57	22.39	13.92	3.62	4.15	0.62	22.80	87.07
3130	9.80	9.36	4.67	1.21	0.69	0.10	7.21	33.04	11.31	9.42	5.94	1.54	0.86	0.13	9.16	38.36
3135	9.94	10.07	5.09	1.32	0.80	0.12	8.14	35.48	11.18	10.13	6.47	1.68	0.99	0.15	9.92	40.52
3140	10.84	11.03	5.23	1.36	1.04	0.16	8.88	38.54	12.20	11.09	6.63	1.72	1.28	0.19	10.83	43.94
3145	14.19	14.54	7.06	1.84	1.73	0.26	11.65	51.27	15.97	14.62	9.04	2.35	2.14	0.32	14.19	58.63
3150	14.18	16.01	7.20	1.87	1.73	0.26	13.56	54.81	15.75	16.09	9.20	2.39	2.14	0.32	16.15	62.04
3155	15.79	17.91	8.89	2.31	2.22	0.33	15.12	62.57	17.55	17.99	11.31	2.94	2.74	0.41	18.00	70.94
3160	19.71	22.21	9.64	2.51	2.22	0.33	18.85	75.47	21.90	22.31	12.30	3.20	2.74	0.41	22.44	85.30
3165	19.51	24.04	10.86	2.82	2.22	0.33	21.31	81.09	21.46	24.13	13.91	3.62	2.74	0.41	24.91	91.18
3170	40.15	49.20	17.68	4.60	3.53	0.53	43.80	159.49	44.16	49.38	22.77	5.92	4.37	0.65	51.19	178.44
3180	5.04	2.89	0.00	0.31	0.00	0.00	6.22	14.46								
3185	4.62	2.65	0.00	0.46	0.00	0.00	5.70	13.43								
3190	5.26	3.02	0.00	0.62	0.00	0.00	6.50	15.40								
3195	6.20	3.55	0.00	0.62	0.00	0.00	7.66	18.03								
3200	6.88	3.94	0.00	0.77	0.00	0.00	8.50	20.09								
3210	5.68	3.25	0.00	0.44	0.00	0.00	7.01	16.38								
3215	6.20	3.55	0.00	0.59	0.00	0.00	7.65	17.99								
3220	7.03	4.03	0.00	0.93	0.00	0.00	8.68	20.67								
3230	5.08	2.91	0.00	0.51	0.00	0.00	6.27	14.77								
3235	5.76	3.30	0.00	0.51	0.00	0.00	7.11	16.68								
3240	7.03	4.03	0.00	0.76	0.00	0.00	8.68	20.50								
3250	1.24	0.71	0.00	0.29	0.00	0.00	1.54	3.78								
3255	0.80	0.46	0.00	0.29	0.00	0.00	0.99	2.54								
3260	0.12	0.07	0.00	0.23	0.00	0.00	0.15	0.57								
3270	1.87	1.07	2.15	0.52	0.00	0.00	2.31	7.92								
3275	1.30	0.75	0.98	0.23	0.00	0.00	1.61	4.87								
3285	1.18	0.68	1.24	0.20	0.00	0.00	1.46	4.76								
3290	1.80	1.03	3.21	0.51	0.00	0.00	2.22	8.77								
3295	2.14	1.23	1.96	0.47	0.00	0.00	2.65	8.45								
3300	2.47	1.41	2.64	0.63	0.00	0.00	3.05	10.20								
3305	2.96	1.70	2.93	0.70	0.00	0.00	3.65	11.94								
3315	1.13	0.65	1.87	0.30	0.00	0.00	1.39	5.34								
3320	1.74	1.00	2.40	0.57	0.00	0.00	2.15	7.86								
3330	14.49	12.33	14.86	3.57	1.31	0.20	17.96	64.72								
3340	13.55	11.55	11.00	2.64	1.32	0.20	16.80	57.06								
3345	20.76	17.65	16.37	3.93	1.77	0.27	25.73	86.48								
3350	22.10	18.78	17.11	4.11	1.77	0.27	27.39	91.53								
3355	16.00	13.39	20.04	4.81	0.00	0.00	19.76	74.00								
3360	17.69	14.80	20.04	4.81	0.00	0.00	21.84	79.18								
3365	20.05	22.07	20.04	4.81	0.00	0.00	24.76	91.73								
3370	37.10	40.85	30.45	15.22	0.00	0.00	22.91	146.53								
3380	1.76	1.03	5.32	1.28	0.11	0.02	1.68	11.20								
3385	1.99	1.17	6.76	1.62	0.12	0.02	1.90	13.58								
3390	3.06	1.79	9.80	2.35	0.15	0.02	2.91	20.08								
3395	4.21	2.51	10.73	2.57	0.41	0.06	4.02	24.51								
3400	4.84	2.87	10.73	2.57	0.41	0.06	4.62	26.10								
3405	5.01	2.98	10.73	2.57	0.48	0.07	4.79	26.63								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
3410	5.61	3.32	10.73	2.57	0.46	0.07	5.36	28.12								
3415	10.57	6.44	16.05	3.85	1.53	0.23	10.16	48.83								
3430	1.12	0.93	5.10	1.22	0.00	0.00	1.23	9.60	1.25	0.94	6.71	1.61	0.00	0.00	1.60	12.11
3435	1.32	1.10	7.90	1.90	0.00	0.00	1.45	13.67	1.47	1.11	10.40	2.50	0.00	0.00	1.88	17.36
3440	1.51	1.25	8.69	2.09	0.00	0.00	1.65	15.19	1.67	1.26	11.44	2.75	0.00	0.00	2.14	19.26
3445	1.59	1.33	10.28	2.47	0.00	0.00	1.75	17.42	1.77	1.34	13.52	3.24	0.00	0.00	2.27	22.14
3450	1.81	1.50	11.66	2.80	0.00	0.00	1.98	19.75	2.01	1.51	15.34	3.68	0.00	0.00	2.57	25.11
3455	2.11	1.76	13.04	3.13	0.00	0.00	2.32	22.36	2.35	1.77	17.16	4.12	0.00	0.00	3.00	28.40
3460	2.29	1.91	15.41	3.70	0.00	0.00	2.52	25.83	2.55	1.92	20.28	4.87	0.00	0.00	3.26	32.88
3465	4.20	3.50	16.80	4.03	0.00	0.00	4.61	33.14	4.67	3.52	22.10	5.30	0.00	0.00	5.97	41.56
3470	3.17	2.64	17.39	4.17	0.00	0.00	3.48	30.85	3.53	2.66	22.88	5.49	0.00	0.00	4.52	39.08
3475	3.69	3.07	24.70	5.93	0.00	0.00	4.05	41.44	4.10	3.09	32.50	7.80	0.00	0.00	5.25	52.74
3480	5.63	4.69	28.85	6.92	0.00	0.00	6.18	52.27	6.25	4.71	37.96	9.11	0.00	0.00	8.01	66.04
3485	8.35	6.95	32.01	7.68	0.00	0.00	9.17	64.16	9.28	6.99	42.12	10.11	0.00	0.00	11.88	80.38
3490	10.87	9.05	45.65	10.95	0.00	0.00	11.93	88.45	12.08	9.10	60.06	14.41	0.00	0.00	15.47	111.12
3505	0.08	0.06	0.51	0.12	0.00	0.00	0.08	0.85	0.08	0.06	0.66	0.16	0.00	0.00	0.11	1.07
3510	0.17	0.14	1.18	0.28	0.00	0.00	0.19	1.96	0.19	0.14	1.54	0.37	0.00	0.00	0.24	2.48
3515	0.19	0.15	1.69	0.41	0.00	0.00	0.20	2.64	0.21	0.16	2.20	0.53	0.00	0.00	0.26	3.36
3520	0.20	0.16	0.24	0.06	0.00	0.00	0.22	0.88	0.22	0.16	0.31	0.07	0.00	0.00	0.28	1.04
3525	0.26	0.22	0.47	0.11	0.00	0.00	0.29	1.35	0.29	0.22	0.62	0.15	0.00	0.00	0.37	1.65
3530	0.38	0.31	0.87	0.21	0.00	0.00	0.41	2.18	0.42	0.32	1.14	0.27	0.00	0.00	0.54	2.69
3535	0.39	0.32	1.07	0.26	0.00	0.00	0.42	2.46	0.43	0.32	1.40	0.34	0.00	0.00	0.55	3.04
3540	0.57	0.48	2.49	0.60	0.00	0.00	0.63	4.77	0.64	0.48	3.28	0.79	0.00	0.00	0.81	6.00
3545	0.76	0.63	3.44	0.83	0.00	0.00	0.83	6.49	0.84	0.63	4.52	1.09	0.00	0.00	1.08	8.16
3550	0.87	0.72	4.03	0.97	0.00	0.00	0.95	7.54	0.97	0.73	5.30	1.27	0.00	0.00	1.24	9.51
3555	1.03	0.86	6.40	1.54	0.00	0.00	1.14	10.97	1.15	0.87	8.42	2.02	0.00	0.00	1.47	13.93
3560	1.08	0.90	6.40	1.54	0.00	0.00	1.19	11.11	1.21	0.91	8.42	2.02	0.00	0.00	1.54	14.10
3565	1.25	1.04	8.30	1.99	0.00	0.00	1.38	13.96	1.39	1.05	10.92	2.62	0.00	0.00	1.78	17.76
3570	1.48	1.24	10.91	2.62	0.00	0.00	1.63	17.88	1.65	1.24	14.35	3.44	0.00	0.00	2.11	22.79
3585	5.01	4.49	4.55	1.32	0.46	0.07	5.02	20.92	6.01	4.53	5.98	1.73	0.62	0.09	6.52	25.48
3590	5.41	4.84	4.91	1.43	0.46	0.07	5.42	22.54	6.50	4.89	6.46	1.87	0.62	0.09	7.04	27.47
3595	5.82	5.21	4.91	1.43	0.51	0.08	5.83	23.79	6.99	5.26	6.46	1.87	0.68	0.10	7.58	28.94
3600	5.97	5.35	5.46	1.58	0.58	0.09	5.98	25.01	7.16	5.41	7.18	2.08	0.79	0.12	7.77	30.51
3605	8.12	7.48	6.55	1.90	1.39	0.21	8.22	33.87	9.75	7.56	8.61	2.50	1.88	0.28	10.68	41.26
3610	11.65	10.83	9.10	2.64	2.28	0.34	11.83	48.67	13.98	10.94	11.96	3.47	3.09	0.46	15.37	59.27
3620	4.08	3.70	4.55	1.32	0.51	0.08	4.10	18.34	4.90	3.74	5.98	1.73	0.68	0.10	5.34	22.47
3625	4.64	4.19	5.53	1.60	0.56	0.08	4.66	21.26	5.56	4.24	7.27	2.11	0.75	0.11	6.06	26.10
3630	4.93	4.47	6.12	1.77	0.64	0.10	4.96	22.99	5.91	4.52	8.04	2.33	0.87	0.13	6.45	28.25
3635	5.36	4.82	6.59	1.91	0.56	0.08	5.38	24.70	6.44	4.87	8.66	2.51	0.75	0.11	6.99	30.33
3640	3.82	3.47	4.55	1.32	0.51	0.08	3.85	17.60	4.58	3.51	5.98	1.73	0.68	0.10	5.00	21.58
3645	4.22	3.84	5.53	1.60	0.56	0.08	4.25	20.08	5.07	3.88	7.27	2.11	0.75	0.11	5.53	24.72
3650	4.45	4.06	5.53	1.60	0.64	0.10	4.49	20.87	5.34	4.10	7.27	2.11	0.87	0.13	5.83	25.65
3655	4.93	4.47	6.59	1.91	0.64	0.10	4.96	23.60	5.91	4.52	8.66	2.51	0.87	0.13	6.45	29.05
3660	5.91	5.57	8.37	2.43	1.39	0.21	6.03	29.91	7.10	5.62	11.00	3.19	1.88	0.28	7.84	36.91
3670	2.70	2.39	2.48	0.72	0.16	0.02	2.69	11.16	3.24	2.41	3.25	0.94	0.21	0.03	3.50	13.58
3675	4.26	3.85	4.91	1.43	0.51	0.08	4.28	19.32	5.11	3.89	6.46	1.87	0.68	0.10	5.56	23.67
3680	4.50	4.06	4.91	1.43	0.51	0.08	4.52	20.01	5.40	4.11	6.46	1.87	0.68	0.10	5.88	24.50
3685	4.84	4.38	5.82	1.69	0.58	0.09	4.86	22.26	5.80	4.42	7.65	2.22	0.79	0.12	6.32	27.32
3695	2.71	2.40	5.31	0.85	0.16	0.02	2.71	14.16	3.26	2.43	6.88	1.10	0.21	0.03	3.52	17.43
3700	4.96	4.45	5.28	1.53	0.46	0.07	4.97	21.72	5.96	4.49	6.94	2.01	0.62	0.09	6.46	26.57
3705	5.73	5.15	6.77	1.96	0.58	0.09	5.75	26.03	6.87	5.20	8.90	2.58	0.79	0.12	7.47	31.93
3715	0.38	0.22	0.00	0.09	0.00	0.00	0.41	1.10								
3720	0.69	0.39	0.00	0.18	0.00	0.00	0.74	2.00								
3725	0.86	0.49	0.00	0.28	0.00	0.00	0.93	2.56								
3730	2.14	1.22	0.00	0.37	0.00	0.00	2.32	6.05								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
3740	4.81	2.74	3.95	0.95	0.00	0.00	5.20	17.65								
3745	6.50	3.70	3.95	0.95	0.00	0.00	7.03	22.13								
3750	9.99	5.70	5.14	1.23	0.00	0.00	10.81	32.87								
3755	11.86	6.76	5.93	1.42	0.00	0.00	12.83	38.80								
3770	7.46	4.65	3.75	0.67	0.00	0.00	7.09	23.62	9.12	4.73	4.93	0.89	0.00	0.00	9.91	29.58
3775	10.73	7.82	6.73	1.21	0.00	0.00	11.65	38.14	12.68	7.91	8.85	1.59	0.00	0.00	15.49	46.52
3780	15.84	11.54	10.92	1.97	0.00	0.00	17.20	57.47	18.71	11.67	14.35	2.58	0.00	0.00	22.87	70.18
3785	20.51	18.18	16.60	2.99	0.00	0.00	25.06	83.34	23.44	18.31	21.82	3.93	0.00	0.00	31.82	99.32
3795	8.99	5.61	5.82	1.05	0.00	0.00	8.54	30.01	10.99	5.69	7.65	1.38	0.00	0.00	11.93	37.64
3800	11.07	8.07	8.55	1.54	0.00	0.00	12.02	41.25	13.08	8.16	11.24	2.02	0.00	0.00	15.99	50.49
3805	10.82	9.59	11.21	2.02	0.00	0.00	13.22	46.86	12.36	9.66	14.73	2.65	0.00	0.00	16.78	56.18
3810	23.45	20.78	22.42	4.04	0.00	0.00	28.65	99.34	26.80	20.94	29.47	5.30	0.00	0.00	36.38	118.89
3820	11.03	6.86	6.41	1.15	0.00	0.00	10.49	35.96	13.48	6.99	8.42	1.52	0.00	0.00	14.65	45.06
3825	12.79	9.32	7.46	1.34	0.00	0.00	13.89	44.80	15.11	9.42	9.81	1.77	0.00	0.00	18.46	54.57
3830	16.20	11.81	9.03	1.62	0.00	0.00	17.60	56.26	19.15	11.94	11.86	2.14	0.00	0.00	23.40	68.49
3835	21.58	19.13	14.27	2.57	0.00	0.00	26.36	83.91	24.66	19.26	18.75	3.38	0.00	0.00	33.48	99.53
3845	5.67	3.54	4.55	0.82	0.00	0.00	5.39	19.97	6.93	3.59	5.98	1.08	0.00	0.00	7.53	25.11
3850	8.76	5.46	6.55	1.18	0.00	0.00	8.32	30.27	10.71	5.55	8.61	1.55	0.00	0.00	11.63	38.05
3860	8.19	5.11	3.28	0.59	0.00	0.00	7.79	24.96	10.02	5.19	4.31	0.78	0.00	0.00	10.88	31.18
3865	10.19	6.35	4.55	0.82	0.00	0.00	9.69	31.60	12.46	6.46	5.98	1.08	0.00	0.00	13.53	39.51
3870	15.25	11.11	7.10	1.28	0.00	0.00	16.57	51.31	18.03	11.24	9.33	1.68	0.00	0.00	22.03	62.31
3875	23.18	16.89	11.83	2.13	0.00	0.00	25.18	79.21	27.39	17.08	15.55	2.80	0.00	0.00	33.47	96.29
3885	7.20	4.49	5.71	1.03	0.00	0.00	6.84	25.27	8.80	4.56	7.51	1.35	0.00	0.00	9.56	31.78
3890	7.78	5.67	6.92	1.24	0.00	0.00	8.45	30.06	9.20	5.74	9.09	1.64	0.00	0.00	11.24	36.91
3900	9.38	5.85	4.19	0.75	0.00	0.00	8.92	29.09	11.47	5.94	5.50	0.99	0.00	0.00	12.46	36.36
3905	11.70	7.29	5.82	1.05	0.00	0.00	11.12	36.98	14.30	7.41	7.65	1.38	0.00	0.00	15.53	46.27
3910	13.26	9.66	9.90	1.78	0.00	0.00	14.40	49.00	15.67	9.77	13.01	2.34	0.00	0.00	19.14	59.93
3925	12.12	8.83	8.74	1.57	0.00	0.00	13.16	44.42	14.32	8.93	11.48	2.07	0.00	0.00	17.50	54.30
3930	14.13	10.30	10.56	1.90	0.00	0.00	15.35	52.24	16.70	10.41	13.87	2.50	0.00	0.00	20.41	63.89
3935	15.41	13.66	14.20	2.56	0.00	0.00	18.84	64.67	17.62	13.76	18.66	3.36	0.00	0.00	23.92	77.32
3945	5.81	3.62	3.93	0.71	0.00	0.00	5.53	19.60	7.11	3.68	5.17	0.93	0.00	0.00	7.72	24.61
3950	9.32	5.81	5.21	0.94	0.00	0.00	8.86	30.14	11.39	5.90	6.84	1.23	0.00	0.00	12.37	37.73
3955	9.55	6.96	7.64	1.38	0.00	0.00	10.37	35.90	11.29	7.04	10.05	1.81	0.00	0.00	13.79	43.98
3960	13.56	9.88	8.74	1.57	0.00	0.00	14.73	48.48	16.03	9.99	11.48	2.07	0.00	0.00	19.59	59.16
3965	16.92	12.33	11.17	2.01	0.00	0.00	18.37	60.80	19.99	12.47	14.69	2.64	0.00	0.00	24.43	74.22
3970	17.06	15.12	11.83	2.13	0.00	0.00	20.85	66.99	19.50	15.23	15.55	2.80	0.00	0.00	26.47	79.55
3975	21.35	18.92	13.83	2.49	0.00	0.00	26.09	82.68	24.40	19.06	18.18	3.27	0.00	0.00	33.13	98.04
3980	24.33	21.57	15.29	2.75	0.00	0.00	29.73	93.67	27.80	21.72	20.09	3.62	0.00	0.00	37.75	110.98
3985	31.89	31.63	27.66	4.98	0.00	0.00	47.63	143.79	35.88	31.81	36.36	6.54	0.00	0.00	53.59	164.18
3990	38.35	38.03	30.28	5.45	0.00	0.00	57.28	169.39	43.15	38.25	39.80	7.16	0.00	0.00	64.44	192.80
4005	8.20	5.11	5.53	1.00	0.00	0.00	7.80	27.64	10.02	5.20	7.27	1.31	0.00	0.00	10.89	34.69
4010	11.99	8.74	8.30	1.49	0.00	0.00	13.02	43.54	14.17	8.83	10.91	1.96	0.00	0.00	17.31	53.18
4015	14.83	10.80	11.07	1.99	0.00	0.00	16.10	54.79	17.52	10.92	14.54	2.62	0.00	0.00	21.41	67.01
4025	6.89	6.62	7.23	1.99	0.62	0.09	5.08	28.52	7.95	6.66	9.47	2.60	0.77	0.12	6.45	34.02
4030	8.33	8.14	7.86	2.04	1.24	0.19	6.18	33.98	9.62	8.20	10.11	2.63	1.57	0.24	7.84	40.21
4035	9.96	10.21	13.03	3.39	1.26	0.19	8.17	46.21	11.20	10.27	16.81	4.37	1.56	0.23	9.96	54.40
4045	1.23	0.72	0.00	0.10	0.00	0.00	1.41	3.46	1.54	0.73	0.00	0.10	0.00	0.00	1.98	4.35
4050	1.62	0.94	0.00	0.12	0.00	0.00	1.85	4.53	2.02	0.96	0.00	0.12	0.00	0.00	2.60	5.70
4055	2.40	1.39	0.00	0.15	0.00	0.00	2.74	6.68	3.00	1.42	0.00	0.15	0.00	0.00	3.85	8.42
4060	1.24	0.72	0.00	0.21	0.00	0.00	1.41	3.58	1.55	0.73	0.00	0.21	0.00	0.00	1.98	4.47
4070	0.80	0.57	0.57	0.14	0.00	0.00	1.91	3.99								
4080	0.73	0.52	0.62	0.15	0.00	0.00	1.73	3.75								
4090	1.51	1.34	1.11	0.31	0.76	0.11	2.44	7.58	1.89	1.36	1.46	0.41	1.19	0.18	3.39	9.88
4100	0.31	0.25	0.00	0.00	0.00	0.00	0.47	1.03	0.38	0.25	0.00	0.00	0.00	0.00	0.66	1.29
4105	0.45	0.36	0.00	0.00	0.00	0.00	0.69	1.50	0.56	0.37	0.00	0.00	0.00	0.00	0.96	1.89

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
4110	0.07	0.05	0.00	0.00	0.00	0.00	0.11	0.23	0.09	0.06	0.00	0.00	0.00	0.00	0.15	0.30
4115	0.35	0.29	0.00	0.00	0.00	0.00	0.55	1.19	0.44	0.29	0.00	0.00	0.00	0.00	0.76	1.49
4120	0.31	0.25	0.00	0.00	0.00	0.00	0.48	1.04	0.38	0.25	0.00	0.00	0.00	0.00	0.66	1.29
4125	0.36	0.29	0.00	0.00	0.00	0.00	0.56	1.21	0.45	0.30	0.00	0.00	0.00	0.00	0.78	1.53
4130	0.47	0.38	0.00	0.00	0.00	0.00	0.74	1.59	0.59	0.39	0.00	0.00	0.00	0.00	1.02	2.00
4135	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.07	0.04	0.00	0.00	0.00	0.00	0.12	0.23
4140	1.69	1.50	1.66	0.46	0.93	0.14	2.73	9.11	2.11	1.52	2.18	0.61	1.46	0.22	3.79	11.89
4150	0.38	0.31	0.00	0.00	0.00	0.00	0.59	1.28	0.48	0.31	0.00	0.00	0.00	0.00	0.82	1.61
4155	0.47	0.38	0.00	0.00	0.00	0.00	0.73	1.58	0.58	0.38	0.00	0.00	0.00	0.00	1.01	1.97
4160	0.07	0.05	0.00	0.00	0.00	0.00	0.11	0.23	0.09	0.06	0.00	0.00	0.00	0.00	0.15	0.30
4165	0.35	0.29	0.00	0.00	0.00	0.00	0.55	1.19	0.44	0.29	0.00	0.00	0.00	0.00	0.76	1.49
4170	0.34	0.28	0.00	0.00	0.00	0.00	0.53	1.15	0.43	0.28	0.00	0.00	0.00	0.00	0.74	1.45
4175	0.42	0.34	0.00	0.00	0.00	0.00	0.66	1.42	0.53	0.35	0.00	0.00	0.00	0.00	0.91	1.79
4180	0.54	0.43	0.00	0.00	0.00	0.00	0.83	1.80	0.67	0.44	0.00	0.00	0.00	0.00	1.15	2.26
4185	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.07	0.04	0.00	0.00	0.00	0.00	0.12	0.23
4190	1.90	1.72	2.21	0.62	1.24	0.19	3.09	10.97	2.37	1.74	2.91	0.82	1.94	0.29	4.29	14.36
4200	0.41	0.33	0.00	0.00	0.00	0.00	0.63	1.37	0.51	0.33	0.00	0.00	0.00	0.00	0.68	1.72
4205	0.50	0.40	0.00	0.00	0.00	0.00	0.77	1.67	0.62	0.41	0.00	0.00	0.00	0.00	1.07	2.10
4210	0.07	0.05	0.00	0.00	0.00	0.00	0.11	0.23	0.09	0.06	0.00	0.00	0.00	0.00	0.15	0.30
4215	0.35	0.29	0.00	0.00	0.00	0.00	0.55	1.19	0.44	0.29	0.00	0.00	0.00	0.00	0.76	1.49
4220	0.39	0.31	0.00	0.00	0.00	0.00	0.60	1.30	0.49	0.32	0.00	0.00	0.00	0.00	0.84	1.65
4225	0.50	0.41	0.00	0.00	0.00	0.00	0.78	1.69	0.63	0.41	0.00	0.00	0.00	0.00	1.09	2.13
4230	0.67	0.54	0.00	0.00	0.00	0.00	1.05	2.26	0.84	0.55	0.00	0.00	0.00	0.00	1.45	2.84
4235	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.07	0.04	0.00	0.00	0.00	0.00	0.12	0.23
4240	2.29	2.10	3.32	0.93	1.71	0.26	3.75	14.36	2.86	2.13	4.37	1.22	2.71	0.41	5.20	18.90
4250	0.43	0.35	0.00	0.00	0.00	0.00	0.68	1.46	0.54	0.36	0.00	0.00	0.00	0.00	0.94	1.84
4255	0.57	0.46	0.00	0.00	0.00	0.00	0.88	1.91	0.71	0.47	0.00	0.00	0.00	0.00	1.23	2.41
4260	0.07	0.05	0.00	0.00	0.00	0.00	0.11	0.23	0.09	0.06	0.00	0.00	0.00	0.00	0.15	0.30
4265	0.35	0.29	0.00	0.00	0.00	0.00	0.55	1.19	0.44	0.29	0.00	0.00	0.00	0.00	0.76	1.49
4270	0.48	0.39	0.00	0.00	0.00	0.00	0.75	1.62	0.60	0.40	0.00	0.00	0.00	0.00	1.04	2.04
4275	0.62	0.50	0.00	0.00	0.00	0.00	0.97	2.09	0.78	0.51	0.00	0.00	0.00	0.00	1.34	2.63
4280	0.84	0.68	0.00	0.00	0.00	0.00	1.31	2.83	1.05	0.69	0.00	0.00	0.00	0.00	1.81	3.55
4285	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.07	0.04	0.00	0.00	0.00	0.00	0.12	0.23
4290	4.20	3.70	4.94	1.38	2.01	0.30	6.75	23.28	5.25	3.75	6.50	1.82	3.15	0.47	9.37	30.31
4300	0.63	0.51	0.00	0.00	0.00	0.00	0.98	2.12	0.79	0.52	0.00	0.00	0.00	0.00	1.37	2.68
4305	0.07	0.05	0.00	0.00	0.00	0.00	0.11	0.23	0.09	0.06	0.00	0.00	0.00	0.00	0.15	0.30
4310	0.40	0.32	0.00	0.00	0.00	0.00	0.61	1.33	0.49	0.32	0.00	0.00	0.00	0.00	0.85	1.66
4315	0.55	0.44	0.00	0.00	0.00	0.00	0.85	1.84	0.68	0.45	0.00	0.00	0.00	0.00	1.18	2.31
4320	0.76	0.61	0.00	0.00	0.00	0.00	1.17	2.54	0.95	0.62	0.00	0.00	0.00	0.00	1.63	3.20
4325	0.99	0.80	0.00	0.00	0.00	0.00	1.54	3.33	1.24	0.81	0.00	0.00	0.00	0.00	2.14	4.19
4330	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.07	0.04	0.00	0.00	0.00	0.00	0.12	0.23
4335	7.23	6.56	4.94	1.38	4.94	0.74	11.77	37.56	9.04	6.65	6.50	1.82	7.81	1.17	16.35	49.34
4340	8.13	7.30	7.31	2.05	5.03	0.75	13.18	43.75	10.17	7.40	9.62	2.69	7.97	1.20	18.30	57.35
4345	8.15	7.54	7.31	2.05	6.95	1.04	13.37	46.41	10.18	7.64	9.62	2.69	11.08	1.66	18.57	61.44
4350	9.38	8.69	11.46	3.21	8.21	1.23	15.40	57.58	11.72	8.81	15.08	4.22	13.13	1.97	21.39	76.32
4355	9.15	8.10	7.31	2.05	4.94	0.74	14.75	47.04	11.44	8.22	9.62	2.69	7.81	1.17	20.49	61.44
4360	9.71	8.56	7.31	2.05	5.03	0.75	15.62	49.03	12.13	8.68	9.62	2.69	7.97	1.20	21.70	63.99
4365	10.87	9.73	11.46	3.21	6.95	1.04	17.60	60.86	13.58	9.87	15.08	4.22	11.08	1.66	24.44	79.93
4370	11.95	10.76	11.46	3.21	8.21	1.23	19.39	66.21	14.93	10.91	15.08	4.22	13.13	1.97	26.93	87.17
4380	0.61	0.49	0.00	0.00	0.00	0.00	0.94	2.04	0.76	0.50	0.00	0.00	0.00	0.00	1.31	2.57
4385	0.80	0.65	0.00	0.00	0.00	0.00	1.25	2.70	1.00	0.66	0.00	0.00	0.00	0.00	1.73	3.39
4390	1.09	0.88	0.00	0.00	0.00	0.00	1.69	3.66	1.36	0.89	0.00	0.00	0.00	0.00	2.35	4.60
4395	1.25	1.01	0.00	0.00	0.00	0.00	1.94	4.20	1.57	1.02	0.00	0.00	0.00	0.00	2.70	5.29
4405	2.41	1.57	1.66	0.63	0.00	0.00	4.46	10.73	3.07	1.60	2.19	0.83	0.00	0.00	6.04	13.67
4410	3.18	2.08	2.26	0.86	0.00	0.00	5.90	14.28	3.98	2.11	2.98	1.13	0.00	0.00	7.99	18.19

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
4415	3.86	2.51	3.07	1.17	0.00	0.00	7.14	17.75	4.82	2.56	4.04	1.54	0.00	0.00	9.67	22.63
4420	5.57	3.63	4.48	1.70	0.00	0.00	10.33	25.71	6.97	3.70	5.90	2.24	0.00	0.00	13.98	32.79
4425	6.66	4.34	5.97	2.27	0.00	0.00	12.33	31.57	8.32	4.41	7.86	2.99	0.00	0.00	16.69	40.27
4435	2.81	1.83	2.77	1.05	0.00	0.00	5.21	13.67	3.52	1.87	3.65	1.39	0.00	0.00	7.06	17.49
4440	5.18	3.38	3.41	1.30	0.00	0.00	9.59	22.86	6.47	3.43	4.49	1.71	0.00	0.00	12.99	29.09
4445	6.51	4.25	4.69	1.78	0.00	0.00	12.07	29.30	8.14	4.32	6.18	2.35	0.00	0.00	16.34	37.33
4450	7.08	4.61	5.54	2.11	0.00	0.00	13.11	32.45	8.85	4.69	7.30	2.77	0.00	0.00	17.75	41.36
4455	10.85	7.07	8.10	3.08	0.00	0.00	20.09	49.19	13.56	7.19	10.67	4.05	0.00	0.00	27.21	62.68
4460	16.83	10.98	11.73	4.46	0.00	0.00	31.18	75.18	21.04	11.16	15.44	5.87	0.00	0.00	42.22	95.73
4470	4.27	2.78	3.71	1.41	0.00	0.00	7.90	20.07	5.33	2.83	4.89	1.86	0.00	0.00	10.70	25.61
4475	5.45	3.55	5.20	1.98	0.00	0.00	10.10	26.28	6.82	3.62	6.85	2.60	0.00	0.00	13.68	33.57
4480	7.16	4.67	6.40	2.43	0.00	0.00	13.26	33.92	8.95	4.75	8.42	3.20	0.00	0.00	17.95	43.27
4485	10.35	6.75	9.51	3.61	0.00	0.00	19.18	49.40	12.94	6.87	12.52	4.76	0.00	0.00	25.97	63.06
4495	3.47	2.26	2.77	1.05	0.00	0.00	6.43	15.98	4.34	2.30	3.65	1.39	0.00	0.00	8.71	20.39
4500	4.11	2.68	3.33	1.26	0.00	0.00	7.62	19.00	5.14	2.73	4.38	1.66	0.00	0.00	10.32	24.23
4505	6.55	4.27	5.54	2.11	0.00	0.00	12.13	30.60	8.19	4.34	7.30	2.77	0.00	0.00	16.43	39.03
4510	9.28	6.05	8.10	3.08	0.00	0.00	17.19	43.70	11.60	6.16	10.67	4.05	0.00	0.00	23.28	55.76
4520	2.47	1.61	1.79	0.68	0.00	0.00	4.57	11.12	3.08	1.64	2.36	0.90	0.00	0.00	6.19	14.17
4525	3.22	2.10	2.77	1.05	0.00	0.00	5.96	15.10	4.02	2.13	3.65	1.39	0.00	0.00	8.07	19.26
4535	2.91	1.90	2.69	1.02	0.00	0.00	5.39	13.91	3.64	1.93	3.54	1.34	0.00	0.00	7.30	17.75
4540	5.12	3.34	4.69	1.78	0.00	0.00	9.48	24.41	6.40	3.39	6.18	2.35	0.00	0.00	12.84	31.16
4545	6.23	4.06	5.76	2.19	0.00	0.00	11.53	29.77	7.78	4.13	7.58	2.88	0.00	0.00	15.62	37.99
4550	9.20	6.00	8.53	3.24	0.00	0.00	17.05	44.02	11.50	6.10	11.23	4.27	0.00	0.00	23.08	56.18
4555	17.97	11.72	14.92	5.67	0.00	0.00	33.28	83.56	22.46	11.92	19.66	7.47	0.00	0.00	45.07	106.58
4565	0.45	0.31	1.35	0.43	0.11	0.02	0.50	3.17	0.57	0.32	1.76	0.56	0.20	0.03	0.66	4.10
4570	0.57	0.39	0.51	0.21	0.11	0.02	0.62	2.43	0.71	0.39	0.68	0.27	0.20	0.03	0.83	3.11
4575	0.66	0.45	1.94	0.62	0.13	0.02	0.73	4.55	0.83	0.46	2.53	0.81	0.26	0.04	0.97	5.90
4580	0.80	0.54	0.75	0.30	0.13	0.02	0.87	3.41	1.00	0.55	0.99	0.40	0.26	0.04	1.17	4.41
4585	0.82	0.55	2.53	0.81	0.09	0.01	0.90	5.71	1.03	0.56	3.30	1.06	0.18	0.03	1.20	7.36
4590	0.79	0.53	2.53	0.81	0.09	0.01	0.86	5.62	0.99	0.54	3.30	1.06	0.18	0.03	1.16	7.26
4595	0.95	0.64	1.11	0.44	0.09	0.01	1.04	4.28	1.19	0.65	1.46	0.58	0.18	0.03	1.39	5.48
4600	0.85	0.57	2.70	0.87	0.09	0.01	0.93	5.02	1.06	0.58	3.52	1.13	0.18	0.03	1.24	7.74
4605	1.01	0.67	2.87	0.92	0.09	0.01	1.10	6.67	1.26	0.69	3.74	1.20	0.18	0.03	1.47	8.57
4610	1.10	0.73	1.42	0.57	0.09	0.01	1.19	5.11	1.37	0.74	1.87	0.75	0.18	0.03	1.60	6.54
4615	1.27	0.87	1.66	0.66	0.28	0.04	1.40	6.18	1.59	0.89	2.18	0.87	0.53	0.08	1.87	8.01
4620	1.37	0.94	2.13	0.85	0.28	0.04	1.51	7.12	1.72	0.96	2.81	1.12	0.53	0.08	2.02	9.24
4625	2.32	1.66	3.08	1.23	0.96	0.14	2.57	11.96	2.90	1.69	4.06	1.62	1.83	0.27	3.45	15.82
4635	3.55	2.42	3.28	1.31	0.67	0.10	3.88	15.21	4.44	2.46	4.32	1.73	1.28	0.19	5.20	19.62
4640	4.27	2.90	4.07	1.63	0.70	0.11	4.67	18.35	5.34	2.95	5.36	2.14	1.35	0.20	6.25	23.59
4645	6.09	4.14	5.22	2.09	1.03	0.15	6.66	25.38	7.62	4.21	6.86	2.75	1.97	0.30	8.92	32.63
4650	8.01	5.53	7.31	2.92	1.95	0.29	8.79	34.80	10.01	5.62	9.62	3.85	3.73	0.56	11.78	45.17
4660	3.03	2.16	2.57	1.03	1.17	0.18	3.36	13.50	3.79	2.20	3.38	1.35	2.23	0.33	4.50	17.78
4665	4.20	2.87	3.16	1.26	0.84	0.13	4.60	17.06	5.25	2.92	4.16	1.66	1.60	0.24	6.16	21.99
4670	4.73	3.25	3.95	1.58	1.03	0.15	5.19	19.88	5.92	3.31	5.20	2.08	1.97	0.30	6.95	25.73
4675	7.21	5.15	5.14	2.06	2.86	0.43	8.00	30.85	9.01	5.24	6.76	2.70	5.46	0.82	10.71	40.70
4680	9.36	6.87	6.72	2.69	4.81	0.72	10.47	41.64	11.70	6.98	8.84	3.54	9.19	1.38	14.03	55.66
4685	11.65	8.74	10.28	3.08	5.20	0.78	11.87	51.60	13.97	8.85	13.52	4.06	9.93	1.49	15.26	67.08
4690	16.56	12.93	14.82	4.45	7.85	1.18	17.05	74.84	19.88	13.10	19.50	5.85	14.99	2.25	21.92	97.49
4695	33.41	26.74	27.27	8.18	19.19	2.88	34.61	152.28	40.09	27.09	35.88	10.76	36.64	5.50	44.50	200.46
4705	3.47	2.45	3.24	1.30	1.17	0.18	3.84	15.65	4.34	2.49	4.26	1.71	2.23	0.33	5.14	20.50
4710	4.23	2.89	4.23	1.69	0.84	0.13	4.63	18.64	5.29	2.94	5.56	2.23	1.60	0.24	6.20	24.06
4715	4.77	3.27	4.78	1.91	1.03	0.15	5.23	21.14	5.96	3.33	6.29	2.52	1.97	0.30	7.00	27.37
4720	7.11	4.97	6.09	2.43	2.14	0.32	7.84	30.90	8.88	5.06	8.01	3.20	4.08	0.61	10.50	40.34
4725	9.41	6.71	8.30	3.32	3.60	0.54	10.44	42.32	11.76	6.82	10.92	4.37	6.87	1.03	13.98	55.75
4730	11.23	8.45	10.79	3.24	5.20	0.78	11.45	51.14	13.47	8.56	14.20	4.26	9.93	1.49	14.72	66.63

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
4735	15.40	11.66	14.23	4.27	5.47	0.82	15.73	67.58	18.48	11.82	18.72	5.62	10.44	1.57	20.23	86.88
4740	28.86	22.49	24.19	7.26	13.50	2.02	29.70	128.02	34.64	22.79	31.82	9.55	25.77	3.86	38.18	166.61
4750	3.15	2.17	3.16	1.26	0.70	0.11	3.46	14.01	3.94	2.20	4.16	1.66	1.35	0.20	4.63	18.14
4755	4.02	2.73	4.03	1.61	0.70	0.11	4.39	17.59	5.02	2.78	5.30	2.12	1.35	0.20	5.88	22.65
4760	4.51	3.10	4.27	1.71	1.03	0.15	4.95	19.72	5.63	3.16	5.62	2.25	1.97	0.30	6.62	25.55
4765	5.82	4.13	5.97	2.39	2.14	0.32	6.45	27.22	7.28	4.21	7.85	3.14	4.08	0.61	8.64	35.81
4770	9.13	6.53	8.50	3.40	3.60	0.54	10.14	41.84	11.42	6.64	11.18	4.47	6.87	1.03	13.58	55.19
4775	13.40	10.29	13.24	3.97	5.47	0.82	13.74	60.93	16.08	10.42	17.42	5.23	10.44	1.57	17.66	78.82
4785	2.84	2.02	3.16	1.26	1.03	0.15	3.15	13.61	3.55	2.05	4.16	1.66	1.97	0.30	4.22	17.91
4790	3.49	2.47	3.95	1.58	1.25	0.19	3.86	16.79	4.36	2.51	5.20	2.08	2.39	0.36	5.17	22.07
4795	4.20	2.91	4.74	1.90	1.09	0.16	4.62	19.62	5.25	2.96	6.24	2.50	2.08	0.31	6.19	25.53
4800	6.02	4.38	6.13	2.45	2.86	0.43	6.72	28.99	7.53	4.46	8.06	3.22	5.46	0.82	9.00	38.55
4805	8.51	6.10	7.47	2.99	3.43	0.51	9.46	38.47	10.64	6.20	9.83	3.93	6.54	0.98	12.66	50.78
4810	10.98	8.28	11.07	3.32	5.20	0.78	11.20	50.83	13.18	8.39	14.56	4.37	9.93	1.49	14.40	66.32
4815	15.75	11.90	16.40	4.92	5.47	0.82	16.07	71.33	18.89	12.06	21.58	6.47	10.44	1.57	20.67	91.68
4820	31.54	24.49	23.32	7.00	14.29	2.14	32.42	135.20	37.84	24.81	30.68	9.20	27.29	4.09	41.68	175.59
4830	6.07	4.41	6.32	2.53	2.86	0.43	6.77	29.39	7.59	4.49	8.32	3.33	5.46	0.82	9.07	39.08
4835	8.27	6.36	9.13	2.74	4.81	0.72	8.48	40.51	9.93	6.45	12.01	3.60	9.19	1.38	10.91	53.47
4840	11.10	8.36	12.13	3.64	5.20	0.78	11.32	52.53	13.32	8.47	15.96	4.79	9.93	1.49	14.56	68.52
4845	16.03	12.09	15.33	4.60	5.47	0.82	16.35	70.69	19.23	12.25	20.18	6.05	10.44	1.57	21.03	90.75
4850	21.99	16.86	17.15	5.15	8.88	1.33	22.53	93.89	26.39	17.08	22.57	6.77	16.95	2.54	28.97	121.27
4860	3.91	2.68	3.36	1.34	0.84	0.13	4.29	16.55	4.89	2.73	4.42	1.77	1.60	0.24	5.74	21.39
4865	4.48	3.09	9.88	3.16	1.03	0.15	4.92	26.71	5.60	3.14	12.88	4.12	1.97	0.30	6.59	34.60
4870	6.10	4.43	5.69	2.28	2.86	0.43	6.81	28.60	7.63	4.51	7.49	3.00	5.46	0.82	9.12	38.03
4875	7.79	5.56	7.19	2.88	2.98	0.45	8.64	35.49	9.74	5.65	9.46	3.79	5.69	0.85	11.58	46.76
4880	7.97	5.96	8.50	3.40	4.81	0.72	8.98	40.34	9.97	6.07	11.18	4.47	9.19	1.38	12.02	54.28
4885	11.09	8.35	11.26	3.38	5.20	0.78	11.31	51.37	13.30	8.46	14.82	4.45	9.93	1.49	14.54	66.99
4890	14.69	11.18	15.81	4.74	5.47	0.82	15.02	67.73	17.63	11.32	20.80	6.24	10.44	1.57	19.32	87.32
4900	2.49	1.88	2.17	0.61	0.21	0.03	3.38	10.77	3.12	1.91	2.86	0.80	0.29	0.04	4.50	13.52
4905	3.61	2.75	3.16	0.89	0.37	0.06	4.92	15.76	4.52	2.79	4.16	1.16	0.51	0.08	6.53	19.75
4915	2.38	1.83	2.45	0.69	0.36	0.05	3.25	11.01	2.97	1.86	3.22	0.90	0.51	0.08	4.31	13.85
4920	3.65	2.81	3.16	0.89	0.53	0.08	4.98	16.10	4.56	2.85	4.16	1.16	0.74	0.11	6.62	20.20
4930	3.06	2.00	1.66	0.63	0.00	0.00	5.67	13.02	3.83	2.03	2.19	0.83	0.00	0.00	7.68	16.56
4935	4.16	2.71	2.26	0.86	0.00	0.00	7.70	17.69	5.20	2.76	2.98	1.13	0.00	0.00	10.43	22.50
4945	3.80	2.48	2.77	1.05	0.00	0.00	7.05	17.15	4.76	2.52	3.65	1.39	0.00	0.00	9.54	21.86
4955	1.21	0.61	0.00	0.12	0.00	0.00	1.87	3.81								
4960	1.14	0.57	0.00	0.12	0.00	0.00	1.77	3.60								
4970	1.28	0.64	0.00	0.22	0.00	0.00	1.99	4.13								
4975	1.93	0.97	0.00	0.30	0.00	0.00	3.00	6.20								
4985	1.51	0.76	0.00	0.24	0.00	0.00	2.35	4.86								
4990	2.04	1.03	0.00	0.44	0.00	0.00	3.17	6.68								
4995	2.39	1.20	0.00	0.70	0.00	0.00	3.71	8.00								
5005	3.32	1.67	0.00	0.06	0.00	0.00	5.15	10.20								
5010	3.44	1.73	0.00	0.06	0.00	0.00	5.35	10.58								
5015	5.94	2.98	0.00	0.06	0.00	0.00	9.22	18.20								
5020	6.31	3.16	0.00	0.06	0.00	0.00	9.79	19.32								
5030	3.30	1.65	0.00	0.38	0.00	0.00	5.11	10.44								
5035	3.77	1.89	0.00	0.44	0.00	0.00	5.85	11.95								
5040	4.33	2.17	0.00	0.53	0.00	0.00	6.72	13.75								
5045	4.74	2.38	0.00	0.65	0.00	0.00	7.36	15.13								
5050	5.30	2.66	0.00	0.57	0.00	0.00	8.23	16.76								
5055	6.35	3.19	0.00	0.84	0.00	0.00	9.85	20.23								
5060	7.54	3.79	0.00	0.84	0.00	0.00	11.71	23.88								
5065	8.87	4.45	0.00	1.02	0.00	0.00	13.77	28.11								
5070	14.91	7.48	0.00	1.12	0.00	0.00	23.15	46.66								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
5080	2.42	1.22	0.00	0.44	0.00	0.00	3.76	7.84								
5085	2.87	1.44	0.00	0.58	0.00	0.00	4.45	9.34								
5090	3.90	1.96	0.00	0.58	0.00	0.00	6.06	12.50								
5095	1.01	0.51	0.00	0.22	0.00	0.00	1.57	3.31								
5100	1.26	0.63	0.00	0.30	0.00	0.00	1.96	4.15								
5105	1.62	0.82	0.00	0.38	0.00	0.00	2.52	5.34								
5115	4.18	2.10	0.00	0.60	0.00	0.00	6.49	13.37								
5120	4.80	2.41	0.00	0.70	0.00	0.00	7.45	15.36								
5125	5.15	2.58	0.00	0.84	0.00	0.00	7.99	16.56								
5130	6.19	3.11	0.00	0.98	0.00	0.00	9.61	19.89								
5135	7.80	3.92	0.00	1.02	0.00	0.00	12.11	24.85								
5140	11.28	5.66	0.00	1.21	0.00	0.00	17.51	35.66								
5150	5.88	2.95	2.33	0.65	0.00	0.00	9.12	20.93								
5155	11.49	5.76	6.17	1.73	0.00	0.00	17.83	42.98								
5160	15.67	7.87	11.66	3.26	0.00	0.00	24.33	62.79								
5170	5.77	5.05	2.29	0.73	0.00	0.00	7.28	21.12	6.92	5.10	2.95	0.94	0.00	0.00	9.90	25.81
5175	9.22	8.06	4.37	1.40	0.00	0.00	11.62	34.67	11.06	8.14	5.62	1.80	0.00	0.00	15.81	42.43
5180	10.55	9.22	4.37	1.40	0.00	0.00	13.31	38.85	12.66	9.32	5.62	1.80	0.00	0.00	18.10	47.50
5185	13.29	11.62	6.55	2.10	0.00	0.00	16.76	50.32	15.95	11.74	8.42	2.70	0.00	0.00	22.80	61.61
5190	18.56	16.23	8.95	2.87	0.00	0.00	23.41	70.02	22.27	16.39	11.51	3.68	0.00	0.00	31.83	85.68
5200	1.08	0.50	0.00	0.14	0.00	0.00	1.31	3.03								
5205	0.40	0.19	0.00	0.09	0.00	0.00	0.48	1.16								
5210	1.59	0.74	0.00	0.28	0.00	0.00	1.94	4.55								
5215	0.69	0.32	0.00	0.05	0.00	0.00	0.84	1.90								
5225	0.47	0.27	1.16	0.37	0.00	0.00	0.50	2.77								
5230	0.59	0.34	1.75	0.56	0.00	0.00	0.64	3.88								
5240	0.03	0.02	0.23	0.07	0.00	0.00	0.03	0.38								
5245	0.04	0.02	0.35	0.11	0.00	0.00	0.04	0.56								
5250	0.07	0.04	0.93	0.30	0.00	0.00	0.08	1.42								
5260	0.61	0.35	5.01	1.60	0.00	0.00	0.67	8.24								
5265	0.35	0.20	1.65	0.63	0.00	0.00	0.38	3.21								
5270	0.82	0.47	9.20	2.94	0.00	0.00	0.88	14.31								
5275	1.17	0.67	3.31	1.26	0.00	0.00	1.27	7.68								
5280	1.51	0.86	3.86	1.47	0.00	0.00	1.64	9.34								
5285	1.60	0.92	3.75	1.42	0.00	0.00	1.74	9.43								
5295	0.06	0.04	0.58	0.19	0.00	0.00	0.07	0.94								
5300	0.09	0.05	0.93	0.30	0.00	0.00	0.09	1.46								
5305	0.17	0.10	1.86	0.60	0.00	0.00	0.19	2.92								
5315	0.07	0.04	0.35	0.11	0.00	0.00	0.08	0.65								
5320	0.09	0.05	0.35	0.11	0.00	0.00	0.09	0.69								
5330	0.09	0.05	0.11	0.05	0.00	0.00	0.05	0.35								
5335	0.12	0.07	0.22	0.10	0.00	0.00	0.06	0.57								
5345	3.51	1.66	0.00	0.07	0.00	0.00	4.01	9.25	4.68	1.72	0.00	0.07	0.00	0.00	6.01	12.48
5350	0.27	0.13	0.00	0.00	0.00	0.00	0.31	0.71	0.37	0.13	0.00	0.00	0.00	0.00	0.47	0.97
5355	2.04	0.96	0.00	0.07	0.00	0.00	2.32	5.39	2.71	0.99	0.00	0.07	0.00	0.00	3.48	7.25
5360	0.20	0.09	0.00	0.00	0.00	0.00	0.23	0.52	0.26	0.10	0.00	0.00	0.00	0.00	0.34	0.70
5365	1.70	0.80	0.00	0.07	0.00	0.00	1.94	4.51	2.26	0.83	0.00	0.07	0.00	0.00	2.91	6.07
5370	0.12	0.06	0.00	0.00	0.00	0.00	0.14	0.32	0.16	0.06	0.00	0.00	0.00	0.00	0.21	0.43
5375	0.77	0.37	0.00	0.07	0.00	0.00	0.88	2.09	1.03	0.38	0.00	0.07	0.00	0.00	1.32	2.80
5380	0.03	0.01	0.00	0.00	0.00	0.00	0.03	0.07	0.04	0.01	0.00	0.00	0.00	0.00	0.05	0.10
5385	1.75	0.83	0.00	0.07	0.00	0.00	1.99	4.64	2.33	0.85	0.00	0.07	0.00	0.00	2.99	6.24
5390	0.16	0.07	0.00	0.00	0.00	0.00	0.18	0.41	0.21	0.08	0.00	0.00	0.00	0.00	0.27	0.56
5395	1.28	0.61	0.00	0.07	0.00	0.00	1.46	3.42	1.71	0.63	0.00	0.07	0.00	0.00	2.19	4.60
5400	0.12	0.05	0.00	0.00	0.00	0.00	0.13	0.30	0.15	0.06	0.00	0.00	0.00	0.00	0.20	0.41
5405	0.72	0.34	0.00	0.07	0.00	0.00	0.82	1.95	0.96	0.35	0.00	0.07	0.00	0.00	1.24	2.62

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
5410	0.02	0.01	0.00	0.00	0.00	0.00	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.04	0.08
5415	1.97	0.93	0.00	0.07	0.00	0.00	2.25	5.22	2.63	0.96	0.00	0.07	0.00	0.00	3.38	7.04
5420	0.16	0.07	0.00	0.00	0.00	0.00	0.18	0.41	0.21	0.08	0.00	0.00	0.00	0.00	0.27	0.56
5425	1.92	0.91	0.00	0.07	0.00	0.00	2.19	5.09	2.56	0.94	0.00	0.07	0.00	0.00	3.29	6.86
5430	0.37	0.17	0.00	0.00	0.00	0.00	0.42	0.96	0.49	0.18	0.00	0.00	0.00	0.00	0.63	1.30
5435	1.75	0.83	0.00	0.07	0.00	0.00	1.99	4.64	2.33	0.85	0.00	0.07	0.00	0.00	2.99	6.24
5440	0.16	0.07	0.00	0.00	0.00	0.00	0.18	0.41	0.21	0.08	0.00	0.00	0.00	0.00	0.27	0.56
5445	0.60	0.35	0.00	0.07	0.00	0.00	0.69	1.71	0.75	0.36	0.00	0.07	0.00	0.00	0.96	2.14
5455	4.25	2.01	0.00	0.07	0.00	0.00	4.85	11.18	5.66	2.08	0.00	0.07	0.00	0.00	7.27	15.08
5460	0.31	0.15	0.00	0.00	0.00	0.00	0.35	0.81	0.41	0.15	0.00	0.00	0.00	0.00	0.53	1.09
5465	4.53	2.15	0.00	0.07	0.00	0.00	5.17	11.92	6.04	2.21	0.00	0.07	0.00	0.00	7.76	16.08
5470	3.62	1.71	0.00	0.07	0.00	0.00	4.13	9.53	4.83	1.77	0.00	0.07	0.00	0.00	6.20	12.87
5475	0.28	0.13	0.00	0.00	0.00	0.00	0.32	0.73	0.37	0.14	0.00	0.00	0.00	0.00	0.48	0.99
5480	3.37	1.60	0.00	0.07	0.00	0.00	3.85	8.89	4.49	1.65	0.00	0.07	0.00	0.00	5.77	11.98
5485	2.35	1.11	0.00	0.07	0.00	0.00	2.68	6.21	3.13	1.15	0.00	0.07	0.00	0.00	4.02	8.37
5490	0.16	0.07	0.00	0.00	0.00	0.00	0.18	0.41	0.21	0.08	0.00	0.00	0.00	0.00	0.27	0.56
5495	2.28	1.08	0.00	0.07	0.00	0.00	2.60	6.03	3.04	1.11	0.00	0.07	0.00	0.00	3.90	8.12
5500	1.37	0.65	0.00	0.07	0.00	0.00	1.56	3.65	1.82	0.67	0.00	0.07	0.00	0.00	2.34	4.90
5505	0.08	0.04	0.00	0.00	0.00	0.00	0.09	0.21	0.11	0.04	0.00	0.00	0.00	0.00	0.14	0.29
5510	0.85	0.40	0.00	0.07	0.00	0.00	0.98	2.30	1.14	0.42	0.00	0.07	0.00	0.00	1.46	3.09
5515	0.04	0.02	0.00	0.00	0.00	0.00	0.05	0.11	0.06	0.02	0.00	0.00	0.00	0.00	0.07	0.15
5520	0.53	0.25	0.00	0.07	0.00	0.00	0.60	1.45	0.70	0.26	0.00	0.07	0.00	0.00	0.90	1.93
5525	0.02	0.01	0.00	0.00	0.00	0.00	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.04	0.08
5530	0.23	0.11	0.00	0.07	0.00	0.00	0.27	0.68	0.31	0.11	0.00	0.07	0.00	0.00	0.40	0.89
5535	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.02	0.05
5545	4.79	2.27	0.00	0.05	0.00	0.00	5.47	12.58	6.39	2.34	0.00	0.05	0.00	0.00	8.20	16.98
5550	3.88	1.84	0.00	0.05	0.00	0.00	4.43	10.20	5.17	1.89	0.00	0.05	0.00	0.00	6.64	13.75
5555	2.52	1.19	0.00	0.05	0.00	0.00	2.88	6.64	3.36	1.23	0.00	0.05	0.00	0.00	4.32	8.96
5560	2.38	1.13	0.00	0.05	0.00	0.00	2.72	6.28	3.18	1.17	0.00	0.05	0.00	0.00	4.08	8.48
5570	2.14	1.41	3.36	0.81	0.21	0.03	2.49	10.45								
5575	2.29	1.50	3.36	0.81	0.21	0.03	2.65	10.85								
5580	3.04	1.98	3.36	0.81	0.26	0.04	3.52	13.01								
5585	4.61	3.32	4.94	1.19	1.65	0.25	5.49	21.45								
5595	1.93	1.27	3.00	0.72	0.21	0.03	2.24	9.40								
5600	2.08	1.37	3.00	0.72	0.21	0.03	2.41	9.82								
5605	2.13	1.40	3.08	0.74	0.21	0.03	2.47	10.06								
5610	2.03	1.35	9.04	2.17	0.26	0.04	2.36	17.25								
5615	2.28	1.50	3.00	0.72	0.26	0.04	2.64	10.44								
5620	2.11	1.41	9.04	2.17	0.30	0.05	2.46	17.54								
5625	2.36	1.57	3.00	0.72	0.30	0.05	2.74	10.74								
5630	5.11	3.42	4.62	1.11	0.76	0.11	5.96	21.09								
5640	2.16	1.42	2.69	0.64	0.21	0.03	2.50	9.65								
5645	2.54	1.76	2.69	0.64	0.60	0.09	2.99	11.31								
5650	5.37	3.58	5.14	1.23	0.73	0.11	6.25	22.41								
5655	6.49	4.36	5.14	1.23	1.06	0.16	7.57	26.01								
5665	2.13	2.31	0.00	0.05	2.22	0.33	2.93	9.97								
5670	2.91	2.69	0.00	0.05	2.73	0.41	3.77	12.56								
5680	2.57	2.95	0.00	0.09	3.05	0.46	3.61	12.73								
5685	2.69	2.62	0.00	0.09	2.11	0.32	3.55	11.38								
5690	4.45	4.14	0.00	0.09	3.05	0.46	5.77	17.96								
5700	0.45	0.36	0.00	0.05	0.24	0.04	0.55	1.69								
5710	0.78	0.49	0.00	0.11	0.00	0.00	0.90	2.28								
5715	0.99	0.63	0.00	0.11	0.00	0.00	1.14	2.87								
5720	1.02	0.65	0.00	0.11	0.00	0.00	1.17	2.95								
5725	1.53	0.97	0.00	0.11	0.00	0.00	1.76	4.37								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
5730	2.34	1.48	0.00	0.11	0.00	0.00	2.69	6.62								
5735	3.56	2.25	0.00	0.11	0.00	0.00	4.08	10.00								
5740	2.32	1.47	0.00	0.12	0.00	0.00	2.66	6.57								
5745	2.70	1.71	0.00	0.11	0.00	0.00	3.10	7.62								
5750	4.19	2.65	0.00	0.11	0.00	0.00	4.80	11.75								
5760	0.35	0.22	0.00	0.12	0.00	0.00	0.40	1.09								
5765	0.70	0.44	0.00	0.12	0.00	0.00	0.80	2.06								
5775	9.83	6.22	6.72	1.61	0.00	0.00	11.28	35.66								
5780	15.05	9.52	12.25	2.94	0.00	0.00	17.27	57.03								
5785	15.85	10.02	12.25	2.94	0.00	0.00	18.18	59.24								
5795	16.56	10.48	13.04	3.13	0.00	0.00	19.00	62.21								
5805	1.59	1.01	1.54	0.37	0.00	0.00	1.82	6.33								
5810	1.93	1.22	1.54	0.37	0.00	0.00	2.21	7.27								
5815	2.65	1.68	3.36	0.81	0.00	0.00	3.05	11.55								
5820	2.85	1.80	3.36	0.81	0.00	0.00	3.27	12.09								
5825	3.08	1.95	3.36	0.81	0.00	0.00	3.53	12.73								
5830	3.36	2.13	3.36	0.81	0.00	0.00	3.86	13.52								
5840	3.41	2.16	9.04	2.17	0.00	0.00	3.91	20.69								
5845	3.65	2.31	3.36	0.81	0.00	0.00	4.19	14.32								
5850	3.62	2.29	9.04	2.17	0.00	0.00	4.15	21.27								
5855	3.86	2.44	3.36	0.81	0.00	0.00	4.43	14.90								
5860	1.61	1.02	4.56	1.09	0.00	0.00	1.85	10.13								
5865	2.28	1.44	9.04	2.17	0.00	0.00	2.61	17.54								
5870	2.52	1.59	3.00	0.72	0.00	0.00	2.89	10.72								
5875	2.76	1.75	9.04	2.17	0.00	0.00	3.17	18.89								
5880	3.00	1.90	3.00	0.72	0.00	0.00	3.45	12.07								
5885	2.99	1.89	9.04	2.17	0.00	0.00	3.43	19.52								
5890	3.24	2.05	3.00	0.72	0.00	0.00	3.71	12.72								
5900	1.04	0.53	2.10	0.50	0.00	0.00	1.49	5.66								
5905	1.27	0.65	2.10	0.50	0.00	0.00	1.82	6.34								
5910	2.58	1.33	2.37	0.57	0.00	0.00	3.69	10.54								
5915	2.80	1.44	2.37	0.57	0.00	0.00	4.01	11.19								
5920	3.97	2.05	5.24	1.26	0.00	0.00	5.70	18.22								
5925	4.17	2.15	5.24	1.26	0.00	0.00	5.98	18.80								
5935	2.98	1.53	2.70	0.65	0.00	0.00	4.27	12.13								
5940	3.24	1.67	2.70	0.65	0.00	0.00	4.64	12.90								
5945	4.82	2.48	4.24	1.02	0.00	0.00	6.91	19.47								
5950	5.26	2.71	4.24	1.02	0.00	0.00	7.55	20.78								
5960	2.53	1.30	1.98	0.48	0.00	0.00	3.62	9.91								
5965	3.01	1.55	2.15	0.52	0.00	0.00	4.32	11.55								
5975	1.54	0.79	1.65	0.40	0.00	0.00	2.20	6.58								
5980	1.39	0.72	1.65	0.40	0.00	0.00	2.00	6.16								
5990	6.06	3.12	4.13	0.99	0.00	0.00	8.69	22.99								
5995	4.62	2.38	2.76	0.66	0.00	0.00	6.63	17.05								
6005	1.87	0.96	1.98	0.48	0.00	0.00	2.68	7.97								
6010	3.72	1.92	3.31	0.79	0.00	0.00	5.34	15.08								
6015	5.03	2.59	4.96	1.19	0.00	0.00	7.21	20.98								
6025	4.53	2.36	4.02	0.97	0.14	0.02	6.52	18.56								
6030	5.02	2.64	4.02	0.97	0.25	0.04	7.24	20.18								
6035	5.67	2.97	4.02	0.97	0.21	0.03	8.17	22.04								
6040	6.66	3.55	6.89	1.65	0.52	0.08	9.64	28.99								
6045	5.24	2.83	6.89	1.65	0.56	0.08	7.62	24.87								
6050	5.56	2.99	6.89	1.65	0.56	0.08	8.07	25.80								
6055	6.41	3.43	6.89	1.65	0.56	0.08	9.29	28.31								
6060	5.86	3.14	6.89	1.65	0.56	0.08	8.50	26.68								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
6065	7.35	3.91	6.89	1.65	0.56	0.08	10.64	31.08								
6075	6.07	3.13	6.89	1.65	0.00	0.00	8.71	26.45								
6080	5.23	2.81	4.69	1.12	0.52	0.08	7.60	22.05								
6085	5.73	3.08	6.61	1.59	0.56	0.08	8.32	25.97								
6090	6.58	3.51	6.61	1.59	0.56	0.08	9.53	28.46								
6100	6.60	3.53	6.34	1.52	0.56	0.08	9.57	28.20								
6105	10.55	5.59	11.58	2.78	0.69	0.10	15.25	46.54								
6115	4.47	2.33	3.86	0.93	0.11	0.02	6.43	18.15								
6120	4.48	2.36	3.86	0.93	0.22	0.03	6.46	18.34								
6125	6.13	3.18	4.41	1.06	0.12	0.02	8.81	23.73								
6130	5.18	2.71	4.41	1.06	0.22	0.03	7.46	21.07								
6135	4.87	2.55	3.86	0.93	0.20	0.03	7.01	19.45								
6140	5.52	2.97	4.85	1.16	0.56	0.08	8.02	23.16								
6145	6.57	3.50	4.85	1.16	0.52	0.08	9.51	26.19								
6150	6.60	3.52	4.85	1.16	0.56	0.08	9.56	26.33								
6155	7.39	3.92	6.56	1.57	0.51	0.08	10.68	30.71								
6160	6.33	3.39	6.89	1.65	0.56	0.08	9.17	28.07								
6165	7.56	4.37	6.56	1.57	2.09	0.31	11.21	33.67								
6170	6.47	3.80	6.56	1.57	2.09	0.31	9.65	30.45								
6175	6.44	3.59	6.89	1.65	1.21	0.18	9.45	29.41								
6185	4.44	2.33	3.75	0.90	0.20	0.03	6.40	18.05								
6190	3.90	2.04	3.75	0.90	0.14	0.02	5.62	16.37								
6195	4.76	2.48	4.41	1.06	0.14	0.02	6.85	19.72								
6200	5.20	2.72	4.13	0.99	0.20	0.03	7.49	20.76								
6205	5.24	2.73	4.41	1.06	0.14	0.02	7.54	21.14								
6210	6.66	3.56	6.06	1.46	0.56	0.08	9.65	28.03								
6215	5.49	2.96	5.90	1.42	0.56	0.08	7.98	24.39								
6220	5.96	3.20	5.90	1.42	0.56	0.08	8.65	25.77								
6225	7.67	4.08	6.06	1.46	0.56	0.08	11.10	31.01								
6235	0.81	0.42	0.88	0.21	0.00	0.00	1.17	3.49								
6240	2.37	1.22	1.87	0.45	0.00	0.00	3.40	9.31								
6245	5.32	2.74	3.91	0.94	0.00	0.00	7.63	20.54								
6250	6.81	3.51	6.89	1.65	0.00	0.00	9.76	28.62								
6255	8.62	4.44	8.54	2.05	0.00	0.00	12.36	36.01								
6260	9.91	5.10	9.98	2.39	0.00	0.00	14.21	41.59								
6265	11.19	5.77	12.40	2.98	0.00	0.00	16.05	48.39								
6275	0.83	0.43	0.88	0.21	0.00	0.00	1.20	3.55								
6280	2.02	1.04	1.93	0.46	0.00	0.00	2.89	8.34								
6285	5.27	2.71	3.86	0.93	0.00	0.00	7.55	20.32								
6290	7.23	3.72	6.34	1.52	0.00	0.00	10.37	29.18								
6295	8.42	4.34	6.56	1.57	0.00	0.00	12.07	32.96								
6305	0.82	0.42	0.77	0.19	0.00	0.00	1.18	3.38								
6310	4.17	2.15	2.87	0.69	0.00	0.00	5.98	15.86								
6315	6.29	3.24	4.41	1.06	0.00	0.00	9.02	24.02								
6320	8.52	4.39	8.60	2.06	0.00	0.00	12.22	35.79								
6325	12.76	6.57	14.44	3.47	0.00	0.00	18.31	55.55								
6335	6.93	5.30	6.08	2.07	4.94	0.74	8.30	34.36	8.67	5.39	7.96	2.71	8.20	1.23	11.06	45.22
6340	14.88	10.31	12.01	3.24	11.67	1.75	13.11	66.97	18.60	10.51	15.79	4.26	19.38	2.91	17.75	89.20
6345	15.40	11.90	13.38	3.21	11.67	1.75	16.03	73.34	19.26	12.10	17.50	4.20	19.38	2.91	21.58	96.93
6350	19.09	12.02	17.32	4.33	8.99	1.35	17.78	80.88	23.87	12.26	22.46	5.62	15.61	2.34	23.94	106.10
6355	20.37	12.76	17.32	4.33	8.99	1.35	18.94	84.06	25.46	13.01	22.46	5.62	15.61	2.34	25.50	110.00
6360	24.29	15.51	16.38	4.42	10.08	1.51	20.95	93.14	30.36	15.81	21.53	5.81	16.74	2.51	28.37	121.13
6365	25.77	18.34	18.25	4.38	10.08	1.51	26.14	104.47	32.21	18.66	23.87	5.73	16.74	2.51	35.19	134.91
6370	30.50	19.09	27.13	6.78	13.37	2.01	28.37	127.25	38.12	19.47	35.19	8.80	23.22	3.48	38.19	166.47
6375	31.91	19.91	27.13	6.78	13.37	2.01	29.65	130.76	39.88	20.29	35.19	8.80	23.22	3.48	39.91	170.77

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
6380	30.31	19.31	20.02	5.41	12.31	1.85	26.14	115.35	37.89	19.69	26.31	7.10	20.44	3.07	35.39	149.89
6385	31.69	20.11	20.02	5.41	12.31	1.85	27.30	118.69	39.62	20.50	26.31	7.10	20.44	3.07	36.97	154.01
6390	39.83	24.81	36.56	9.14	16.32	2.45	37.00	166.11	49.78	25.29	47.42	11.86	28.35	4.25	49.80	216.75
6400	6.11	4.39	6.49	2.21	2.65	0.40	7.17	29.42	7.63	4.47	8.49	2.89	4.40	0.66	9.56	38.10
6405	7.05	5.05	7.06	2.40	2.93	0.44	8.27	33.20	8.82	5.14	9.23	3.14	4.87	0.73	11.03	42.96
6410	9.15	6.64	9.41	2.26	4.37	0.66	9.34	41.83	11.44	6.76	12.31	2.95	7.26	1.09	12.57	54.38
6415	13.93	8.72	10.77	2.69	6.08	0.91	12.96	56.06	17.41	8.89	13.98	3.49	10.55	1.58	17.44	73.34
6420	15.56	11.12	13.14	3.15	6.35	0.95	15.80	66.07	19.46	11.31	17.18	4.12	10.54	1.58	21.28	85.47
6430	10.11	7.26	9.29	2.23	4.37	0.66	10.28	44.20	12.63	7.39	12.15	2.92	7.26	1.09	13.84	57.28
6435	14.74	9.44	11.83	3.19	6.29	0.94	12.72	59.15	18.42	9.62	15.55	4.20	10.45	1.57	17.23	77.04
6440	15.68	11.12	13.18	3.16	5.89	0.88	15.89	65.80	19.61	11.32	17.24	4.14	9.79	1.47	21.39	84.96
6445	18.05	11.42	19.09	4.77	8.99	1.35	16.83	80.50	22.57	11.64	24.76	6.19	15.61	2.34	22.66	105.77
6450	21.81	13.53	19.09	4.77	8.42	1.26	20.24	89.12	27.26	13.79	24.76	6.19	14.62	2.19	27.24	116.05
6460	7.30	5.19	6.81	2.32	2.79	0.42	8.54	33.37	9.13	5.28	8.91	3.03	4.64	0.70	11.39	43.08
6465	15.62	10.02	11.87	3.20	6.78	1.02	13.49	62.00	19.52	10.21	15.60	4.21	11.25	1.69	18.27	80.75
6470	18.64	11.76	19.66	4.92	8.99	1.35	17.37	82.69	23.31	11.99	25.51	6.38	15.61	2.34	23.39	108.53
6475	16.22	11.62	13.22	3.17	6.78	1.02	16.48	68.51	20.27	11.82	17.29	4.15	11.25	1.69	22.19	88.66
6480	21.02	13.21	19.66	4.92	9.68	1.45	19.57	89.51	26.28	13.47	25.51	6.38	16.81	2.52	26.35	117.32
6490	7.73	5.46	7.10	2.41	2.79	0.42	9.03	34.94	9.66	5.56	9.28	3.16	4.64	0.70	12.03	45.03
6495	10.27	7.37	10.14	2.43	4.37	0.66	10.44	45.68	12.84	7.50	13.26	3.18	7.26	1.09	14.06	59.19
6505	15.31	11.03	12.57	3.02	6.78	1.02	15.58	65.31	19.13	11.22	16.44	3.95	11.25	1.69	20.98	84.66
6510	25.06	16.44	17.29	4.67	13.40	2.01	21.77	100.64	31.33	16.77	22.72	6.14	22.27	3.34	29.48	132.05
6515	16.57	10.44	11.08	2.77	7.84	1.18	15.43	65.31	20.71	10.64	14.38	3.59	13.62	2.04	20.78	85.76
6520	21.92	13.73	20.01	5.00	9.68	1.45	20.39	92.18	27.40	14.00	25.96	6.49	16.81	2.52	27.45	120.63
6525	29.43	18.43	23.82	5.95	12.99	1.95	27.37	119.94	36.78	18.79	30.90	7.73	22.57	3.39	36.85	157.01
6530	32.90	20.97	27.59	6.90	17.78	2.67	30.73	139.54	41.12	21.38	35.79	8.95	30.88	4.63	41.37	184.12
6545	3.66	2.90	0.00	0.12	1.71	0.26	3.73	12.38	4.39	2.93	0.00	0.12	2.24	0.34	4.79	14.81
6550	4.64	3.85	0.00	0.12	2.90	0.43	4.78	16.72	5.57	3.90	0.00	0.12	3.79	0.57	6.15	20.10
6560	1.81	1.48	0.00	0.07	0.99	0.15	1.86	5.36	2.18	1.50	0.00	0.07	1.30	0.19	2.39	7.63
6570	2.29	1.68	2.77	0.89	0.00	0.00	4.23	11.86	2.86	1.71	3.65	1.17	0.00	0.00	5.77	15.16
6575	0.55	0.32	0.00	0.07	0.00	0.00	0.63	1.57	0.69	0.33	0.00	0.07	0.00	0.00	0.89	1.98
6580	2.86	2.10	3.20	1.02	0.00	0.00	5.29	14.47	3.57	2.14	4.21	1.35	0.00	0.00	7.21	18.48
6585	0.71	0.41	0.00	0.07	0.00	0.00	0.81	2.00	0.89	0.42	0.00	0.07	0.00	0.00	1.15	2.53
6590	0.56	0.32	0.00	0.07	0.00	0.00	0.63	1.58	0.69	0.33	0.00	0.07	0.00	0.00	0.89	1.98
6595	4.79	3.52	4.48	1.43	0.00	0.00	8.85	23.07	5.98	3.58	5.90	1.89	0.00	0.00	12.07	29.42
6600	0.89	0.51	0.00	0.07	0.00	0.00	1.01	2.48	1.11	0.52	0.00	0.07	0.00	0.00	1.42	3.12
6605	0.68	0.40	0.00	0.07	0.00	0.00	0.78	1.93	0.85	0.40	0.00	0.07	0.00	0.00	1.10	2.42
6610	6.55	4.82	5.97	1.91	0.00	0.00	12.11	31.36	8.19	4.89	7.86	2.52	0.00	0.00	16.52	39.98
6615	0.89	0.52	0.00	0.07	0.00	0.00	1.02	2.50	1.12	0.53	0.00	0.07	0.00	0.00	1.43	3.15
6620	1.01	0.59	0.00	0.07	0.00	0.00	1.15	2.82	1.26	0.60	0.00	0.07	0.00	0.00	1.62	3.55
6625	9.41	6.93	8.53	2.73	0.00	0.00	17.41	45.01	11.76	7.03	11.23	3.59	0.00	0.00	23.74	57.35
6630	1.44	0.84	0.00	0.07	0.00	0.00	1.64	3.99	1.80	0.85	0.00	0.07	0.00	0.00	2.31	5.03
6635	1.58	0.92	0.00	0.07	0.00	0.00	1.80	4.37	1.97	0.93	0.00	0.07	0.00	0.00	2.53	5.50
6640	1.26	0.73	0.00	0.07	0.00	0.00	1.43	3.49	1.57	0.74	0.00	0.07	0.00	0.00	2.01	4.39
6645	11.46	8.86	12.79	3.20	0.00	0.00	15.92	52.23	13.75	8.96	16.85	4.21	0.00	0.00	21.22	64.99
6650	2.10	1.22	0.00	0.07	0.00	0.00	2.40	5.79	2.63	1.24	0.00	0.07	0.00	0.00	3.37	7.31
6655	2.31	1.34	0.00	0.07	0.00	0.00	2.64	6.36	2.89	1.37	0.00	0.07	0.00	0.00	3.71	8.04
6660	1.78	1.03	0.00	0.07	0.00	0.00	2.03	4.91	2.22	1.05	0.00	0.07	0.00	0.00	2.85	6.19
6665	0.05	0.03	0.00	0.05	0.00	0.00	0.06	0.19	0.07	0.03	0.00	0.05	0.00	0.00	0.09	0.24
6670	16.61	13.20	19.61	4.32	0.00	0.00	21.32	75.06	19.38	13.33	25.83	5.68	0.00	0.00	27.64	91.86
6675	2.88	1.67	0.00	0.07	0.00	0.00	3.28	7.90	3.59	1.70	0.00	0.07	0.00	0.00	4.61	9.97
6680	2.24	1.30	0.00	0.07	0.00	0.00	2.55	6.16	2.80	1.33	0.00	0.07	0.00	0.00	3.59	7.79
6685	3.04	1.77	0.00	0.07	0.00	0.00	3.47	8.35	3.80	1.80	0.00	0.07	0.00	0.00	4.88	10.55
6690	2.53	1.47	0.00	0.07	0.00	0.00	2.89	6.96	3.16	1.50	0.00	0.07	0.00	0.00	4.06	8.79
6695	0.76	0.44	0.00	0.12	0.00	0.00	0.87	2.19	0.95	0.45	0.00	0.12	0.00	0.00	1.22	2.74

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
6700	0.08	0.05	0.00	0.07	0.00	0.00	0.09	0.29	0.10	0.05	0.00	0.07	0.00	0.00	0.13	0.35
6705	28.02	22.27	29.85	6.57	0.00	0.00	35.97	122.68	32.69	22.48	39.31	8.65	0.00	0.00	46.63	149.76
6710	4.38	2.55	0.00	0.07	0.00	0.00	5.00	12.00	5.48	2.59	0.00	0.07	0.00	0.00	7.04	15.18
6715	4.82	2.80	0.00	0.07	0.00	0.00	5.51	13.20	6.03	2.86	0.00	0.07	0.00	0.00	7.74	16.70
6720	0.09	0.05	0.00	0.07	0.00	0.00	0.11	0.32	0.12	0.06	0.00	0.07	0.00	0.00	0.15	0.40
6725	1.34	0.78	0.00	0.07	0.00	0.00	1.53	3.72	1.68	0.79	0.00	0.07	0.00	0.00	2.15	4.69
6735	3.49	2.57	3.75	1.20	0.00	0.00	6.46	17.47	4.37	2.61	4.94	1.58	0.00	0.00	8.82	22.32
6740	0.60	0.35	0.00	0.07	0.00	0.00	0.69	1.71	0.76	0.36	0.00	0.07	0.00	0.00	0.97	2.16
6745	0.60	0.35	0.00	0.05	0.00	0.00	0.69	1.69	0.75	0.36	0.00	0.05	0.00	0.00	0.97	2.13
6750	4.69	3.45	5.20	1.66	0.00	0.00	8.67	23.67	5.86	3.50	6.85	2.19	0.00	0.00	11.83	30.23
6755	0.67	0.39	0.00	0.07	0.00	0.00	0.77	1.90	0.84	0.40	0.00	0.07	0.00	0.00	1.08	2.39
6760	0.82	0.48	0.00	0.05	0.00	0.00	0.94	2.29	1.03	0.49	0.00	0.05	0.00	0.00	1.32	2.89
6765	6.56	4.83	6.40	2.05	0.00	0.00	12.14	31.98	8.20	4.90	8.42	2.70	0.00	0.00	16.55	40.77
6770	1.03	0.60	0.00	0.07	0.00	0.00	1.18	2.88	1.29	0.61	0.00	0.07	0.00	0.00	1.65	3.62
6775	1.03	0.60	0.00	0.05	0.00	0.00	1.17	2.85	1.29	0.61	0.00	0.05	0.00	0.00	1.65	3.60
6780	8.36	6.15	9.51	3.04	0.00	0.00	15.46	42.52	10.45	6.25	12.52	4.01	0.00	0.00	21.08	54.31
6785	1.10	0.64	0.00	0.07	0.00	0.00	1.25	3.06	1.37	0.65	0.00	0.07	0.00	0.00	1.76	3.85
6790	1.15	0.67	0.00	0.07	0.00	0.00	1.31	3.20	1.44	0.68	0.00	0.07	0.00	0.00	1.85	4.04
6795	1.56	0.91	0.00	0.05	0.00	0.00	1.78	4.30	1.95	0.93	0.00	0.05	0.00	0.00	2.51	5.44
6800	11.34	8.77	12.79	3.20	0.00	0.00	15.76	51.86	13.51	8.88	16.85	4.21	0.00	0.00	21.01	64.56
6805	2.18	1.26	0.00	0.05	0.00	0.00	2.48	5.97	2.72	1.29	0.00	0.05	0.00	0.00	3.49	7.55
6810	2.21	1.28	0.00	0.05	0.00	0.00	2.52	6.06	2.76	1.31	0.00	0.05	0.00	0.00	3.55	7.67
6815	15.61	12.07	18.12	4.53	0.00	0.00	21.69	72.02	18.73	12.21	23.87	5.97	0.00	0.00	28.92	89.70
6820	3.28	1.90	0.00	0.05	0.00	0.00	3.74	8.97	4.10	1.94	0.00	0.05	0.00	0.00	5.26	11.35
6825	3.36	1.95	0.00	0.05	0.00	0.00	3.83	9.19	4.19	1.99	0.00	0.05	0.00	0.00	5.38	11.61
6830	2.10	1.22	0.00	0.07	0.00	0.00	2.40	5.79	2.63	1.25	0.00	0.07	0.00	0.00	3.38	7.33
6835	20.98	16.68	22.34	4.92	0.00	0.00	26.93	91.85	24.47	16.83	29.43	6.47	0.00	0.00	34.91	112.11
6840	3.79	2.20	0.00	0.05	0.00	0.00	4.32	10.36	4.73	2.24	0.00	0.05	0.00	0.00	6.08	13.10
6845	4.34	2.52	0.00	0.05	0.00	0.00	4.95	11.86	5.42	2.57	0.00	0.05	0.00	0.00	6.96	15.00
6850	2.42	1.40	0.00	0.07	0.00	0.00	2.76	6.65	3.02	1.43	0.00	0.07	0.00	0.00	3.88	8.40
6860	3.02	2.22	2.77	0.89	0.00	0.00	5.58	14.48	3.77	2.26	3.65	1.17	0.00	0.00	7.61	18.46
6865	3.75	2.76	3.33	1.06	0.00	0.00	6.93	17.83	4.68	2.80	4.38	1.40	0.00	0.00	9.45	22.71
6870	5.20	3.83	4.69	1.50	0.00	0.00	9.62	24.84	6.50	3.89	6.18	1.98	0.00	0.00	13.12	31.67
6875	6.23	4.58	5.97	1.91	0.00	0.00	11.52	30.21	7.78	4.65	7.86	2.52	0.00	0.00	15.71	38.52
6880	0.84	0.49	0.00	0.05	0.00	0.00	0.96	2.34	1.05	0.50	0.00	0.05	0.00	0.00	1.35	2.95
6885	0.95	0.55	0.00	0.05	0.00	0.00	1.08	2.63	1.18	0.56	0.00	0.05	0.00	0.00	1.52	3.31
6890	9.36	6.89	8.95	2.87	0.00	0.00	17.31	45.38	11.70	6.99	11.79	3.77	0.00	0.00	23.61	57.86
6895	1.49	0.87	0.00	0.05	0.00	0.00	1.70	4.11	1.86	0.88	0.00	0.05	0.00	0.00	2.39	5.18
6900	1.00	0.58	0.00	0.05	0.00	0.00	1.14	2.77	1.25	0.59	0.00	0.05	0.00	0.00	1.61	3.50
6905	11.18	8.64	13.22	3.30	0.00	0.00	15.53	51.87	13.41	8.75	17.41	4.35	0.00	0.00	20.70	64.62
6910	1.83	1.06	0.00	0.05	0.00	0.00	2.09	5.03	2.29	1.08	0.00	0.05	0.00	0.00	2.93	6.35
6915	1.51	0.87	0.00	0.05	0.00	0.00	1.72	4.15	1.88	0.89	0.00	0.05	0.00	0.00	2.42	5.24
6920	0.64	0.37	0.00	0.07	0.00	0.00	0.73	1.81	0.80	0.38	0.00	0.07	0.00	0.00	1.02	2.27
6925	0.37	0.21	0.00	0.12	0.00	0.00	0.42	1.12	0.46	0.22	0.00	0.12	0.00	0.00	0.59	1.39
6930	0.06	0.03	0.00	0.07	0.00	0.00	0.06	0.22	0.07	0.03	0.00	0.07	0.00	0.00	0.09	0.26
6940	2.00	1.47	1.79	0.57	0.00	0.00	3.70	9.53	2.50	1.49	2.36	0.75	0.00	0.00	5.04	12.14
6945	2.78	2.05	2.77	0.89	0.00	0.00	5.15	13.64	3.48	2.08	3.65	1.17	0.00	0.00	7.02	17.40
6950	3.33	2.45	3.07	0.98	0.00	0.00	6.15	15.98	4.16	2.49	4.04	1.29	0.00	0.00	8.39	20.37
6960	2.27	1.67	2.69	0.86	0.00	0.00	4.19	11.68	2.83	1.69	3.54	1.13	0.00	0.00	5.71	14.90
6965	0.43	0.25	0.00	0.05	0.00	0.00	0.49	1.22	0.54	0.26	0.00	0.05	0.00	0.00	0.69	1.54
6970	3.40	2.50	3.84	1.23	0.00	0.00	6.29	17.26	4.25	2.54	5.05	1.62	0.00	0.00	8.58	22.04
6975	0.31	0.18	0.00	0.05	0.00	0.00	0.35	0.89	0.39	0.18	0.00	0.05	0.00	0.00	0.49	1.11
6980	4.99	3.67	5.03	1.61	0.00	0.00	9.23	24.53	6.24	3.73	6.63	2.12	0.00	0.00	12.58	31.30
6985	0.51	0.30	0.00	0.05	0.00	0.00	0.59	1.45	0.64	0.30	0.00	0.05	0.00	0.00	0.82	1.81
6990	7.06	5.20	6.61	2.11	0.00	0.00	13.07	34.05	8.83	5.28	8.70	2.79	0.00	0.00	17.82	43.42

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
6995	0.67	0.39	0.00	0.05	0.00	0.00	0.76	1.87	0.84	0.40	0.00	0.05	0.00	0.00	1.07	2.36
7000	8.90	6.55	9.38	3.00	0.00	0.00	16.46	44.29	11.12	6.65	12.36	3.95	0.00	0.00	22.45	56.53
7005	1.05	0.61	0.00	0.05	0.00	0.00	1.19	2.90	1.31	0.62	0.00	0.05	0.00	0.00	1.68	3.66
7010	1.12	0.65	0.00	0.05	0.00	0.00	1.27	3.09	1.40	0.66	0.00	0.05	0.00	0.00	1.79	3.90
7015	11.62	8.99	13.64	3.41	0.00	0.00	16.14	53.80	13.94	9.09	17.97	4.49	0.00	0.00	21.52	67.01
7020	1.44	0.83	0.00	0.05	0.00	0.00	1.64	3.96	1.79	0.85	0.00	0.05	0.00	0.00	2.30	4.99
7025	1.52	0.88	0.00	0.05	0.00	0.00	1.73	4.18	1.90	0.90	0.00	0.05	0.00	0.00	2.43	5.28
7030	15.65	12.11	17.48	4.37	0.00	0.00	21.75	71.36	18.78	12.25	23.03	5.76	0.00	0.00	29.00	88.82
7035	1.95	1.13	0.00	0.05	0.00	0.00	2.23	5.36	2.44	1.15	0.00	0.05	0.00	0.00	3.13	6.77
7040	1.77	1.03	0.00	0.05	0.00	0.00	2.03	4.88	2.22	1.05	0.00	0.05	0.00	0.00	2.85	6.17
7045	25.71	20.43	26.44	5.82	0.00	0.00	33.00	111.40	29.99	20.63	34.82	7.66	0.00	0.00	42.78	135.88
7050	4.73	2.75	0.00	0.05	0.00	0.00	5.40	12.93	5.91	2.80	0.00	0.05	0.00	0.00	7.59	16.35
7055	4.44	2.58	0.00	0.05	0.00	0.00	5.07	12.14	5.56	2.63	0.00	0.05	0.00	0.00	7.13	15.37
7060	4.16	2.42	0.00	0.05	0.00	0.00	4.75	11.38	5.20	2.46	0.00	0.05	0.00	0.00	6.68	14.39
7070	9.66	7.11	8.74	2.80	0.00	0.00	17.87	46.18	12.07	7.22	11.51	3.68	0.00	0.00	24.36	58.84
7075	1.06	0.61	0.00	0.05	0.00	0.00	1.21	2.93	1.32	0.63	0.00	0.05	0.00	0.00	1.70	3.70
7080	1.18	0.69	0.00	0.05	0.00	0.00	1.35	3.27	1.48	0.70	0.00	0.05	0.00	0.00	1.90	4.13
7085	1.21	0.70	0.00	0.05	0.00	0.00	1.38	3.34	1.52	0.72	0.00	0.05	0.00	0.00	1.95	4.24
7090	10.13	7.83	11.09	2.77	0.00	0.00	14.07	45.89	12.16	7.93	14.60	3.65	0.00	0.00	18.76	57.10
7095	1.49	0.87	0.00	0.05	0.00	0.00	1.70	4.11	1.87	0.88	0.00	0.05	0.00	0.00	2.40	5.20
7100	1.96	1.14	0.00	0.05	0.00	0.00	2.24	5.39	2.45	1.16	0.00	0.05	0.00	0.00	3.14	6.80
7105	1.69	0.98	0.00	0.05	0.00	0.00	1.93	4.65	2.12	1.00	0.00	0.05	0.00	0.00	2.72	5.89
7110	0.49	0.29	0.00	0.11	0.00	0.00	0.56	1.45	0.61	0.29	0.00	0.11	0.00	0.00	0.79	1.80
7115	14.42	11.16	15.78	3.94	0.00	0.00	20.04	65.34	17.31	11.29	20.78	5.19	0.00	0.00	26.72	81.29
7120	1.95	1.13	0.00	0.05	0.00	0.00	2.23	5.36	2.44	1.16	0.00	0.05	0.00	0.00	3.13	6.78
7125	2.14	1.24	0.00	0.05	0.00	0.00	2.44	5.87	2.67	1.27	0.00	0.05	0.00	0.00	3.43	7.42
7130	1.89	1.10	0.00	0.05	0.00	0.00	2.16	5.20	2.37	1.12	0.00	0.05	0.00	0.00	3.04	6.58
7135	0.08	0.05	0.00	0.05	0.00	0.00	0.09	0.27	0.10	0.05	0.00	0.05	0.00	0.00	0.13	0.33
7140	0.45	0.26	0.00	0.10	0.00	0.00	0.52	1.33	0.57	0.27	0.00	0.10	0.00	0.00	0.73	1.67
7150	9.29	6.39	8.30	2.32	2.85	0.43	8.35	37.93	11.61	6.51	10.92	3.06	5.97	0.89	11.31	50.27
7155	13.88	9.89	12.25	3.43	6.26	0.94	12.61	59.26	17.35	10.06	16.12	4.51	13.12	1.97	17.08	80.21
7165	15.04	10.76	10.83	3.03	7.06	1.06	13.68	61.46	18.80	10.95	14.25	3.99	14.80	2.22	18.53	83.54
7170	24.41	17.52	18.69	5.23	8.47	1.27	22.22	97.81	30.51	17.83	24.60	6.89	17.76	2.66	30.10	130.35
7180	0.96	0.65	1.70	0.48	0.20	0.03	0.86	4.88	1.20	0.66	2.24	0.63	0.41	0.06	1.16	6.36
7185	1.09	0.73	1.98	0.55	0.18	0.03	0.97	5.53	1.36	0.74	2.60	0.73	0.37	0.06	1.31	7.17
7190	1.47	0.98	2.45	0.69	0.22	0.03	1.31	7.15	1.84	1.00	3.22	0.90	0.45	0.07	1.77	9.25
7200	0.19	0.14	0.76	0.24	0.03	0.00	0.30	1.66	0.24	0.14	0.99	0.32	0.04	0.01	0.42	2.16
7205	0.89	0.62	1.44	0.46	0.05	0.01	1.37	4.84	1.11	0.63	1.87	0.60	0.08	0.01	1.91	6.21
7210	1.03	0.71	2.37	0.76	0.04	0.01	1.58	6.50	1.29	0.72	3.08	0.99	0.06	0.01	2.20	8.35
7215	2.23	1.57	2.53	0.71	0.18	0.03	3.45	10.70	2.79	1.59	3.33	0.93	0.25	0.04	4.80	13.73
7220	4.77	3.40	4.15	1.16	0.58	0.09	7.41	21.56	5.96	3.45	5.46	1.53	0.82	0.12	10.29	27.63
7230	8.12	5.52	3.95	1.11	0.00	0.00	12.43	31.13	10.15	5.61	5.20	1.46	0.00	0.00	17.27	39.69
7235	11.74	7.98	6.92	1.94	0.00	0.00	17.98	46.56	14.68	8.12	9.10	2.55	0.00	0.00	24.97	59.42
7245	9.20	6.26	3.32	0.93	0.00	0.00	14.08	33.79	11.50	6.36	4.37	1.22	0.00	0.00	19.56	43.01
7250	16.03	10.90	6.92	1.94	0.00	0.00	24.54	60.33	20.03	11.08	9.10	2.55	0.00	0.00	34.08	76.84
7265	0.56	0.31	3.01	0.96	0.11	0.02	0.59	5.56	0.75	0.32	4.02	1.29	0.14	0.02	0.90	7.44
7270	0.70	0.38	3.01	0.96	0.13	0.02	0.74	5.94	0.94	0.39	4.02	1.29	0.18	0.03	1.13	7.98
7275	0.58	0.33	3.01	0.96	0.19	0.03	0.62	5.72	0.77	0.34	4.02	1.29	0.24	0.04	0.94	7.64
7280	0.71	0.40	3.01	0.96	0.23	0.04	0.76	6.11	0.94	0.41	4.02	1.29	0.31	0.05	1.15	8.17
7285	0.64	0.37	3.01	0.96	0.32	0.05	0.69	6.04	0.86	0.39	4.02	1.29	0.40	0.06	1.06	8.08
7290	1.18	0.68	6.90	2.21	0.40	0.06	1.09	12.52	1.57	0.70	8.87	2.84	0.51	0.08	1.69	16.26
7295	1.67	0.94	3.95	1.11	0.40	0.06	1.53	9.66	2.23	0.97	5.14	1.44	0.51	0.08	2.38	12.75
7300	1.38	0.79	7.93	2.54	0.40	0.06	1.27	14.37	1.84	0.81	10.20	3.26	0.51	0.08	1.98	18.68
7305	1.91	1.06	3.95	1.11	0.40	0.06	1.74	10.23	2.54	1.09	5.14	1.44	0.51	0.08	2.71	13.51
7310	1.54	0.89	7.93	2.54	0.49	0.07	1.42	14.88	2.06	0.91	10.20	3.26	0.62	0.09	2.21	19.35

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
7315	1.92	1.13	3.95	1.11	0.84	0.13	1.78	10.86	2.56	1.17	5.14	1.44	1.07	0.16	2.77	14.31
7320	2.34	1.35	14.84	4.75	0.85	0.13	2.16	26.42	3.11	1.39	19.12	6.12	1.10	0.16	3.36	34.36
7325	3.26	1.86	6.40	1.79	1.02	0.15	3.00	17.48	4.35	1.92	8.33	2.33	1.31	0.20	4.67	23.11
7330	3.38	1.95	6.40	1.79	1.14	0.17	3.12	17.95	4.51	2.01	8.33	2.33	1.46	0.22	4.85	23.71
7335	3.18	1.84	6.40	1.79	1.14	0.17	2.94	17.46	4.24	1.90	8.33	2.33	1.46	0.22	4.57	23.05
7340	3.76	2.15	6.40	1.79	1.14	0.17	3.46	18.87	5.02	2.21	8.33	2.33	1.46	0.22	5.39	24.96
7345	4.84	2.83	8.75	2.45	1.99	0.30	4.48	25.64	6.45	2.91	11.37	3.18	2.58	0.39	6.97	33.85
7350	5.13	3.01	8.75	2.45	2.09	0.31	4.76	26.50	6.85	3.09	11.37	3.18	2.69	0.40	7.40	34.98
7355	4.84	2.85	8.75	2.45	2.09	0.31	4.49	25.78	6.45	2.93	11.37	3.18	2.69	0.40	6.99	34.01
7360	4.81	2.81	10.47	2.93	1.91	0.29	4.45	27.67	6.41	2.89	13.61	3.81	2.46	0.37	6.93	36.48
7370	0.59	0.33	3.17	1.01	0.15	0.02	0.63	5.90	0.79	0.34	4.22	1.35	0.18	0.03	0.96	7.87
7375	0.74	0.41	3.17	1.01	0.15	0.02	0.79	6.29	0.99	0.42	4.22	1.35	0.18	0.03	1.20	8.39
7380	0.84	0.46	3.17	1.01	0.15	0.02	0.89	6.54	1.12	0.47	4.22	1.35	0.20	0.03	1.36	8.75
7385	0.70	0.39	3.17	1.01	0.16	0.02	0.74	6.19	0.93	0.40	4.22	1.35	0.19	0.03	1.13	8.25
7390	0.81	0.44	3.17	1.01	0.18	0.03	0.85	6.49	1.07	0.45	4.22	1.35	0.24	0.04	1.30	8.67
7395	0.65	0.36	3.07	0.98	0.18	0.03	0.69	5.96	0.87	0.37	4.10	1.31	0.22	0.03	1.06	7.96
7400	1.01	0.57	7.21	2.31	0.29	0.04	0.93	12.36	1.34	0.59	9.27	2.97	0.36	0.05	1.44	16.02
7405	1.11	0.65	7.21	2.31	0.40	0.06	1.03	12.77	1.48	0.66	9.27	2.97	0.51	0.08	1.60	16.57
7410	1.58	0.89	4.03	1.13	0.40	0.06	1.45	9.54	2.11	0.92	5.23	1.47	0.51	0.08	2.26	12.58
7415	1.20	0.71	8.02	2.57	0.49	0.07	1.11	14.17	1.60	0.73	10.31	3.30	0.62	0.09	1.73	18.38
7420	2.14	1.22	4.51	1.26	0.63	0.09	1.97	11.82	2.85	1.26	5.87	1.64	0.80	0.12	3.06	15.60
7425	2.21	1.32	12.98	4.15	1.10	0.17	2.06	23.99	2.94	1.36	16.72	5.35	1.42	0.21	3.21	31.21
7430	2.63	1.55	7.50	2.10	1.10	0.17	2.44	17.49	3.51	1.59	9.75	2.73	1.42	0.21	3.80	23.01
7435	2.99	1.76	8.60	2.41	1.21	0.18	2.77	19.92	3.99	1.81	11.18	3.13	1.54	0.23	4.32	26.20
7440	3.18	1.83	7.69	2.15	1.10	0.17	2.93	19.05	4.24	1.89	9.99	2.80	1.42	0.21	4.56	25.11
7445	3.49	2.02	5.61	1.57	1.20	0.18	3.22	17.29	4.66	2.08	7.30	2.04	1.51	0.23	5.02	22.84
7450	4.48	2.51	12.26	3.43	1.10	0.17	4.10	28.05	5.97	2.58	15.94	4.46	1.42	0.21	6.37	36.95
7455	5.25	2.94	11.24	3.15	1.23	0.18	4.80	28.79	7.00	3.02	14.61	4.09	1.58	0.24	7.46	38.00
7460	4.75	2.66	11.24	3.15	1.10	0.17	4.34	27.41	6.34	2.73	14.61	4.09	1.42	0.21	6.76	36.16
7470	0.65	0.36	1.86	0.60	0.15	0.02	0.69	4.33	0.87	0.37	2.48	0.79	0.20	0.03	1.05	5.79
7475	0.95	0.54	6.59	2.11	0.29	0.04	0.87	11.39	1.26	0.56	8.47	2.71	0.36	0.05	1.36	14.77
7480	0.98	0.56	6.59	2.11	0.29	0.04	0.90	11.47	1.31	0.58	8.47	2.71	0.36	0.05	1.40	14.88
7485	1.41	0.78	4.03	1.13	0.29	0.04	1.29	8.97	1.88	0.81	5.23	1.47	0.36	0.05	2.00	11.80
7490	1.05	0.59	8.47	2.71	0.29	0.04	0.96	14.11	1.40	0.61	10.89	3.48	0.36	0.05	1.50	18.29
7495	1.59	0.90	4.39	1.23	0.40	0.06	1.46	10.03	2.12	0.92	5.71	1.60	0.51	0.08	2.27	13.21
7500	1.21	0.70	8.51	2.72	0.40	0.06	1.11	14.71	1.61	0.72	10.94	3.50	0.51	0.08	1.73	19.09
7505	2.09	1.16	5.12	1.43	0.40	0.06	1.90	12.16	2.78	1.19	6.66	1.87	0.51	0.08	2.96	16.05
7510	3.36	1.93	7.69	2.15	1.10	0.17	3.09	19.49	4.48	1.98	9.99	2.80	1.42	0.21	4.81	25.69
7515	4.09	2.31	8.42	2.36	1.10	0.17	3.75	22.20	5.45	2.38	10.94	3.06	1.42	0.21	5.83	29.29
7520	4.32	2.43	10.61	2.97	1.10	0.17	3.96	25.56	5.76	2.50	13.80	3.86	1.42	0.21	6.16	33.71
7525	4.17	2.35	8.23	2.31	1.10	0.17	3.82	22,15	5.56	2.42	10.71	3.00	1.42	0.21	5.94	29.26
7530	4.50	2.53	10.61	2.97	1.10	0.17	4.12	26.00	6.00	2.60	13.80	3.86	1.42	0.21	6.41	34.30
7540	5.61	3.11	10.61	2.97	1.17	0.18	5.11	28.76	7.48	3.20	13.80	3.86	1.51	0.23	7.96	38.04
7545	5.72	3.17	10.61	2.97	1.17	0.18	5.21	29.03	7.62	3.26	13.80	3.86	1.51	0.23	8.11	38.39
7550	6.34	3.50	10.61	2.97	1.17	0.18	5.77	30.54	8.46	3.60	13.80	3.86	1.51	0.23	8.98	40.44
7560	5.33	3.00	9.15	2.56	1.35	0.20	4.88	26.47	7.10	3.09	11.89	3.33	1.73	0.26	7.59	34.99
7565	5.98	3.31	12.81	3.59	1.17	0.18	5.45	32.49	7.97	3.40	16.65	4.66	1.51	0.23	8.48	42.90
7570	6.49	3.58	12.81	3.59	1.17	0.18	5.90	33.72	8.65	3.68	16.65	4.66	1.51	0.23	9.18	44.56
7575	6.75	3.71	12.81	3.59	1.17	0.18	6.14	34.35	9.00	3.82	16.65	4.66	1.51	0.23	9.55	45.42
7580	9.22	5.01	12.81	3.59	1.17	0.18	8.35	40.33	12.29	5.15	16.65	4.66	1.51	0.23	12.99	53.48
7590	2.10	0.98	0.00	0.09	0.00	0.00	1.99	5.16								
7595	2.55	1.19	0.00	0.09	0.00	0.00	2.41	6.24								
7600	3.95	1.84	0.00	0.09	0.00	0.00	3.74	9.62								
7605	4.94	2.30	0.00	0.09	0.00	0.00	4.68	12.01								
7610	5.62	2.62	0.00	0.09	0.00	0.00	5.32	13.65								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

	AVERAGE CONDITIONS								SEVERE CONDITIONS							
UNIT NO	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
7620	0.53	0.25	0.00	0.08	0.00	0.00	0.50	1.36	0.71	0.25	0.00	0.08	0.00	0.00	0.76	1.80
7625	0.84	0.39	0.00	0.08	0.00	0.00	0.79	2.10	1.12	0.40	0.00	0.08	0.00	0.00	1.21	2.81
7630	0.85	0.39	0.00	0.08	0.00	0.00	0.80	2.12	1.13	0.41	0.00	0.08	0.00	0.00	1.22	2.84
7635	0.86	0.40	0.00	0.08	0.00	0.00	0.81	2.15	1.14	0.41	0.00	0.08	0.00	0.00	1.24	2.87
7645	0.17	0.08	0.00	0.00	0.00	0.00	0.16	0.41								
7650	0.18	0.08	0.00	0.00	0.00	0.00	0.17	0.43								
7655	0.19	0.09	0.00	0.00	0.00	0.00	0.18	0.46								
7660	0.23	0.11	0.00	0.00	0.00	0.00	0.22	0.56								
7665	0.25	0.12	0.00	0.00	0.00	0.00	0.24	0.61								
7670	0.24	0.11	0.00	0.00	0.00	0.00	0.23	0.58								
7675	0.07	0.03	0.00	0.00	0.00	0.00	0.06	0.16								
7685	0.19	0.09	0.00	0.08	0.00	0.00	0.18	0.54								
7690	0.24	0.11	0.00	0.08	0.00	0.00	0.23	0.66								
7695	0.65	0.30	0.00	0.08	0.00	0.00	0.62	1.65								
7700	0.73	0.34	0.00	0.08	0.00	0.00	0.69	1.84								
7710	2.31	1.07	0.00	0.12	0.00	0.00	2.19	5.69								
7715	2.35	1.09	0.00	0.12	0.00	0.00	2.22	5.78								
7720	2.37	1.10	0.00	0.12	0.00	0.00	2.24	5.83								
7725	2.40	1.12	0.00	0.12	0.00	0.00	2.27	5.91								
7735	1.03	0.48	0.00	0.00	0.00	0.00	0.97	2.48								
7740	1.08	0.50	0.00	0.00	0.00	0.00	1.02	2.60								
7745	1.15	0.53	0.00	0.00	0.00	0.00	1.09	2.77								
7755	1.80	1.14	0.00	0.08	0.54	0.08	1.50	5.14	2.25	1.17	0.00	0.08	0.65	0.10	2.18	6.43
7760	2.09	1.32	0.00	0.08	0.58	0.09	1.73	5.89	2.61	1.34	0.00	0.08	0.70	0.11	2.53	7.37
7765	2.06	1.30	0.00	0.08	0.58	0.09	1.71	5.82	2.57	1.33	0.00	0.08	0.70	0.11	2.50	7.29
7770	2.64	1.65	0.00	0.08	0.67	0.10	2.19	7.33	3.30	1.68	0.00	0.08	0.81	0.12	3.19	9.18
7775	2.61	1.73	0.00	0.08	1.11	0.17	2.19	7.89	3.26	1.76	0.00	0.08	1.33	0.20	3.20	9.83
7780	5.74	3.67	0.00	0.08	1.85	0.28	4.78	16.40	7.17	3.74	0.00	0.08	2.23	0.33	6.97	20.52
7785	6.01	4.09	0.00	0.08	3.08	0.46	5.09	18.81	7.51	4.17	0.00	0.08	3.71	0.56	7.42	23.45
7795	2.18	1.36	0.00	0.08	0.54	0.08	1.80	6.04	2.72	1.39	0.00	0.08	0.65	0.10	2.63	7.57
7805	1.00	0.94	0.00	0.08	0.44	0.07	0.92	3.45								
7810	1.15	1.07	0.00	0.08	0.49	0.07	1.05	3.91								
7815	1.41	1.30	0.00	0.08	0.54	0.08	1.29	4.70								
7820	1.39	1.33	0.00	0.12	0.66	0.10	1.29	4.89								
7825	1.46	1.40	0.00	0.12	0.74	0.11	1.35	5.18								
7830	1.59	1.53	0.00	0.12	0.82	0.12	1.47	5.65								
7835	1.50	1.68	0.00	0.12	1.54	0.23	1.49	6.56								
7840	2.18	2.23	0.00	0.12	1.54	0.23	2.08	8.38								
7845	2.24	2.28	0.00	0.12	1.54	0.23	2.13	8.54								
7850	2.90	2.67	0.00	0.16	1.09	0.16	2.64	9.62								
7855	2.94	2.95	0.00	0.16	1.88	0.28	2.78	10.99								
7860	3.25	3.25	0.00	0.16	2.06	0.31	3.06	12.09								
7865	3.81	3.69	0.00	0.16	2.02	0.30	3.54	13.52								
7870	0.75	0.77	0.00	0.08	0.54	0.08	0.71	2.93								
7880	0.68	0.72	0.00	0.08	0.54	0.08	0.66	2.76								
7890	0.90	0.90	0.00	0.10	0.54	0.08	0.85	3.37								
7895	0.91	0.90	0.00	0.10	0.54	0.08	0.86	3.39								
7905	0.45	0.46	0.00	0.09	0.34	0.05	0.43	1.82								
7910	0.46	0.48	0.00	0.09	0.34	0.05	0.44	1.86								
7915	0.50	0.54	0.00	0.09	0.46	0.07	0.49	2.15								
7925	1.71	1.22	2.49	0.70	0.21	0.03	1.17	7.53								
7930	1.71	1.28	2.49	0.70	0.42	0.06	1.18	7.84								
7935	1.79	1.34	2.49	0.70	0.42	0.06	1.24	8.04								
7945	15.76	11.57	11.23	3.71	6.59	0.99	13.16	63.01	18.91	11.73	14.51	4.79	10.98	1.65	18.43	81.00
7950	21.98	16.26	16.22	5.35	10.04	1.51	18.39	89.75	26.38	16.48	20.96	6.92	16.74	2.51	25.75	115.74

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
7955	29.63	22.63	21.72	7.17	13.42	2.01	24.98	121.56	35.56	22.93	28.05	9.26	22.37	3.36	34.98	156.51
7960	13.73	10.20	11.23	3.71	6.59	0.99	11.50	57.95	16.48	10.34	14.51	4.79	10.98	1.65	16.10	74.85
7965	20.04	15.30	16.22	5.35	12.66	1.90	16.89	88.36	24.05	15.50	20.96	6.92	21.10	3.17	23.65	115.35
7975	10.68	8.30	5.87	1.94	6.33	0.95	9.05	43.12	12.82	8.41	7.58	2.50	10.18	1.53	12.67	55.69
7980	12.76	9.37	6.36	2.10	4.32	0.65	10.66	46.22	15.31	9.50	8.22	2.71	6.94	1.04	14.92	58.64
7985	12.84	9.79	6.36	2.10	6.44	0.97	10.82	49.32	15.41	9.92	8.22	2.71	10.35	1.55	15.15	63.31
7990	21.74	16.40	11.23	3.71	9.88	1.48	18.28	82.72	26.09	16.61	14.51	4.79	15.89	2.38	25.59	105.86
8000	9.71	7.18	5.34	1.76	3.15	0.47	8.12	35.73	11.65	7.27	6.90	2.28	5.25	0.79	11.37	45.51
8005	14.99	10.97	10.73	3.54	5.96	0.89	12.51	59.59	17.99	11.12	13.86	4.57	9.94	1.49	17.52	76.49
8010	19.70	14.71	14.38	4.74	10.04	1.51	16.52	81.60	23.64	14.91	18.57	6.13	16.74	2.51	23.13	105.63
8015	25.65	19.67	16.12	5.32	12.03	1.80	21.65	102.24	30.78	19.93	20.83	6.87	20.06	3.01	30.31	131.79
8020	25.98	20.16	18.62	6.14	13.42	2.01	21.99	108.32	31.18	20.43	24.05	7.94	22.37	3.36	30.79	140.12
8030	20.90	15.24	14.48	4.78	9.13	1.37	17.43	83.33	25.08	15.45	18.70	6.17	15.66	2.35	24.40	107.81
8040	8.09	6.25	5.37	1.77	5.62	0.84	6.84	34.78	9.71	6.33	6.93	2.29	9.37	1.41	9.58	45.62
8045	12.20	9.04	8.01	2.64	5.68	0.85	10.21	48.63	14.64	9.16	10.35	3.42	9.46	1.42	14.29	62.74
8050	15.00	11.47	12.31	4.06	9.56	1.43	12.65	66.48	18.01	11.62	15.89	5.25	15.93	2.39	17.71	86.80
8055	20.33	15.50	15.58	5.14	12.66	1.90	17.14	88.25	24.40	15.70	20.12	6.64	21.10	3.17	23.99	115.12
8060	27.56	21.23	20.97	6.92	13.42	2.01	23.29	115.40	33.07	21.51	27.08	8.94	22.37	3.36	32.60	148.93
8070	15.79	11.59	10.48	3.46	6.59	0.99	13.19	62.09	18.94	11.75	13.54	4.47	10.98	1.65	18.46	79.79
8075	21.83	16.16	14.38	4.74	10.04	1.51	18.27	86.93	26.20	16.37	18.57	6.13	16.74	2.51	25.58	112.10
8080	23.66	17.75	14.38	4.74	12.66	1.90	19.86	94.95	28.39	17.99	18.57	6.13	21.10	3.17	27.81	123.16
8085	26.27	19.63	16.60	5.48	13.44	2.02	22.03	105.47	31.53	19.89	21.44	7.08	22.40	3.36	30.85	136.55
8090	29.90	22.81	20.42	6.74	13.42	2.01	25.21	120.51	35.88	23.12	26.37	8.70	22.37	3.36	35.29	155.09
8100	5.27	5.78	5.93	1.66	2.25	0.34	5.82	27.05	6.33	5.83	7.80	2.18	3.03	0.46	7.57	33.20
8105	9.34	10.41	13.04	3.65	4.53	0.68	10.39	52.04	11.21	10.50	17.16	4.80	6.10	0.91	13.50	64.18
8110	12.75	14.37	17.78	4.98	6.73	1.01	14.25	71.87	15.30	14.51	23.40	6.55	9.07	1.36	18.52	88.71
8115	13.12	14.73	17.78	4.98	6.73	1.01	14.63	72.98	15.74	14.86	23.40	6.55	9.07	1.36	19.02	90.00
8120	15.18	17.20	21.74	6.09	8.28	1.24	17.00	86.73	18.22	17.36	28.60	8.01	11.15	1.67	22.10	107.11
8125	15.47	17.48	21.74	6.09	8.28	1.24	17.31	87.61	18.57	17.64	28.60	8.01	11.15	1.67	22.50	108.14
8135	9.59	10.64	13.04	3.65	4.53	0.68	10.64	52.77	11.50	10.74	17.16	4.80	6.10	0.91	13.84	65.05
8140	13.02	14.64	17.78	4.98	6.73	1.01	14.53	72.69	15.63	14.77	23.40	6.55	9.07	1.36	18.89	89.67
8145	13.24	14.85	17.78	4.98	6.73	1.01	14.76	73.35	15.89	14.99	23.40	6.55	9.07	1.36	19.19	90.45
8150	15.79	17.78	21.74	6.09	8.28	1.24	17.64	88.56	18.95	17.95	28.60	8.01	11.15	1.67	22.93	109.26
8155	15.97	17.95	21.74	6.09	8.28	1.24	17.82	89.09	19.16	18.12	28.60	8.01	11.15	1.67	23.17	109.88
8165	13.42	9.03	13.04	3.65	6.08	0.91	10.44	56.57	16.11	9.16	17.16	4.80	10.19	1.53	14.62	73.57
8170	20.02	13.76	17.78	4.98	10.37	1.56	15.64	84.11	24.02	13.97	23.40	6.55	16.90	2.53	21.89	109.26
8175	30.09	21.32	25.69	7.19	21.54	3.23	23.64	132.70	36.11	21.64	33.80	9.46	36.20	5.43	33.10	175.74
8185	12.93	8.70	10.95	3.07	5.76	0.86	10.06	52.33	15.52	8.82	14.40	4.03	9.57	1.44	14.08	67.86
8190	23.61	15.34	16.72	4.68	5.13	0.77	18.26	84.51	28.34	15.57	22.00	6.16	8.38	1.26	25.56	107.27
8200	14.15	9.51	13.04	3.65	6.26	0.94	11.01	58.56	16.98	9.65	17.16	4.80	10.45	1.57	15.41	76.02
8205	20.47	13.52	17.78	4.98	7.57	1.13	15.87	81.32	24.56	13.72	23.40	6.55	12.67	1.90	22.22	105.02
8215	3.82	1.39	5.30	1.48	0.06	0.01	5.69	17.75								
8220	5.80	2.11	9.32	2.61	0.06	0.01	8.65	28.56								
8230	0.88	0.59	0.00	0.01	0.00	0.00	0.59	2.07								
8235	1.02	0.69	0.00	0.01	0.00	0.00	0.69	2.41								
8240	1.19	0.80	0.00	0.01	0.00	0.00	0.80	2.80								
8250	1.52	1.08	0.68	0.17	0.18	0.03	1.04	4.70								
8255	1.73	1.22	0.68	0.17	0.18	0.03	1.18	5.19								
8260	1.93	1.35	0.68	0.17	0.18	0.03	1.32	5.66								
8270	0.16	0.09	0.72	0.22	0.00	0.00	0.10	1.29								
8275	0.20	0.11	0.90	0.27	0.00	0.00	0.12	1.60								
8285	0.24	0.12	1.45	0.35	0.03	0.01	0.27	2.47								
8290	0.50	0.23	6.74	1.62	0.02	0.00	0.56	9.67								
8295	0.51	0.24	6.74	1.62	0.02	0.00	0.57	9.70								
8300	0.60	0.28	7.15	1.72	0.02	0.00	0.67	10.44								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	SEVERE CONDITIONS DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
8305	0.74	0.35	8.81	2.12	0.04	0.01	0.84	12.91								
8315	0.66	0.30	1.86	0.45	0.02	0.00	0.73	4.02								
8320	0.66	0.30	1.86	0.45	0.02	0.00	0.74	4.03								
8325	0.83	0.39	3.08	0.74	0.04	0.01	0.93	6.02								
8330	0.80	0.38	3.13	0.75	0.04	0.01	0.90	6.01								
8340	0.21	0.12	0.36	0.11	0.00	0.00	0.14	0.94								
8345	0.23	0.13	0.72	0.22	0.00	0.00	0.14	1.44								
8355	0.14	0.08	0.68	0.21	0.00	0.00	0.09	1.20								
8360	0.15	0.08	0.86	0.26	0.00	0.00	0.09	1.44								
8365	0.19	0.11	1.08	0.32	0.00	0.00	0.12	1.82								
8370	0.31	0.18	1.51	0.45	0.00	0.00	0.19	2.64								
8380	0.07	0.04	0.68	0.21	0.00	0.00	0.05	1.05								
8385	0.12	0.07	0.86	0.26	0.00	0.00	0.08	1.39								

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-539, Goodyear Tire and Rubber Company, Akron, Ohio, 1982.

5. Bulletin M-840, Goodyear Tire and Rubber Company, Akron, Ohio, 1982.

6. Caterpillar Performance Handbook, 13th ed, Caterpillar Tractor Company, Peoria, Illinois, 1982.

7. "DAR 15-205.20 Maintenance and Repair Costs", Defense Acquisition Regulation, Government Printing Office, Washington, D.C., August 1978.

8. "DAR 15-205.50 Facilities Capital Cost of Money", Defense Acquisition Regulation, Government Printing Office, Washington, D.C., September 1978.

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

10. Euclid Hauler Handbook, 14th ed, Euclid, Inc., Cleveland, Ohio, 1981.

11. Fundamentals of Earthmoving, Caterpillar Tractor Company, Peoria, Illinois, 1975.

12. Green Guide for Off-Highway Trucks and Trailers, Dataquest, Inc., Palo Alto, California, 1981, 1982.

13. Green Guide Volume I, Dataquest, Inc., Palo Alto, California, 1981, 1982.

14. Green Guide Volume II, Dataquest, Inc., Palo Alto, California, 1981, 1982.

15. Means 1982 Labor Rates for the Construction Industry, 9th ed, R. S. Means Company, Inc., Kingston, Massachusetts, 1981.

APPENDIX A

REFERENCES (Cont'd)

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, DC. 1971 through 1982.

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.

State Sales Tax Rate:		3.5 %
Working Hours Per Year:		1,350 Hrs/Yr
Labor Adjustment Factor (LAF):		0.940
Electricity Cost Per Kilowatt-Hour:		$ 0.060 /Kw-Hr
Gasoline Cost Per Gallon:		$ 1.280 /Gal.
Diesel Cost Per Gallon (Off-Road Use):		$ 1.040 /GAL.
Diesel Cost Per Gallon (On-Road Use):		$ 1.220 /Gal.
Freight Rates:	0 thru 30,000 lbs.	$ 4.380 /Cwt.
	over 30,000 thru 40,000 lbs.	$ 4.210 /Cwt.
	over 40,000 thru 50,000 lbs.	$ 3.860 /Cwt.
	over 50,000 thru 9999,900 lbs.	$ 3.270 /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 - 22,000 Hrs.	11,000 - 20,000 Hrs.
Shovels	Gravels, silts, well broken rock, lift less than rated capacity.	Extremely abrasive tough materials, lifting near rated capacity, impact breakout.
Depreciation Period	11,000 - 22,000 Hrs.	9,000 - 20,000 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	11,000 - 22,000 Hrs.	9,000 - 20,000 Hrs.

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 - 14,000 Hrs.	8,000 - 12,000 Hrs.
Tractors, Wheel-Type	Production dozing, pushloading in clays, sands, silts, loose gravels. Shovel cleanup.	Production dozing in rock. Push-loading in rocky, bouldery borrow pits. High impact conditions.
Depreciation Period	10,000 Hrs.	8,000 Hrs.
Scrapers, Self-Propelled	Varying loading and haul road conditions. Long and short hauls. Adverse and favorable grades. Some impact. Typical road-building use on a variety of jobs.	High impact condition, such as loading ripped rock. Continuous high total resistance conditions. Rough haul roads.
Depreciation Period	10,000 Hrs.	8,000 Hrs.
Trucks, Off Highway	Varying loading and haul road conditions. Typical road-building use on a variety of jobs.	Consistently poor haul road conditions. Oversized loading equipment.
Depreciation Period	12,000 Hrs.	10,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

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	8,000 Hrs.	6,000 Hrs.
Loaders, Front End Wheel Type	Continuous truck loading from stockpile. Low to medium density materials in properly sized bucket. Hopper charging in low to medium rolling resistance. Loading from bank in good digging.	Loading shot rock (large loaders). Handling high density materials with counterweighted machine. Steady loading from very tight banks. Continuous work on rough or very soft surfaces.
Depreciation Period	10,000 - 12,000 Hrs.	8,000 - 10,000 Hrs.
Loaders, Front End Crawler Type	Bank excavation, intermittent ripping, basement digging of natural bed clays, sands, silts, gravels. Some traveling. Steady full throttle operations.	Loading shot rock, cobbles. High density materials in standard bucket. Continuous work on rock surfaces. Large amount of ripping of tight, rocky materials. High impact conditions.
Depreciation Period	10,000 Hrs.	8,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
Motor Graders	Haul road maintenance. Road construction, ditching. Loose fill spreading. Land-forming, landleveling. Summer road maintenance with medium to heavy winter snow removal. Elevating grader use.	Maintenance of hard packed roads with embedded rock. Heavy fill spreading. Ripping-scarifying of asphalt or concrete. 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 HP	E	G	D	CARRIER POWER HP	E	G	D	FOG E	G	D	TIRES F	D	T	RPR
15	AGGREGATE SPREADERS	A	10	20	50	.000	.051	.030	0	.000	.000	.000	0	24	24	97	69	99	70
30	AIR COMPRESSORS	A	10	25	65	.000	.066	.038	0	.000	.000	.000	0	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	30	65	.000	.066	.038	0	.000	.000	.000	0	32	28	71	57	79	85
65	ASPHALT AND CONCRETE PAVERS	A	10	25	65	.000	.066	.038	0	.000	.000	.000	0	32	28	83	66	92	90
70	ASPHALT KETTLES AND RECYCLERS	A	8	25	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	0	81	65	90	80
80	BRUSH CHIPPERS	[illegible]	10	20	45	.000	.046	.027	0	.000	.000	.000	0	32	28	0	0	90	90
90	BUCKETS, CLAMSHELL & DRAGLINE	A	10	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	70
90		S	8	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	80
95	BUCKETS, CONCRETE	[illegible]	[illegible]	[illegible]	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	[illegible]
105	CONCRETE OR GROUT PUMP	A	8	20	95	.000	.097	.056	0	.000	.000	.000	0	32	28	81	65	90	90
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	A	10	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	90	80
125	CONCRETE FINISHERS & BUGGIES	A	10	20	70	.700	.071	.041	0	.000	.000	.000	50	32	28	0	0	0	80
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	0	100
	CRANE, CRAWLER TYPE																		
150	0 THRU 25 TON	A	13	25	40	.000	.041	.024	0	.000	.000	.000	0	18	18	0	0	0	50
150		S	11	25	52	.000	.053	.031	0	.000	.000	.000	0	18	18	0	0	0	55
165	OVER 25 TON THRU 50 TON	A	15	25	40	.000	.041	.024	0	.000	.000	.000	0	18	18	0	0	0	60
165		S	13	25	52	.000	.053	.031	0	.000	.000	.000	0	18	18	0	0	0	65
170	OVER 50 TON THRU 150 TON	A	18	25	40	.000	.041	.024	0	.000	.000	.000	0	18	18	0	0	0	[illegible]
170		S	16	25	52	.000	.053	.031	0	.000	.000	.000	0	18	18	0	0	0	75
180	OVER 150 TON	A	20	25	40	.000	.041	.024	0	.000	.000	.000	0	18	18	0	0	0	60
180		S	18	25	52	.000	.053	.031	0	.000	.000	.000	0	18	18	0	0	0	65
	DRAGLINE & CLAMSHELL, CRAWLER																		
185	0 THRU 1 CY	A	12	20	50	.000	.051	.030	0	.000	.000	.000	0	18	18	0	0	0	70
185		S	10	20	65	.000	.066	.038	0	.000	.000	.000	0	18	18	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	18	18	0	0	0	80
190		S	13	20	65	.000	.066	.038	0	.000	.000	.000	0	18	18	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	18	18	0	0	0	90
195		S	16	20	65	.000	.066	.038	0	.000	.000	.000	0	18	18	0	0	0	100
196	OVER 5 CY	A	20	25	50	.000	.051	.030	0	.000	.000	.000	0	18	18	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		S	18	25	65	.000	.066	.038	0	.000	.000	.000	0	18	18	0	0	0	110
200	CRANES, HYDRAULIC, SELF-PROPELLED	A	16	25	65	.000	.066	.038	0	.000	.000	.000	0	32	28	89	71	0	70
	CRANES & HYD. EXC. , TRK MTD																		
210	UNDER 26 T. (THRU 1 CY)	A	15	25	65	.000	.066	.038	10	.000	.010	.006	0	30	26	97	78	0	50
210		S	13	25	85	.000	.086	.050	13	.000	.013	.007	0	30	26	86	61	0	55
225	26 THRU 65 T (1 TH 2-1/2 CY)	A	18	20	65	.000	.066	.038	10	.000	.010	.006	0	30	26	97	78	0	60
225		S	16	20	85	.000	.086	.050	13	.000	.013	.007	0	30	26	86	61	0	65
230	66 THRU 125 T	A	20	20	65	.000	.066	.038	10	.000	.010	.006	0	30	26	97	78	0	70
230		S	18	20	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	24	24	62	44	0	90
330	DRILL, ROTARY OVER 11" DIA.	A	20	20	80	.000	.081	.047	0	.000	.000	.000	0	24	24	62	44	0	90
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	A	20	20	70	.700	.000	.000	0	.000	.000	.000	50	0	0	0	0	0	45
375	FORK LIFTS	A	10	20	65	.000	.066	.038	0	.000	.000	.000	0	24	24	87	78	0	70
390	GRADERS	A	12	30	60	.000	.061	.035	0	.000	.000	.000	0	16	29	89	71	0	60
390		S	10	30	78	.000	.079	.046	0	.000	.000	.000	0	16	29	71	51	0	65
420	GENERATORS	A	10	35	65	.000	.066	.038	0	.000	.000	.000	0	24	24	0	0	0	60
420		S	9	35	85	.000	.086	.050	0	.000	.000	.000	0	24	24	0	0	0	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	10	30	85	.000	.086	.050	0	.000	.000	.000	0	24	24	0	0	0	150
450	LOADER, BELT	A	10	35	65	.000	.066	.038	0	.000	.000	.000	0	32	28	26	0	99	90
450		S	8	35	85	.000	.086	.050	0	.000	.000	.000	0	32	28	16	0	96	100
460	LOADER,FRONT END &LOADER F/E	A	10	25	70	.000	.071	.041	0	.000	.000	.000	0	32	38	0	0	0	120
460	WITH BACKHOE,CRAWLER TYPE	S	8	25	91	.000	.092	.054	0	.000	.000	.000	0	32	38	0	0	0	130
	LOADER, WHEEL TYPE																		
465	0 THRU 225 HP	A	10	25	65	.000	.066	.038	0	.000	.000	.000	0	32	40	70	42	0	70
465		S	8	25	85	.000	.086	.050	0	.000	.000	.000	0	32	40	41	22	0	75
470	OVER 225 HP	A	12	20	65	.000	.066	.038	0	.000	.000	.000	0	32	30	70	42	0	70
470		S	10	20	85	.000	.086	.050	0	.000	.000	.000	0	32	30	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	
475	LOADER, FRONT END WITH	A	10	30	65	.000	.066	.038	0	.000	.000	.000	0	32	28	72	50	0	80
475	BACKHOE,WHEEL TYPE	S	8	30	85	.000	.086	.050	0	.000	.000	.000	0	32	28	57	35	0	85
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	A	6	35	65	.000	.066	.038	0	.000	.000	.000	0	32	28	0	0	0	90
485	PIPELAYERS	A	12	30	35	.000	.000	.021	0	.000	.000	.000	0	0	32	0	0	0	75
485		S	10	30	45	.000	.000	.027	0	.000	.000	.000	0	0	32	0	0	0	85
	PUMP, GROUT (SEE KEY NO. 105)																		
495	PUMP, WATER, ENGINE DRIVE	A	10	20	90	.000	.091	.053	0	.000	.000	.000	0	32	38	0	0	0	80
500	PUMP, WATER, ELECTRIC DRIVE	A	10	20	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	25	65	.000	.066	.038	65	.000	.066	.038	0	24	24	76	60	84	80
530	ROLLERS, VIBRATORY	A	8	25	90	.000	.091	.053	90	.000	.091	.053	0	24	24	76	60	84	100
540	SCRAPERS, STANDARD	A	10	20	60	.000	.000	.035	60	.000	.000	.035	0	0	27	59	33	65	60
540		S	8	20	78	.000	.000	.046	78	.000	.000	.046	0	0	27	39	19	43	65
542	SCRAPERS, TANDEM POWERED	A	10	20	62	.000	.000	.037	62	.000	.000	.037	0	0	25	59	33	65	65
542		S	8	20	81	.000	.000	.048	81	.000	.000	.048	0	0	25	39	19	43	70
	SCRAPERS, ELEVATING																		
545	0 THRU 200 HP	A	10	25	66	.000	.000	.039	66	.000	.000	.039	0	0	34	59	33	65	75
545		S	8	25	86	.000	.000	.051	86	.000	.000	.051	0	0	34	39	19	43	80
550	OVER 200 HP	A	10	25	66	.000	.000	.039	66	.000	.000	.039	0	0	24	59	33	65	65
550		S	8	25	86	.000	.000	.051	86	.000	.000	.051	0	0	24	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
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED																		
570	0 THRU 1 CY	A	11	20	60	.000	.061	.035	0	.000	.000	.000	0	18	18	0	0	0	70
570		S	9	20	78	.000	.079	.046	0	.000	.000	.000	0	18	18	0	0	0	80
585	OVER 1 CY THRU 2-1/2 CY	A	13	20	60	.000	.061	.035	0	.000	.000	.000	0	18	18	0	0	0	80
585		S	11	20	78	.000	.079	.046	0	.000	.000	.000	0	18	18	0	0	0	90
595	OVER 2-1/2 CY THRU 5 CY	A	16	20	60	.000	.061	.035	0	.000	.000	.000	0	18	18	0	0	0	90
595		S	14	20	78	.000	.079	.046	0	.000	.000	.000	0	18	18	0	0	0	100
600	OVER 5 CY	A	18	20	60	.000	.061	.035	0	.000	.000	.000	0	18	18	0	0	0	110
600		S	16	20	78	.000	.079	.046	0	.000	.000	.000	0	18	18	0	0	0	110
601	OVER 2-1/2 CY ELECTRIC	A	22	20	50	.500	.000	.000	0	.000	.000	.000	25	0	0	0	0	0	70
601		S	20	20	65	.650	.000	.000	0	.000	.000	.000	25	0	0	0	0	0	80

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER HP	E	G	D	CARRIER POWER HP	E	G	D	FOG E	G	D	TIRES F	D	T	RPR
	TRACTOR, CRAWLER TYPE																		
615	0 THRU 225 HP	A	10	30	70	.000	.000	.041	0	.000	.000	.000	0	0	32	0	0	0	110
615		S	8	30	91	.000	.000	.054	0	.000	.000	.000	0	0	32	0	0	0	120
620	226 HP THRU 425 HP (PER	A	12	25	70	.000	.000	.041	0	.000	.000	.000	0	0	25	0	0	0	90
620	UNIT FOR TANDEM TRACTORS)	S	10	25	91	.000	.000	.054	0	.000	.000	.000	0	0	25	0	0	0	100
625	OVER 425 HP	A	14	20	70	.000	.000	.041	0	.000	.000	.000	0	0	22	0	0	0	90
625		S	12	20	91	.000	.000	.054	0	.000	.000	.000	0	0	22	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	80
630	PUSH PLATES & CLEARING BLADES	S	8	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	90
645	TRACTOR, WHEEL TYPE	A	10	25	65	.000	.066	.038	0	.000	.000	.000	0	24	28	73	44	0	60
645		S	8	25	85	.000	.086	.050	0	.000	.000	.000	0	24	28	38	21	0	65
650	TRENCHER	A	10	25	65	.000	.066	.038	0	.000	.000	.000	0	32	28	91	68	0	90
650		S	8	25	85	.000	.086	.050	0	.000	.000	.000	0	32	28	77	48	0	100
655	TRAILERS, BOTTOM DUMP AND	A	10	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	65	60
655	END DUMP	S	8	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	54	70
660	TRAILERS, FLATBED, LO-BOY AND TILT	A	10	35	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	65	50
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING																		
670	DUMP BODIES	A	8	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	70
670		S	6	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	80
675	ALL OTHER ACCESSORIES	A	8	20	65	.000	.066	.000	0	.000	.000	.000	0	32	0	0	0	0	70
	TRUCK, HIGHWAY																		
690	0 THRU 10,000 GVW	A	8	25	15	.000	.015	.009	0	.000	.000	.000	0	32	28	41	29	0	70
690		S	6	25	20	.000	.020	.012	0	.000	.000	.000	0	32	28	36	22	0	80
695	OVER 10,000 THRU 30,000 GVW	A	8	25	34	.000	.035	.020	0	.000	.000	.000	0	32	28	49	39	0	60
695		S	6	25	44	.000	.045	.026	0	.000	.000	.000	0	32	28	42	30	0	70
705	OVER 30,000 GVW	A	8	25	51	.000	.052	.030	0	.000	.000	.000	0	32	28	51	38	57	60
705		S	6	25	66	.000	.067	.039	0	.000	.000	.000	0	32	28	43	29	48	70
720	TRUCK, OFF-HIGHWAY	A	12	20	40	.000	.000	.024	0	.000	.000	.000	0	0	33	59	36	65	60
720		S	10	20	52	.000	.000	.031	0	.000	.000	.000	0	0	33	39	21	43	70
765	WAGON, BOTTOM & REAR DUMP	A	12	15	65	.000	.066	.038	0	.000	.000	.000	0	24	28	59	39	65	60
765		S	10	15	85	.000	.086	.050	0	.000	.000	.000	0	24	28	39	22	43	70
780	WAGON, WATER	A	12	35	65	.000	.066	.038	0	.000	.000	.000	0	24	28	73	55	81	60
780		S	10	35	85	.000	.086	.050	0	.000	.000	.000	0	24	28	56	40	62	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	6	30	80	.000	.081	.047	0	.000	.000	.000	0	24	24	0	0	90	70
811	WELDERS ELECTRIC POWER	A	8	30	60	.600	.000	.000	0	.000	.000	.000	30	0	0	0	0	0	40

APPENDIX E

ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

	YEAR PURCHASE NEW												
	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
	AGE IN YEARS												
CATEGORY	0	1	2	3	4	5	6	7	8	9	10	11	12
Air Equipment	1771	1675	1563	1630	1521	1354	1295	1186	1165	1028	935	920	929
Asphalt & Concrete Paving Equipment	2757	2636	2461	2296	2111	1941	1815	1686	1610	1451	1304	1263	1235
Buckets	4788	4548	4313	3879	3280	2963	2738	2520	2175	1838	1430	1370	1316
Cranes, Draglines & Clamshells - Crawler & Truck Mounted	3372	3219	3009	2782	2512	2301	2138	2010	1843	1522	1305	1260	1212
Drills	2940	2824	2602	2265	1993	1858	1699	1638	1559	1373	1249	1184	1160
Generators	3658	3448	3160	2817	2390	2301	2128	2053	1839	1456	1316	1283	1243
Graders, Motor	3767	3568	3276	2992	2687	2492	2259	2109	1956	1604	1361	1244	1208
Loaders, Track	3899	3660	3349	3061	2750	2482	2247	2053	1916	1573	1329	1281	1236
Loaders, Wheel	4004	3797	3441	2938	2606	2375	2156	2002	1907	1584	1362	1317	1261
Pile Driving Equipment	3584	3442	3208	2894	2562	2329	2135	1989	1852	1523	1307	1257	1218
Rollers	3533	3425	3199	2913	2653	2396	2139	1983	1872	1556	1328	1279	1230
Scrapers	3767	3568	3276	2992	2687	2492	2259	2109	1956	1604	1361	1244	1208
Shovels, Backhoes & Hydraulic Excavators	3372	3219	3009	2782	2512	2301	2138	2010	1843	1522	1305	1260	1212
Tractors, Crawler & Attachments	3899	3660	3349	3061	2750	2482	2247	2053	1916	1573	1329	1281	1236
Tractors, Wheel	3654	3536	3256	2927	2578	2319	2125	1956	1813	1498	1288	1251	1211
Trenchers	4508	4097	3618	3153	2772	2580	2300	1894	1633	1527	1384	1316	1284
Trucks, Highway	3001	2816	2638	2324	2108	1934	1775	1646	1524	1369	1230	1211	1185
Trucks & Wagons - Off Highway	3787	3667	3363	2964	2588	2364	2196	2081	1965	1568	1315	1293	1245
All Other Equipment	3584	3442	3208	2894	2562	2329	2135	1989	1852	1523	1307	1257	1218
All Tires & Tubes	2584	2555	2506	2369	2055	1792	1699	1615	1485	1334	1114	1092	1092

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	Factor 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
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

TABLE F-1. Maximum Tire Life.

Bias Ply Tires:	
Off-highway E4, L4, & L5	7,000 Hours
All other bias ply tires	5,000 Hours
Radial Ply Tires:	
Off-highway RL4	8,300 Hours
All other radial ply tires	6,000 Hours

APPENDIX G

EQUIPMENT EXTRAS

In addition to features required for safety, the following extras have been included with the major equipment listed in this pamphlet when they are not included with the basic cost and are offered by the manufacturer:

(1) Crane, Crawler-Mounted.

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

(2) Dragline and Clamshell, Crawler-Mounted.

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

(3) Backhoe and Shovel, Crawler-Mounted.

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

(4) Truck Crane Less than 25 Ton.

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

(5) Truck Crane 25 Ton and Larger.

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

(6) Excavators, Hydraulic.

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

(7) Grader.

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

(8) Belt 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.