



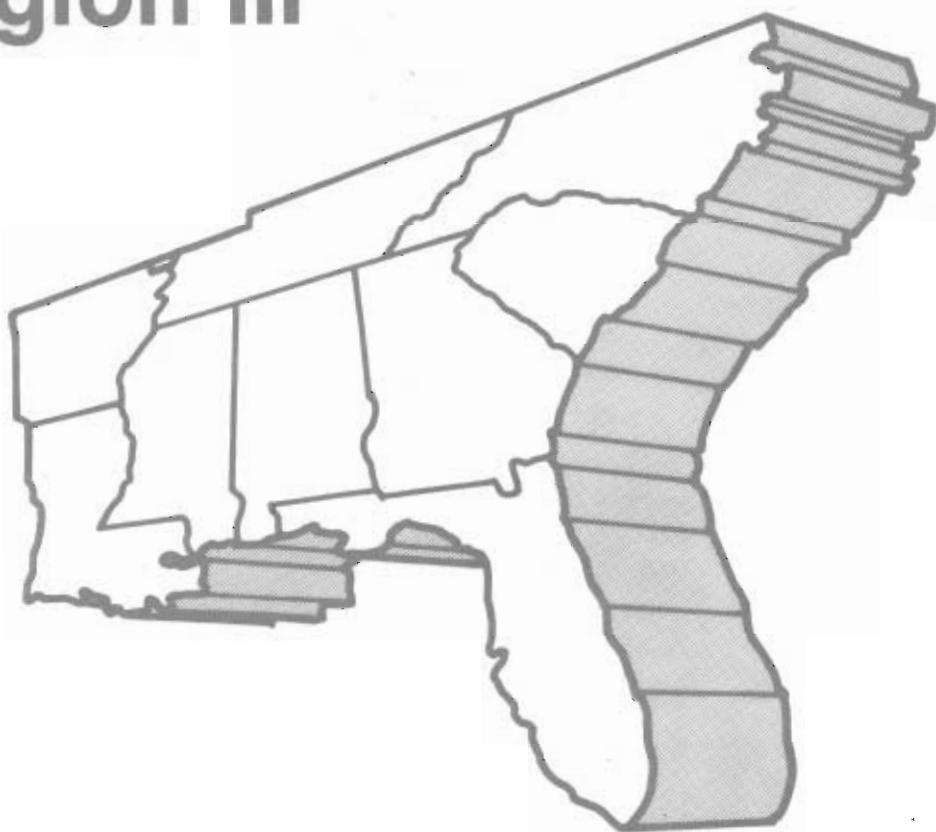
US Army Corps
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Construction Equipment Ownership and Operating Expense Schedule

Region III



Regions for the Construction Equipment Ownership and Operating Expense Schedule



DAEN-CWE-BA
DAEN-MPE-S

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

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Pamphlet
No. 1110-1-8

1 June 1982

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP
AND OPERATING EXPENSE SCHEDULE

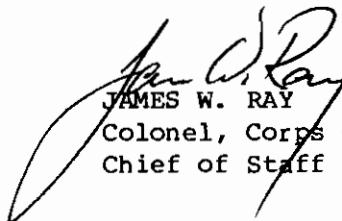
1. Purpose. This pamphlet establishes predetermined equipment ownership and operating expense rates for use in preparation of estimates and in pricing negotiated procurements requiring independent Government estimates.

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

Alabama	Mississippi
Arkansas	Missouri (panhandle south of 36°-30'-00")
Florida	North Carolina
Georgia	South Carolina
Louisiana	Tennessee

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 1980. 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

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DEPARTMENT OF THE ARMY
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CHAPTER I

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 III, which includes the following states:

Alabama	Mississippi
Arkansas	Missouri (panhandle south of 36°-30'-00")
Florida	North Carolina
Georgia	South Carolina
Louisiana	Tennessee

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 1980. 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 for all construction contracts (including dredging) and modifications requiring an independent Government estimate. 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.

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c. Cost or pricing data is required and available but all or part of the data is determined not to be in accordance with the cost principles of the 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 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 purchased new. The ownership costs shown in TABLE 3-1 represent the hourly costs for equipment purchased new on 1 July 1980.

(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 purchased new.

(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 (14.750%) 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 11.7% to avoid duplication when applying markups for overhead and profit.

$$CFC/hr = \frac{[(N-1)(1+S)+2]}{2N} \frac{(\text{Equipment Cost})}{(\text{Work Hrs per Year})} (11.7\%)$$

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

(b) The salvage value is determined by multiplying the salvage value 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:

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

where:

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

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

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

(4) Gasoline wt = 6.1 lbs per gallon

(5) Diesel wt = 7.1 lbs per gallon

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

(c) It is necessary to modify the rated horsepower as engines and motors in actual production do not work at their full rated horsepower at all times. The horsepower factor used in the fuel and electricity consumption formulas represents the average percent of full rated horsepower being utilized by the engine. The "HP Factors" are given in APPENDIX D.

(d) The cost per gallon for gasoline and diesel fuel and the cost per kilowatt hour for electricity used to compute the hourly fuel and electricity costs are shown in APPENDIX B. The hourly fuel costs for all gasoline powered equipment and diesel powered highway trucks and truck crane carriers includes an allowance for federal and state road taxes, sales taxes and rental for fuel storage tanks and pumps.

(e) The estimated hourly fuel costs included in TABLE 3-1 are also noted separately for both average and severe conditions. Hourly fuel costs will be adjusted in the event the averaged (weighted) fuel prices (F.O.B. jobsite) vary by more than 10 percent above or below the price assumed in the basic computation. For example, if the price per gallon should increase by 15 percent, then 15 percent of the hourly fuel cost will be added to the total hourly rate. The Contractor will be required to furnish copies of all fuel supply contracts and invoices to the Government. Request for upward adjustment in the rates will be considered only where fuel is to be supplied by recognized distributors.

(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," prepared by Terex Division of General Motors. The maximum tire life, however, has been assumed to be as indicated in APPENDIX F. A sample computation of the

tire wear factors for off-highway haul units is given in APPENDIX F.

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

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

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

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

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

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CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET <i>(EP 1110-1-8)</i>	
1. <u>REQUIRED DATA</u> (Since this request for information is to less than ten persons, OMB Approval under Section 3507, 44 USC, is not required.) a. Unit Number <u>2835</u> (1) Equipment Description <u>Lorain Truck Crane</u> 50-Ton (2) Model and Series <u>MC-550 A</u> w/160' Boom (3) Year Purchased <u>1980</u> (4) Year Purchased New <u>1980</u> (5) Equipment Horsepower <u>115</u> (6) Carrier Horsepower <u>246</u> (7) Fuel Type <u>Diesel/Diesel</u> (8) Shipping Weight <u>11,100 lbs.</u> (9) Tire Size: Front <u>1400x20-18PR</u> Drive <u>1400x20-18PR</u> Trailing <u>N/A</u>	
b. Key Number from APPENDIX D <u>225</u> (1) Condition <u>Average</u> (2) Salvage Value % <u>20%</u> (3) Life <u>18,000 Hrs.</u> (4) Equipment Fuel Factor <u>.038</u> (5) Carrier Fuel Factor <u>.006</u> (6) FOG Factor: Gas <u>N/A</u> Diesel <u>.26</u> Electric <u>N/A</u> (7) Tire Wear Factor: Front <u>.95</u> Drive <u>.90</u> Trailing <u>N/A</u> (8) Repairs Cost Factor <u>.60</u>	
2. <u>EQUIPMENT COST</u> a. List Price When New (including extras) <u>\$ 295,739.00</u> (1) Discount: (List Price) x *7.5% *(17.5% for Highway Trucks) <u>= (\$ 295,739.00) x *.075</u> <u>= (-) \$ 22,180.43</u> (2) Freight: (Shipping Weight) x (Prep. and Del. Rate) From 1-a-(8) From APPENDIX B <u>= (11,100 cwt) x (\$ 2.46)</u> <u>= (+) \$ 27,333.06</u> b. Subtotal: Summation of Part a. (Use actual cost when available) <u>\$ 276,291.63</u> (1) State Sales Tax: (Subtotal) x (Tax Rate) From 2-b <u>= (\$ 276,291.63) x (.04)</u> <u>= (+) \$ 11,051.67</u> c. Equipment Cost: Summation of Part b. (Use actual cost when available) <u>\$ 287,343.30</u>	

Figure 2-1. Example of Equipment Rate Computation.

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

3. LIFE (N)

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

$$=(\underline{18,000} \text{ Hrs}) + (\underline{1550} \text{ Hrs/Yr}) = \underline{11,61} \text{ yrs.}$$

4. ECONOMIC ADJUSTMENT FACTOR (EAF)

(Economic Index for Present) + (Economic Index for Year)
Year From APPENDIX E Purchased New From APP. E

$$=(\underline{3197}) + (\underline{2782}) = \underline{1.149} \text{ (EAF)}$$

5. SALVAGE VALUE FACTOR (S)

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

$$=(\underline{.20}) \times (\underline{1.149}) = \underline{.230} (S)$$

6. OWNERSHIP COSTS

a. Depreciation:

Equipment Life
[(Cost From) x [1.0 - (S From)] - (Tire Cost)] + (From)
2-c 5 When New 1-b-(3)

$$=[(\underline{\$287,343}) \times [1.0 - (\underline{.230})] - (\underline{\$7,152})] + (\underline{18,000 \text{ Hr}}) = \$ \underline{11,89}/\text{Hr.}$$

b. Cost of Facilities Capital (CFC):

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

$$=[((\underline{11.61} \text{ yrs}) - 1.0) \times [(\underline{.230}) + 1.0] + 2.0] + [(\underline{11.61} \text{ yrs}) \times 2.0] = \underline{16482}$$

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

$$=(\underline{\$287,343}) \times (\underline{16482}) \times (\underline{.117}) + (\underline{1550} \text{ Hrs/Yr}) = \$ \underline{14,06}/\text{Hr.}$$

c. Total Hourly Ownership: (Sum 6-a + 6-b/2) = \$ 25.95/Hr.

Figure 2-1. (Continued)

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

7. OPERATING COSTS

a. Fuel Costs:

(1) Equipment: (Equip Fuel Factor) x (H.P. From) x (Fuel Cost)
 From 1-b-(4) 1-a-(5) Per Gal.
 $= (.038) \times (115 \text{ HP}) \times (\$ 1.08/\text{Gal}) = \$ 4.72/\text{Hr.}$

(2) Carrier: (Carrier Fuel Factor) x (H.P. From) x (Fuel Cost)
 From 1-b-(5) 1-a-(6) Per Gal.
 $= (.006) \times (246 \text{ HP}) \times (\$ 1.20/\text{Gal}) = \$ 1.77/\text{Hr.}$

(3) Total Fuel Costs: (Sum 7-a-(1), 7-a-(2)) = \$ 6.49/Hr.

b. FOG Costs:

(1) Equipment: (FOG Factor) x (Hourly Fuel Cost)
 From 1-b-(6) From 7-a-(1)
 $= (.26) \times (\$ 4.72/\text{Hr}) = \$ 1.23/\text{Hrs.}$

(2) Carrier: (FOG Factor) x (Hourly Fuel Cost)
 From 1-b-(6) From 7-a-(2)
 $= (.26) \times (\$ 1.77/\text{Hr}) = \$.46/\text{Hr.}$

(3) Total FOG Costs: (Sum 7-b-(1), 7-b-(2)) = \$ 1.69/Hr.

c. Repairs Cost:

(1) Repair Factor:
 (Repairs Cost Factor) x (EAF) x (LAF From)
 From 1-b-(8) From 4 APP. B
 $= (.60) \times (1.149) \times (.90) = .6205$

(2) Hourly Repairs:
 Equipment Life
 [(Cost From) - (Tire Cost)] x (Repair Factor) + (From)
 2-c When New From 7-c-(1) 1-b-(3)
 $= [(\$ 287,343) - (\$ 7152)] \times (.6205) + 18,000 \text{ Hr} = \$ 9.66/\text{Hr.}$

Figure 2-1. (Continued)

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

d. Tire Wear Costs:

$$(1) \text{Front Tires: } 1.5 \times (\text{Tires}) + [1.8 \times (\text{Ftr Frm}) \times (\text{Life Frm})] \\ \text{Cost} \quad \text{F-Tire} \quad \text{Max Tire} \\ \text{l-b-(7)} \quad \text{Tbl F-1} \\ = 1.5 \times (\underline{\underline{2,709}}) + [1.8 \times (\underline{\underline{.95}}) \times (\underline{\underline{5000 \text{Hr}}})] = \$ \underline{\underline{48}} / \text{Hr.}$$

$$(2) \text{Drive Tires: } 1.5 \times (\text{Tires}) + [1.8 \times (\text{Ftr Frm}) \times (\text{Life Frm})] \\ \text{Cost} \quad \text{D-Tire} \quad \text{Max Tire} \\ \text{l-b-(7)} \quad \text{Tbl F-1} \\ = 1.5 \times (\underline{\underline{5418}}) + [1.8 \times (\underline{\underline{.90}}) \times (\underline{\underline{5000 \text{Hr}}})] = \$ \underline{\underline{1.00}} / \text{Hr.}$$

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

$$(4) \text{Total Tire Wear Cost: (Sum 7-d-(1) thru (3))} \quad = \$ \underline{\underline{1.48}} / \text{Hr.}$$

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

$$= (\underline{\underline{1.48}}) \times 0.15 \quad = \$ \underline{\underline{.22}} / \text{Hr.}$$

$$\text{f. Total Operating Costs: (Sum 7-a thru 7-e)} \quad = \$ \underline{\underline{19.54}} / \text{Hr.}$$

8. TOTAL HOURLY RATES

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

$$(\text{Ownership Costs Frm 6-c}) + (\text{Operating Costs Frm 7-f}) \\ = (\underline{\underline{25.95}} / \text{Hr}) + (\underline{\underline{19.54}} / \text{Hr}) \quad = \$ \underline{\underline{45.49}} / \text{Hr.}$$

b. Hourly Rate for Other Work Shifts:

$$(\text{Depreciation}) + [(\text{CFC Frm}) \times 40 + (\text{Work Hrs})] + (\text{Operating Costs}) \\ \text{From 6-a} \quad \text{6-b-(2)} \quad \text{Per Week} \quad \text{Frm 7-f} \\ = (\underline{\underline{11.89}} / \text{Hr}) + [(\underline{\underline{14.06}} / \text{Hr}) \times 40 + (\underline{\underline{60 \text{ Hr/Wk}}})] + (\underline{\underline{19.54}} / \text{Hr}) = \$ \underline{\underline{40.80}} / \text{Hr.}$$

c. Hourly Standby Rate:

$$(\text{Depreciation}) \times 0.25 + (\text{CFC Frm}) \\ \text{From 6-a} \quad \text{6-b-(2)} \\ = (\underline{\underline{11.89}} / \text{Hr}) \times 0.25 + (\underline{\underline{14.06}} / \text{Hr}) \quad = \$ \underline{\underline{17.03}} / \text{Hr.}$$

Figure 2-1. (Continued)

2-3. Marine Equipment.

a. General. Hourly use rates for ownership and operating costs have not been developed for marine equipment since this type of equipment is normally custom designed and built. This section, however, presents the methodology for determining the ownership expense expressed as a percent of equipment value, which is defined as the actual acquisition cost plus any capital improvements. The annual percentages are shown in TABLE 2-1 for various types of equipment. When a type of equipment is not listed, the ownership expense percent may be determined by using the percentage listed for a similar type with the same expected life. Hourly ownership and operating expenses for any land-based equipment involved with the operation will be based on the methodology herein for construction equipment.

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

(1) Depreciation. Depreciation was computed using the straight-line method. The annual rate is determined by dividing the depreciable value by the expected normal life of the equipment in years. When the actual age of a piece of equipment exceeds the normal life, one year shall be added to the actual age and the depreciation shall be recomputed. The depreciable value is the acquisition cost, plus any capital improvements, less estimated salvage. Costs for drydocking and major repairs, which occur periodically, are considered a part of operating costs and will be allocated on an equal annual basis over the years between such occurrences, in accordance with paragraph 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, except that CFC is determined on an annual basis instead of an hourly basis and is expressed here as an annual percentage factor.

$$CFC = \frac{[(N-1)(1+S) + 2]}{2N} (11.7\%)$$

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

<u>TYPE OF EQUIPMENT</u>	<u>LIFE (YRS)</u>	<u>SALVAGE VALUE FACTOR</u>	PERCENT <u>ANNUAL OWNERSHIP EXPENSE</u>		
			<u>DEPRE- CIATION</u>	<u>CFC</u>	<u>TOTAL</u>
Hydraulic dredge, including hydraulic dredges used as Boosters:					
10-inch thru 14-inch	20	.05	4.75	6.42	11.17
16-inch thru 20-inch	25	.10	3.60	6.65	10.25
24-inch and over	30	.10	3.00	6.61	9.61
Booster & Barge:					
10-inch thru 14-inch	20	.05	4.75	6.42	11.17
16-inch thru 20-inch	25	.10	3.60	6.65	10.25
24-inch and over	30	.10	3.00	6.61	9.61
Dredge, Hopper	30	.10	3.00	6.61	9.61
Dredge, clamshell/ dragline	20	.05	4.75	6.42	11.17
Dredge, Dipper/Hyd Excav	25	.05	3.80	6.36	10.16
Bucket Dredge	30	.10	3.00	6.61	9.61
Dump Scows	20	.05	4.75	6.42	11.17
Barges:					
Fuel	20	.05	4.75	6.42	11.17
Water	20	.05	4.75	6.42	11.17
Equipment or Work	20	.05	4.75	6.42	11.17
Derrick	20	.10	4.50	6.70	11.20
Anchor	20	.05	4.75	6.42	11.17
Drill Boat or Barge	20	.10	4.50	6.70	11.20
Mooring Barge	20	.05	4.75	6.42	11.17
Tugs	20	.10	4.50	6.70	11.20
Tenders	20	.10	4.50	6.70	11.20
Launches	12	.05	7.92	6.61	14.53
Shore Pipeline (Average)	3	0	33.3	7.80	41.10
Floating Line:					
Pontoons	15	0	6.7	6.24	12.94
Pipeline/Joints (Avg)	10	0	10.0	6.44	16.44

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 2800 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).

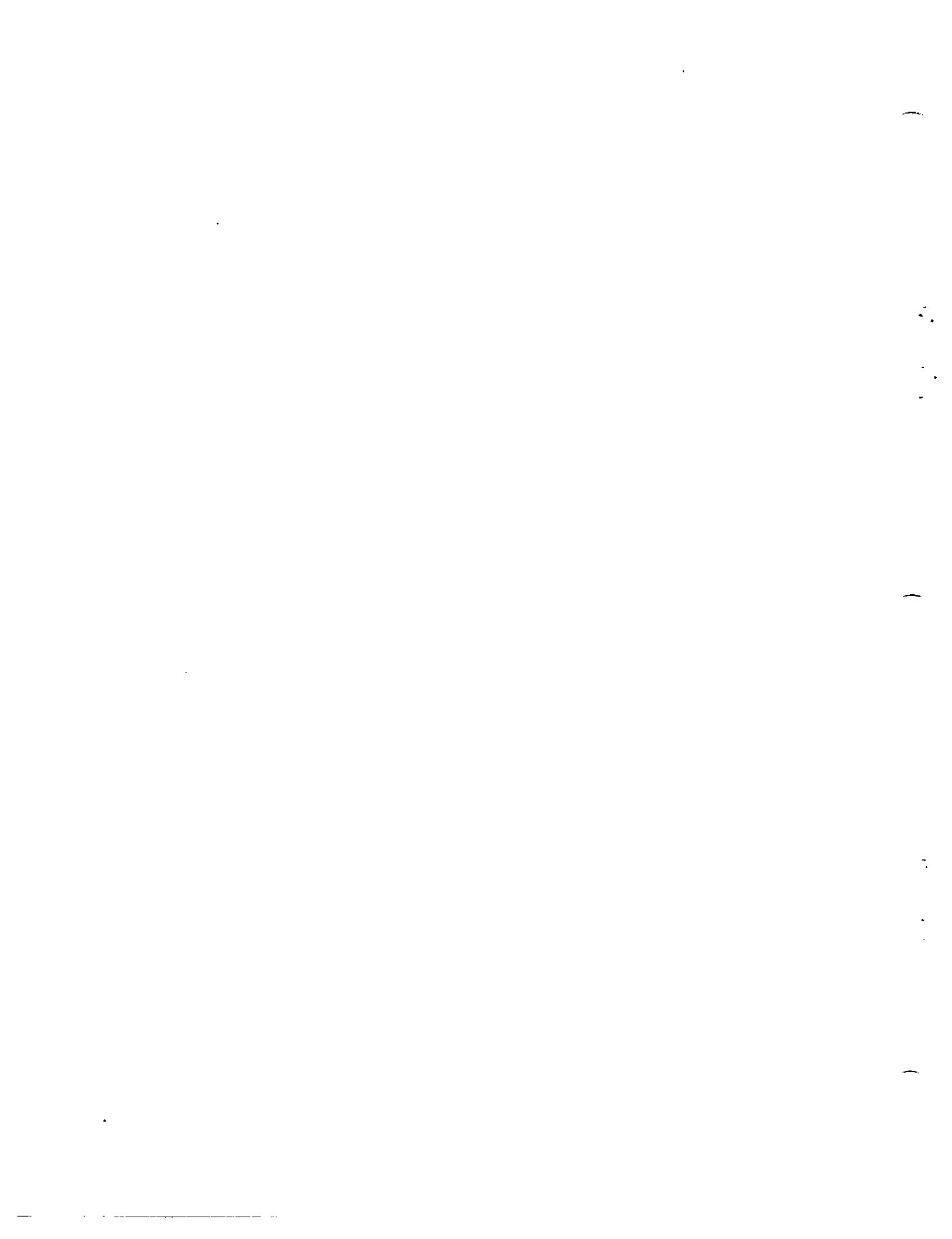


TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

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TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE
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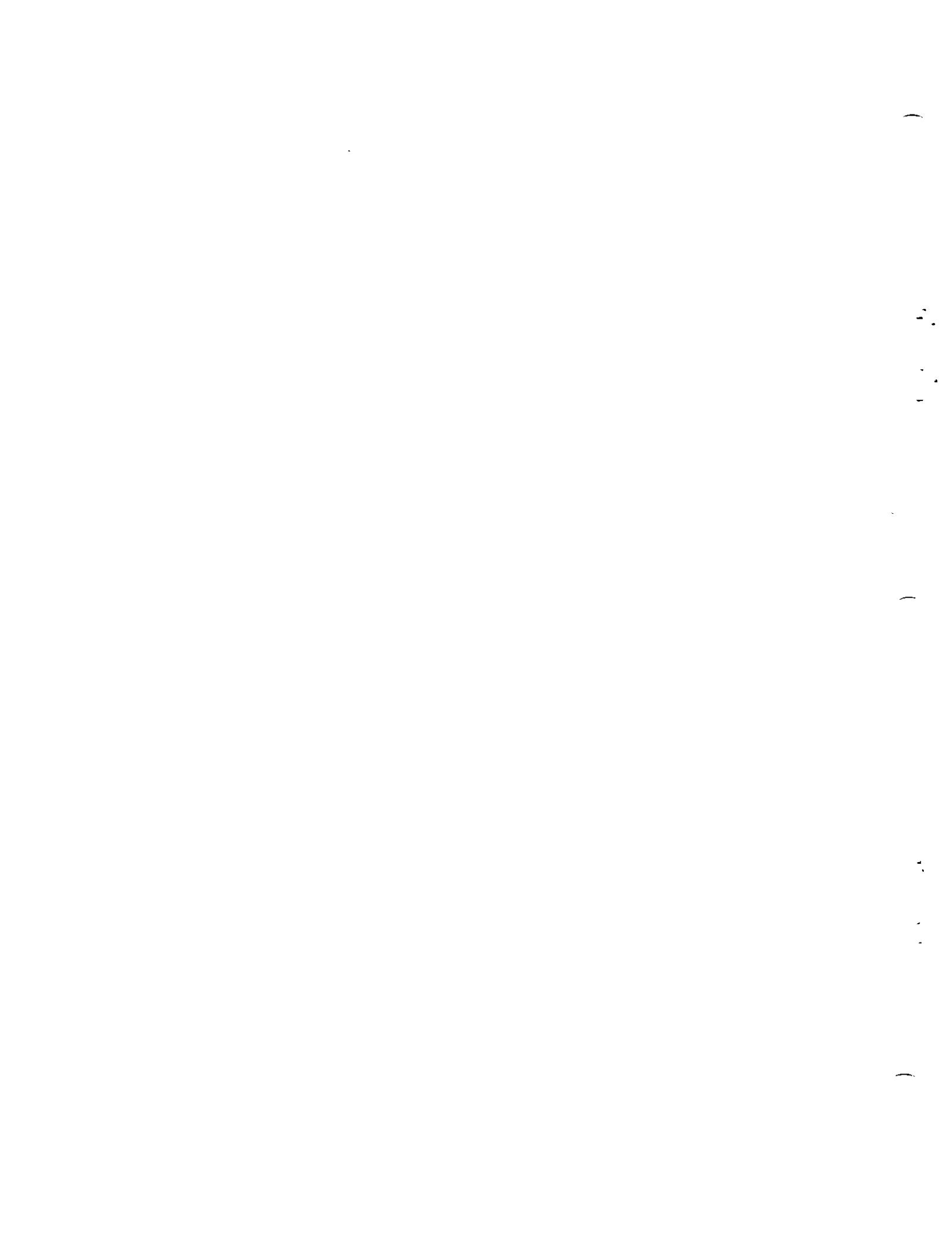


TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE (CONTINUED)

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS			CWT					
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.							
					OWNER-SHIP	FUEL	OWNER-SHIP						
AGGREGATE SPREADER *****													
SELF PROPELLED													
1010	ETNYRE TO 8" DEPTH & 10" WIDE	187 HP G	43,364	24.68	3.02	5.47	12.49	155					
1015	ETNYRE TO 8" DEPTH & 13" WIDE	135 HP D	47,758	15.54	3.33	6.04	4.37	160					
AIR COMPRESSORS PORTABLE ***** (HOSE NOT INCLUDED)													
ROTARY SCREW													
1030	SIZE 85 CFM QUIET 100 PSI	47 HP G	7,235	6.86	0.51	0.91	4.06	17					
1035	SIZE 85 CFM QUIET 100 PSI	38 HP D	10,247	4.13	0.72	1.29	1.56	20					
1040	SIZE 100 CFM QUIET 100 PSI	50 HP G	9,659	7.71	0.68	1.22	4.32	20					
1045	SIZE 100 CFM QUIET 100 PSI	44 HP D	11,589	4.73	0.82	1.46	1.81	23					
1050	SIZE 125 CFM QUIET 100 PSI	70 HP G	11,034	10.28	0.78	1.39	6.05	24					
1055	SIZE 125 CFM QUIET 100 PSI	51 HP D	12,948	5.36	0.91	1.63	2.09	26					
1060	SIZE 150 CFM QUIET 100 PSI	70 HP G	13,697	10.83	0.97	1.73	6.05	26					
1065	SIZE 150 CFM QUIET 100 PSI	69 HP D	16,088	6.96	1.13	2.03	2.83	28					
1070	SIZE 185 CFM QUIET 100 PSI	70 HP G	14,870	11.08	1.05	1.88	6.05	27					
1075	SIZE 185 CFM QUIET 100 PSI	69 HP D	17,530	7.25	1.23	2.21	2.83	29					
1080	SIZE 340 CFM QUIET 100 PSI	103 HP D	34,069	12.47	2.38	4.28	4.23	55					
1085	SIZE 450 CFM QUIET 100 PSI	144 HP D	45,126	16.91	3.16	5.68	5.91	80					
1090	SIZE 600 CFM QUIET 100 PSI	175 HP D	57,237	21.06	4.02	7.23	7.18	111					
1095	SIZE 750 CFM QUIET 100 PSI	228 HP D	72,476	27.00	5.09	9.15	9.36	120					
1100	SIZE 825 CFM QUIET 100 PSI	250 HP D	75,584	28.79	5.30	9.54	10.26	127					
1105	SIZE 900 CFM QUIET 100 PSI	270 HP D	79,042	30.56	5.55	9.98	11.08	148					
1110	SIZE 1000 CFM QUIET 100 PSI	283 HP D	94,700	34.50	6.65	11.94	11.61	165					
1115	SIZE 1200 CFM QUIET 100 PSI	325 HP D	103,859	38.60	7.29	13.10	13.34	192					
1120	SIZE 1600 CFM QUIET 100 PSI	456 HP D	135,642	52.07	9.53	17.13	18.71	223					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL						
					AVERAGE	SEVERE	OWNER-SHIP	FUEL						
AIR TOOLS ***** (HOSE NOT INCLUDED)														
GARDNER DENVER														
1130	SPADER SP27E	32CFM A	920	0.60	0.10	0.23	0.00	0.00	1					
1135	SINKER DRILL S58	98CFM A	2,023	1.31	0.22	0.53	0.00	0.00	1					
1140	PAVING BREAKER B37	41CFM A	944	0.62	0.10	0.24	0.00	0.00	1					
1145	PAVING BREAKER B67C	46CFM A	1,012	0.66	0.11	0.26	0.00	0.00	1					
1150	PAVING BREAKER B87C	50CFM A	1,101	0.71	0.12	0.28	0.00	0.00	1					
1155	FEED LEG DRILL S83E-54" TRAVEL RETRACTABLE FL-7	103CFM A	3,720	2.33	0.40	0.96	0.00	0.00	1					
SANDBLASTERS CLEMCO														
1165	SCW-1042P SANDBLASTER 1/2" HOSE CAP. 100 LBS. W/ACC AND 25' HOSE	101CFM A	1,290	0.82	0.14	0.33	0.00	0.00	3					
1170	SCW-1440P SANDBLASTER 1" HOSE CAP. 150 LBS W/ACC AND 50' HOSE	101CFM A	2,412	1.49	0.26	0.62	0.00	0.00	5					
1175	SCWB-1648P SANDBLASTER 1" HOSE CAP. 300 LBS. W/ACC. AND 50' HOSE	101CFM A	2,433	1.51	0.26	0.63	0.00	0.00	6					
1180	SCWB-2452HPSANDBLASTER 1-1/4" HOS CAP. 600 LBS. W/ACC. AND 50' HOSE	216CFM A	2,702	1.72	0.29	0.69	0.00	0.00	7					
1185	SCH-3079 SANDBLASTER 1-1/4" PIPE CAP. 1400 LBS W/HOPPER & 50' HOSE	216CFM A	3,594	2.24	0.38	0.92	0.00	0.00	9					
1190	MOD 60-H SANDBLASTER 1-1/4" PIPE CAP. 3-TONS W/2 NOZZ. & 50' HOSE	450CFM A	10,438	6.35	1.10	2.62	0.00	0.00	28					
1195	MOD 120-H SANDBLASTER 1-1/4" PIPE CAP. 6-TONS W/3 NOZZ. & 50' HOSE	700CFM A	12,595	7.59	1.31	3.09	0.00	0.00	45					
1200	MOD 160-H SANDBLASTER 1-1/4" PIPE CAP. 8-TONS W/4 NOZZ. & 50' HOSE	900CFM A	15,663	9.51	1.64	3.88	0.00	0.00	53					
CONCRETE VIBRATORS-MASTER														
1210	CONCRETE VIBRATOR MOD A-600SH 6"	125CFM A	1,797	1.61	0.19	0.46	0.00	0.00	1					
1215	CONCRETE VIBRATOR MOD A-450SH 4.5"	110CFM A	1,153	1.06	0.13	0.30	0.00	0.00	1					
1220	CONCRETE VIBRATOR MOD A-35010 3.5"	82CFM A	1,035	0.94	0.11	0.27	0.00	0.00	1					
1225	CONCRETE VIBRATOR MOD A-30010 3"	64CFM A	934	0.83	0.10	0.24	0.00	0.00	1					
1230	CONCRETE VIBRATOR MOD A-25010 2.5"	40CFM A	732	0.66	0.08	0.19	0.00	0.00	1					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.		
			AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
ASPHALT DISTRIBUTOR-ROSCO ***** (NO CHASSIS)									
1240	MOD RES 1000 GAL. TRUCK MOUNTED 18,000 TO 24,000 GVW REQUIRED	50 HP G	21,865	10.23		1.55	2.64	4.32	72
1245	MOD RES 1500 GAL. TRUCK MOUNTED 24,000 TO 32,000 GVW REQUIRED	50 HP G	22,683	10.39		1.61	2.73	4.32	75
1250	MOD RES 2000 GAL. TRUCK MOUNTED 32,000 GVW REQUIRED	50 HP G	24,322	10.73		1.72	2.93	4.32	87
1255	MOD RES 3000 GAL. TRUCK MOUNTED 42,000 GVW REQUIRED	50 HP G	27,987	11.48		1.98	3.37	4.32	109
ASPHALT FINISHERS-BARBER GREENE *****									
1265	MOD SB111 8'-12' WIDE (PNEUMATIC)	70 HP D	75,005	20.83		5.21	9.39	2.87	165
1270	MOD SB131 10'-12' WIDE (P'MATIC) W/VIB SCREED,AUTO. FEEDERS AND GR CONTROL	95 HP D	108,996	29.78		7.57	13.67	3.90	258
1275	MOD SB140 10'-12' WIDE (P'MATIC) OPTIONS SAME AS MOD SB131	130 HP D	124,814	35.25		8.68	15.68	5.34	325
1280	MOD SA150 10'-12' WIDE (CRAWLER) OPTIONS SAME AS MOD SB131	130 HP D	150,328	39.83		10.54	19.27	5.34	375
BROOMS M-B *****									
1290	MOD 53T HYD 7 FT. TOWED MECH/DRIVE W/SPRINKLER		4,789	1.22		0.33	0.60	0.00	24
1295	MOD 53-M 7 FT. TOWED MOTOR/DRIVEN W/SPRINKLER	30 HP G	6,415	4.65		0.45	0.81	2.59	30
1300	MOD MT 7 FT. TRACTOR/MOUNTED PTO/DRIVE W/SPRINKLER/		2,190	0.64		0.15	0.28	0.00	10
1305	MOD HT 7 FT. TRACTOR/MOUNTED HYD/DRIVE W/SPRINKLER		3,677	0.92		0.26	0.47	0.00	14
BRUSH CHIPPERS - FITCHBERG *****									
1315	MOD TWC-612 CAP. TO 6" DIA. LOG 151 HP G		9,246	14.07		0.65	1.17	9.10	40
1320	MOD TWC-915 CAP. TO 9" DIA. LOG 165 HP G		10,630	15.49		0.74	1.34	9.94	42
1325	MOD PT-540 CAP. TO 6" PTO/DRIVE		4,567	1.02		0.32	0.58	0.00	15

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE										
BUCKETS-CLAMSHELL *****														
GENERAL PURPOSE - SQUARE NOSE ESCO MODEL GPS														
1335	.75 C.Y.	7,968	1.66	2.08	0.56	1.02	0.00	1.18	0.00	33				
1340	1.0 C.Y.	9,298	1.94	2.43	0.65	1.19	0.00	1.38	0.00	43				
1345	1.5 C.Y.	13,668	2.85	3.59	0.96	1.75	0.00	2.04	0.00	65				
1350	2.0 C.Y.	15,465	3.23	4.05	1.08	1.98	0.00	2.30	0.00	72				
1355	2.5 C.Y.	20,154	4.20	5.29	1.41	2.58	0.00	3.01	0.00	94				
1360	3.0 C.Y.	21,348	4.46	5.60	1.50	2.74	0.00	3.18	0.00	99				
1365	3.5 C.Y.	21,829	4.56	5.72	1.53	2.80	0.00	3.25	0.00	110				
1370	4.0 C.Y.	24,033	5.03	6.30	1.69	3.09	0.00	3.58	0.00	120				
1375	4.5 C.Y.	25,979	5.43	6.81	1.83	3.34	0.00	3.87	0.00	132				
1380	5.0 C.Y.	28,134	5.88	7.38	1.98	3.61	0.00	4.19	0.00	146				
1385	5.5 C.Y.	30,362	6.35	7.96	2.13	3.90	0.00	4.52	0.00	158				
1390	6.0 C.Y.	31,428	6.56	8.24	2.20	4.03	0.00	4.68	0.00	166				
1395	6.5 C.Y.	33,993	7.10	8.91	2.38	4.36	0.00	5.06	0.00	177				
1400	7.0 C.Y.	35,000	7.32	9.19	2.46	4.50	0.00	5.22	0.00	185				
1405	7.5 C.Y.	36,317	7.59	9.52	2.55	4.66	0.00	5.40	0.00	192				
HEAVY DUTY - SQUARE NOSE ESCO MODEL HDS														
1415	.75 C.Y.	8,341	1.74	2.19	0.58	1.07	0.00	1.24	0.00	35				
1420	1.0 C.Y.	11,288	2.36	2.97	0.79	1.45	0.00	1.69	0.00	49				
1425	1.5 C.Y.	16,406	3.42	4.30	1.15	2.10	0.00	2.44	0.00	74				
1430	2.0 C.Y.	17,696	3.70	4.65	1.24	2.27	0.00	2.64	0.00	82				
1435	2.5 C.Y.	22,489	4.70	5.90	1.58	2.89	0.00	3.35	0.00	105				
1440	3.0 C.Y.	24,589	5.14	6.46	1.73	3.16	0.00	3.67	0.00	116				
1445	3.5 C.Y.	26,523	5.55	6.96	1.87	3.41	0.00	3.95	0.00	126				
1450	4.0 C.Y.	28,500	5.96	7.48	2.00	3.66	0.00	4.25	0.00	137				
1455	4.5 C.Y.	30,595	6.39	8.03	2.14	3.92	0.00	4.56	0.00	147				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL				
***** BUCKETS-CLAMSHELL (CONT'D) *****												
HEAVY DUTY - SQUARE NOSE (CONT'D)												
ESCO MODEL HDS												
1460	5.0 C.Y.	33,667	7.03	8.83	2.36	4.32	0.00	5.02	0.00	163		
1465	5.5 C.Y.	35,521	7.42	9.31	2.49	4.56	0.00	5.29	0.00	172		
1470	6.0 C.Y.	37,576	7.86	9.86	2.64	4.83	0.00	5.60	0.00	182		
1475	6.5 C.Y.	39,160	8.19	10.27	2.75	5.03	0.00	5.83	0.00	193		
1480	7.0 C.Y.	40,790	8.53	10.70	2.86	5.24	0.00	6.08	0.00	201		
1485	7.5 C.Y.	42,407	8.86	11.12	2.97	5.44	0.00	6.31	0.00	209		
EXTRA HEAVY DUTY - SQUARE NOSE												
ESCO MODEL XDS												
1495	.75 C.Y.	12,653	2.64	3.32	0.89	1.62	0.00	1.89	0.00	52		
1500	1.0 C.Y.	12,898	2.69	3.38	0.90	1.65	0.00	1.92	0.00	58		
1505	1.5 C.Y.	19,163	4.00	5.02	1.34	2.46	0.00	2.85	0.00	85		
1510	2.0 C.Y.	23,179	4.85	6.08	1.63	2.98	0.00	3.45	0.00	103		
1515	2.5 C.Y.	25,857	5.40	6.78	1.81	3.32	0.00	3.85	0.00	119		
1520	3.0 C.Y.	28,075	5.86	7.36	1.97	3.60	0.00	4.18	0.00	135		
1525	3.5 C.Y.	29,507	6.17	7.73	2.07	3.79	0.00	4.39	0.00	149		
1530	4.0 C.Y.	31,253	6.54	8.19	2.20	4.02	0.00	4.65	0.00	158		
1535	4.5 C.Y.	32,728	6.84	8.59	2.30	4.20	0.00	4.88	0.00	168		
1540	5.0 C.Y.	35,096	7.33	9.21	2.46	4.50	0.00	5.23	0.00	181		
1545	5.5 C.Y.	37,154	7.75	9.74	2.60	4.76	0.00	5.53	0.00	193		
1550	6.0 C.Y.	39,057	8.16	10.25	2.74	5.01	0.00	5.82	0.00	203		
1555	6.5 C.Y.	42,316	8.84	11.09	2.97	5.43	0.00	6.30	0.00	220		
1560	7.0 C.Y.	43,579	9.10	11.43	3.06	5.59	0.00	6.49	0.00	230		
1565	7.5 C.Y.	45,644	9.54	11.97	3.21	5.86	0.00	6.80	0.00	241		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL OWNER-SHIP	FUEL					
BUCKETS-CONCRETE-GAR-BRO *****													
GENERAL PURPOSE - MANUAL													
1575	433-G 1.0 C.Y.	1,200	0.25		0.08	0.15	0.00		6				
1580	442-G 1.5 C.Y.	1,501	0.32		0.11	0.20	0.00		8				
1585	462-G 2.0 C.Y.	1,952	0.41		0.14	0.25	0.00		11				
1590	493-G 3.0 C.Y.	2,767	0.57		0.19	0.35	0.00		19				
1595	4123-G 4.0 C.Y.	3,502	0.73		0.25	0.45	0.00		23				
GENERAL PURPOSE - LOW SLUMP - AIR													
1605	440-A 1.0 C.Y.	5,224	1.10		0.37	0.68	0.00		19				
1610	450-A 1.5 C.Y.	5,435	1.14		0.39	0.70	0.00		21				
1615	460-A 2.0 C.Y.	5,640	1.18		0.40	0.73	0.00		23				
1620	493-A 3.0 C.Y.	7,376	1.53		0.51	0.94	0.00		42				
1625	4139-A 4.0 C.Y.	7,648	1.60		0.54	0.98	0.00		52				
1630	4200-A 6.0 C.Y. DBL. COMPT.	11,065	2.31		0.78	1.42	0.00		72				
1635	4250-A 8.0 C.Y. DBL. COMPT.	13,251	2.77		0.93	1.70	0.00		80				
LAYDOWN - HEAVY DUTY - CLAM GATE AIR													
1645	425-A 1.0 C.Y.	5,962	1.24		0.42	0.76	0.00		26				
1650	465-A 2.0 C.Y.	6,750	1.40		0.47	0.86	0.00		31				
1655	495-A 3.0 C.Y.	7,699	1.61		0.54	0.99	0.00		40				
1660	4125-A 4.0 C.Y.	8,559	1.78		0.60	1.09	0.00		49				
1665	4155-A 5.0 C.Y.	10,018	2.10		0.71	1.29	0.00		60				
BUCKETS-DRAGLINE *****													
LIGHT WEIGHT - PERFORATED HENDRIX MODEL LS													
1680	.75 C.Y.	2,668	0.56	0.70	0.19	0.35	0.00	0.40	0.00				
1685	1.0 C.Y.	3,164	0.66	0.83	0.22	0.41	0.00	0.47	0.00				
1690	1.5 C.Y.	3,856	0.81	1.01	0.28	0.50	0.00	0.57	0.00				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP					
***** BUCKETS-DRAGLINE (CONT'D) *****													
LIGHT WEIGHT - PERFORATED (CONT'D) HENDRIX MODEL LS													
1695	2.0 C.Y.	4,554	0.95	1.20	0.32	0.58	0.00	0.68	0.00	32			
1700	2.5 C.Y.	5,349	1.12	1.41	0.38	0.69	0.00	0.80	0.00	37			
1705	3.0 C.Y.	6,595	1.37	1.73	0.46	0.84	0.00	0.98	0.00	46			
1710	3.5 C.Y.	7,297	1.53	1.92	0.51	0.94	0.00	1.09	0.00	50			
1715	4.0 C.Y.	8,883	1.86	2.33	0.62	1.14	0.00	1.32	0.00	65			
1720	4.5 C.Y.	9,432	1.97	2.48	0.66	1.21	0.00	1.41	0.00	69			
1725	5.0 C.Y.	11,380	2.38	2.98	0.80	1.46	0.00	1.69	0.00	85			
1730	6.0 C.Y.	12,341	2.58	3.24	0.87	1.59	0.00	1.84	0.00	90			
1735	7.0 C.Y.	13,489	2.82	3.54	0.94	1.73	0.00	2.01	0.00	101			
1740	8.0 C.Y.	14,955	3.13	3.92	1.05	1.92	0.00	2.23	0.00	112			
1745	9.0 C.Y.	17,274	3.61	4.54	1.22	2.22	0.00	2.58	0.00	128			
1750	10.0 C.Y.	18,770	3.92	4.92	1.32	2.41	0.00	2.79	0.00	139			
1755	12.0 C.Y.	23,083	4.82	6.06	1.62	2.96	0.00	3.44	0.00	166			
1760	14.0 C.Y.	26,542	5.55	6.97	1.87	3.41	0.00	3.96	0.00	191			
MEDIUM WEIGHT - HENDRIX MODEL TS													
1770	.75 C.Y.	3,110	0.65	0.81	0.22	0.40	0.00	0.46	0.00	17			
1775	1.0 C.Y.	3,826	0.80	1.00	0.27	0.49	0.00	0.57	0.00	19			
1780	1.5 C.Y.	4,711	0.99	1.23	0.33	0.61	0.00	0.70	0.00	28			
1785	2.0 C.Y.	5,613	1.17	1.47	0.39	0.72	0.00	0.83	0.00	36			
1790	2.5 C.Y.	6,471	1.35	1.70	0.46	0.83	0.00	0.97	0.00	41			
1795	3.0 C.Y.	7,735	1.61	2.03	0.54	0.99	0.00	1.15	0.00	49			
1800	3.5 C.Y.	8,545	1.78	2.24	0.60	1.09	0.00	1.27	0.00	54			
1805	4.0 C.Y.	10,246	2.15	2.68	0.72	1.32	0.00	1.52	0.00	70			
1810	4.5 C.Y.	10,966	2.29	2.87	0.77	1.41	0.00	1.63	0.00	72			
1815	5.0 C.Y.	14,054	2.93	3.68	0.98	1.80	0.00	2.09	0.00	93			
1820	6.0 C.Y.	14,523	3.04	3.81	1.02	1.87	0.00	2.16	0.00	96			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
BUCKETS-DRAGLINE (CONT'D) *****														
MEDIUM WT. - HENDRIX MODEL TS CONT'D														
1825	7.0 C.Y.	16,574	3.47	4.35	1.16	2.13	0.00	2.47	0.00	111				
1830	8.0 C.Y.	18,249	3.82	4.79	1.29	2.35	0.00	2.72	0.00	122				
1835	9.0 C.Y.	21,842	4.57	5.72	1.54	2.81	0.00	3.25	0.00	149				
1840	10.0 C.Y.	23,259	4.86	6.11	1.63	2.99	0.00	3.47	0.00	159				
1845	12.0 C.Y.	29,644	6.19	7.78	2.08	3.80	0.00	4.42	0.00	202				
1850	14.0 C.Y.	33,009	6.89	8.65	2.31	4.23	0.00	4.91	0.00	225				
HEAVY WEIGHT - HENDRIX MODEL MH-S														
1860	2.75 C.Y.	12,430	2.59	3.26	0.87	1.59	0.00	1.85	0.00	69				
1865	3.0 C.Y.	12,925	2.70	3.38	0.91	1.66	0.00	1.92	0.00	72				
1870	3.5 C.Y.	14,472	3.02	3.79	1.01	1.85	0.00	2.15	0.00	81				
1875	4.0 C.Y.	19,352	4.04	5.07	1.36	2.48	0.00	2.88	0.00	110				
1880	4.5 C.Y.	21,636	4.52	5.67	1.52	2.78	0.00	3.22	0.00	123				
1885	5.0 C.Y.	22,342	4.66	5.86	1.56	2.86	0.00	3.33	0.00	127				
1890	6.0 C.Y.	23,924	5.00	6.27	1.68	3.07	0.00	3.56	0.00	136				
1895	7.0 C.Y.	30,413	6.35	7.98	2.13	3.90	0.00	4.53	0.00	175				
1900	8.0 C.Y.	31,280	6.54	8.19	2.20	4.02	0.00	4.65	0.00	180				
1905	9.0 C.Y.	39,771	8.31	10.43	2.79	5.11	0.00	5.92	0.00	234				
1910	10.0 C.Y.	41,300	8.64	10.83	2.90	5.31	0.00	6.15	0.00	243				
1915	12.0 C.Y.	49,120	10.26	12.89	3.44	6.30	0.00	7.32	0.00	289				
1920	14.0 C.Y.	52,287	10.92	13.70	3.67	6.71	0.00	7.78	0.00	309				
COMPACTORS MANUALLY OPERATED *****														
1930	UR-12 I-R RAMMER	3 HP G	1,530	0.96		0.13	0.28	0.36		1				
1935	GVR75Y WACKER RAMMER	3 HP G	1,204	0.85		0.10	0.22	0.36		1				
1940	GVR100 WACKER RAMMER	5 HP G	1,638	1.29		0.15	0.31	0.60		1				
1945	GVR151Y WACKER RAMMER	5 HP G	2,115	1.44		0.18	0.39	0.60		2				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE	SEVERE COND.	AVERAGE FUEL	SEVERE COND.	AVERAGE FUEL	
COMPACTORS MANUALLY OPERATED (CONT'D)										
1950	GVR220Y WACKER RAMMER	6 HP G	2,736	1.82		0.24	0.52	0.72		2
1955	VPG160B WACKER VIBRO PLATE	3 HP G	1,057	0.81		0.10	0.20	0.36		2
1960	VPG260K WACKER VIBRO PLATE	7 HP G	1,721	1.61		0.15	0.32	0.83		3
1965	VPG600 WACKER VIBRO PLATE	9 HP G	3,105	2.36		0.26	0.57	1.07		7
1970	DPS2350 WACKER VIBRO PLATE	7 HP D	3,294	1.60		0.28	0.61	0.40		4
1975	DPS4570 WACKER VIBRO PLATE	10 HP D	5,327	2.49		0.46	0.99	0.57		8
1980	DVU4001 WACKER VIBRO PLATE	10 HP D	10,914	4.38		0.95	2.04	0.57		13
1985	W 55 T WACKER D/D ROLLER	8 HP D	10,483	4.09		0.91	1.96	0.46		17
1990	W 74 T WACKER D/D ROLLER	8 HP D	11,832	4.54		1.03	2.21	0.46		19
CONCRETE BUGGIES - REMINGTON										
2000	10 CF WALK-BEHIND	8 HP G	2,223	1.45		0.15	0.28	0.74		6
CONCRETE PAVERS										
CMI										
2010	MOD SF - 175 SLIPFORM PAVER CURES, MEDIANES,& SIDEWALK	142 HP D	120,904	34.00		8.48	15.50	5.83		263
2015	MOD SF - 250 26' WIDE SLIPFORM UNIT, 0-80 FT/MIN, CRAWLER MTD.	208 HP D	216,385	58.44		15.18	27.75	8.54		470
2020	MOD SUBURBAN 25' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD.	250 HP D	381,832	96.97		26.78	48.96	10.26		720
GOMACO										
2030	MOD C-650 24' WIDE FORM PAVER W/4' FINISHING CYLINDERS	50 HP G	22,402	10.65		1.57	2.86	4.32		91
2035	MOD HW-165 16'-6" WIDE SLIPFORM UNIT, AUTO VIBRATORS, CRLR MTD	100 HP D	103,584	27.99		7.27	13.28	4.10		240

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					
CONCRETE PLACERS *****														
SHOTCRETE EQUIPMENT														
2045	PLACE 1 TO 5 CY/HR	275CFM A	10,149	2.33		0.72	1.30	0.00		7				
2050	PLACE 5.5 TO 10 CY/HR	450CFM A	18,607	4.12		1.31	2.37	0.00		13				
2055	PLACE 5 TO 22 CY/HR	675CFM A	26,617	5.82		1.87	3.39	0.00		19				
CONCRETE PUMPS - CHALLENGE-COOK														
2065	MOD 700 1" AGG 70 CY/HR 128 HP D REQUIRES 15,000 GVW TRUCK		47,245	22.54		3.60	6.98	7.74		84				
2070	MOD TITAN4000 TR'L MT'D 100 CY/HR 240 HP D		75,740	38.82		5.77	11.19	14.52		134				
2075	HYDRAULIC BOOM 60' VERT 52'RAD REQUIRES 20,000 GVW TRUCK FOR BOOM ONLY OR 43,000 GVW WITH PUMP		34,374	9.42		2.62	5.08	0.00		59				
CRANE-SHOVEL-BACKHOE-DRAGLINE *****														
CRAWLER TYPE-AMERICAN														
	MOD 4120 DRAGLINE 1 CY 93 HP D 13'-8" CRAWLERS W/28" SHOES													
2085	DRAGLINE OR CLAMSHELL (LESS BUCKET)		140,328	28.07	34.08	9.29	16.05	3.01	17.96	3.82				
	MOD 597-C 1.25 CY T/C 129 HP D 14'-7" CRAWLERS W/32" SHOES													
2090	DRAGLINE OR CLAMSHELL (LESS BUCKET)		202,072	36.45	42.76	12.59	20.37	4.18	22.05	5.29				
2095	CRANE 35-T W/70' BOOM		201,431	32.56	37.50	12.54	20.29	3.34	21.98	4.32				
	MOD 599-C LIFTING CRANE T/C 129 HP D 16'-0" CRAWLERS W/32" SHOES													
2105	CRANE 40-T W/80' BOOM		212,284	34.11	39.25	13.22	21.39	3.34	23.17	4.32				
	MOD 5299 LIFTING CRANE T/C 129 HP D 17'-6" CRAWLERS W/32" SHOES													
2115	CRANE 50-T W/80' BOOM		230,622	36.72	42.19	14.36	23.24	3.34	25.16	4.32				
										1088				

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					
CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D														
CRAWLER TYPE-AMERICAN (CONT'D)														
MOD 797-C 2 CY T/C 205 HP D 17'-6" CRAWLERS W/33" SHOES														
2125	DRAGLINE OR CLAMSHELL (LESS BUCKET)	269,808	49.90	58.68	16.79	27.18	6.64	29.44	8.41	1278				
2130	CRANE 40-T W/80' BOOM	265,787	44.06	50.85	16.55	26.79	5.31	29.01	6.86	1262				
MOD 7250 STEEL ERECTOR T/C 205 HP D 17'-6" CRAWLERS W/33" SHOES														
2140	CRANE 60-T W/80' BOOM	287,390	44.19	50.01	17.14	26.36	5.31	27.98	6.86	1421				
MOD 7260 LIFTING CRANE T/C 205 HP D 19'-6" CRAWLERS W/38" SHOES														
2150	CRANE 100T W/200' BOOM	369,840	55.06	62.04	22.05	33.91	5.31	36.01	6.86	1886				
MOD 999-C STEEL ERECTOR T/C 289 HP D 23'-9" CRAWLERS W/44" SHOES														
2160	CRANE 110-T W/200' BOOM	483,254	72.60	81.90	28.81	44.32	7.49	47.05	9.68	2792				
MOD 9260 4.5 CY T/C 289 HP D 23'-9" CRAWLERS W/38" SHOES														
2170	CRANE 125T W/270' BOOM	511,721	76.34	86.05	30.50	46.92	7.49	49.82	9.68	3025				
2175	DRAGLINE OR CLAMSHELL (LESS BUCKET)	490,047	81.33	93.39	29.21	44.94	9.36	47.72	11.86	2619				
MOD 9270 LIFT CR TAPERED TIP T/C 289 HP D 23'-9" CRAWLERS W/44" SHOES														
2185	CRANE 150T W/280' BOOM	560,790	82.82	93.21	33.43	51.42	7.49	54.60	9.68	3400				
MOD 9299 LIFTING CRANE T/C 289 HP D 24'-11" CRAWLERS W/50" SHOES														
2195	CRANE 165T W/290' BOOM	590,175	84.71	94.36	34.40	51.45	7.49	54.12	9.68	3580				
MOD 9310 LIFTING CRANE T/C 289 HP D 28'-2" CRAWLERS W/50" SHOES														
2205	CRANE 225T W/320' BOOM	691,282	97.70	108.58	40.30	60.26	7.49	63.40	9.68	3990				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D										
	CRAWLER TYPE-BUCYRUS ERIE										
	MOD 25-B SER-3 HVY DUTY 1 CY 115 HP D 13'-11" CRAWLERS W/30" SHOES										
2220	DRAGLINE OR CLAMSHELL (LESS BUCKET)	161,553	32.63	39.61	10.70	18.48	3.73	20.67	4.72	671	
2225	CRANE 28-T W/50' BOOM	160,021	26.27	30.28	9.97	16.13	2.98	17.46	3.85	674	
	MOD 30-B SER 4 HVY DUTY 1.5 CY 144 HP D 14'-9" CRAWLERS W/30" SHOES										
2235	BACKHOE	230,184	48.02	57.83	14.89	25.12	5.44	27.75	7.15	787	
2240	DRAGLINE OR CLAMSHELL (LESS BUCKET)	220,666	39.92	46.85	13.74	22.24	4.67	24.08	5.91	833	
2245	CRANE 35-T W/60' BOOM	217,456	35.32	40.67	13.54	21.92	3.73	23.73	4.82	831	
	MOD 38-B SER 2 HVY DUTY 2 CY T/C 178 HP D 17'-5" CRAWLERS W/36" SHOES										
2255	SHOVEL	322,806	66.27	79.69	20.88	35.22	6.73	38.91	8.84	1298	
2260	DRAGLINE OR CLAMSHELL (LESS BUCKET)	304,578	54.30	63.66	18.96	30.69	5.77	33.23	7.31	1226	
	MOD 61-B SER 2 3.25 CY T/C 205 HP D 15'-11" CRAWLERS W/33" SHOES										
2270	SHOVEL	458,136	83.36	97.18	28.07	44.61	7.75	47.94	10.18	1691	
2275	BACKHOE	438,873	80.25	93.59	26.89	42.74	7.75	45.92	10.18	1751	
2280	DRAGLINE OR CLAMSHELL (LESS BUCKET)	416,721	67.61	77.44	24.85	38.22	6.64	40.58	8.41	1523	
2285	CRANE 51-T W/70' BOOM	407,761	60.07	67.57	24.31	37.40	5.31	39.70	6.86	1536	
	MOD 61-B SER-2 110-T 4 CY T/C 243 HP D 20'-6" CRAWLERS W/42" SHOES										
2295	CRANE 110T W/160' BOOM	520,556	74.35	82.76	30.34	45.38	6.30	47.74	8.14	2182	
2300	DRAGLINE OR CLAMSHELL (LESS BUCKET)	490,303	79.61	91.20	29.24	44.97	7.87	47.74	9.97	2010	
	MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES										
2310	SHOVEL	520,456	95.28	111.17	31.88	50.67	9.30	54.46	12.22	2196	
2315	BACKHOE	493,222	90.87	106.11	30.22	48.02	9.30	51.61	12.22	2100	

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		
CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D *****										
CRAWLER TYPE-BUCYRUS ERIE (CONT'D)										
MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES										
2320	DRAGLINE OR CLAMSHELL (LESS BUCKET)	467,312	76.42	87.63	27.86	42.85	7.97	45.50	10.10	1736
MOD 88-B SER 4 5.5 CY T/C 365 HP D 17'-10" CRAWLERS W/36" SHOES										
2330	SHOVEL	730,591	129.46	149.20	43.56	67.00	13.80	71.14	18.13	2822
2335	DRAGLINE OR CLAMSHELL (LESS BUCKET)	619,870	100.06	113.70	36.14	54.04	11.83	56.84	14.98	2274
CRAWLER TYPE-LINK BELT (FMC)										
MOD LS-98A LIFTING CRANE T/C 118 HP D 15'-1" CRAWLERS W/24" SHOES										
2350	CRANE 40-T W/50' BOOM	166,217	27.23	31.40	10.34	16.74	3.06	18.14	3.95	772
MOD LS-118 LIFTING CRANE T/C 165 HP D 17'-0" CRAWLERS W/30" SHOES										
2360	CRANE 60-T W/80' BOOM	238,855	38.99	44.92	14.87	24.06	4.28	26.06	5.52	1232
MOD LS-338 LIFTING CRANE T/C 208 HP D 20'-0" CRAWLERS W/38" SHOES										
2370	CRANE 100-T W/200' BOOM	381,701	55.43	61.85	22.26	33.28	5.39	35.00	6.96	1912
MOD LS-518 LIFTING CRANE T/C 230 HP D 24'-4" CRAWLERS W/44" SHOES										
2380	CRANE 150-T W/250' BOOM	556,647	78.59	87.33	32.45	48.53	5.96	51.05	7.70	2912
CRAWLER TYPE-MANITOWOC										
MOD 3900 VICON 3.5 CY T/C 334 HP D 20'-4" CRAWLERS W/38" SHOES										
2395	DRAGLINE OR CLAMSHELL (LESS BUCKET)	385,870	68.11	78.69	23.01	35.39	10.82	37.57	13.71	2306
2400	CRANE 100T W/240' BOOM	395,616	62.41	70.89	23.58	36.28	8.66	38.52	11.18	2354

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D *****														
CRAWLER TYPE-MANITOWOC (CONT'D)														
MOD 3900W VICON SER2 4 CY T/C 334 HP D 24'-0" CRAWLERS W/48" SHOES														
2410	DRAGLINE OR CLAMSHELL (LESS BUCKET)	463,443	79.24	91.27	27.63	42.50	10.82	45.13	13.71	2763				
2415	CRANE 140T W/250' BOOM	472,066	72.50	82.04	28.14	43.29	8.66	45.96	11.18	2815				
MOD 4100W VICON SER2 5 CY T/C 345 HP D 26'-6" CRAWLERS W/48" SHOES														
2425	DRAGLINE OR CLAMSHELL (LESS BUCKET)	657,588	107.51	123.24	39.21	60.31	11.18	64.02	14.16	3788				
2430	CRANE 200T W/260' BOOM	669,053	96.55	107.67	39.00	58.32	8.94	61.36	11.55	3929				
MOD 4600 VICON SERIES 3 7CY T/C 685 HP D 26'-1" CRAWLERS W/60" SHOES														
2440	CRANE 240T W/260' BOOM	960,907	144.48	162.11	56.02	83.77	17.76	88.12	22.93	5095				
2445	DRAGLINE OR CLAMSHELL (LESS BUCKET)	993,861	164.22	187.13	57.94	86.64	22.19	91.14	28.11	5083				
CRAWLER TYPE-NORTHWEST														
MOD 28-D 3/4 CY 148 HP D 11'-11" CRAWLERS W/28" SHOES														
2460	DRAGLINE OR CLAMSHELL (LESS BUCKET)	118,966	26.45	32.22	7.88	13.61	4.80	15.22	6.07	484				
2465	CRANE 15-T W/30' BOOM	117,965	22.09	26.17	7.63	12.87	3.84	14.22	4.96	474				
MOD-41 1 CY 148 HP D 15'-0" CRAWLERS W/30" SHOES														
2475	DRAGLINE OR CLAMSHELL (LESS BUCKET)	165,726	34.61	42.07	10.97	18.95	4.80	21.20	6.07	737				
2480	CRANE 20-T W/40' BOOM	163,182	28.83	33.96	10.56	17.81	3.84	19.67	4.96	720				
MOD 50-D 1.5 CY T/C 263 HP D 15'-4" CRAWLERS W/30" SHOES														
2490	DRAGLINE OR CLAMSHELL (LESS BUCKET)	212,415	43.18	51.12	13.23	21.41	8.52	23.18	10.79	954				
2495	CRANE 45-T W/60' BOOM	210,970	38.04	44.32	13.14	21.26	6.82	23.02	8.81	947				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT			
			AVERAGE	SEVERE	STAND-BY	AVERAGE COND.	SEVERE COND.					
CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D												
CRAWLER TYPE-NORTHWEST (CONT'D)												
	MOD 80-D 2.5 CY T/C 263 HP D 15'-10" CRAWLERS W/30" SHOES											
2505	SHOVEL	367,293	78.11	94.22	23.76	40.08	9.94	44.27	13.07			
2510	DRAGLINE OR CLAMSHELL (LESS BUCKET)	321,427	60.16	70.81	20.01	32.38	8.52	35.07	10.79			
2515	CRANE 40-T W/50' BOOM	309,086	51.99	60.10	19.25	31.15	6.82	33.73	8.81			
	MOD 9570 4.0 CY T/C 263 HP D 19'-0" CRAWLERS W/38" SHOES											
2525	DRAGLINE OR CLAMSHELL (LESS BUCKET)	388,370	65.75	75.64	23.16	35.62	8.52	37.81	10.79			
2530	CRANE 60-T W/50' BOOM	378,744	58.02	65.63	22.58	34.74	6.82	36.88	8.81			
	MOD 180-D SERIES 2 5 CY T/C 358 HP D 18'-1" CRAWLERS W/36" SHOES											
2540	SHOVEL	612,270	115.16	134.81	37.51	59.61	13.53	64.07	17.79			
2545	DRAGLINE OR CLAMSHELL (LESS BUCKET)	543,556	91.65	105.39	32.41	49.85	11.60	52.92	14.69			
2550	CRANE 97.5-T W/170' BOOM	558,446	84.62	95.59	33.29	51.21	9.28	54.37	11.99			
	MOD 190-D WT SERIES 2 T/C 3 430 HP D 21'-1" CRAWLERS W/54" SHOES											
2560	SHOVEL 8.25 CY	722,263	131.06	151.57	43.06	66.23	16.25	70.33	21.36			
2565	DRAGLINE 6.5 CY (LESS BUCKET)	576,665	96.54	110.16	33.62	50.28	13.93	52.88	17.65			
2570	CRANE 100-T W/170' BOOM	605,020	92.98	105.23	36.07	55.49	11.15	58.91	14.40			
CRAWLER TYPE-P & H												
	MOD 535 1.25 CY T/C 158 HP D 15'-8" CRAWLERS W/30" SHOES											
2585	DRAGLINE OR CLAMSHELL (LESS BUCKET)	216,861	39.85	46.85	13.50	21.85	5.12	23.67	6.48			
2590	CRANE 35-T W/50' BOOM	209,951	34.69	40.01	13.08	21.16	4.10	22.91	5.29			
	MOD 550 1.75 CY T/C 158 HP D 18'-0" CRAWLERS W/30" SHOES											
2600	DRAGLINE (LESS BUCKET)	240,688	43.57	51.15	14.98	24.25	5.12	26.27	6.48			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE	OWNER-SHIP	FUEL	SEVERE COND.	OWNER-SHIP	
					SEVERE					
	CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D *****									
	CRAWLER TYPE-P & H (CONT'D)									
	MOD 550 1.75 CY T/C 158 HP D 18'-0" CRAWLERS W/30" SHOES									
2605	CRANE 50-T W/80' BOOM	234,549	38.17	43.97	14.60	23.63	4.10	25.60	5.29	1002
	MOD 670WLC 2 CY T/C 198 HP D 18'-6" CRAWLERS W/30" SHOES									
2615	DRAGLINE OR CLAMSHELL (LESS BUCKET)	282,179	51.58	60.59	17.57	28.44	6.42	30.80	8.13	1344
2620	CRANE 70-T W/150' BOOM	288,173	44.07	49.85	17.18	26.43	5.13	28.06	6.63	1466
	CRANES-HYDRAULIC-SELF PROPELLED *****									
	GROVE									
2635	MOD RT58A 14 TON 112 HP D	85,718	18.41			5.30	8.01	4.60		407
2640	MOD RT515 15 TON 115 HP D	93,761	19.70			5.80	8.78	4.72		415
2645	MOD RT518 18 TON 115 HP D	106,011	21.68			6.53	9.84	4.72		453
2650	MOD RT522 22 TON 115 HP D	116,076	23.10			7.15	10.78	4.72		498
2655	MOD RT625 25 TON 156 HP D	151,871	30.01			9.36	14.13	6.40		545
2660	MOD RT740 40 TON 170 HP D	212,388	40.31			13.07	19.66	6.98		764
	LORAIN									
2670	MOD LRT150 15 TON 120 HP D	94,274	19.88			5.85	8.90	4.92		438
2675	MOD LRT180 18 TON 120 HP D	101,579	20.90			6.30	9.59	4.92		450
2680	MOD LRT220 22 TON 120 HP D	108,685	21.90			6.74	10.27	4.92		468
	PETTIBONE									
2690	MOD 25 12.5 TON 120 HP D	100,197	20.71			6.21	9.46	4.92		456
2695	MOD 36P 18 TON 120 HP D	117,040	23.32			7.23	10.96	4.92		492
2700	MOD 70 35 TON 188 HP D	177,022	36.00			10.90	16.40	7.72		770
2705	MOD 100SC 50 TON 188 HP D	252,599	46.93			15.58	23.51	7.72		1050

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.												
			AVERAGE	SEVERE															
CRANES-HYDRAULIC-TRUCK MOUNTED ***** (HP & FUEL LISTED EQUIP/CARRIER)																			
BUCYRUS ERIE																			
2715	30-XC	30 TON W/80' BOOM	130/210 HP D/D	169,316	30.46	35.24	10.05	15.34	6.85	16.29	8.78	552							
2720	60-XC	60-TON W/104' BOOM	197/238 HP D/D	298,107	50.62	58.26	17.71	27.09	9.80	28.75	12.64	783							
GROVE																			
2730	TMS185	18 TON W/106' BOOM	172 HP D	159,672	30.81	36.47	9.90	15.94	7.06	17.25	9.29	442							
2735	TMS300	35 TON W/112' BOOM	203 HP D	185,944	34.60	40.49	11.03	16.81	8.33	17.83	10.96	705							
2740	TMS475	50 TON W/142' BOOM	213 HP D	235,969	41.41	48.14	14.01	21.40	8.74	22.71	11.50	776							
2745	TM875	80 TON W/146' BOOM	196/268 HP D/D	339,321	56.04	63.90	19.64	29.04	9.97	30.52	12.84	1200							
LINK BELT (FMC)																			
2755	HTC-25	25-T W/95' BOOM	216 HP D	161,385	31.92	37.67	9.58	14.65	8.86	15.55	11.66	462							
2760	HTC-35	35-T W/108' BOOM	216 HP D	189,696	35.56	41.68	11.27	17.23	8.86	18.28	11.66	628							
2765	HTC-50	50-T W/122' BOOM	244 HP D	231,442	42.37	49.53	13.74	21.01	10.01	22.29	13.18	727							
PETTIBONE																			
2775	50TKLSPC	25 TON W/95' BOOM	210 HP D	159,466	32.74	39.04	9.89	15.91	8.62	17.22	11.34	520							
2780	80TKLS	40 TON W/112' BOOM	244 HP D	214,933	40.34	47.30	12.75	19.48	10.01	20.67	13.18	738							
2785	100TKLSPC	50 TON W/111' BOOM	244 HP D	235,087	42.88	50.10	13.96	21.33	10.01	22.63	13.18	820							
2790	160TKLSPC	80 TON W/118' BOOM	365 HP D	346,676	63.26	73.55	20.07	29.68	14.98	31.20	19.71	1395							
CRANES-TRUCK MOUNTED ***** (HP & FUEL LISTED EQUIP/CARRIER)																			
AMERICAN																			
2800	5530	75-T W/170' BOOM	115/238 HP D/D	304,968	46.81	52.76	17.69	26.23	6.43	27.57	8.21	1245							
2805	7530	125T W/200' BOOM	203/350 HP D/D	425,473	67.65	76.66	24.69	36.61	10.85	38.47	13.90	1696							

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
CRANES-TRUCK MOUNTED (CONT'D)														
***** (HP & FUEL LISTED EQUIP/CARRIER)														
LINK BELT (FMC)														
2815	HC108C 50-T	W/150' BOOM 117/238 HP D/D	292,708	46.20	52.55	17.35	26.45	6.52	28.05	8.32	1197			
2820	HC218A 100-T	W/220' BOOM 165/318 HP D/D	401,647	61.46	68.78	22.89	33.16	9.06	34.61	11.58	1566			
2825	HC238A 140-T	W/230' BOOM 171/318 HP D/D	482,247	71.83	80.10	27.48	39.81	9.31	41.55	11.91	2068			
LORAIN														
2835	MC550A 50-T	W/160' BOOM 115/246 HP D/D	287,343	45.50	51.75	17.04	25.96	6.49	27.53	8.28	1111			
2840	MC670A 70-T	W/170' BOOM 150/290 HP D/D	343,744	53.87	60.94	19.95	29.61	8.24	31.13	10.54	1243			
2845	MC790 90-T	W/220' BOOM 220/290 HP D/D	421,842	67.27	76.39	24.49	36.37	11.12	38.24	14.32	1594			
2850	MC8150 150T	W/250' BOOM 246/365 HP D/D	578,380	88.01	98.56	32.96	47.76	12.72	49.85	16.35	2625			
P & H														
2860	325TC 25-T	W/110' BOOM 83/190 HP D/D	178,947	30.61	35.52	11.09	17.83	4.77	19.31	6.08	645			
2865	430ATC 35-T	W/150' BOOM 95/210 HP D/D	200,881	32.69	37.31	11.93	18.23	5.41	19.34	6.89	763			
2870	440TC 40-T	W/170' BOOM 95/236 HP D/D	213,991	34.73	39.61	12.70	19.37	5.60	20.56	7.11	964			
2875	650ATC 50-T	W/150' BOOM 135/236 HP D/D	298,584	47.86	54.58	17.71	26.99	7.24	28.63	9.27	1178			
2880	670TC 70-T	W/180' BOOM 135/255 HP D/D	319,488	49.81	56.26	18.54	27.50	7.38	28.90	9.43	1340			
2885	790BTC 90-T	W/200' BOOM 160/350 HP D/D	370,507	58.64	66.34	21.48	31.81	9.09	33.43	11.58	1736			
2890	9125ATC 140T	W/270' BOOM 210/350 HP D/D	507,895	77.24	86.45	28.95	41.95	11.14	43.79	14.28	2529			
2895	6250TC 250T	W/320' BOOM 363/450 HP D/D	1,009,426	147.67	164.63	57.59	83.59	18.14	87.26	23.38	4552			
DRILLS-BLAST HOLE-CRAWLER MTD														

GARDNER DENVER														
2905	AT3100B/PR123J 3.0" HOLE 12' FEED 600CFM A	58,401	13.50			4.10	7.40	0.00			91			
2910	AT3100B/PR55 3.5" HOLE 12' FEED 750CFM A	53,556	12.54			3.77	6.80	0.00			93			
2915	AT3100B/PR66 4.0" HOLE 12' FEED 900CFM A	61,030	14.37			4.29	7.74	0.00			95			
2920	AT3700A/PR66 ANGLE DRILL 4.0" HOLE 12' FEED	900CFM A	71,936	16.84		5.06	9.12	0.00			146			
2925	ATD5100/PR80H ANGLE DRILL 4.5" HOLE 20' FEED	1200CFM A	79,845	18.77		5.62	10.13	0.00			200			

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					
DRILLS-BLAST HOLE-CRAWLER MTD (CONT'D)													
INGERSOLL-RAND													
2935	ECM350/VL140	4.0" HOLE 12' FEED 750CFM A	62,588	14.56		4.40	7.94	0.00	129				
2940	ECM350/VL671	4.5" HOLE 12' FEED 900CFM A	68,271	15.98		4.80	8.66	0.00	131				
2945	CM2000/VL170	5.0" HOLE 24' FEED1400CFM A	77,470	18.37		5.45	9.83	0.00	170				
JOY													
2955	RAM STD/VCR260	4.0" HOLE 12' FEED 800CFM A	57,395	13.45		4.03	7.28	0.00	100				
2960	RAM EXT/VCR260	4.0" HOLE 12' FEED 800CFM A	65,110	15.20		4.58	8.26	0.00	144				
2965	MUSTANG VCR280	5" HOLE 23' FEED1200CFM A	79,534	18.68		5.59	10.08	0.00	184				
DRILLS-CORE-AIR-COLUMN MOUNTED													
2975	LONGYEAR 24 WOLVERINE AX 700'	450CFM A	13,590	3.33		0.96	1.72	0.00	12				
2980	LONGYEAR 65D	EX 600'	400CFM A	9,043	2.30	0.64	1.15	0.00	3				
2985	65D ROD PULLER	21" STROKE	400CFM A	1,344	0.50	0.10	0.17	0.00	1				
DRILLS-CORE-SKID MOUNTED													
ACKER													
2995	TEREDO MARK-II NX	1000' MAX	44 HP D	21,177	7.57	1.49	2.69	2.23	40				
3000	ACE MODEL C NX	725' MAX	20 HP D	14,734	4.60	1.04	1.87	1.02	45				
SPRAGUE AND HENWOOD													
3010	MOD 37-H	NX 400' MAX	18 HP G	12,748	5.11	0.90	1.62	1.91	18				
3015	MOD 40-CL	NX1050' MAX	49 HP D	19,703	7.55	1.38	2.49	2.49	27				
LONGYEAR													
3025	MOD 24 STD AX 675'	MAX	12 HP G	13,380	4.50	0.94	1.70	1.27	17				
3030	MOD 34	NX 1000' MAX	31 HP G	20,321	8.43	1.43	2.58	3.29	38				
3035	MOD 34	NX 1000' MAX	40 HP D	24,238	8.02	1.71	3.08	2.03	39				
3040	MOD 38	NX 1800' MAX	54 HP D	27,895	9.72	1.97	3.54	2.74	41				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNERSHIP	FUEL	OWNERSHIP						
					AVERAGE	SEVERE	OWNERSHIP	FUEL	OWNERSHIP						
DRILLS-CORE-SKID MOUNTED (CONT'D)															
LONGYEAR (CONT'D)															
3045	MOD 44 NX 2500' MAX	60 HP D	33,454	11.36			2.35	4.24	3.05	56					
DRILLS-ROTARY															
INGERSOLL-RAND															
3055	MOD T4-BH 7-7/8" DRILLMASTER TRK. MOUNTED	304 HP D	249,437	61.50			15.55	24.79	15.43	550					
JOY-ROBBINS															
3065	RRT 35 TK MOUNTED 6-1/4" TO 8"	225 HP D	215,331	50.70			13.42	21.39	11.42	860					
3070	RRT 50 TK MOUNTED 6-3/4" TO 9"	325 HP D	365,335	82.69			22.75	36.23	16.50	860					
3075	RRT 60 TK MTD 6-3/4" TO 9-7/8"	335 HP D	388,162	87.12			24.18	38.52	17.00	960					
3080	RRT 70 TK MTD 9.00 " TO 10-5/8"	350 HP D	461,336	100.60			28.74	45.76	17.77	1120					
3085	RR10HD ON D9 6-3/4" TO 10-5/8"	500 HP D	398,294	97.88			24.91	39.92	25.38	1340					
3090	RR11 CRLR MTD 6-3/4" TO 12-1/4"	575 HP E	659,638	113.03			38.70	57.34	26.16	1421					
3095	RR12 CRLR MTD 10-5/8" TO 12-1/2"	600 HP E	823,840	133.11			48.33	71.61	27.30	1500					
3100	RR16 CRLR MTD 10-5/8" TO 15"	1100 HP E	934,966	179.66			54.85	81.27	50.05	2200					
FORK LIFTS															
HYSSTER-CHALLENGER															
3110	H30H 3000# @ 24" LC (LOAD CNTR)	63 HP G	21,202	11.53			1.47	2.65	5.45	71					
3115	H60C 6000# @ 24" LC	80 HP G	23,984	13.98			1.68	3.01	6.92	103					
3120	H110F 11000# @ 24" LC	116 HP G	36,628	20.65			2.55	4.60	10.03	163					
3125	H150H 15000# @ 24" LC	127 HP G	51,390	25.22			3.57	6.39	10.98	234					
3130	H200HS20000# @ 24" LC	PS 127 HP G	58,810	26.87			4.09	7.33	10.98	256					
3135	H250H 25000# @ 24" LC	PS 127 HP G	61,154	27.42			4.25	7.60	10.98	295					
3140	H300B 30000# @ 24" LC	PS 127 HP G	67,889	28.92			4.72	8.46	10.98	360					
3145	H460B 46000# @ 48" LC	PS 190 HP G	131,575	50.05			9.14	16.38	16.43	590					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.												
			AVERAGE	SEVERE															
GENERATOR ELECT PLANTS *****																			
CATERPILLAR T = TURBOCHARGED TA = TURBOCHARGED AFTER COOLED																			
SKID MOUNTED																			
3160	MOD 3304 -T 240/480V 85 KW 129 HP D	15,896	9.86	12.42	1.13	1.87	5.29	1.99	6.97	37									
3165	MOD 3306 -T 240/480V 130 KW 200 HP D	18,724	14.08	17.85	1.33	2.21	8.21	2.35	10.80	46									
3170	MOD 3306 -TA 240/480V 150 KW 220 HP D	21,344	15.65	19.81	1.52	2.52	9.03	2.67	11.88	48									
3175	MOD 3406 -T 240/480V 175 KW 260 HP D	22,601	17.94	22.80	1.61	2.67	10.67	2.84	14.04	57									
3180	MOD 3406 -TA 240/480V 200 KW 295 HP D	25,616	20.35	25.85	1.82	3.02	12.11	3.21	15.93	59									
3185	MOD 3408 -T 240/480V 225 KW 330 HP D	29,953	23.02	29.24	2.13	3.53	13.54	3.76	17.82	72									
3190	MOD 3408 -TA 240/480V 265 KW 390 HP D	32,499	26.62	33.85	2.32	3.84	16.01	4.07	21.06	81									
3195	MOD D353 -TA 240/480V 290 KW 425 HP D	57,703	33.65	42.20	4.11	6.81	17.44	7.23	22.95	114									
3200	MOD 3412 -T 240/480V 300 KW 440 HP D	44,989	31.76	40.17	3.20	5.31	18.06	5.64	23.76	91									
3205	MOD 3412 -TA 240/480V 440 KW 625 HP D	52,332	42.71	54.31	3.73	6.18	25.65	6.56	33.75	102									
3210	MOD D348 -TA 240/480V 510 KW 730 HP D	80,041	53.82	67.94	5.70	9.45	29.96	10.03	39.42	140									
3215	MOD D398B-TA 230/460V 565 KW 810 HP D	118,345	65.87	82.43	8.43	13.97	33.24	14.84	43.74	208									
3220	MOD D399 -TA 230/460V 820 KW 1155 HP D	154,018	90.85	114.01	10.96	18.17	47.40	19.30	62.37	268									
ONAN																			
SKID MOUNTED																			
3235	120/240V 15 KW 27 HP D	5,809	2.58	3.20	0.41	0.68	1.11	0.73	1.46	14									
3240	120/240V 30 KW 63 HP D	8,619	5.01	6.27	0.62	1.02	2.59	1.08	3.40	19									
3245	120/240V 45 KW 87 HP D	11,397	6.80	8.55	0.81	1.34	3.57	1.43	4.70	25									
3250	120/240V 60 KW 102 HP D	13,103	7.92	9.95	0.94	1.55	4.19	1.64	5.51	26									
3255	120/240V 75 KW 162 HP D	15,594	11.50	14.56	1.11	1.84	6.65	1.95	8.75	30									
3260	120/240V 90 KW 162 HP D	16,339	11.65	14.73	1.17	1.93	6.65	2.04	8.75	30									
3265	120/240V 125 KW 210 HP D	18,887	14.62	18.56	1.35	2.23	8.62	2.37	11.34	50									
3270	120/240V 150 KW 276 HP D	22,374	18.71	23.80	1.59	2.64	11.33	2.80	14.90	65									

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

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

AUSTIN WESTERN (CLARK)														
3280	PACER 301	POWER SHIFT	4X4	146 HP D	91,851	23.33	28.67	6.12	10.05	5.52	11.16	7.25	245	
3285	SUPER 301	POWER SHIFT	6X6	146 HP D	99,709	24.75	30.41	6.64	10.90	5.52	12.10	7.25	273	
3290	PACER 501	POWER SHIFT	4X4	187 HP D	97,636	26.33	32.49	6.51	10.69	7.07	11.88	9.29	280	
3295	SUPER 501	POWER SHIFT	6X6	187 HP D	104,927	27.68	34.17	6.98	11.46	7.07	12.73	9.29	315	
CATERPILLAR														
3305	MOD 120-G	POWER SHIFT ARTIC		125 HP D	80,790	20.36	25.03	5.38	8.81	4.72	9.79	6.21	275	
3310	MOD 130-G	POWER SHIFT ARTIC		135 HP D	90,280	22.51	27.60	6.02	9.87	5.10	10.96	6.71	295	
3315	MOD 12-G	POWER SHIFT ARTIC		135 HP D	98,068	23.88	29.24	6.53	10.71	5.10	11.90	6.71	313	
3320	MOD 140-G	POWER SHIFT ARTIC		150 HP D	99,170	24.85	30.52	6.60	10.81	5.67	12.00	7.45	319	
3325	MOD 14-G	POWER SHIFT ARTIC		180 HP D	139,144	33.73	41.58	9.21	14.98	6.80	16.61	8.94	433	
3330	MOD 16-G	POWER SHIFT ARTIC		250 HP D	201,682	48.53	59.93	13.33	21.62	9.45	23.97	12.42	581	
FIAT-ALLIS														
3340	MOD-65B	DIRECT DRIVE		68 HP D	41,926	10.68	13.09	2.80	4.61	2.57	5.11	3.38	143	
3345	MOD-100C	CONSTANT MESH		135 HP D	80,184	20.79	25.60	5.33	8.73	5.10	9.69	6.71	310	
3350	MOD-150C	POWER SHIFT		135 HP D	85,780	21.75	26.73	5.71	9.35	5.10	10.38	6.71	316	
3355	MOD-200C	POWER SHIFT		160 HP D	92,479	24.18	29.81	6.15	10.07	6.05	11.18	7.95	322	
GALION														
3365	MOD 503-L	DIRECT DRIVE		68 HP G	38,737	13.10	16.24	2.59	4.25	5.43	4.71	7.04	115	
3370	MOD T-500C	POWER SHIFT		150 HP D	79,884	21.43	26.45	5.31	8.71	5.67	9.68	7.45	281	
3375	MOD T-600C	POWER SHIFT		200 HP D	96,908	26.90	33.27	6.44	10.56	7.56	11.72	9.94	321	
WABCO														
3385	MOD 444	POWER SHIFT		135 HP D	82,455	21.15	26.00	5.49	9.00	5.10	9.99	6.71	302	
3390	MOD 555	CONSTANT MESH		160 HP D	84,685	22.83	28.22	5.62	9.20	6.05	10.21	7.95	321	
3395	MOD 777-B	POWER SHIFT		201 HP D	98,943	27.34	33.82	6.58	10.77	7.60	11.95	9.99	355	

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															
HOISTS																			

BENDIX-SKAGIT																			
3405	BU-18 DOUBLE DRUM W/5/8" CABLE	100 HP D	55,584	17.49		3.90	7.09	4.10		85									
3410	G-70 DOUBLE DRUM W/7/8" CABLE	100 HP D	75,107	21.84		5.28	9.58	4.10		126									
3415	RB-80 DOUBLE DRUM W/1-1/8" CABLE	130 HP D	115,480	32.38		8.11	14.72	5.34		240									
3420	RB-90 DOUBLE DRUM W/1-3/8" CABLE	150 HP D	136,928	38.20		9.62	17.46	6.16		300									
GARDNER DENVER																			
3430	HML SINGLE DRUM W/1/2" CABLE	350CFM A	6,030	1.55		0.43	0.77	0.00		10									
HYDRAULIC EXCAVATOR-CRAWLER MOUNTED																			

T/B = TELESCOPING BOOM																			
B/H = BACKHOE																			
AMERICAN																			
3440	MOD 25A	1.38 CY B/H	185 HP D	163,195	37.75	45.85	10.56	17.81	6.99	19.67	9.19	660							
3445	MOD 35A	2.00 CY B/H	250 HP D	213,714	49.77	60.51	13.83	23.32	9.45	25.76	12.42	970							
3450	MOD 45A	3.50 CY B/H	420 HP D	363,884	77.69	92.28	22.29	35.43	15.88	38.08	20.87	1700							
BUCYRUS ERIE																			
3460	MOD 300-H	1.00 CY B/H	176 HP D	145,005	36.23	45.18	9.86	17.47	6.65	19.87	8.74	530							
3465	MOD 325-H	1.75 CY B/H	205 HP D	198,529	45.02	54.61	12.84	21.66	7.75	23.93	10.18	750							
3470	MOD 350-H	2.50 CY B/H	248 HP D	251,507	56.52	68.50	16.28	27.45	9.37	30.31	12.32	1020							
CATERPILLAR																			
3480	MOD 215	.75 CY B/H	85 HP D	101,767	23.71	29.45	6.92	12.27	3.21	13.94	4.22	387							
3485	MOD 225	1.00 CY B/H	125 HP D	133,787	31.76	39.50	9.10	16.13	4.72	18.33	6.21	504							
3490	MOD 235	1.50 CY B/H	195 HP D	228,267	49.95	60.40	14.77	24.91	7.37	27.51	9.69	872							
3495	MOD 245	2.50 CY B/H	325 HP D	347,084	77.21	93.52	22.45	37.87	12.28	41.83	16.15	1308							

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															
HYDRAULIC EXCAVATOR-CRLR MNTD CONT'D ***** T/B = TELESCOPING BOOM B/H = BACKHOE																			
DROTT																			
3505	MOD 40-D	1.00 CY	B/H	157 HP	D	94,508	25.50	31.92	6.43	11.39	5.93	12.95	7.80	400					
3510	MOD 50-D	1.25 CY	B/H	190 HP	D	120,904	30.32	37.09	7.82	13.19	7.18	14.58	9.44	510					
GRADALL																			
3520	MOD G-660	.50 CY	T/B	115 HP	D	124,062	29.42	36.57	8.44	14.96	4.35	17.00	5.71	459					
3525	MOD G-880	.75 CY	T/B	160 HP	D	155,006	37.48	46.64	10.54	18.68	6.05	21.23	7.95	549					
3530	MOD G-1000	1.25 CY	T/B	272 HP	D	207,537	49.64	60.46	13.43	22.65	10.28	25.01	13.51	787					
HOPTO																			
3540	MOD 211	1.00 CY	B/H	160 HP	D	119,452	28.73	35.00	7.73	13.04	6.05	14.39	7.95	516					
3545	MOD 311	1.88 CY	B/H	235 HP	D	173,799	41.89	51.06	11.25	18.97	8.88	20.95	11.67	743					
3550	MOD 900B	3.25 CY	B/H	308 HP	D	208,952	47.60	56.89	12.81	20.35	11.64	21.86	15.30	1009					
3555	MOD 1900	4.50 CY	B/H	616 HP	D	453,003	100.86	120.32	27.75	44.11	23.28	47.40	30.60	2049					
INSLEY																			
3565	MOD H1500C	1.50 CY	B/H	240 HP	D	193,817	45.73	55.65	12.54	21.15	9.07	23.36	11.92	767					
3570	MOD H2500C	2.00 CY	B/H	290 HP	D	234,372	55.29	67.29	15.16	25.58	10.96	28.25	14.41	955					
3575	MOD H3500C	3.00 CY	B/H	390 HP	D	303,167	66.51	79.24	18.58	29.52	14.74	31.73	19.38	1275					
KOEHRING																			
3585	MOD 866E	2.12 CY	B/H	325 HP	D	324,865	73.20	88.76	21.01	35.45	12.28	39.16	16.15	1327					
3590	MOD 1066D	4.00 CY	B/H	380 HP	D	408,044	90.69	109.83	26.39	44.52	14.36	49.18	18.88	1640					
3595	MOD 1266D	5.50 CY	B/H	760 HP	D	679,600	144.00	170.91	41.64	66.17	28.73	71.12	37.76	2600					
P & H																			
3605	MOD H-750	.75 CY	B/H	105 HP	D	91,017	22.50	28.04	6.19	10.97	3.97	12.47	5.22	390					
3610	MOD H-1250	1.00 CY	B/H	190 HP	D	127,021	33.33	41.68	8.64	15.31	7.18	17.40	9.44	620					

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	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
HYDRAULIC EXCAVATOR-CRLR MNTD CONT'D															
***** T/B = TELESCOPING BOOM B/H = BACKHOE															
SHIELD BANTAM															
3620	MOD C166	.50 CY	B/H	108 HP D	75,531	19.60	24.49	5.14	9.11	4.08	10.34	5.37	321		
3625	MOD C266	.88 CY	B/H	143 HP D	114,574	28.81	35.92	7.80	13.81	5.41	15.69	7.10	463		
UNIT															
3635	MOD H202C SER II	.75 CY	B/H	152 HP D	107,688	27.86	34.81	7.33	12.98	5.75	14.76	7.55	440		
3640	MOD H342	1.25 CY	B/H	228 HP D	186,182	43.82	53.32	12.05	20.32	8.62	22.44	11.33	740		
3645	MOD H471	1.75 CY	B/H	304 HP D	230,185	55.16	67.21	14.89	25.12	11.49	27.75	15.10	1003		
HYDRAULIC EXCAVATOR-TRUCK MOUNTED															
***** (HP & FUEL LISTED EQUIP/CARRIER) T/B = TELESCOPING BOOM B/H = BACKHOE															
GRADALL															
3655	MOD G-660	.50 CY	T/B	115/180 HP D/G	151,324	29.82	35.36	9.38	15.08	7.08	16.32	9.28	430		
3660	MOD G-880	.75 CY	T/B	160/210 HP D/D	168,469	33.46	39.48	10.43	16.74	8.08	18.10	10.40	530		
3665	MOD G-1000	1.25 CY	T/B	272/228 HP D/D	221,485	44.89	52.79	13.12	20.00	12.80	21.21	16.60	730		
LAND CLEARING EQUIPMENT															
***** (ADD TO TRACTOR)															
3675	FLECO LAND CLEARING RAKE FOR D-6				15,831	3.44	4.31	1.11	2.02	0.00	2.35	0.00	65		
3680	FLECO LAND CLEARING RAKE FOR D-7				22,515	4.88	6.10	1.58	2.88	0.00	3.33	0.00	107		
3685	FLECO LAND CLEARING RAKE FOR D-8				29,258	6.33	7.93	2.05	3.73	0.00	4.33	0.00	140		
3690	FLECO CLAMP RAKE FOR CAT 977 (ADD TO 977 LOADER)				14,151	3.18	3.96	0.99	1.80	0.00	2.10	0.00	58		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE OWNER-SHIP	COND. FUEL	SEVERE OWNER-SHIP	FUEL				
LIGHTING SETS-TRAILER MOUNTED *****												
ALLMAND METALLIC VAPOR												
3700	30' TOWER 4/1000W LTS 5 KW 11 HP D	10,941	3.07		0.78	1.31	0.67		26			
OVER LOWE METALLIC VAPOR												
3710	38' TOWER 4/1000W LTS 6 KW 12 HP D	9,968	2.94		0.71	1.19	0.73		22			
LOADERS-BELT *****												
KOLMAN												
3720	101XHD 24"X50' 355 T/HR 28 HP D	24,762	7.36	9.55	1.73	2.83	1.15	3.22	1.51			
OPTIONAL EQUIPMENT SELECT AS NEEDED												
3730	PLATE FEEDER DOZER TRAP MODEL 45	4,561	0.98	1.23	0.32	0.54	0.00	0.62	0.00			
3735	BELT FEEDER DOZER TRAP MODEL 65	6,654	1.44	1.79	0.48	0.80	0.00	0.91	0.00			
3740	WING WALLS STATIONARY	1,015	0.23	0.27	0.08	0.13	0.00	0.14	0.00			
3745	TUNNEL EXTENSION W/WING WALLS	5,280	1.13	1.42	0.38	0.63	0.00	0.72	0.00			
3750	SINGLE DECK SCREEN SB-70 7'X42	4,565	0.98	1.23	0.32	0.54	0.00	0.62	0.00			
3755	DOUBLE DECK SCREEN DC-70-42 7'X42	5,413	1.17	1.46	0.39	0.65	0.00	0.74	0.00			
3760	TRIPLE DECK SCREEN TC-70-42 7'X42	7,068	1.53	1.90	0.51	0.85	0.00	0.96	0.00			
3765	XHD CONVEYOR JACKLEG	799	0.17	0.21	0.05	0.09	0.00	0.10	0.00			
3770	101XHD 30"X50' 615 T/HR 42 HP D	27,759	8.87	11.56	1.93	3.16	1.72	3.60	2.27			
OPTIONAL EQUIPMENT SELECT AS NEEDED												
3780	PLATE FEEDER DOZER TRAP MODEL 45	5,674	1.22	1.53	0.40	0.68	0.00	0.78	0.00			
3785	BELT FEEDER DOZER TRAP MODEL 65	6,969	1.50	1.88	0.49	0.83	0.00	0.95	0.00			
3790	WING WALLS STATIONARY	1,015	0.23	0.27	0.08	0.13	0.00	0.14	0.00			
3795	TUNNEL EXTENSION W/WING WALLS	5,280	1.13	1.42	0.38	0.63	0.00	0.72	0.00			
3800	SINGLE DECK SCREEN SB-80 8'X48	5,121	1.10	1.38	0.36	0.61	0.00	0.70	0.00			
3805	DOUBLE DECK SCREEN DC-80-48 8'X48	6,298	1.36	1.70	0.45	0.76	0.00	0.86	0.00			
3810	TRIPLE DECK SCREEN TC-80-48 8'X48	7,983	1.72	2.15	0.57	0.96	0.00	1.09	0.00			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	AVERAGE COND.	SEVERE COND.							
					OWNER-SHIP	FUEL	OWNER-SHIP	FUEL							
LOADERS-BELT (CONT'D)															
KOLMAN (CONT'D)															
3815	XHD CONVEYOR JACKLEG	799	0.17	0.21	0.05	0.09	0.00	0.10	0.00	9					
3820	101XHD 36"X50' 910 T/HR 56 HP D	31,768	10.70	13.98	2.20	3.59	2.30	4.08	3.02	160					
OPTIONAL EQUIPMENT SELECT AS NEEDED															
3830	PLATE FEEDER DOZER TRAP MODEL 45	6,086	1.30	1.64	0.43	0.72	0.00	0.83	0.00	45					
3835	BELT FEEDER DOZER TRAP MODEL 65	7,382	1.60	1.99	0.53	0.89	0.00	1.01	0.00	42					
3840	WING WALLS STATIONARY	1,015	0.23	0.27	0.08	0.13	0.00	0.14	0.00	9					
3845	TUNNEL EXTENSION W/WING WALLS	5,280	1.13	1.42	0.38	0.63	0.00	0.72	0.00	61					
3850	SINGLE DECK SCREEN SB-90 9'X54	5,782	1.24	1.56	0.41	0.69	0.00	0.79	0.00	28					
3855	DOUBLE DECK SCREEN DC-90-54 9'X54	7,526	1.62	2.03	0.53	0.90	0.00	1.03	0.00	43					
3860	TRIPLE DECK SCREEN TC-90-54 9'X54	10,045	2.16	2.70	0.71	1.20	0.00	1.37	0.00	54					
3865	XHD CONVEYOR JACKLEG	799	0.17	0.21	0.05	0.09	0.00	0.10	0.00	9					
3870	101XHD 42"X50' 1260 T/HR 84 HP D	38,853	14.08	18.48	2.69	4.37	3.45	4.97	4.54	180					
OPTIONAL EQUIPMENT SELECT AS NEEDED															
3880	PLATE FEEDER DOZER TRAP MODEL 45	6,484	1.40	1.74	0.47	0.78	0.00	0.88	0.00	48					
3885	BELT FEEDER DOZER TRAP MODEL 65	8,491	1.83	2.29	0.61	1.02	0.00	1.16	0.00	45					
3890	WING WALLS STATIONARY	1,015	0.23	0.27	0.08	0.13	0.00	0.14	0.00	9					
3895	TUNNEL EXTENSION W/WING WALLS	5,280	1.13	1.42	0.38	0.63	0.00	0.72	0.00	61					
3900	SINGLE DECK SCREEN SB-100 60"X10'	7,211	1.56	1.94	0.52	0.87	0.00	0.98	0.00	37					
3905	DOUBLE DECK SCREEN DC-100 60"X10'	9,290	2.00	2.50	0.66	1.11	0.00	1.27	0.00	55					
3910	TRIPLE DECK SCREEN TC-100 60"X10'	12,540	2.70	3.38	0.89	1.50	0.00	1.71	0.00	68					
3915	XHD CONVEYOR JACKLEG	799	0.17	0.21	0.05	0.09	0.00	0.10	0.00	9					
3920	101XHD 48"X50' 1700 T/HR 125 HP D	68,296	22.77	29.55	4.77	7.83	5.13	8.91	6.75	265					
OPTIONAL EQUIPMENT SELECT AS NEEDED															
3930	PLATE FEEDER DOZER TRAP MODEL 45	9,441	2.03	2.54	0.67	1.13	0.00	1.29	0.00	51					
3935	WING WALLS STATIONARY	1,015	0.23	0.27	0.08	0.13	0.00	0.14	0.00	9					
3940	TUNNEL EXTENSION W/WING WALLS	5,898	1.26	1.59	0.42	0.70	0.00	0.81	0.00	66					
3945	SINGLE DECK SCREEN SB-120 60"X12'	8,165	1.76	2.20	0.58	0.98	0.00	1.12	0.00	53					

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	OWNER-SHIP	OWNER-SHIP	FUEL					
LOADERS-BELT (CONT'D)														
KOLMAN (CONT'D)														
3950	DOUBLE DECK SCREEN DC-120 60"X12"	11,275	2.43	3.04	0.80	1.35	0.00	1.54	0.00	77				
3955	TRIPLE DECK SCREEN TC-120 60"X12"	14,799	3.19	3.99	1.05	1.77	0.00	2.02	0.00	80				
3960	XHD CONVEYOR JACKLEG	799	0.17	0.21	0.05	0.09	0.00	0.10	0.00	9				
3965	303 48"X50' 2000 CY/HR	125 HP D	120,733	36.34	47.52	8.39	13.66	5.13	15.52	6.75				
3970	303 48"X60' 2000 CY/HR	185 HP D	134,339	42.78	55.99	9.33	15.22	7.59	17.31	9.99				
3975	303 60"X50' 3600 CY/HR	185 HP D	138,811	45.43	60.10	9.59	15.49	7.59	17.59	9.99				
3980	303 60"X60' 3600 CY/HR	290 HP D	159,957	56.61	74.96	11.05	17.85	11.90	20.26	15.66				
3990	404 48"X50' 2000 CY/HR	185 HP D	149,296	45.62	59.38	10.41	17.06	7.59	19.43	9.99				
3995	404 48"X60' 2000 CY/HR	185 HP D	157,767	47.82	62.31	11.00	18.02	7.59	20.51	9.99				
4000	404 60"X50' 3600 CY/HR	290 HP D	179,336	59.66	78.26	12.46	20.33	11.90	23.12	15.66				
4005	404 60"X60' 3600 CY/HR	290 HP D	198,216	64.84	85.27	13.77	22.42	11.90	25.49	15.66				
OPTIONAL EQUIPMENT SELECT AS NEEDED														
4015	SINGLE DECK SCREEN SB-120 72"X12"	9,033	1.94	2.43	0.65	1.08	0.00	1.23	0.00	58				
4020	DOUBLE DECK SCREEN DC-120 72"X12"	11,983	2.58	3.23	0.85	1.43	0.00	1.64	0.00	85				
4025	TRIPLE DECK SCREEN TC-120 72"X12"	16,247	3.49	4.38	1.15	1.94	0.00	2.22	0.00	90				
4030	SINGLE DECK VIBRATING GRIZZLE 72"W	18,667	4.02	5.03	1.32	2.23	0.00	2.55	0.00	80				
LOADERS - F.E. TRACK TYPE														
CASE														
4040	350 B 3/4 CY	39 HP D	30,991	9.88	12.53	2.19	3.82	1.73	4.40	2.27				
4045	450 B 1 CY	53 HP D	42,193	13.43	17.05	2.98	5.20	2.35	5.98	3.09				
4050	850B 1-1/2 CY	72 HP D	56,071	17.95	22.80	3.96	6.91	3.19	7.95	4.20				
4055	1150 C 2 CY	105 HP D	73,074	24.07	30.61	5.16	9.00	4.65	10.36	6.12				

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															
LOADERS - F.E. TRACK TYPE (CONT'D)																			
CATERPILLAR																			
4065	931B	1 CY	65 HP D	38,592	13.30	16.93	2.73	4.76	2.88	5.47	3.79	169							
4070	941B	1-1/2 CY	80 HP D	57,308	18.73	23.81	4.05	7.06	3.54	8.12	4.67	251							
4075	951C	1-3/4 CY	95 HP D	67,436	22.10	28.10	4.76	8.31	4.21	9.56	5.54	273							
4080	955L	2-1/4 CY	130 HP D	90,818	29.89	38.00	6.41	11.19	5.76	12.88	7.58	348							
4085	977L	3-1/4 CY	190 HP D	135,440	44.34	56.35	9.58	16.70	8.41	19.20	11.08	512							
4090	983B	5 CY	275 HP D	209,393	67.40	85.62	14.79	25.80	12.18	29.69	16.04	803							
FIAT-ALLIS																			
4100	FL9	1-5/8 CY	87 HP D	55,312	18.68	23.78	3.91	6.82	3.85	7.85	5.07	272							
4105	FL10C	2 CY	122 HP D	70,514	24.49	31.20	4.99	8.69	5.40	10.00	7.12	310							
4110	FL14C	2-5/8 CY	150 HP D	92,444	31.49	40.10	6.53	11.39	6.64	13.11	8.75	410							
4115	FL20	3-1/2 CY	223 HP D	133,824	45.95	58.53	9.46	16.49	9.87	18.98	13.01	605							
INTERNATIONAL																			
4125	100-E	1-1/8 CY	65 HP D	42,574	14.25	18.14	3.01	5.24	2.88	6.04	3.79	161							
4130	125-E	1-3/8 CY	78 HP D	50,455	16.95	21.58	3.57	6.22	3.45	7.15	4.55	199							
4135	175-C	2 CY	134 HP D	79,841	27.47	34.99	5.64	9.84	5.93	11.32	7.81	317							
4140	250-C	2-3/4 CY	190 HP D	114,280	39.22	49.94	8.07	14.08	8.41	16.20	11.08	452							
JOHN DEERE																			
4150	JD350-C	3/4 CY	42 HP D	33,802	10.74	13.63	2.39	4.17	1.86	4.79	2.45	128							
4155	JD450-C	1-1/4 CY	65 HP D	44,379	14.69	18.68	3.14	5.47	2.88	6.29	3.79	176							
KOMATSU																			
4165	D31S-16	1.3 CY	63 HP D	37,578	12.93	16.46	2.66	4.63	2.79	5.32	3.67	156							
4170	D53S-16	1.8 CY	110 HP D	65,293	22.50	28.66	4.62	8.05	4.87	9.26	6.42	300							
4175	D57S-1	2.1 CY	135 HP D	79,450	27.45	34.95	5.61	9.79	5.98	11.26	7.87	337							
4180	D75S-3	3.3 CY	200 HP D	152,059	48.97	62.20	10.75	18.74	8.86	21.56	11.66	503							
4185	D155S-1	5.9 CY	350 HP D	225,862	75.96	96.65	15.96	27.83	15.50	32.02	20.41	540							

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS - F.E. WHEEL TYPE														

BOBCAT														
4195	MOD 310	5 C.F. SKID-STEER	16 HP G	5,481	2.99	3.91	0.38	0.65	1.38	0.75	1.80	18		
4200	MOD 313	5 C.F. SKID-STEER	13 HP D	6,861	2.19	2.84	0.48	0.82	0.53	0.94	0.70	19		
4205	MOD 540	6.5 C.F. SKID-STEER	23 HP G	8,094	4.37	5.71	0.56	0.95	1.99	1.09	2.59	31		
4210	MOD 543	6.5 C.F. SKID-STEER	19 HP D	9,717	3.16	4.13	0.68	1.15	0.78	1.32	1.03	32		
4215	MOD 610	9 C.F. SKID-STEER	30 HP G	9,867	5.48	7.09	0.69	1.18	2.59	1.36	3.38	39		
4220	MOD 630	9 C.F. SKID-STEER	30 HP G	9,510	5.41	7.00	0.67	1.14	2.59	1.31	3.38	37		
4225	MOD 641	10 C.F. SKID-STEER	28 HP D	11,408	3.98	5.11	0.80	1.37	1.15	1.57	1.51	39		
4230	MOD 642	10 C.F. SKID-STEER	32 HP G	10,186	5.79	7.46	0.72	1.23	2.77	1.40	3.61	38		
4235	MOD 742	10 C.F. SKID-STEER	34 HP G	12,150	6.40	8.24	0.85	1.46	2.94	1.67	3.83	45		
4240	MOD 743	10 C.F. SKID-STEER	36 HP D	13,198	4.80	6.17	0.93	1.59	1.48	1.82	1.94	46		
4245	MOD 825	12.5 C.F. SKID-STEER	42 HP D	16,018	5.78	7.51	1.12	1.91	1.72	2.20	2.27	60		
4250	MOD 843	13.5 C.F. SKID-STEER	54 HP D	17,223	6.73	8.71	1.21	2.06	2.22	2.36	2.92	63		
4255	MOD 974	33.8 C.F. SKID-STEER	78 HP D	30,471	11.14	14.68	2.13	3.59	3.20	4.10	4.21	121		
CASE														
4265	W-14	1-1/2 CY ARTIC	83 HP D	52,058	15.81	20.47	3.64	6.20	3.41	7.11	4.48	148		
4270	W-18	2 CY ARTIC	103 HP D	63,942	19.39	24.99	4.49	7.65	4.23	8.77	5.56	199		
4275	W-24 C	2-1/2 CY ARTIC	132 HP D	88,638	26.30	33.95	6.22	10.59	5.42	12.14	7.13	236		
4280	W-36	3-1/2 CY ARTIC	185 HP D	106,005	33.60	44.12	7.40	12.51	7.59	14.32	9.99	332		
CATERPILLAR														
4290	910	1-1/4 CY ARTIC	65 HP D	43,020	13.10	17.23	3.00	5.07	2.67	5.80	3.51	134		
4295	920	1-3/4 CY ARTIC	80 HP D	55,830	16.53	21.53	3.91	6.63	3.28	7.59	4.32	184		
4300	930	2-1/4 CY ARTIC	100 HP D	65,199	19.72	25.74	4.56	7.73	4.10	8.85	5.40	206		
4305	950	3 CY ARTIC	130 HP D	91,075	27.34	36.08	6.35	10.71	5.34	12.25	7.02	288		
4310	966-C	4 CY ARTIC	170 HP D	120,632	36.51	48.68	8.37	14.06	6.98	16.09	9.18	378		
4315	980-C	5-1/4 CY ARTIC	260 HP D	176,991	52.38	70.21	11.49	18.93	10.67	21.05	14.04	577		
4320	988-B	7 CY ARTIC	375 HP D	263,595	75.58	100.68	17.00	27.75	15.39	30.82	20.25	892		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE										
LOADERS - F.E. WHEEL TYPE (CONT'D) *****														
CATERPILLAR (CONT'D)														
4325	992-C	12-1/2 CY ARTIC	690 HP D	537,109	152.39	206.27	34.44	55.70	28.32	61.76	37.26	1899		
CLARK														
4335	35C	1-1/4 CY	82 HP D	47,957	15.06	19.74	3.34	5.66	3.37	6.49	4.43	171		
4340	45C	1-1/2 CY	107 HP D	55,078	17.94	23.39	3.86	6.54	4.39	7.49	5.78	187		
4345	55C	2 CY ARTIC	121 HP D	62,146	20.33	26.57	4.35	7.36	4.97	8.43	6.53	247		
4350	75-B	2-1/2 CY ARTIC	142 HP D	87,449	27.53	36.65	6.07	10.20	5.83	11.66	7.67	296		
4355	125B	3-1/2 CY ARTIC	212 HP D	124,297	40.16	54.01	8.60	14.37	8.70	16.43	11.45	419		
4360	175-B	4-1/2 CY ARTIC	273 HP D	157,002	49.30	66.67	10.17	16.68	11.20	18.53	14.74	527		
4365	275-B	6-1/2 CY ARTIC	360 HP D	215,463	64.36	85.38	13.92	22.77	14.77	25.29	19.44	739		
4370	475-B	12 CY ARTIC	632 HP D	453,464	130.41	175.23	29.16	47.35	25.94	52.53	34.13	1544		
FIAT-ALLIS														
4380	345-B	1-3/4 CY ARTIC	80 HP D	44,682	14.44	19.16	3.11	5.23	3.28	5.97	4.32	175		
4385	FR-10	2 CY ARTIC	102 HP D	58,616	18.52	24.27	4.10	6.93	4.19	7.93	5.51	221		
4390	FR-12	2-1/2 CY ARTIC	108 HP D	64,674	20.07	26.21	4.52	7.66	4.43	8.78	5.83	245		
4395	FR-15	3 CY ARTIC	151 HP D	86,841	27.93	37.18	6.03	10.13	6.20	11.58	8.15	301		
4400	FR-20	4 CY ARTIC	202 HP D	127,417	39.13	51.27	8.90	15.06	8.29	17.24	10.91	425		
4405	945-B	6 CY ARTIC	335 HP D	199,055	59.94	79.97	12.84	20.92	13.75	23.22	18.09	700		
INTERNATIONAL														
4415	510B	1-3/8 CY	80 HP D	40,141	13.51	18.05	2.78	4.67	3.28	5.34	4.32	157		
4420	515B	1-7/8 CY	100 HP D	48,891	16.62	22.17	3.39	5.69	4.10	6.50	5.40	191		
4425	520B	2-1/2 CY ARTIC	120 HP D	55,832	19.03	25.05	3.90	6.58	4.92	7.52	6.48	232		
4430	530	3-1/2 CY ARTIC	155 HP D	81,502	25.50	33.56	5.32	8.83	6.36	9.83	8.37	279		
4435	540	4-1/4 CY ARTIC	189 HP D	108,965	33.62	44.80	7.09	11.70	7.76	13.01	10.21	360		
4440	550	5-1/4 CY ARTIC	280 HP D	158,934	50.04	67.60	10.29	16.89	11.49	18.77	15.12	544		
4445	560B	7-1/2 CY ARTIC	415 HP D	231,784	71.01	93.31	15.14	25.14	17.03	27.97	22.41	873		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
LOADERS - F.E. WHEEL TYPE (CONT'D)															
INTERNATIONAL (CONT'D)															
4450	570	12 CY ARTIC	590 HP D	421,721	121.65	163.80	27.10	43.95	24.21	48.74	31.86	1327			
TEREX (CM)															
4460	72-31B	3 CY ARTIC	160 HP D	83,223	27.49	36.42	5.79	9.75	6.57	11.15	8.64	309			
4465	72-51B	4 CY ARTIC	231 HP D	126,527	38.90	51.03	8.27	13.74	9.48	15.30	12.47	465			
4470	72-61	5-1/2 CY ARTIC	307 HP D	167,906	53.18	71.49	10.89	17.91	12.60	19.90	16.58	605			
4475	72-71B	7-1/2 CY ARTIC	388 HP D	238,251	70.17	92.44	15.44	25.35	15.92	28.18	20.95	857			
4480	72-81	9 CY ARTIC	434 HP D	344,840	94.83	124.98	22.34	36.68	17.81	40.75	23.44	1166			
TROJAN															
4490	1500	1-3/4 CY ARTIC	85 HP D	50,800	15.82	20.67	3.55	6.02	3.49	6.89	4.59	180			
4495	1900	2-1/4 CY ARTIC	117 HP G	58,780	26.04	34.00	4.10	6.94	10.12	7.95	13.18	212			
4500	2000	3 CY ARTIC	165 HP D	82,358	27.59	36.57	5.73	9.64	6.77	11.03	8.91	306			
4505	2500	4 CY ARTIC	182 HP D	105,084	34.07	45.75	7.27	12.17	7.47	13.91	9.83	393			
4510	3000	4-1/4 CY ARTIC	230 HP D	114,075	36.50	48.19	7.44	12.33	9.44	13.72	12.42	436			
4515	5500	5-1/2 CY ARTIC	288 HP D	160,179	50.71	68.43	10.38	17.04	11.82	18.92	15.55	636			
4520	7500	7 CY ARTIC	400 HP D	222,291	67.80	89.71	14.38	23.55	16.42	26.15	21.60	846			
LOADER-BACKHOE IND. TYPE TRACTOR															
CASE															
4530	580C LDR/BHOE	7/8 CY FE BUCKET 24" B/H DIPPER	55 HP D	34,190	10.37	13.18	2.41	4.12	2.26	4.72	2.97	115			
4535	680G LDR/BHOE	1-1/4 CY FE BUCKET 30" B/H DIPPER	80 HP D	52,376	15.65	19.91	3.68	6.30	3.28	7.22	4.32	165			
JOHN DEERE															
4545	410 LDR/BHOE	1 CY FE BUCKET 24" B/H DIPPER	62 HP D	34,870	11.00	14.21	2.44	4.15	2.54	4.77	3.35	137			
4550	510 LDR/BHOE	1-1/2 CY FE BUCKET 30" B/H DIPPER	80 HP D	53,596	16.09	20.65	3.76	6.39	3.28	7.32	4.32	205			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT		
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.					
			AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
LOADER-BACKHOE CRLR TYPE TRACTOR *****											
CASE											
4560	350 LDR/BHOE 3/4 CY FE BUCKET 24" B/H DIPPER	39 HP D	42,325	12.62	15.96	2.99	5.22	1.73	6.00	2.27	141
4565	450 LDR/BHOE 1 CY FE BUCKET 24" B/H DIP	53 HP D	53,492	16.16	20.49	3.78	6.59	2.35	7.59	3.09	167
CATERPILLAR											
4575	931BLDR/BHOE 1 CY FE BUCKET 30" B/H DIPPER	65 HP D	49,689	15.97	20.29	3.51	6.12	2.88	7.04	3.79	207
LOADER-BACKHOE ATTACHMENT'S *****											
HYDRAULICALLY OPERATED IMPACTOR MOUNTED ON BACKHOE BOOM TO FIT CASE AND JOHN DEERE BACKHOES (ADD TO BASIC LOADER-BACKHOE)											
4585	IMPACTOR WITH TAMPER TOOL		10,778		3.78		0.92	1.95	0.00		12
4590	IMPACTOR WITH CHISEL TOOL		10,167		3.57		0.87	1.84	0.00		11
PILE EXTRACTORS *****											
MKT CORPORATION											
4600	E2 700 FT-LBS	400CFM A	11,465	4.11		0.99	2.08	0.00			27
4605	E4 1000 FT-LBS	550CFM A	17,258	6.15		1.48	3.13	0.00			47
VULCAN											
4615	400A 500 FT-LBS	450CFM A	13,536	4.83		1.16	2.45	0.00			30
4620	800A 1000 FT-LBS	900CFM A	18,262	6.62		1.57	3.31	0.00			57
4625	1200A 1640 FT-LBS	1350CFM A	21,368	7.92		1.84	3.88	0.00			97

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE										
PILE HAMMERS-DIESEL ***** (FUEL NOT INCLUDED)														
MKT CORPORATION														
4635	DE-30B/20B (6-FT)	12,000 FT-LBS	29,674	10.17		2.56	5.39	0.00		74				
4640	DE-30B/20B (6-FT)	16,800 FT-LBS	30,782	10.55		2.65	5.59	0.00		82				
4645	DE-70B/50B (6-FT)	30,000 FT-LBS	53,065	18.14		4.56	9.63	0.00		138				
4650	DE-70B/50B (6-FT)	42,000 FT-LBS	56,357	19.25		4.84	10.22	0.00		158				
PILE HAMMERS-SINGLE ACTING *****														
VULCAN														
4660	1 15000 FT-LBS	750CFM A	29,450	10.37		2.53	5.34	0.00		101				
4665	06 19500 FT-LBS	900CFM A	33,712	11.88		2.89	6.11	0.00		121				
4670	08 26000 FT-LBS	1100CFM A	38,701	13.67		3.32	7.02	0.00		175				
4675	010 32500 FT-LBS	1350CFM A	42,391	15.04		3.64	7.69	0.00		195				
4680	012 39000 FT-LBS	1500CFM A	47,406	16.67		4.07	8.60	0.00		287				
4685	014 42000 FT-LBS	1750CFM A	56,756	20.11		4.88	10.30	0.00		283				
4690	016 48750 FT-LBS	1750CFM A	67,250	23.68		5.78	12.20	0.00		320				
4695	020 60000 FT-LBS	2150CFM A	78,962	27.83		6.78	14.32	0.00		425				
4700	030 90000 FT-LBS	2350CFM A	132,944	46.32		11.42	24.12	0.00		575				
PILE HAMMERS-DOUBLE ACTING *****														
MKT CORPORATION														
4710	9-B-3 8750 FT-LBS	900CFM A	21,654	7.78		1.86	3.93	0.00		74				
4715	10-B-3 13100 FT-LBS	1200CFM A	25,615	9.25		2.21	4.65	0.00		114				
4720	11-B-3 19150 FT-LBS	1200CFM A	34,881	12.41		3.00	6.33	0.00		141				
4725	5 (SELF STOP) 1000 FT-LBS	375CFM A	9,023	3.28		0.78	1.64	0.00		17				
4730	6 (SELF STOP) 2500 FT-LBS	600CFM A	11,300	4.12		0.97	2.05	0.00		31				
4735	7 (SELF STOP) 4150 FT-LBS	750CFM A	14,523	5.29		1.25	2.64	0.00		50				

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													
PILE HAMMERS-DOUBLE ACTING (CONT'D)																	
VULCAN																	
4745	50C	15100 FT-LBS	1250CFM	A	37,396	13.28	3.21	6.78	0.00	153							
4750	65C	19200 FT-LBS	1450CFM	A	42,892	15.25	3.69	7.78	0.00	153							
4755	80C	24450 FT-LBS	1750CFM	A	45,995	16.44	3.96	8.35	0.00	184							
4760	100C	32900 FT-LBS	2050CFM	A	55,354	19.74	4.75	10.04	0.00	232							
4765	140C	36000 FT-LBS	2150CFM	A	69,752	24.69	5.99	12.65	0.00	287							
4770	200C	50200 FT-LBS	2550CFM	A	100,603	35.38	8.64	18.25	0.00	398							
PILE HAMMERS-VIBRATORY																	
MKT CORPORATION																	
4780	V5	WITH POWER PACK	59 HP	D	52,527	21.00	4.51	9.53	2.42	110							
4785	V16	WITH POWER PACK	156 HP	D	102,633	43.17	8.82	18.62	6.40	215							
4790	V20	WITH POWER PACK	295 HP	D	140,035	63.23	12.04	25.41	12.11	257							
PIPELAYER																	
CATERPILLAR																	
4800	561D	15 FT BOOM, 40,000 LB CAP	105 HP	D	90,093	16.32	19.45	6.03	10.02	2.38	11.15	3.06	309				
4805	571G	18 FT BOOM, 60,000 LB CAP	200 HP	D	151,512	28.15	33.62	10.15	16.85	4.54	18.75	5.83	500				
4810	572G	18 FT BOOM, 90,000 LB CAP	200 HP	D	173,400	31.35	37.35	11.61	19.28	4.54	21.45	5.83	605				
4815	583K	20 FT BOOM, 140,000 LB CAP	300 HP	D	221,281	41.34	49.40	14.81	24.60	6.80	27.38	8.75	900				
4820	594H	24 FT BOOM, 200,000 LB CAP	410 HP	D	319,035	58.94	70.35	21.37	35.48	9.30	39.47	11.96	1230				
PUMPS-GROUT																	
G.M. PHILPOTT GROUT UNITS WITH GARDNER-DENVER PUMPS																	
4830	SSF2-10 W/ (2 EA) FG-AG 6" X 3" X 6" PUMPS UNIT INCLUDES (2)-10 C.F. TANKS, AUTO. WATER METER, FITTINGS, HOSES & SKD MOUNTING CAPACITY: 21 GPM @ 252 PSI TO 60 GPM @ 90 PSI	600CFM	A	22,475	6.18	1.71	3.32	0.00		64							

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT	
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.			
			AVERAGE	SEVERE						
	PUMPS-GROUT (CONT'D) ***** G.M. PHILPOTT GROUT UNITS WITH GARDNER-DENVER PUMPS									
4835	SSF2-20 W/ (2 EA) FD-FS 10" X 3" X 10" PUMPS UNIT INCLUDES (2)-20 C.F. TANKS, AUTO. WATER METER, FITTINGS, HOSES & SKID MOUNTING CAPACITY: 32 GPM AT 700 PSI TO 98 GPM @ 252 PSI	900CFM A 35,159	9.63		2.68	5.20	0.00		107	
	PUMPS-WATER-FOR CORE DRILLS *****									
	LONGYEAR									
4845	520 RQG 5.7-20 GPM UP TO 600PSI	10 HP G 5,435	2.73		0.39	0.70	1.19		7	
4850	535 RQG 9.9-35 GPM UP TO 800PSI	15 HP G 6,863	3.81		0.48	0.87	1.79		10	
	PUMPS-WATER-CENTRIF.-DEWATERING *****									
	HOMELITE, SKID MOUNTED									
4860	MOD 110S 1-1/2"-5000 GPH @ 30' H	2 HP G 359	0.40		0.03	0.05	0.24		1	
4865	MOD 111S 2" - 9000 GPH @ 22' H	3 HP G 456	0.56		0.03	0.05	0.36		1	
4870	MOD 120S 3" - 18000 GPH @ 20' H	8 HP G 825	1.43		0.06	0.10	0.95		2	
	MARLOW, WHEEL MOUNTED									
4880	MOD 4D2 465 GPM @ 20' HEAD	43 HP G 7,179	8.30		0.51	0.92	5.13		14	
4885	MOD 4C7 595 GPM @ 20' HEAD	30 HP D 4,122	3.24		0.29	0.52	1.72		10	
4890	MOD 6E4A 1100 GPM @ 20' HEAD	79 HP G 9,528	14.46		0.67	1.22	9.42		15	
4895	MOD 6E4A 1100 GPM @ 20' HEAD	60 HP D 13,710	7.66		0.96	1.75	3.43		24	
4900	MOD 8FA3 2320 GPM @ 20' HEAD	70 HP D 17,664	9.28		1.24	2.25	4.01		23	
4905	MOD 10FA61 2775 GPM @ 20' HEAD	68 HP D 18,740	9.35		1.32	2.39	3.89		30	

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP				
PUMPS-WATER-CENTRIF.-TRASH													
HOMELITE, SKID MOUNTED													
4915	MOD 121TP 2" - 11500 GPH @ 20' H	5 HP G	726	0.95			0.06	0.10	0.60	1			
4920	MOD 120 3" - 23000 GPH @ 20' H	8 HP G	1,008	1.48			0.07	0.13	0.95	2			
4925	MOD 160TP 4" - 36500 GPH @ 20' H	16 HP G	2,021	2.94			0.14	0.25	1.91	4			
PUMPS-WATER-DIAPHRAGM													
HOMELITE, SKID MOUNTED													
4935	MOD 111DP 2" - 1900 GPH @ 10' HD	3 HP G	871	0.65			0.06	0.11	0.36	1			
4940	MOD 111DP 3" - 4800 GPH @ 10' HD	3 HP G	1,008	0.69			0.07	0.13	0.36	2			
PUMPS-WATER-SUBMERSIBLE													
HOMELITE													
4950	MOD SP200 2" - 13000 GPH @ 10' HD	2 HP E	1,109	0.36			0.08	0.14	0.12	1			
4955	MOD SP300 3" - 19000 GPH @ 15' HD	4 HP E	1,369	0.57			0.10	0.17	0.23	1			
RIPPER & HYDR. BANK SLOPER													
(DOES NOT INCLUDE COST OF POINT WEAR)													
ATECO													
4965	VRAR-1 D9H RADIAL LIFT		33,649	8.58	11.49	2.57	4.98	0.00	6.12	0.00			
4970	D-9H SHANKS EA		2,628	0.67	0.89	0.20	0.39	0.00	0.48	0.00			
4975	LPAS-D8K PARALLEL LIFT		19,510	5.00	6.68	1.49	2.89	0.00	3.54	0.00			
4980	D-8K SHANKS EA		3,601	0.91	1.22	0.28	0.53	0.00	0.65	0.00			
4985	LPAS-D7G PARALLEL LIFT		16,274	4.18	5.59	1.24	2.41	0.00	2.96	0.00			
4990	D-7G SHANKS EA		2,539	0.64	0.86	0.19	0.37	0.00	0.46	0.00			
4995	PS D6D RADIAL LIFT		7,417	1.94	2.58	0.57	1.10	0.00	1.35	0.00			
5000	D-6C SHANKS EA		257	0.06	0.08	0.02	0.03	0.00	0.04	0.00			
5005	V-LPRF-TD25C PARALLEL LIFT STD SVC		16,752	4.29	5.75	1.27	2.47	0.00	3.05	0.00			
5010	TD-25C SHANKS EA		1,512	0.38	0.51	0.12	0.22	0.00	0.27	0.00			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE										
RIPPER & HYDR. BANK SLOPER (CONT'D) ***** (DOES NOT INCLUDE COST OF POINT WEAR)														
ATECO (CONT'D)														
5015	V-LPRF-TD20E PARALLEL LIFT STD SVC	12,280	3.17	4.23	0.94	1.82	0.00	2.23	0.00	51				
5020	TD-20E SHANKS EA	1,106	0.29	0.37	0.09	0.17	0.00	0.20	0.00	4				
5025	PS-TD15C RADIAL LIFT	6,921	1.81	2.40	0.53	1.02	0.00	1.25	0.00	22				
5030	TD-15C SHANKS EA	239	0.06	0.08	0.02	0.03	0.00	0.04	0.00	1				
5035	V-LPRF 82-50 PARALLEL LIFT STD SVC	18,916	4.85	6.48	1.44	2.80	0.00	3.44	0.00	96				
5040	82-50 SHANKS EA	1,512	0.38	0.51	0.12	0.22	0.00	0.27	0.00	8				
5045	LPRS-82-50 PARALLEL LIFT EXT SVC	18,395	4.71	6.30	1.40	2.72	0.00	3.34	0.00	88				
5050	82-50 SHANKS EA	3,509	0.89	1.19	0.27	0.52	0.00	0.64	0.00	19				
5055	V-LPRF-82-30 PARALLEL LIFT	16,752	4.29	5.75	1.27	2.47	0.00	3.05	0.00	89				
5060	82-30 SHANKS EA	1,512	0.38	0.51	0.12	0.22	0.00	0.27	0.00	8				
5065	D9,D8;82-30,82-50;TD25 HYDR BANK SLOP	7,199	1.59	1.98	0.51	0.92	0.00	1.07	0.00	28				
CATERPILLAR														
5075	D-10 MULTI-SHANK BEAM	39,493	10.05	13.46	3.01	5.84	0.00	7.17	0.00	150				
5080	D-10 SHANKS EA	2,898	0.73	0.99	0.22	0.43	0.00	0.53	0.00	15				
5085	D-10 SINGLE-SHANK BEAM	42,194	10.68	14.32	3.21	6.24	0.00	7.67	0.00	165				
5090	D-9 MULTI-SHANK BEAM W/HYD-CONTROL	31,007	7.91	10.59	2.36	4.59	0.00	5.64	0.00	132				
5095	D-9 SHANKS EA	1,530	0.39	0.52	0.12	0.23	0.00	0.28	0.00	8				
5100	D-9 SINGLE-SHANK BEAM HYD-CNTL&SHANK	28,847	7.35	9.85	2.19	4.26	0.00	5.24	0.00	124				
5105	D-8 MULTI-SHANK BEAM HYD-CONTROL	21,888	5.60	7.49	1.67	3.24	0.00	3.98	0.00	103				
5110	D-8 SHANKS EA	1,464	0.37	0.50	0.12	0.22	0.00	0.27	0.00	7				
5115	D-8 SINGLE-SHANK BEAM HYD-CNTL&SHANK	21,249	5.44	7.27	1.62	3.15	0.00	3.86	0.00	100				
5120	D-7 MULTI-SHANK BEAM HYD-CONTROL	12,723	3.28	4.39	0.97	1.88	0.00	2.32	0.00	57				
5125	D-7 SHANKS EA	763	0.19	0.26	0.06	0.11	0.00	0.14	0.00	4				
5130	D-6 MULTI-SHANK BEAM HYD-CONTROL	7,977	2.08	2.77	0.61	1.18	0.00	1.45	0.00	34				
5135	D-6 SHANKS EA	392	0.10	0.13	0.03	0.06	0.00	0.07	0.00	2				
5140	D-4 MULTI-SHANK BEAM HYD-CONTROL	4,916	1.31	1.74	0.38	0.73	0.00	0.90	0.00	20				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	
	RIPPER & HYDR. BANK SLOPER (CONT'D) ***** (DOES NOT INCLUDE COST OF POINT WEAR)									
	CATERPILLAR (CONT'D)									
5145	D-4 SHANKS EA	207	0.05	0.07	0.02	0.03	0.00	0.04	0.00	1
5150	D-3 FIVE-SHANK BEAM HYD-CONTROL	2,190	0.61	0.81	0.16	0.32	0.00	0.40	0.00	7
5155	D-3 SHANKS EA	115	0.03	0.04	0.01	0.02	0.00	0.02	0.00	1
	FIAT-ALLIS									
5165	41-R W/HYD-CNTL AND 2 SHANKS	44,811	11.39	15.26	3.41	6.63	0.00	8.14	0.00	195
5170	31-R W/HYD-CNTL AND 2 SHANKS	36,303	9.24	12.38	2.76	5.37	0.00	6.60	0.00	189
5175	30-R W/HYD-CNTL AND 2 SHANKS	23,588	6.02	8.05	1.80	3.49	0.00	4.28	0.00	108
5180	RP20B W/HYD-CNTL AND 2 SHANKS	22,318	5.70	7.63	1.70	3.30	0.00	4.06	0.00	89
	ROLLERS-RUBBER-TIRED-SELF PROPELLED *****									
	INGRAM									
5190	9-2800-P 12 TON 107 HP G	23,866	16.91		1.66	2.96	9.25			77
5195	9-2800-PA 12 TON 76 HP D	29,385	10.55		2.05	3.67	3.12			89
5200	11-2700 15 TON 107 HP G	28,466	17.97		1.98	3.53	9.25			89
5205	11-2700 15 TON 76 HP D	31,321	11.01		2.17	3.89	3.12			91
5210	13-2300 15 TON 107 HP G	29,030	18.12		2.02	3.59	9.25			94
5215	13-2300 15 TON 76 HP D	32,703	11.34		2.28	4.06	3.12			96
5220	9-6000 27 TON 117 HP D	69,801	21.91		4.84	8.62	4.80			208
	ROLLER-RUBBER TIRED-TOWED *****									
	FERGUSON-TOWED									
5235	RT-100S 50 TON	51,949	11.18		3.32	5.30	0.00			200
5240	RT-120S 60 TON	60,602	13.11		3.93	6.40	0.00			233

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.				
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
ROLLER-RUBBER TIRED-TOWED (CONT'D)												
SOUTHWEST-TOWED												
5250	C 75	75 TON	61,044	13.02	3.82	5.88	0.00		347			
5255	C 50	50 TON	55,392	11.98	3.57	5.74	0.00		309			
ROLLER-SHEEPS FOOT-DOUBLE DRUM												
FERGUSON-TOWED												
5265	MOD 112	40"X48"	10,928	2.56	0.77	1.39	0.00		65			
5270	MOD 112W-48	48"X48"	13,280	3.09	0.93	1.69	0.00		105			
5275	MOD 120	60"X60"	21,382	4.91	1.51	2.73	0.00		157			
5280	MOD 120 MODIFIED	60"X60"	32,739	7.45	2.30	4.17	0.00		230			
5285	MOD 120-RE	60"X60"	53,832	12.18	3.78	6.85	0.00		327			
5290	MOD 22	60"X72"	29,374	6.69	2.06	3.73	0.00		215			
5295	MOD 22 MODIFIED	60"X72"	38,211	8.68	2.69	4.87	0.00		269			
5300	MOD 144-RE	60"X72"	63,355	14.32	4.46	8.07	0.00		385			
CATERPILLER-SELF PROPELLED												
5310	815	40.5"X38"	170 HP D	104,184	32.01	7.32	13.26	6.98	363			
5315	825C	51"X41.5"	310 HP D	185,120	57.28	13.00	23.56	12.72	633			
5320	825C	W/S BLADE	310 HP D	194,873	59.46	13.69	24.80	12.72	683			
HYSSTER-SELF PROPELLED												
5330	C455-B TANDEM	80"X80" ARTIC	330 HP D	209,063	63.67	14.69	26.61	13.54	573			
ROLLER-SMOOTH WHEEL-SELF PROPELLED												
INGRAM												
5340	8 TON CB 3 WHEEL 3" OVERLAP	107 HP G	35,261	19.38	2.48	4.49	9.25		124			
5345	8 TON CB 3 WHEEL 3" OVERLAP	76 HP D	38,935	12.59	2.73	4.95	3.12		126			
5350	12 TON EB 3 WHEEL 3" OVERLAP	107 HP G	42,779	21.06	3.00	5.44	9.25		203			
5355	12 TON EB 3 WHEEL 3" OVERLAP	86 HP D	46,453	14.79	3.26	5.91	3.53		205			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT						
			CONDITION	STAND-BY	AVERAGE	SEVERE	AVERAGE COND.	SEVERE COND.								
					OWNER-SHIP	FUEL		OWNER-SHIP								
ROLLER-SMOOTH WHEEL-S/P (CONT'D)																
INGRAM (CONT'D)																
5360	14 TON EB 3 WHEEL 3" OVERLAP	107 HP G	45,415	21.65		3.19	5.78	9.25		241						
5365	14 TON EB 3 WHEEL 3" OVERLAP	86 HP D	49,089	15.38		3.44	6.24	3.53		243						
5370	4-6 TON FB 2 WHEEL TANDEM	53 HP G	21,632	10.54		1.52	2.76	4.58		82						
5375	6-9 TON GB 2 WHEEL TANDEM	107 HP G	29,132	18.00		2.05	3.71	9.25		133						
5380	6-9 TON GB 2 WHEEL TANDEM	76 HP D	32,806	11.23		2.31	4.18	3.12		135						
5385	8-12 TON HB 2 WHEEL TANDEM	107 HP G	35,251	19.38		2.48	4.49	9.25		171						
5390	8-12 TON HB 2 WHEEL TANDEM	76 HP D	38,925	12.59		2.73	4.95	3.12		173						
5395	10-14 TON HB 2 WHEEL TANDEM	107 HP G	38,192	20.03		2.69	4.86	9.25		258						
5400	10-14 TON HB 2 WHEEL TANDEM	76 HP D	41,874	13.26		2.95	5.33	3.12		262						
ROLLER-VIBRATORY-SINGLE DRUM																
TF=ROLLER W/TAMPING FEET																
FERGUSON-TOWED																
5410	230 66"X78" 20 TON	77 HP D	57,597	23.72		4.38	8.17	4.41		234						
5415	230T TF 55"X78" 21 TON	77 HP D	62,877	25.40		4.79	8.92	4.41		266						
5420	65 TF 60"X72" 11 TON	49 HP D	38,593	15.70		2.94	5.47	2.80		105						
HYSSTER-TOWED																
5430	C200B 48"X60" 12.5 TON	36 HP D	25,564	10.65		1.94	3.62	2.06		80						
5435	C210A TF 58"X60" 14 TON	39 HP D	30,459	12.42		2.32	4.32	2.23		100						
SOUTHWEST-TOWED																
5445	756 TF 66"X78" 20 TON	75 HP D	65,216	25.98		4.96	9.24	4.29		240						
FERGUSON-SELF PROPELLED																
5455	SP 75D 60"X84" 22.5 TON	120 HP D	68,074	30.14		5.15	9.51	6.87		179						
5460	SP 75DT TF 60"X84" 22.5 TON	120 HP D	78,150	33.33		5.91	10.93	6.87		217						
5465	SP 230D 66"X78"	148 HP D	76,985	34.94		5.82	10.77	8.47		302						

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
ROLLER-VIBRATORY-SINGLE DRUM (CONT'														
***** TF=ROLLER W/TAMPING FEET														
DYNAPAC-SELF PROPELLED														
5475	CA-25	60"X84" 18 TON 125 HP D	55,534	26.52		4.19	7.73	7.15		193				
5480	CA-25S	61"X84" 22 TON 125 HP D	58,747	27.53		4.43	8.18	7.15		216				
5485	CA-25PD	68"X84" 22 TON 125 HP D	67,325	30.25		5.09	9.40	7.15		240				
5490	CA-30	61"X84" 22 TON 125 HP D	61,769	28.49		4.67	8.61	7.15		235				
I-RAND-SELF PROPELLED														
5500	SP-60	60"X100"	210 HP D	109,425	49.66		8.26	15.24	12.02	450				
5505	SPF-56	TF 56"X84"	115 HP D	69,280	30.15		5.23	9.67	6.58	222				
RAYGO-SELF PROPELLED														
5515	RASCAL 410A	59"X84" ARTIC	88 HP D	82,958	32.58		6.27	11.61	5.04	358				
5520	RASCAL 600A	60"X100"	119 HP D	72,233	31.41		5.41	9.92	6.81	358				
SCRAPERS-SELF PROPELLED														
***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)														
CATERPILLAR														
5530	613-B	13 T 11 CY P.S.	150 HP D	101,387	33.63	42.73	6.95	12.21	6.32	14.07				
5535	621-B	24 T 14-20 CY P.S.	330 HP D	199,881	61.78	79.81	13.64	23.87	12.47	27.50				
5540	623-B	25 T 22 CY P.S.	330 HP D	222,694	69.55	88.20	15.29	26.98	13.90	31.13				
5545	627-B	24 T 14-20 CY P.S.	225/225 HP D/D	234,250	81.02	102.99	16.05	28.24	17.98	32.57				
5550	627-B PP	24 T 14-20 CY P.S.	225/225 HP D/D	248,994	84.01	106.65	17.09	30.13	17.98	34.75				
5555	631-D	37.5T 21-31 CY P.S.	450 HP D	309,563	92.41	119.16	21.15	37.07	17.01	42.71				
5560	633-D	37.5T 34 CY P.S.	450 HP D	353,253	107.23	136.00	24.21	42.63	18.95	49.16				
5565	637-D	37.5T 21-31 CY P.S.	450/255 HP D/D	381,135	128.90	163.62	26.17	46.19	28.17	53.28				
5570	637-D PP	37.5T 21-31 CY P.S.	450/255 HP D/D	397,833	132.27	167.76	27.34	48.31	28.17	55.75				
5575	641-B	47 T 28-38 CY P.S.	550 HP D	382,574	113.82	146.77	26.13	45.82	20.79	52.82				
5580	651-B	52 T 32-44 CY P.S.	550 HP D	398,586	117.06	150.72	27.26	47.86	20.79	55.17				
										27.32				
										1186				

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

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

(CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)														
CATERPILLAR (CONT'D)														
5585	657-B	52 T 32-44 CY P.S. 550/400 HP D/D	492,062	169.48	215.36	33.74	59.46	37.96	68.59	49.25	1415			
CLARK														
5595	110-9	11 T 9.5CY P.S.	160 HP D	92,336	31.77	40.40	6.33	11.15	6.74	12.87	8.81	286		
5600	110-11B	13 T 11 CY P.S.	174 HP D	105,938	35.83	45.49	7.27	12.82	7.33	14.79	9.58	345		
5605	110-15B	18 T 15 CY P.S.	232 HP D	139,269	45.54	57.96	9.52	16.71	9.77	19.26	12.78	456		
5610	110H-TB	19 T 16 CY P.S. 140/140 HP D/D	189,793	61.50	78.02	13.06	23.10	11.79	26.66	15.42	521			
5615	210-HB	26.5T 23 CY P.S.	324 HP D	233,296	71.90	91.17	16.00	28.22	13.65	32.56	17.85	710		
FIAT-ALLIS														
5625	161	18.7 T 15 CY P.S.	229 HP D	154,191	48.48	61.55	10.57	18.62	9.65	21.47	12.61	449		
5630	260B	25 T 15-21 CY P.S.	325 HP D	217,869	64.78	83.28	14.93	26.28	12.28	30.30	16.15	613		
5635	261B	26.5T 23 CY P.S.	325 HP D	259,600	76.95	97.25	17.88	31.69	13.69	36.58	17.90	710		
5640	262B	25 T 15-21 CY P.S. 325/171 HP D/D	256,811	87.89	111.56	17.64	31.12	19.82	35.90	25.71	702			
5645	263-B	26.5 T 23 CY P.S. 325/171 HP D/D	303,979	99.36	125.92	20.97	37.23	20.89	43.00	27.32	764			
INTERNATIONAL														
5655	412B	13 T 11 CY P.S.	168 HP D	98,470	33.73	42.84	6.76	11.91	7.08	13.73	9.25	335		
5660	431B	24 T 14-21 CY P.S.	326 HP D	197,163	61.04	78.89	13.45	23.52	12.32	27.10	16.20	594		
5665	433B	24 T 14-21 CY P.S. 326/185 HP D/D	231,522	83.52	106.27	15.86	27.90	20.42	32.17	26.49	690			
5670	442B	25 T 22 CY P.S.	326 HP D	220,386	69.77	88.70	15.07	26.48	13.73	30.53	17.96	680		
5675	444B	25 T 22 CY P.S. 326/185 HP D/D	260,048	86.25	112.58	17.83	31.41	19.32	36.22	25.39	805			
JOHN DEERE														
5685	JD762	13.7 T 11 CY P.S.	175 HP D	107,810	36.15	45.86	7.42	13.10	7.37	15.11	9.64	355		
5690	JD862	20 T 16 CY P.S.	250 HP D	145,284	47.73	60.71	9.94	17.48	10.53	20.15	13.77	492		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES				ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL						
SCRAPERS-SELF PROPELLED (CONT'D) ***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)															
TEREX (GM)															
5700	S-23E	26.5T	23 CY	P.S.	310 HP D	215,610	67.94	86.38	14.74	25.87	13.06	29.82	17.07	658	
5705	S-24B	40.8T	24-34 CY	P.S.	475 HP D	333,616	100.09	129.48	22.72	39.66	17.95	45.68	23.60	955	
5710	TS-14B	23.5T	14-20 CY	P.S.	144/144 HP D/D	211,806	66.97	84.92	14.53	25.60	11.51	29.52	14.93	544	
5715	TS-18	30 T	18-24 CY	P.S.	295/225 HP D/D	278,619	94.33	119.75	19.13	33.77	20.78	38.97	26.96	721	
5720	TS-24	40 T	24-32 CY	P.S.	394/225 HP D/D	374,005	122.70	155.61	25.68	45.34	24.74	52.31	32.09	959	
5725	TS-24B	40.8T	24-34 CY	P.S.	475/242 HP D/D	425,471	141.75	180.01	29.17	51.37	28.65	59.24	37.17	1084	
WABCO															
5735	101G	13 T	11 CY	P.S.	161 HP D	98,867	33.86	43.10	6.76	11.85	6.78	13.66	8.87	317	
5740	222H	25 T	22 CY	P.S.	332 HP D	212,523	68.46	87.11	14.52	25.48	13.98	29.37	18.29	648	
5745	229H	25 T	15-21 CY	P.S.	332 HP D	183,437	58.55	75.86	12.48	21.77	12.55	25.07	16.49	594	
5750	252FT	32 T	27 CY	P.S.	327/320 HP D/D	371,819	127.44	162.14	25.51	44.99	27.25	51.91	35.64	1010	
5755	259FT	37 T	22-31 CY	P.S.	327/328 HP D/D	355,515	124.48	158.53	24.37	42.92	27.59	49.49	36.08	1022	
5760	333F	38 T	32 CY	P.S.	467 HP D	308,934	98.63	125.46	21.11	37.04	19.67	42.71	25.72	1020	
5765	339F	41 T	25-34 CY	P.S.	467 HP D	298,236	90.71	117.04	20.37	35.69	17.65	41.13	23.20	937	
5770	353FT	43 T	36 CY	P.S.	493/473 HP D/D	490,029	177.59	226.64	33.50	58.77	40.69	67.73	53.21	1350	
SCRAPER-TRACTOR DRAWN *****															
ROME															
5780	ROME	18T	12-17CY	HYDR/CONTROL		52,941	10.73	13.14	3.38	5.51	0.00	6.12	0.00	235	
5785	ROME	27T	18-26CY	HYDR/CONTROL		74,822	15.48	19.13	4.73	7.62	0.00	8.45	0.00	365	
SOUTHWEST															
5795	SOUTHWEST DS18 DRAG SCRAPER 8.8 CY					31,423	6.30	7.73	2.00	3.26	0.00	3.63	0.00	137	

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

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

CATERPILLAR														
5805	D-3B P.S.	65 HP D	32,532	10.77	13.73	2.31	3.89	2.88	4.45	3.79	126			
5810	3P POWER ANGLE & POWER TILT		6,424	1.42	1.78	0.45	0.82	0.00	0.96	0.00	24			
5815	D-4E P.S.	75 HP D	44,726	13.97	17.77	3.18	5.36	3.32	6.12	4.37	178			
5820	4A ANGLE BLADE HYDRAULIC		8,326	1.82	2.27	0.58	1.06	0.00	1.23	0.00	30			
5825	4S STRAIGHT BLADE HYDRAULIC		6,476	1.43	1.79	0.46	0.83	0.00	0.96	0.00	25			
5830	D-5B P.S.	105 HP D	68,604	20.85	26.49	4.88	8.22	4.65	9.39	6.12	227			
5835	5A ANGLE BLADE HYDRAULIC		10,315	2.25	2.81	0.73	1.32	0.00	1.53	0.00	43			
5840	5S STRAIGHT BLADE HYDRAULIC		7,969	1.75	2.18	0.56	1.02	0.00	1.18	0.00	32			
5845	D-6D P.S.	140 HP D	91,764	27.85	35.39	6.52	10.99	6.20	12.56	8.16	274			
5850	6S STRAIGHT BLADE HYDRAULIC		10,418	2.27	2.83	0.73	1.33	0.00	1.54	0.00	49			
5855	6A ANGLE BLADE HYDRAULIC		11,792	2.55	3.20	0.83	1.50	0.00	1.75	0.00	53			
5860	D-7G P.S.	200 HP D	128,718	39.28	49.93	9.14	15.41	8.86	17.62	11.66	377			
5865	7S STRAIGHT BLADE HYDRAULIC		16,763	3.61	4.52	1.18	2.14	0.00	2.48	0.00	77			
5870	7U HYD. UNIVERSAL BLADE		18,371	3.96	4.95	1.29	2.35	0.00	2.72	0.00	84			
5875	7A ANGLE BLADE HYDRAULIC		14,627	3.16	3.95	1.03	1.87	0.00	2.16	0.00	68			
5880	D-8K P.S.	300 HP D	174,360	51.27	63.60	11.67	19.39	13.28	21.56	17.50	622			
5885	8S STRAIGHT BLADE HYDRAULIC		24,466	5.24	6.57	1.72	3.12	0.00	3.62	0.00	121			
5890	8U HYD. UNIVERSAL BLADE		26,971	5.78	7.24	1.90	3.45	0.00	3.99	0.00	133			
5895	8A ANGLE BLADE HYDRAULIC		20,722	4.45	5.58	1.46	2.65	0.00	3.07	0.00	116			
5900	PUSH PLATE USE W/BS		628	0.13	0.16	0.04	0.08	0.00	0.09	0.00	4			
5905	D-9H P.S.	410 HP D	252,749	72.95	90.38	16.93	28.11	18.15	31.26	23.91	809			
5910	9S STRAIGHT BLADE HYDRAULIC		31,502	6.73	8.45	2.21	4.02	0.00	4.66	0.00	173			
5915	9A ANGLE BLADE HYDRAULIC		26,822	5.75	7.20	1.89	3.43	0.00	3.97	0.00	152			
5920	9U HYD. UNIVERSAL BLADE		34,452	7.36	9.24	2.42	4.40	0.00	5.10	0.00	190			
5925	9C CUSHION BLADE		25,981	5.57	6.98	1.83	3.32	0.00	3.85	0.00	142			
5930	REAR CUSHION PUSH BLOCK		6,128	1.41	1.74	0.43	0.78	0.00	0.91	0.00	29			
5935	FRONT PUSH PLATE		719	0.17	0.21	0.06	0.10	0.00	0.11	0.00	5			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	AVERAGE	SEVERE	STAND-BY	AVERAGE COND.	SEVERE COND.		
							OWNER-SHIP	FUEL	OWNER-SHIP	FUEL
TRACTOR - CRAWLER (CONT'D)										
CATERPILLAR (CONT'D)										
5940	0-10 P.S.	700 HP D	469,418	127.42	154.80	29.79	49.06	31.00	53.59	40.82
5945	10S STRAIGHT BLADE HYDRAULIC		51,098	10.89	13.66	3.59	6.53	0.00	7.56	0.00
5950	10U HYD. UNIVERSAL BLADE		56,226	11.97	15.03	3.95	7.18	0.00	8.32	0.00
5955	FRONT PUSH PLATE		742	0.22	0.26	0.06	0.10	0.00	0.11	0.00
5960	REAR PUSH BLOCK		16,061	3.46	4.34	1.13	2.05	0.00	2.38	0.00
FIAT-ALLIS										
5970	8-B P.S.	88 HP D	48,183	15.48	19.69	3.42	5.77	3.90	6.59	5.13
5975	8-HA ANGLE BLADE HYDRAULIC		7,244	1.60	1.99	0.51	0.93	0.00	1.07	0.00
5980	8-HSU SEMI-U BLADE HYDRAULIC		7,063	1.54	1.94	0.50	0.90	0.00	1.05	0.00
5985	10-C P.S.	122 HP D	64,639	20.99	26.75	4.59	7.74	5.40	8.85	7.12
5990	10-HA ANGLE BLADE HYDRAULIC		8,062	1.77	2.20	0.57	1.03	0.00	1.19	0.00
5995	10-HSU SEMI-U BLADE HYDRAULIC		9,638	2.09	2.61	0.68	1.23	0.00	1.42	0.00
6000	14-C P.S.	150 HP D	90,272	28.11	35.77	6.41	10.80	6.64	12.36	8.75
6005	14-HA ANGLE BLADE HYDRAULIC		12,347	2.68	3.34	0.87	1.58	0.00	1.82	0.00
6010	14-HSU SEMI-U BLADE HYDRAULIC		12,036	2.59	3.25	0.84	1.53	0.00	1.78	0.00
6015	20 P.S.	223 HP D	114,813	37.64	47.98	8.16	13.75	9.87	15.72	13.01
6020	20-HA ANGLE BLADE HYDRAULIC		13,131	2.84	3.55	0.92	1.68	0.00	1.94	0.00
6025	20-HS STRAIGHT BLADE HYDRAULIC		13,794	2.98	3.73	0.97	1.76	0.00	2.04	0.00
6030	20-HSU SEMI-U BLADE HYDRAULIC		18,335	3.94	4.94	1.29	2.35	0.00	2.72	0.00
6035	30-C P.S.	300 HP D	171,790	50.75	62.99	11.50	19.10	13.28	21.25	17.50
6040	30HSU HYD. SEMI-UNIVERSAL BLADE		25,459	5.44	6.83	1.79	3.25	0.00	3.77	0.00
6045	30-HU FULL-U BLADE HYDRAULIC		25,853	5.52	6.94	1.82	3.30	0.00	3.83	0.00
6050	31 P.S.	425 HP D	236,397	70.52	87.58	15.83	26.29	18.82	29.25	24.79
6055	31-HSU SEMI-U BLADE HYDRAULIC		38,327	8.17	10.25	2.70	4.90	0.00	5.67	0.00
6060	31-HU FULL-U BLADE HYDRAULIC		39,255	8.36	10.50	2.75	5.01	0.00	5.81	0.00
6065	31-HC CUSHION BLADE		25,213	5.40	6.78	1.77	3.22	0.00	3.74	0.00

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

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

FIAT-ALLIS (CONT'D)														
6070	41-B P.S.	524 HP D	342,580	93.69	113.91	21.74	35.80	23.20	39.11	30.56	1128			
6075	41-HSU SEMI-U BLADE HYDRAULIC		44,296	9.43	11.84	3.11	5.65	0.00	6.55	0.00	222			
6080	41-HU FULL-U BLADE HYDRAULIC		50,734	10.80	13.56	3.56	6.48	0.00	7.51	0.00	254			
6085	41-HC CUSHION BLADE		28,934	6.19	7.76	2.04	3.70	0.00	4.28	0.00	120			
INTERNATIONAL														
6095	TD-7-E P. S. W/HYD BLADE	65 HP D	41,600	12.72	16.17	2.96	4.98	2.88	5.70	3.79	139			
6100	TD-8-E P.S. W/HYD BLADE	78 HP D	51,662	15.64	19.87	3.67	6.19	3.45	7.07	4.55	172			
6105	TD-12 P.S. W/HYD BLADE	110 HP D	71,684	21.80	27.70	5.10	8.59	4.87	9.81	6.42	267			
6110	TD-15-C P.S.	140 HP D	85,848	26.58	33.80	6.10	10.28	6.20	11.75	8.16	271			
6115	15D-2 HYD. SEMI-UNIVERSAL BLADE		9,826	2.13	2.66	0.69	1.25	0.00	1.45	0.00	46			
6120	15G-2 ANGLE BLADE HYDRAULIC		11,084	2.40	3.00	0.78	1.42	0.00	1.64	0.00	50			
6125	TD-20-E P.S.	210 HP D	128,630	39.84	50.69	9.13	15.39	9.30	17.61	12.25	414			
6130	20D-2 HYD. SEMI-UNIVERSAL BLADE		17,422	3.75	4.69	1.23	2.23	0.00	2.58	0.00	61			
6135	20G-2 ANGLE BLADE HYDRAULIC		11,720	2.54	3.17	0.83	1.50	0.00	1.73	0.00	71			
6140	TD-25-E P.S.	310 HP D	169,283	50.82	63.12	11.34	18.83	13.73	20.94	18.08	604			
6145	25D-2 HYD. SEMI-UNIVERSAL BLADE		21,391	4.58	5.75	1.50	2.73	0.00	3.17	0.00	113			
6150	25G-2 ANGLE BLADE HYDRAULIC		17,629	3.78	4.75	1.24	2.25	0.00	2.61	0.00	115			
6155	FRONT PUSHER CUSHION		8,325	1.82	2.27	0.58	1.06	0.00	1.23	0.00	29			
6160	REAR PUSHER CUSHION		4,416	1.05	1.28	0.32	0.57	0.00	0.65	0.00	23			
6165	FRONT PUSH BLOCK /S BLD		674	0.20	0.24	0.04	0.08	0.00	0.10	0.00	12			
JOHN DEERE														
6175	JD350C/6305 D.D. W/HYD BLADE	42 HP D	28,151	8.49	10.79	2.00	3.37	1.86	3.86	2.45	107			
6180	JD450C/6405 D.D. W/HYD BLADE	65 HP D	39,216	12.21	15.52	2.79	4.70	2.88	5.37	3.79	143			
6185	JD550/6405 P.S. W/HYD BLADE	72 HP D	46,861	14.25	18.11	3.33	5.61	3.19	6.41	4.20	155			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRACTOR - CRAWLER (CONT'D)														
KOMATSU														
6195	D31A-16 H.S.	63 HP D	31,922	10.52	13.42	2.27	3.82	2.79	4.37	3.67				
6200	ANGLE TILTDOZER BLADE		5,176	1.15	1.43	0.36	0.66	0.00	0.77	0.00				
6205	D45A-1 H.S.	90 HP D	47,923	15.53	19.79	3.40	5.73	3.99	6.56	5.25				
6210	ANGLE TILTDOZER BLADE		3,685	0.83	1.03	0.26	0.47	0.00	0.54	0.00				
6215	D53A-16A H.S.	118 HP D	70,292	21.97	27.95	4.99	8.42	5.23	9.63	6.88				
6220	ANGLE TILTDOZER BLADE		6,134	1.35	1.69	0.43	0.78	0.00	0.91	0.00				
6225	D65E-6 H.S.	155 HP D	99,296	30.35	38.57	7.05	11.89	6.86	13.59	9.04				
6230	ANGLE TILTDOZER BLADE		7,999	1.74	2.19	0.56	1.02	0.00	1.19	0.00				
6235	D85A-18 H.S.	220 HP D	125,011	39.66	50.49	8.88	14.97	9.74	17.12	12.83				
6240	ANGLE TILTDOZER BLADE		12,513	2.70	3.38	0.88	1.60	0.00	1.85	0.00				
6245	U-DOZER BLADE		13,353	2.87	3.61	0.94	1.70	0.00	1.98	0.00				
6250	D155A-1 H.S.	320 HP D	179,858	57.25	72.89	12.77	21.53	14.17	24.62	18.66				
6255	ANGLE TILTDOZER BLADE		17,167	3.69	4.62	1.21	2.20	0.00	2.54	0.00				
6260	U-DOZER BLADE		18,148	3.90	4.89	1.28	2.32	0.00	2.69	0.00				
6265	D355A-3 H.S.	410 HP D	242,290	70.86	87.88	16.22	26.94	18.15	29.97	23.91				
6270	U-DOZER BLADE		23,325	4.99	6.26	1.64	2.98	0.00	3.45	0.00				
6275	STRAIGHT DOZER BLADE		21,228	4.55	5.70	1.49	2.71	0.00	3.14	0.00				
6280	D455A-1 H.S.	620 HP D	429,109	115.39	140.09	27.22	44.84	27.45	48.98	36.16				
6285	FULL U-DOZER BLADE		56,524	12.02	15.10	3.97	7.22	0.00	8.36	0.00				
6290	U-DOZER BLADE		53,131	11.30	14.19	3.73	6.78	0.00	7.86	0.00				
6295	STRAIGHT DOZER BLADE		49,737	10.58	13.28	3.49	6.35	0.00	7.35	0.00				
TEREX (GM)														
6305	82-20B P.S. (W/O BLADE)	205 HP D	133,944	40.69	51.73	9.52	16.04	9.08	18.34	11.96				
6310	SEMI-U BLADE HYDRAULIC		12,479	2.70	3.38	0.88	1.60	0.00	1.85	0.00				
6315	ANGLE BLADE HYDRAULIC		13,964	3.00	3.77	0.98	1.78	0.00	2.07	0.00				
6320	FULL-U BLADE HYDRAULIC		14,302	3.08	3.86	1.01	1.83	0.00	2.12	0.00				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT		
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.					
		AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL				
TRACTOR - CRAWLER (CONT'D)											
TEREX (GM) (CONT'D)											
6325	82-30B P.S. (W/O BLADE)	260 HP D	154,813	45.16	56.01	10.36	17.21	11.51	19.15	15.16	555
6330	SEMI-U BLADE HYDRAULIC		17,631	3.78	4.75	1.24	2.25	0.00	2.61	0.00	91
6335	ANGLE BLADE HYD. w/DUAL TILT		23,119	4.94	6.20	1.62	2.95	0.00	3.42	0.00	118
6340	FULL-U BLADE HYDRAULIC		20,003	4.28	5.38	1.40	2.55	0.00	2.96	0.00	107
6345	REAR CUSHION PUSH BLOCK		5,800	1.33	1.65	0.41	0.74	0.00	0.86	0.00	30
6350	82-50B P.S. (W/O BLADE)	370 HP D	220,417	64.30	79.72	14.76	24.51	16.38	27.26	21.58	776
6355	SEMI-U BLADE HYDRAULIC		23,037	4.89	6.13	1.62	2.95	0.00	3.41	0.00	118
6360	FULL-U BLADE HYDRAULIC		25,249	5.34	6.73	1.77	3.22	0.00	3.74	0.00	129
6365	ANGLE BLADE HYDRAULIC		24,749	5.24	6.59	1.74	3.16	0.00	3.66	0.00	157
6370	PUSH PLATE (WELD ON)		930	0.20	0.25	0.07	0.12	0.00	0.14	0.00	6
6375	PUSH BLOCK (CUSHION REAR)		5,355	1.13	1.42	0.37	0.68	0.00	0.79	0.00	21
TRACTOR - WHEEL TYPE DOZERS											
CATERPILLAR											
6385	814 ARTICULATED ST BLADE P.S.	170 HP D	110,032	32.34	44.81	7.56	13.30	6.98	15.34	9.18	366
6390	824-C ARTICULATED ST BLADE P.S.	300 HP D	190,015	57.32	81.55	12.98	22.62	12.31	26.05	16.20	603
CLARK											
6400	280 ARTICULATED ST BLADE P.S.	274 HP D	208,444	60.15	86.15	14.23	24.78	11.24	28.52	14.80	691
6405	380B ARTICULATED ST BLADE P.S.	473 HP D	339,467	95.64	132.73	23.15	40.26	19.41	46.35	25.54	1233
TRACTOR - WHEEL TYPE - FARM TYPE											
JOHN DEERE											
6415	MOD 301 A	43 HP D	12,630	4.83	6.38	0.88	1.55	1.76	1.79	2.32	0
6420	MOD 302	50 HP D	14,120	5.49	7.22	0.99	1.75	2.05	2.02	2.70	0
6425	MOD 401 B	62 HP D	19,038	7.09	9.25	1.33	2.36	2.54	2.72	3.35	0

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	
			AVERAGE	SEVERE						
TRENCHER-CHAIN-DITCH WITCH										
6435	MOD C99 6"x24" TRENCH	9 HP G	2,593	1.66	2.14	0.18	0.31	0.78	0.36	1.01
6440	MOD 2200 8"x36" TRENCH	17 HP G	11,477	4.61	5.98	0.80	1.43	1.47	1.65	1.92
6445	MOD 2300 10"x36" TRENCH	28 HP G	13,147	6.23	8.06	0.92	1.65	2.42	1.91	3.15
6450	MOD 6510 12"x54" TRENCH	64 HP D	28,970	10.16	13.27	2.02	3.60	2.63	4.16	3.46
6455	MOD R100 10"x72" TRENCH	105 HP D	62,842	20.62	27.32	4.36	7.73	4.31	8.92	5.67
TRENCHER-WHEEL TYPE										
BARBER-GREENE										
6465	MOD TA 56 16"x5'-10" TRENCH	100 HP D	98,961	27.75	35.25	6.96	12.53	4.10	14.50	5.40
6470	MOD TA 65 28"x7'-6" TRENCH	175 HP D	142,755	41.65	52.99	10.04	18.08	7.18	20.92	9.45
CLEVELAND										
6480	MOD 247-HD-1 21"x7' TRENCH	84 HP D	115,705	30.72	38.96	8.13	14.65	3.45	16.96	4.54
6485	MOD 400W-HD-1 36"x9' TRENCH	175 HP D	201,132	54.92	69.71	14.14	25.47	7.18	29.47	9.45
TRUCKS - HIGHWAY										
(CHASSIS ONLY)										
FORD										
6500	F150 4X2 1/2T PKUP	6100 GVW 157 HP G	6,029	6.97	9.18	0.45	0.85	4.11	1.04	5.35
6505	F150 4X4 1/2T PKUP	6250 GVW 157 HP G	7,493	7.35	9.71	0.57	1.07	4.11	1.30	5.35
6510	F250 4X2 3/4T PKUP	6900 GVW 157 HP G	6,416	7.11	9.39	0.48	0.89	4.11	1.09	5.35
6515	F250 4X4 3/4T PKUP	7400 GVW 157 HP G	7,774	7.47	9.93	0.58	1.09	4.11	1.33	5.35
6520	F350 4X2 1T	10000 GVW 157 HP G	7,341	7.40	9.84	0.54	1.00	4.11	1.22	5.35
6525	F600 2AX	18500 GVW 154 HP G	13,313	14.46	19.10	0.98	1.82	8.27	2.23	10.69
6530	F600 2AX	18500 GVW 162 HP D	18,425	10.79	14.41	1.37	2.57	4.67	3.14	6.03
6535	F700 2AX	24500 GVW 177 HP G	15,661	16.68	21.99	1.17	2.17	9.51	2.65	12.29
6540	F700 2AX	24500 GVW 162 HP D	20,813	11.38	15.21	1.56	2.92	4.67	3.57	6.03
6545	F800 2AX	27000 GVW 177 HP G	17,352	17.15	22.68	1.29	2.40	9.51	2.92	12.29
6550	F800 2AX	27000 GVW 162 HP D	22,180	11.99	16.32	1.63	3.00	4.67	3.65	6.03

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															
TRUCKS - HIGHWAY (CONT'D)																			
***** (CHASSIS ONLY)																			
FORD (CONT'D)																			
6555	LT800	3AX	43000 GVW 223 HP G	26,485	30.60	40.52	1.96	3.63	17.82	4.43	23.08	110							
6560	LT8000	3AX	44800 GVW 175 HP D	36,479	19.07	25.97	2.71	5.04	7.35	6.15	9.66	126							
6565	LTS8000	3AX	46000 GVW 175 HP D	38,181	19.50	26.56	2.84	5.28	7.35	6.44	9.66	130							
6570	LNT8000	3AX	46000 GVW 175 HP D	36,100	18.99	25.87	2.68	4.98	7.35	6.07	9.66	124							
6575	CT8000	3AX	46000 GVW 175 HP D	42,123	20.48	27.87	3.14	5.86	7.35	7.14	9.66	136							
6580	LT9000	3AX	58000 GVW 82000 GCW 239 HP D	55,414	27.43	37.32	4.13	7.71	10.04	9.40	13.19	172							
6585	LTS9000	3AX	60000 GVW 82000 GCW 239 HP D	58,857	28.34	38.56	4.38	8.17	10.04	9.97	13.19	180							
6590	LNT9000	3AX	60000 GVW 82000 GCW 239 HP D	55,809	27.59	37.54	4.15	7.73	10.04	9.42	13.19	175							
6595	CLT9000	3AX	82000 GCW 286 HP D	54,989	29.74	40.32	4.10	7.68	12.01	9.38	15.79	149							
GMC AND CHEVROLET																			
6605	C10903	4X2 1/2T PKUP	6200 GVW 135 HP G	6,612	6.37	8.41	0.50	0.93	3.54	1.13	4.60	42							
6610	C10906	4X2	WAGON 6400 GVW 175 HP G	7,710	8.03	10.58	0.58	1.09	4.58	1.33	5.96	47							
6615	K10906	4X4	WAGON 6800 GVW 175 HP G	8,765	8.29	10.97	0.66	1.24	4.58	1.53	5.96	51							
6620	C20903	4X2 3/4T PKUP	7100 GVW 175 HP G	7,300	7.93	10.46	0.55	1.03	4.58	1.26	5.96	48							
6625	K20903	4X4 3/4T PKUP	6800 GVW 175 HP G	8,362	8.20	10.87	0.63	1.18	4.58	1.45	5.96	51							
6630	C30903	4X2 1T	9000 GVW 165 HP G	6,879	7.51	9.92	0.51	0.95	4.32	1.17	5.62	45							
6635	C5D042	2AX	14800 GVW 165 HP G	10,237	14.41	18.94	0.76	1.41	8.86	1.72	11.46	59							
6640	C6D042	2AX	21200 GVW 165 HP G	12,215	14.98	19.75	0.91	1.67	8.86	2.03	11.46	64							
6645	C6D042	2AX	21200 GVW 153 HP D	16,966	10.09	13.49	1.27	2.36	4.41	2.88	5.69	73							
6650	C7D042	2AX	23160 GVW 188 HP G	13,356	16.94	22.35	0.99	1.81	10.10	2.20	13.05	72							
6655	C7D042	2AX	27500 GVW 153 HP D	19,684	10.91	14.71	1.45	2.69	4.41	3.28	5.69	83							
6660	C7D064	3AX	44860 GVW 210 HP G	24,888	29.01	38.56	1.83	3.34	16.78	4.05	21.73	120							
6665	C7D064	3AX	44860 GVW 193 HP D	29,274	18.31	24.97	2.16	3.97	8.11	4.83	10.65	112							
6670	J8C042	2AX	35000 GVW 194 HP D	32,316	18.92	25.56	2.41	4.49	8.15	5.48	10.71	102							
6675	J8C064	3AX	44860 GVW 194 HP D	35,640	19.95	27.17	2.65	4.91	8.15	5.97	10.71	139							
6680	J9C042	2AX	29900 GVW 230 HP D	46,940	20.58	27.68	3.52	6.62	8.09	8.56	123								

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT						
			CONDITION	STAND-BY	AVERAGE	SEVERE	AVERAGE COND.	SEVERE COND.								
					OWNER-SHIP	FUEL		OWNER-SHIP								
TRUCKS - HIGHWAY (CONT'D)																
(CHASSIS ONLY)																
GMC AND CHEVROLET (CONT'D)																
6685	J9C064 3AX	48860 GVW 283 HP D	48,150	27.83	37.62	3.60	6.73	11.89	8.20	15.62	159					
6690	N9E064 3AX	53480 GVW 290 HP D	57,247	30.52	41.30	4.28	8.01	12.18	9.77	16.01	163					
6695	D9K064 3AX	80000 GVW 280 HP D	58,698	30.25	40.93	4.39	8.25	11.76	10.08	15.46	148					
INTERNATIONAL																
6705	SCOUT 4X4	6200 GVW 97 HP G	6,778	5.10	6.79	0.51	0.96	2.54	1.17	3.30	30					
6710	1624 2AX	20000 GVW 147 HP G	10,252	13.15	17.29	0.76	1.41	7.90	1.72	10.21	57					
6715	1724 2AX	20000 GVW 147 HP G	10,599	13.23	17.41	0.79	1.46	7.90	1.79	10.21	65					
6720	1754 2AX	20000 GVW 165 HP D	14,835	9.93	13.20	1.11	2.08	4.75	2.54	6.14	71					
6725	1824 2AX	21000 GVW 189 HP G	11,261	16.38	21.47	0.84	1.57	10.15	1.91	13.12	68					
6730	1854 2AX	23000 GVW 180 HP D	16,972	11.08	14.78	1.27	2.36	5.18	2.88	6.70	74					
6735	1924 2AX	25000 GVW 190 HP G	13,195	16.99	22.35	0.98	1.81	10.20	2.20	13.19	79					
6740	1954 2AX	25000 GVW 210 HP D	21,916	13.41	17.85	1.64	3.08	6.05	3.76	7.81	100					
6745	F2554 3AX	43000 GVW 210 HP D	36,452	21.00	28.57	2.70	5.02	8.82	6.11	11.59	123					
6750	F2574 3AX	50000 GVW 230 HP D	43,695	23.86	32.40	3.25	6.07	9.66	7.41	12.70	123					
6755	F4370 3AX	46000 GVW 290 HP D	45,993	27.66	37.40	3.43	6.41	12.18	7.82	16.01	133					
6760	F5050 3AX	52000 GVW 225 HP D	44,477	23.80	32.30	3.31	6.19	9.45	7.54	12.42	138					
6765	F5070 3AX	52000 GVW 290 HP D	47,790	28.10	37.99	3.57	6.67	12.18	8.13	16.01	140					
KENWORTH																
6775	K100 3AX	47400 GVW 72800 GCW 290 HP D	47,125	27.98	37.88	3.51	6.55	12.18	8.00	16.01	138					
6780	W900 3AX	50000 GVW 76800 GCW 290 HP D	46,046	27.72	37.51	3.43	6.40	12.18	7.80	16.01	140					
6785	C500 3AX	56000 GVW 86000 GCW 290 HP D	52,691	29.37	39.73	3.94	7.37	12.18	8.99	16.01	144					
6790	BRUTE 3AX	62000 GVW 95300 GCW 290 HP D	56,655	30.35	41.05	4.24	7.95	12.18	9.70	16.01	179					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCKS - HIGHWAY (CONT'D)														
(CHASSIS ONLY)														
PETERBILT														
6800	MOD 348 3AX 56000 GVW	250 HP D	53,807	27.60	37.40	4.01	7.48	10.50	9.11	13.80	121			
6805	MOD 362 3AX 50000 GVW	76800 GCW 350 HP D	59,283	34.23	46.16	4.44	8.33	14.70	10.16	19.32	131			
6810	MOD 359 3AX 50000 GVW	76800 GCW 350 HP D	64,039	35.40	47.74	4.80	9.02	14.70	11.01	19.32	134			
6815	MOD 353 3AX 73000 GVW	125000 GCW 350 HP D	66,526	36.01	48.58	4.99	9.38	14.70	11.46	19.32	174			
6820	MOD 387 3AX 83000 GVW	150000 GCW 350 HP D	89,660	41.73	56.28	6.74	12.75	14.70	15.59	19.32	193			
TRUCK ACCESSORIES														
(CHASSIS NOT INCLUDED)														
CRANES-HYDRAULIC														
6830	5.3T@5'RAD	24000 GVW MIN	22,048	5.39		1.68	3.26	0.00			79			
6835	8.0T@3'RAD	26500 GVW MIN	27,299	6.66		2.08	4.04	0.00			84			
6840	12.5T@4'RAD	27000 GVW MIN	41,408	10.04		3.15	6.11	0.00			142			
6845	13.5T@4'RAD	44000 GVW MIN	51,489	12.48		3.92	7.61	0.00			158			
6850	15.0T@4'RAD	48000 GVW MIN	58,138	14.08		4.43	8.59	0.00			211			
DUMP BODIES-REAR-W/HOIST														
6860	5CY 24M TO 26M GVW		4,817	1.23	1.62	0.37	0.71	0.00	0.87	0.00	26			
6865	AIR GATE 8CY 27M TO 30M GVW		7,606	1.91	2.53	0.58	1.13	0.00	1.38	0.00	44			
6870	AIR GATE 10CY 36M AND UP GVW		7,689	1.91	2.56	0.58	1.13	0.00	1.40	0.00	45			
6875	AIR GATE 12CY 36M AND UP GVW		7,799	1.95	2.59	0.60	1.15	0.00	1.41	0.00	46			
FLATBEDS														
6885	8'X9.5'		1,620	0.38		0.12	0.23	0.00			11			
6890	8'X10.5'		1,670	0.41		0.13	0.25	0.00			12			
6895	8'X12.5'		1,823	0.44		0.14	0.27	0.00			14			
6900	8'X14.5'		2,167	0.52		0.16	0.32	0.00			16			
6905	8'X16.5'		2,373	0.57		0.18	0.35	0.00			18			
6910	FLATBED-HOIST		2,271	0.55		0.18	0.34	0.00			10			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCK ACCESSORIES (CONT'D) ***** (CHASIS NOT INCLUDED)														
FLATBEDS (CONT'D)														
6915	FLATBED-SIDEBOARDS	638	0.15		0.05	0.09	0.00			3				
HOISTS-ELECTRIC														
6925	1500LB@1.75'	1,720	0.48		0.13	0.25	0.00			4				
6930	2400LB@3'	2,213	0.61		0.17	0.33	0.00			6				
6935	5000LB@4'	6,040	1.53		0.47	0.90	0.00			15				
6940	6000LB@6'	6,726	1.69		0.51	0.99	0.00			14				
TRANSIT MIXERS														
6950	7 CY 40000 - 50000 GVW RQD	21,331	5.24		1.62	3.15	0.00			63				
6955	8 CY 50000 70000 GVW RQD	21,658	5.32		1.65	3.20	0.00			66				
6960	8.5CY 55000 75000 GVW RQD	21,876	5.37		1.66	3.23	0.00			68				
6965	9 CY 61000 80000 GVW RQD	22,180	5.45		1.69	3.28	0.00			73				
WATER TANKS														
6975	2000 GAL 23500-28000 GVW	7 HP G	8,806	2.92		0.67	1.30	0.61		35				
6980	2500 GAL 25000-34950 GVW	7 HP G	9,250	3.02		0.70	1.36	0.61		42				
6985	3000 GAL 29000-40000 GVW	7 HP G	9,770	3.15		0.74	1.44	0.61		46				
TRUCK TRAILERS *****														
DUMPS-BELLY														
6995	18CY 27T		23,150	5.00	6.31	1.59	2.68	0.00	3.06	0.00				
7000	20CY 30T		26,645	5.70	7.22	1.83	3.09	0.00	3.54	0.00				
7005	30CY 30T		27,052	5.78	7.31	1.86	3.14	0.00	3.59	0.00				
7010	28CY 42T		33,392	7.09	8.96	2.30	3.89	0.00	4.45	0.00				
7015	20CY 35T OFF HIGHWAY		35,042	7.70	9.76	2.38	3.95	0.00	4.50	0.00				
7020	32CY 55T OFF HIGHWAY		74,246	16.02	20.31	5.08	8.49	0.00	9.70	0.00				
7025	43CY 70T OFF HIGHWAY		82,646	18.36	23.39	5.57	9.15	0.00	10.43	0.00				

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

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

DUMPS-END													
7035	20CY 24T	27,575	5.87	7.41	1.90	3.22	0.00	3.69	0.00	146			
LOWBOY-RIGID NECK-DROP DECK													
7045	25 TON 2 AXLE	17,218	3.52		1.19	1.91	0.00			89			
7050	30 TON 2 AXLE	19,614	4.00		1.36	2.18	0.00			94			
7055	35 TON 2 AXLE	23,785	4.80		1.65	2.66	0.00			109			
7060	35 TON 3 AXLE	24,193	4.99		1.67	2.67	0.00			134			
7065	40 TON 3 AXLE	25,582	5.29		1.75	2.80	0.00			144			
7070	50 TON 3 AXLE	27,900	5.76		1.91	3.05	0.00			161			
7075	60 TON 3 AXLE	30,726	6.34		2.11	3.37	0.00			188			
7080	70 TON 3 AXLE	40,716	8.16		2.81	4.55	0.00			213			
7085	75 TON 3 AXLE	41,542	8.31		2.87	4.65	0.00			228			
7090	80 TON 4 AXLE	48,771	9.80		3.38	5.46	0.00			266			
7095	90 TON 4 AXLE	53,807	10.79		3.72	6.01	0.00			297			
7100	110 TON 4 AXLE	59,125	11.78		4.10	6.66	0.00			313			
7105	120 TON 4 AXLE	67,154	13.79		4.60	7.33	0.00			351			
7110	HELPER DOLLY 60 T TRAILER MAX	14,042	3.01		0.95	1.49	0.00			62			
PLATFORM TRAILERS													
7120	25 TON 2 AXLE	12,896	2.80		0.87	1.36	0.00			110			
PUP TRAILERS													
7130	8 CY LONG TONGUE	16,070	3.40		1.09	1.73	0.00			86			
7135	10CY LONG TONGUE	16,197	3.42		1.11	1.75	0.00			86			
TILT TRAILERS													
7145	12 TON 2 AXLE	8,903	1.92		0.61	0.95	0.00			62			
7150	16 TON 2 AXLE	9,165	1.99		0.62	0.97	0.00			65			
7155	20 TON 2 AXLE	10,413	2.29		0.70	1.09	0.00			67			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	COND.	SEVERE	COND.					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRUCKS - OFF HIGHWAY														
CATERPILLAR														
7165	769-C	35T 22-30 CY	P.S. 450 HP D	235,264	62.90	80.12	15.33	25.51	11.66	28.39	15.07	689		
7170	773-B	50T 30-45 CY	P.S. 650 HP D	331,036	89.96	114.96	21.52	35.71	16.85	39.73	21.76	890		
7175	777	85T 47-67 CY	P.S. 870 HP D	454,073	120.55	153.94	29.28	48.04	22.55	53.37	29.13	1346		
7180	768C PRIME MOVER TRACTOR		P.S. 450 HP D	207,468	57.94	74.14	13.48	22.35	11.66	24.87	15.07	506		
7185	772B PRIME MOVER TRACTOR		P.S. 650 HP D	311,861	88.75	114.65	20.12	33.03	16.85	36.71	21.76	705		
DJB (ARTICULATED FRAME)														
7195	D275B	27.5T 15-20 CY	P.S. 235 HP D	174,200	42.21	53.18	11.33	18.84	6.09	20.98	7.87	424		
7200	D330B	33T 17-23 CY	P.S. 255 HP D	196,634	47.07	59.15	12.82	21.35	6.61	23.77	8.54	444		
7205	D350B	35T 20-26 CY	P.S. 255 HP D	205,333	50.32	63.89	13.26	21.82	6.61	24.25	8.54	472		
7210	D550	55T 32-43 CY	P.S. 450 HP D	344,121	84.42	106.90	22.28	36.78	11.66	40.89	15.07	834		
EUCLID														
7220	R25-215FD	25T 14-19 CY	P.S. 214 HP D	147,265	35.83	45.24	9.58	15.92	5.55	17.72	7.16	404		
7225	R35-302TD	35T 22-30 CY	P.S. 430 HP D	225,215	59.91	76.18	14.69	24.48	11.15	27.26	14.40	623		
7230	R50-301LD	50T 31-41 CY	P.S. 576 HP D	302,064	82.24	105.42	19.60	32.42	14.93	36.06	19.28	836		
7235	R75-301ND	75T 46-69 CY	P.S. 646 HP D	403,827	102.89	131.36	26.04	42.70	16.74	47.44	21.63	1123		
7240	R85-306ND	85T 52-67 CY	P.S. 746 HP D	413,823	109.11	139.75	26.61	43.47	19.34	48.27	24.98	1227		
INTERNATIONAL														
7250	330	36T 24-31 CY	P.S. 394 HP D	197,465	55.61	72.12	12.80	21.16	10.21	23.54	13.19	630		
7255	350B	50T 31-42 CY	P.S. 580 HP D	312,321	83.57	107.04	20.38	34.01	15.03	37.87	19.42	740		
TEREX														
7270	33-03B	22T 15-18 CY	P.S. 215 HP D	127,851	33.23	42.35	8.32	13.85	5.57	15.42	7.20	400		
7275	33-05B	30T 19-23 CY	P.S. 321 HP D	185,139	48.77	62.29	12.04	19.98	8.32	22.23	10.75	525		
7280	33-07	40T 25-32 CY	P.S. 493 HP D	234,818	66.99	86.54	15.15	24.87	12.78	27.64	16.51	756		
7285	33-09	55T 34-44 CY	P.S. 624 HP D	317,402	88.85	114.69	20.49	33.67	16.17	37.42	20.89	992		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL	OWNER-SHIP				
TRUCKS - OFF HIGHWAY (CONT'D)													
TEREX (CONT'D)													
7290	33-11C 85T 51-65 CY P.S. 840 HP D	445,362	117.98	150.73	28.71	47.06	21.77	52.27	28.12	1227			
WABCO													
7300	HAULPAK 35D 35T 23-29 CY P.S. 420 HP D	219,399	59.04	75.38	14.28	23.71	10.89	26.39	14.06	571			
7305	HAULPAK 50B 50T 31-40 CY P.S. 576 HP D	309,885	83.63	107.10	20.11	33.30	14.93	37.05	19.28	792			
7310	HAULPAK 60 60T 34-48 CY P.S. 576 HP D	343,997	91.93	118.28	22.25	36.68	14.93	40.79	19.28	850			
7315	75B 75T 44-57 CY P.S. 665 HP D	366,352	99.37	127.72	23.72	39.14	17.24	43.53	22.26	915			
7320	85D 85T 47-67 CY P.S. 818 HP D	440,786	116.40	148.77	28.40	46.53	21.20	51.69	27.39	1193			
TRUCKS - WATER													
TRACTOR DRAWN - KLEIN													
7335	KT-50 5000 GAL. CAT 613B P.S. 150 HP D	103,126	27.88	35.28	6.69	11.06	6.16	12.30	8.10	320			
7340	KT-60 6000 GAL. CAT 621B P.S. 330 HP D	185,609	54.00	68.78	11.99	19.73	13.54	21.93	17.82	564			
7345	KT-80 8000 GAL. CAT 631D P.S. 450 HP D	256,303	74.85	95.57	16.53	27.11	18.47	30.12	24.30	740			
7350	KT-100 10000 GAL. CAT 631D P.S. 450 HP D	262,616	75.91	96.82	16.95	27.82	18.47	30.91	24.30	798			
7355	KT-100 10000 GAL. CAT 641B P.S. 550 HP D	306,661	90.41	115.57	19.76	32.37	22.57	35.96	29.70	931			
7360	KT-120 12000 GAL. CAT 651B P.S. 550 HP D	311,567	91.24	116.54	20.08	32.93	22.57	36.58	29.70	1097			
TRACTOR DRAWN - SOUTHWEST													
7370	STT-60 6000 GAL. CAT 621B P.S. 330 HP D	196,120	55.78	70.88	12.70	20.93	13.54	23.27	17.82	594			
7375	STT-80 8000 GAL. CAT 631D P.S. 450 HP D	269,668	77.11	98.23	17.42	28.63	18.47	31.81	24.30	800			
7380	STT-100 10000 GAL. CAT 631D P.S. 450 HP D	273,575	77.76	99.00	17.67	29.06	18.47	32.30	24.30	840			
7385	STT-120 12000 GAL. CAT 651B P.S. 550 HP D	327,617	93.94	119.73	21.14	34.74	22.57	38.61	29.70	1054			
7390	STT-140 14000 GAL. CAT 660B P.S. 550 HP D	330,692	94.47	120.34	21.35	35.10	22.57	39.00	29.70	1089			

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

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

CATERPILLAR-ATHEY												
7400	621B/PW621B	33T 22-26CY P.S. 330 HP D	197,008	55.93	71.06	12.75	21.03	13.54	23.38	17.82	579	
7405	768B/PW768C	63T 42-48CY P.S. 450 HP D	300,235	82.86	105.02	19.34	31.67	18.47	35.17	24.30	935	
7410	772B/PW772B	100T 60-67CY P.S. 650 HP D	465,158	127.33	162.88	30.20	50.03	26.68	55.66	35.10	1304	
EUCLID												
7420	B30-303TDT301W	30T 21-27CY P.S. 277 HP D	185,517	51.02	64.71	11.99	19.72	11.37	21.91	14.96	483	
7425	B70-203LDT147W	70T 42-56CY P.S. 423 HP D	327,439	80.87	100.22	21.40	35.80	17.36	39.89	22.84	934	
WAGONS - REAR - DUMP												

CATERPILLAR-ATHEY												
7435	621B/PR621B	30T 20-24CY P.S. 330 HP D	207,387	59.57	76.48	13.43	22.16	13.54	24.63	17.82	590	
7440	631D/PR631D	40T 27-32CY P.S. 450 HP D	295,001	83.35	106.84	19.13	31.64	18.47	35.20	24.30	833	
WATER BLASTER												

7455	1 - NOZZLE	95 HP D	25,647	17.81		2.21	4.66	5.75			47	
7460	2 - NOZZLE	140 HP D	34,512	25.40		2.97	6.26	8.47			52	
7465	3 - NOZZLE	275 HP D	63,213	48.24		5.43	11.47	16.63			128	
7470	4 - NOZZLE	318 HP D	68,088	54.18		5.85	12.35	19.23			145	
WATER TANKS												

SKID MOUNTED												
7480	WST-8	8000 GAL. SOUTHWEST	12,525	2.11		0.83	1.43	0.00			107	
7485	WST-10	10000 GAL. SOUTHWEST	14,599	2.46		0.97	1.67	0.00			122	
7490	WST-12	12000 GAL. SOUTHWEST	16,986	2.85		1.13	1.94	0.00			142	

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL					
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
WATER TANKS (CONT'D)														
PORTABLE (WITH WHEELS)														
7500	EWT-8	8000 GAL. SOUTHWEST	22,908	3.84		1.52	2.61	0.00		130				
7505	EWT-10	10000 GAL. SOUTHWEST	25,847	4.33		1.71	2.95	0.00		170				
7510	EWT-12	12000 GAL. SOUTHWEST	28,677	4.80		1.90	3.27	0.00		185				
WELDERS														
ELECTRIC DRIVE - AC 3 PHASE 60 HZ														
7520	250 AMP	SKID MTD	10 HP E	1,076	0.72		0.08	0.15	0.39	7				
7525	300 AMP	SKID MTD	20 HP E	1,608	1.32		0.12	0.22	0.78	7				
7530	400 AMP	SKID MTD	25 HP E	2,044	1.64		0.15	0.27	0.97	8				
7535	600 AMP	SKID MTD	36 HP E	2,648	2.32		0.20	0.36	1.40	15				
GASOLINE ENGINE DRIVE														
7545	200 AMP	W/1 AXLE TRLR	14 HP G	2,130	2.51		0.17	0.32	1.49	11				
7550	250 AMP	W/1 AXLE TRLR	65 HP G	4,094	9.88		0.35	0.66	6.90	17				
7555	300 AMP	W/1 AXLE TRLR	65 HP G	4,192	9.90		0.35	0.67	6.90	17				
7560	400 AMP	W/1 AXLE TRLR	69 HP G	4,901	10.65		0.41	0.79	7.32	21				
7565	650 AMP	W/2 AXLE TRLR	85 HP G	6,205	13.18		0.52	0.99	9.02	22				
DIESEL ENGINE DRIVE														
7575	250 AMP	W/1 AXLE TRLR	38 HP D	5,380	4.12		0.45	0.87	1.93	21				
7580	300 AMP	W/1 AXLE TRLR	38 HP D	5,429	4.14		0.45	0.88	1.93	21				
7585	350 AMP	W/2 AXLE TRLR	63 HP D	6,874	6.18		0.57	1.10	3.20	25				
7590	400 AMP	W/2 AXLE TRLR	64 HP D	6,690	6.18		0.55	1.07	3.25	30				
RECTIFIER														
7600	250 AMP	W/SHOP RUNNING GEAR	19 HP E	1,433	1.24		0.11	0.20	0.74	4				
7605	300 AMP	W/SHOP RUNNING GEAR	24 HP E	1,545	1.51		0.12	0.21	0.94	6				
7610	500 AMP	W/SHOP RUNNING GEAR	30 HP E	1,966	1.89		0.15	0.27	1.17	7				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL		
WELDERS (CONT'D) *****											
7615	750 AMP W/SHOP RUNNING GEAR	42 HP E	3,247	2.74		0.25	0.44	1.64		10	
RECTIFIER (CONT'D) *****											
7625	250 AMP W/SHOP RUNNING GEAR	19 HP E	761	1.10		0.06	0.10	0.74		4	
7630	300 AMP W/SHOP RUNNING GEAR	24 HP E	1,260	1.46		0.10	0.17	0.94		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 1977, 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 (.76)	= (+) \$19.00/Hr.
Adjusted Total Hourly Rate	= \$39.00/Hr.

B. If an equivalent crane owned by a Contractor had been purchased new in 1968, 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 (.41)	= (+) \$10.25/Hr.
Adjusted Total Hourly Rate	= \$30.25/Hr.

C. If an equivalent crane, manufactured in 1968, had been purchased used in 1976 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 1977, had been purchased used in 1980 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												
		1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
15	AGGREGATE SPREADERS	1.14	1.09	1.00	0.91	0.83	0.76	0.70						
30	AIR COMPRESSORS	0.99	0.96	1.00	0.92	0.81	0.77	0.69						
45	AIR TOOLS & EQUIP, TAMPER ETC	0.99	0.96	1.00										
60	ASPHALT DISTRIBUTORS	1.15	1.10	1.00	0.90	0.82	0.75	0.68						
65	ASPHALT AND CONCRETE PAVERS	1.14	1.09	1.00	0.91	0.83	0.77	0.70						
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
80	BRUSH CHIPPERS	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
90	BUCKETS, CLAMSHELL & DRAGLINE	1.13	1.09	1.00	0.83	0.74	0.67	0.61						
95	BUCKETS, CONCRETE	1.13	1.09	1.00	0.83	0.74	0.67	0.61						
105	CONCRETE OR GROUT PUMP	1.21	1.12	1.00	0.87	0.78	0.70							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
125	CONCRETE MIXERS & BUGGIES	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
135	CONCRETE VIBRATORS	0.99	0.96	1.00										
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	0.99	0.96	1.00	0.92									
150	0 THRU 25 TON	1.16	1.09	1.00	0.89	0.81	0.75	0.70	0.63	0.51				
165	OVER 25 TON THRU 50 TON	1.16	1.09	1.00	0.90	0.81	0.75	0.70	0.64	0.51	0.43			
170	OVER 50 TON THRU 150 TON	1.16	1.09	1.00	0.90	0.82	0.76	0.71	0.64	0.52	0.44	0.42	0.41	
180	OVER 150 TON	1.16	1.08	1.00	0.90	0.82	0.76	0.71	0.65	0.53	0.45	0.43	0.41	0.39
	DRAGLINE & CLAMSHELL, CRAWLER													
185	0 THRU 1 CY	1.16	1.09	1.00	0.89	0.81	0.75	0.69	0.63					
190	OVER 1 CY THRU 2-1/2 CY	1.16	1.09	1.00	0.90	0.81	0.75	0.70	0.64	0.51	0.43			
195	OVER 2-1/2 CY THRU 5 CY	1.16	1.09	1.00	0.90	0.82	0.76	0.71	0.64	0.52	0.44	0.42	0.41	
196	OVER 5 CY	1.16	1.08	1.00	0.90	0.82	0.76	0.71	0.65	0.53	0.45	0.43	0.41	0.39
200	CRANES, HYDRAULIC, SELF-PROPELLED	1.16	1.09	1.00	0.89	0.81	0.75	0.70	0.63	0.51	0.42	0.41		
	CRANES & HYD. EXC., TRK MTD													
210	UNDER 26 T. (THRU 1 CY)	1.16	1.09	1.00	0.90	0.81	0.75	0.70	0.64	0.51	0.43			
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.16	1.09	1.00	0.90	0.82	0.76	0.71	0.64	0.52	0.44	0.42	0.41	
230	66 THRU 125 T	1.16	1.08	1.00	0.90	0.82	0.76	0.71	0.65	0.53	0.45	0.43	0.41	0.39
240	OVER 125 T	1.15	1.08	1.00	0.90	0.82	0.76	0.71	0.65	0.53	0.45	0.44	0.42	0.40
255	DRILL, AUGER	1.26	1.16	1.00	0.86	0.80	0.72	0.69						
270	DRILL, BLAST HOLE	1.26	1.16	1.00	0.86	0.80	0.72	0.69						
300	DRILL, CORE	1.26	1.16	1.00	0.86	0.80	0.72	0.69						
315	DRILL, ROTARY TO 11" DIA. HOLE	1.25	1.15	1.00	0.87	0.81	0.73	0.70	0.66	0.57	0.51			
330	DRILL, ROTARY OVER 11" DIA.	1.24	1.15	1.00	0.87	0.81	0.74	0.71	0.67	0.59	0.53	0.50	0.49	0.47
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.24	1.15	1.00	0.87	0.81	0.74	0.71	0.67	0.59	0.53	0.50	0.49	0.47
375	FORK LIFTS	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
390	GRADERS	1.21	1.11	1.00	0.88	0.81	0.72	0.66	0.61					
420	GENERATORS	1.31	1.20	1.00	0.82	0.78	0.70	0.67						
435	HOIST	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
	HYD. EXCAVATOR (SEE KEY NO. 570-601)													
440	LIGHT PLANTS	1.22	1.13	1.00	0.86	0.77	0.68	0.62						
450	LOADER, BELT	1.22	1.13	1.00	0.86	0.76	0.68	0.62						
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE, CRAWLER TYPE	1.23	1.14	1.00	0.87	0.79	0.72	0.65						
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.31	1.20	1.00	0.87	0.77	0.69	0.62						
470	OVER 225 HP	1.30	1.19	1.00	0.87	0.79	0.70	0.64	0.61					
475	LOADER, FRONT END WITH BACKHOE, WHEEL TYPE	1.31	1.20	1.00	0.87	0.77	0.69	0.62						
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.21	1.13	1.00	0.86									
485	PIPELAYERS PUMP, GROUT (SEE KEY NO. 105)	1.19	1.10	1.00	0.88	0.79	0.70	0.63	0.58					

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
495	PUMP, WATER, ENGINE DRIVE	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
500	PUMP, WATER, ELECTRIC DRIVE	1.20	1.12	1.00	0.87	0.78	0.70	0.65						
510	RIPPERS	1.19	1.11	1.00	0.88	0.78	0.69							
525	ROLLERS, EXCEPT VIB. ROLLERS	1.22	1.10	1.00	0.81	0.72	0.63	0.57						
530	ROLLERS, VIBRATORY	1.24	1.10	1.00	0.80	0.70	0.61							
540	SCRAPERS, STANDARD	1.21	1.11	1.00	0.88	0.81	0.72	0.66						
542	SCRAPERS, TANDEM POWERED	1.21	1.11	1.00	0.88	0.81	0.72	0.66						
	SCRAPERS, ELEVATING													
545	0 THRU 200 HP	1.21	1.11	1.00	0.88	0.81	0.72	0.66						
550	OVER 200 HP	1.21	1.11	1.00	0.88	0.81	0.72	0.66						
555	SCRAPERS, TRACTOR DRAWN	1.21	1.11	1.00	0.89	0.81	0.73	0.67	0.62					
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED													
570	0 THRU 1 CY	1.17	1.09	1.00	0.89	0.81	0.74	0.69	0.62					
585	OVER 1 CY THRU 2-1/2 CY	1.16	1.09	1.00	0.89	0.81	0.75	0.70	0.63	0.51				
595	OVER 2-1/2 CY THRU 5 CY	1.16	1.09	1.00	0.90	0.82	0.75	0.70	0.64	0.52	0.43	0.42		
600	OVER 5 CY	1.16	1.09	1.00	0.90	0.82	0.76	0.71	0.64	0.52	0.44	0.42	0.41	
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.15	1.08	1.00	0.90	0.82	0.76	0.71	0.65	0.53	0.45	0.44	0.42	0.40
615	0 THRU 225 HP	1.20	1.11	1.00	0.88	0.77	0.68	0.61						
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.19	1.10	1.00	0.88	0.79	0.70	0.63	0.58					
625	OVER 425 HP	1.18	1.10	1.00	0.89	0.79	0.71	0.64	0.59	0.47	0.39			
630	TRACTOR BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.19	1.10	1.00	0.89	0.79	0.70	0.63						
645	TRACTOR, WHEEL TYPE	1.25	1.13	1.00	0.86	0.76	0.69	0.62						
650	TRENCHER	1.28	1.16	1.00	0.86	0.79	0.69	0.55						
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.21	1.13	1.00	0.86	0.77	0.69	0.63						
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.22	1.13	1.00	0.86	0.76	0.68	0.62						
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING													
670	DUMP BODIES	1.21	1.12	1.00	0.87	0.78	0.70							
675	ALL OTHER ACCESSORIES	1.21	1.12	1.00	0.87	0.78	0.70							
	TRUCK, HIGHWAY													
690	0 THRU 10,000 GVW	1.34	1.15	1.00	0.89	0.80	0.72							
695	OVER 10,000 THRU 30,000 GVW	1.34	1.15	1.00	0.89	0.80	0.72							
705	OVER 30,000 GVW	1.34	1.15	1.00	0.89	0.80	0.72							
720	TRUCK, OFF-HIGHWAY	1.26	1.15	1.00	0.86	0.77	0.71	0.67	0.62					
765	WAGON, BOTTOM DUMP & WATER	1.26	1.15	1.00	0.86	0.77	0.71	0.67	0.62					
780	WAGON, REAR DUMP	1.26	1.15	1.00	0.86	0.77	0.71	0.67	0.62					
785	WATER BLASTER	1.21	1.13	1.00	0.86									
795	WATER TANKS	1.20	1.12	1.00	0.87	0.78	0.71	0.65	0.60					
810	WELDERS	1.23	1.14	1.00	0.85									
811	WELDERS ELECTRIC POWER	1.23	1.13	1.00	0.86	0.76	0.67							

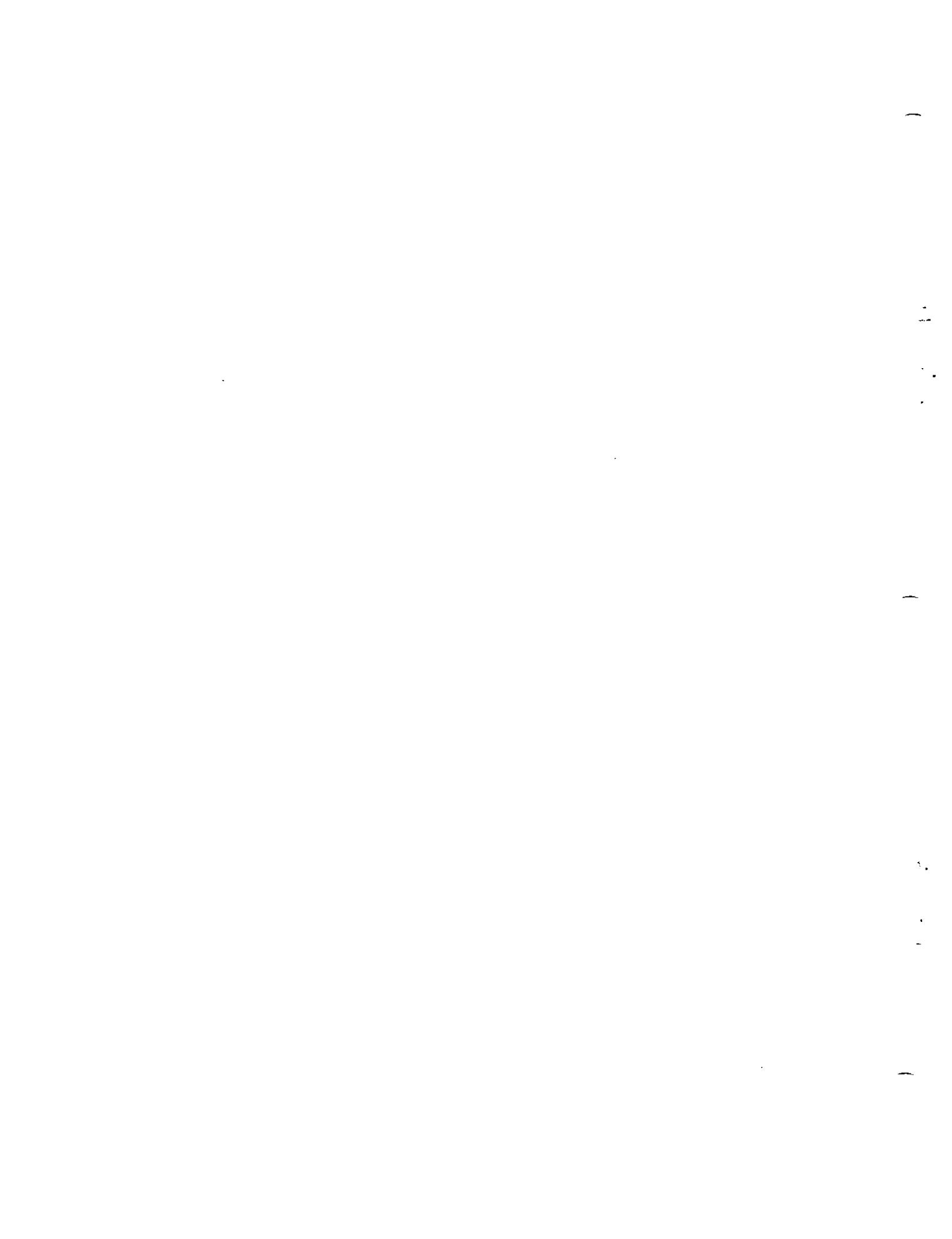


TABLE 3-3. EQUIPMENT AGE ADJUSTMENT FACTORS FOR STANDBY COSTS

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 1977, 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 (.79) = \$12.64/Hr.

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
15	AGGREGATE SPREADERS	1.12	1.08	1.00	0.92	0.85	0.80	0.74						
30	AIR COMPRESSORS	0.99	0.96	1.00	0.93	0.83	0.80	0.73						
45	AIR TOOLS & EQUIP., TAMPERS ETC	0.99	0.96	1.00										
60	ASPHALT DISTRIBUTORS	1.12	1.08	1.00	0.92	0.85	0.80	0.74						
65	ASPHALT AND CONCRETE PAVERS	1.12	1.08	1.00	0.92	0.85	0.80	0.74						
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
80	BRUSH CHIPPERS	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
90	BUCKETS, CLAMSHELL & DRAGLINE	1.12	1.08	1.00	0.85	0.77	0.71	0.66						
95	BUCKETS, CONCRETE	1.12	1.08	1.00	0.85	0.77	0.71	0.66						
105	CONCRETE OR GROUT PUMP	1.18	1.11	1.00	0.88	0.80	0.74							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
125	CONCRETE MIXERS & BUGGIES	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
135	CONCRETE VIBRATORS	0.99	0.96	1.00										
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	0.99	0.96	1.00	0.93									
150	O THRU 25 TON	1.14	1.08	1.00	0.91	0.84	0.78	0.74	0.68	0.57				
165	OVER 25 TON THRU 50 TON	1.14	1.08	1.00	0.91	0.84	0.78	0.74	0.68	0.58	0.50			
170	OVER 50 TON THRU 150 TON	1.14	1.08	1.00	0.91	0.84	0.79	0.74	0.69	0.58	0.51	0.50	0.48	
180	OVER 150 TON	1.14	1.07	1.00	0.91	0.84	0.79	0.75	0.69	0.59	0.52	0.50	0.49	0.46
	DRAGLINE & CLAMSHELL, CRAWLER													
185	O THRU 1 CY	1.14	1.08	1.00	0.91	0.83	0.78	0.73	0.68					
190	OVER 1 CY THRU 2-1/2 CY	1.14	1.08	1.00	0.91	0.84	0.78	0.74	0.68	0.58	0.50			
195	OVER 2-1/2 CY THRU 5 CY	1.14	1.08	1.00	0.91	0.84	0.79	0.74	0.69	0.58	0.51	0.50	0.48	
196	OVER 5 CY	1.14	1.07	1.00	0.91	0.84	0.79	0.75	0.69	0.59	0.52	0.50	0.49	0.46
200	CRANES, HYDRAULIC, SELF- PROPELLED	1.14	1.07	1.00	0.91	0.84	0.79	0.75	0.69	0.59	0.51	0.50		
	CRANES & HYD. EXC., TRK MTD													
210	UNDER 26 T. (THRU 1 CY)	1.14	1.08	1.00	0.91	0.84	0.78	0.74	0.68	0.58	0.50			
225	26 THRU 65 T. (1 TH 2-1/2 CY)	1.14	1.08	1.00	0.91	0.84	0.79	0.74	0.69	0.58	0.51	0.50	0.48	
230	66 THRU 125 T	1.14	1.07	1.00	0.91	0.84	0.79	0.75	0.69	0.59	0.52	0.50	0.49	0.46
240	OVER 125 T	1.13	1.07	1.00	0.91	0.84	0.79	0.75	0.69	0.59	0.52	0.51	0.49	0.47
255	DRILL, AUGER	1.23	1.14	1.00	0.88	0.82	0.76	0.73						
270	DRILL, BLAST HOLE	1.23	1.14	1.00	0.88	0.82	0.76	0.73						
300	DRILL, CORE	1.23	1.14	1.00	0.88	0.82	0.76	0.73						
315	DRILL, ROTARY TO 11" DIA. HOLE	1.22	1.13	1.00	0.89	0.83	0.77	0.74	0.71	0.63	0.58			
330	DRILL, ROTARY OVER 11" DIA.	1.21	1.13	1.00	0.89	0.84	0.77	0.75	0.72	0.64	0.59	0.57	0.56	0.54
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.21	1.13	1.00	0.89	0.84	0.77	0.75	0.72	0.64	0.59	0.57	0.56	0.54
375	FORK LIFTS	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
390	GRADERS	1.18	1.09	1.00	0.90	0.84	0.77	0.72	0.67					
420	GENERATORS	1.24	1.16	1.00	0.85	0.82	0.76	0.74						
435	HOIST HYD. EXCAVATOR (SEE KEY NO. 570-601)	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
440	LIGHT PLANTS	1.17	1.10	1.00	0.89	0.81	0.75	0.70						
450	LOADER, BELT	1.17	1.10	1.00	0.89	0.81	0.75	0.70						
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE, CRAWLER TYPE	1.19	1.12	1.00	0.89	0.83	0.77	0.71						
	LOADER, WHEEL TYPE													
465	O THRU 225 HP	1.26	1.16	1.00	0.89	0.81	0.74	0.69						
470	OVER 225 HP	1.25	1.16	1.00	0.89	0.82	0.75	0.70	0.67					
475	LOADER, FRONT END WITH BACKHOE, WHEEL TYPE	1.26	1.16	1.00	0.89	0.81	0.74	0.69						
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.19	1.11	1.00	0.88									
485	PIPELAYERS PUMP, GROUT (SEE KEY NO. 105)	1.16	1.09	1.00	0.90	0.82	0.75	0.69	0.65					

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
495	PUMP, WATER, ENGINE DRIVE	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
500	PUMP, WATER, ELECTRIC DRIVE	1.18	1.10	1.00	0.89	0.81	0.74	0.69						
510	RIPPERS	1.17	1.09	1.00	0.90	0.81	0.73							
525	ROLLERS, EXCEPT VIB. ROLLERS	1.19	1.08	1.00	0.84	0.76	0.68	0.63						
530	ROLLERS, VIBRATORY	1.20	1.09	1.00	0.83	0.75	0.67							
540	SCRAPERS, STANDARD	1.18	1.09	1.00	0.90	0.84	0.76	0.71						
542	SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING	1.18	1.09	1.00	0.90	0.84	0.76	0.71						
545	O THRU 200 HP	1.18	1.09	1.00	0.90	0.84	0.76	0.71						
550	OVER 200 HP	1.18	1.09	1.00	0.90	0.84	0.76	0.71						
555	SCRAPERS, TRACTOR DRAWN SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED	1.18	1.09	1.00	0.90	0.84	0.77	0.72	0.67					
570	O THRU 1 CY	1.14	1.08	1.00	0.91	0.83	0.78	0.73	0.67					
585	OVER 1 CY THRU 2-1/2 CY	1.14	1.08	1.00	0.91	0.84	0.78	0.74	0.68	0.57				
595	OVER 2-1/2 CY THRU 5 CY	1.14	1.08	1.00	0.91	0.84	0.78	0.74	0.69	0.58	0.51	0.49		
600	OVER 5 CY	1.14	1.08	1.00	0.91	0.84	0.79	0.74	0.69	0.58	0.51	0.50	0.48	
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.13	1.07	1.00	0.91	0.84	0.79	0.75	0.69	0.59	0.52	0.51	0.49	0.47
615	O THRU 225 HP	1.16	1.09	1.00	0.90	0.82	0.74	0.68						
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.16	1.09	1.00	0.90	0.82	0.75	0.69	0.65					
625	OVER 425 HP	1.16	1.09	1.00	0.90	0.82	0.75	0.69	0.65	0.54	0.47			
630	TRACTOR BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.16	1.09	1.00	0.90	0.82	0.74	0.68						
645	TRACTOR, WHEEL TYPE	1.22	1.11	1.00	0.88	0.80	0.73	0.68						
650	TRENCHER	1.24	1.14	1.00	0.88	0.82	0.74	0.61						
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.18	1.10	1.00	0.89	0.81	0.75	0.70						
660	TRAILERS, FLATBED, LO-BOY AND TILT TRUCK ACCESSORIES FOR CHASSIS MOUNTING	1.17	1.10	1.00	0.89	0.81	0.75	0.70						
670	DUMP BODIES	1.18	1.11	1.00	0.88	0.80	0.74							
675	ALL OTHER ACCESSORIES	1.18	1.11	1.00	0.88	0.80	0.74							
690	TRACTOR, HIGHWAY O THRU 10,000 GVW	1.29	1.13	1.00	0.91	0.83	0.76							
695	OVER 10,000 THRU 30,000 GVW	1.29	1.13	1.00	0.91	0.83	0.76							
705	OVER 30,000 GVW	1.29	1.13	1.00	0.91	0.83	0.76							
720	TRUCK, OFF-HIGHWAY	1.22	1.13	1.00	0.88	0.81	0.75	0.72	0.68					
765	WAGON, BOTTOM DUMP & WATER	1.22	1.13	1.00	0.88	0.81	0.75	0.72	0.68					
780	WAGON, REAR DUMP	1.22	1.13	1.00	0.88	0.81	0.75	0.72	0.68					
785	WATER BLASTER	1.19	1.11	1.00	0.88									
795	WATER TANKS	1.17	1.10	1.00	0.89	0.81	0.75	0.70	0.66					
810	WELDERS	1.19	1.11	1.00	0.88									
811	WELDERS ELECTRIC POWER	1.18	1.11	1.00	0.88	0.80	0.74							

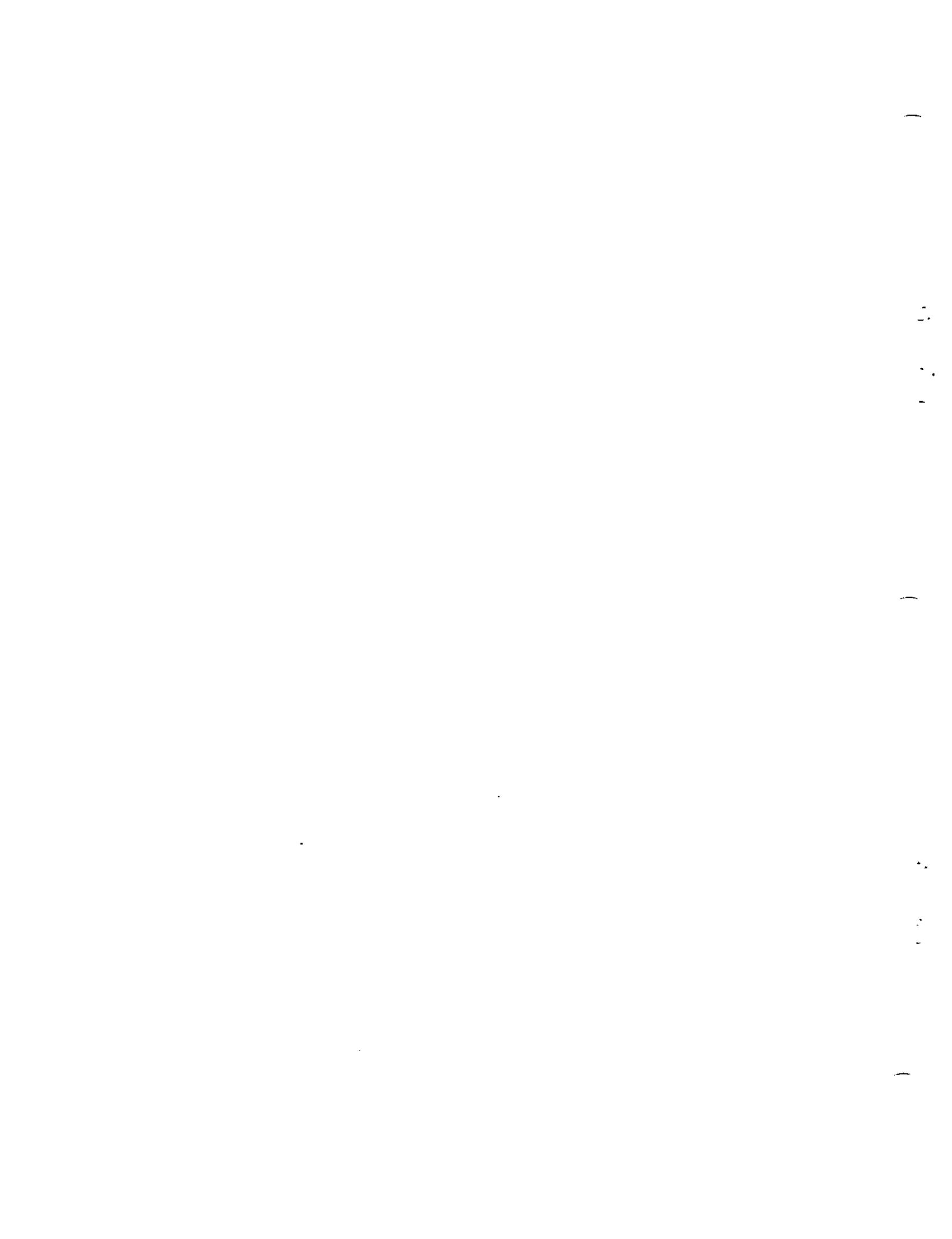


TABLE 3-4. SHIFT ADJUSTMENT FACTORS FOR OWNERSHIP COSTS

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)	= \$39.00/Hr.
Ownership Rate (adjusted for age)	(-) \$19.00/Hr.
Ownership Adjusted for Work Hours (Ownership Rate) x (Work Hr Adj. Factor)	
= (\$19.00) x (.82)	= (+) \$15.58/Hr.
Adjusted Total Hourly Rate	= <u>\$35.58/Hr.</u>

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	0.97	0.96	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83
6,000	1.00	0.97	0.95	0.92	0.90	0.88	0.87	0.85	0.83	0.82	0.81	0.80	0.78
8,000	1.00	0.96	0.94	0.91	0.88	0.86	0.84	0.82	0.80	0.78	0.77	0.76	0.74
9,000	1.00	0.96	0.94	0.90	0.87	0.85	0.83	0.81	0.79	0.77	0.76	0.74	0.73
10,000	1.00	0.95	0.93	0.89	0.86	0.84	0.82	0.80	0.77	0.76	0.74	0.73	0.71
11,000	1.00	0.95	0.93	0.89	0.86	0.83	0.81	0.79	0.76	0.74	0.73	0.71	0.69
12,000	1.00	0.95	0.93	0.88	0.85	0.82	0.80	0.78	0.75	0.73	0.71	0.70	0.68
13,000	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
14,000	1.00	0.95	0.92	0.87	0.84	0.81	0.78	0.76	0.73	0.71	0.69	0.68	0.65
15,000	1.00	0.94	0.92	0.87	0.83	0.80	0.78	0.75	0.72	0.70	0.68	0.67	0.64
16,000	1.00	0.94	0.91	0.87	0.83	0.80	0.77	0.74	0.71	0.69	0.67	0.66	0.63
18,000	1.00	0.94	0.91	0.86	0.82	0.79	0.76	0.73	0.70	0.67	0.65	0.64	0.61
20,000	1.00	0.94	0.91	0.85	0.81	0.78	0.75	0.72	0.68	0.66	0.64	0.62	0.59
22,000	1.00	0.93	0.90	0.85	0.80	0.77	0.74	0.70	0.67	0.65	0.62	0.61	0.58
50,000	1.00	0.92	0.87	0.80	0.75	0.70	0.66	0.62	0.58	0.54	0.52	0.49	0.46

TABLE 3-5. HOURLY RATE ELEMENTS

UNIT NO	AVERAGE CONDITIONS						TOTAL RATE	SEVERE CONDITIONS						TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	RPR		DEPR	CFC	FUEL	FOG	TIRE WEAR	RPR	
1010	3.27	2.20	12.49	3.00	0.24	0.04	3.44							24.68
1015	3.61	2.43	4.37	1.05	0.24	0.04	3.80							15.54
1030	0.54	0.37	4.06	1.30	0.02	0.00	0.57							6.86
1035	0.76	0.53	1.56	0.44	0.02	0.00	0.82							4.13
1040	0.72	0.50	4.32	1.38	0.02	0.00	0.77							7.71
1045	0.86	0.60	1.81	0.51	0.02	0.00	0.93							4.73
1050	0.82	0.57	6.05	1.94	0.02	0.00	0.88							10.28
1055	0.96	0.67	2.09	0.59	0.02	0.00	1.03							5.36
1060	1.02	0.71	6.05	1.94	0.02	0.00	1.09							10.83
1065	1.20	0.83	2.83	0.79	0.02	0.00	1.29							6.96
1070	1.11	0.77	6.05	1.94	0.02	0.00	1.19							11.08
1075	1.31	0.90	2.83	0.79	0.02	0.00	1.40							7.25
1080	2.53	1.75	4.23	1.18	0.05	0.01	2.72							12.47
1085	3.36	2.32	5.91	1.65	0.05	0.01	3.61							16.91
1090	4.28	2.95	7.18	2.01	0.05	0.01	4.58							21.06
1095	5.42	3.73	9.36	2.62	0.06	0.01	5.80							27.00
1100	5.65	3.89	10.26	2.87	0.06	0.01	6.05							28.79
1105	5.91	4.07	11.08	3.10	0.06	0.01	6.33							30.56
1110	7.06	4.88	11.61	3.25	0.11	0.02	7.57							34.50
1115	7.75	5.35	13.34	3.73	0.17	0.02	8.30							38.60
1120	10.14	6.99	18.71	5.24	0.11	0.02	10.86							52.07
1130	0.18	0.05	0.00	0.06	0.00	0.00	0.31							0.60
1135	0.41	0.12	0.00	0.10	0.00	0.00	0.68							1.31
1140	0.19	0.05	0.00	0.06	0.00	0.00	0.32							0.62
1145	0.20	0.06	0.00	0.06	0.00	0.00	0.34							0.66
1150	0.22	0.06	0.00	0.06	0.00	0.00	0.37							0.71
1155	0.75	0.21	0.00	0.12	0.00	0.00	1.25							2.33
1165	0.26	0.07	0.00	0.06	0.00	0.00	0.43							0.82
1170	0.48	0.14	0.00	0.06	0.00	0.00	0.81							1.49
1175	0.49	0.14	0.00	0.06	0.00	0.00	0.82							1.51
1180	0.54	0.15	0.00	0.12	0.00	0.00	0.91							1.72
1185	0.72	0.20	0.00	0.12	0.00	0.00	1.20							2.24
1190	2.03	0.59	0.00	0.25	0.05	0.01	3.42							6.35
1195	2.37	0.72	0.00	0.35	0.11	0.02	4.02							7.59
1200	2.99	0.89	0.00	0.45	0.11	0.02	5.05							9.51
1210	0.36	0.10	0.00	0.15	0.00	0.00	1.00							1.61
1215	0.23	0.07	0.00	0.12	0.00	0.00	0.64							1.06
1220	0.21	0.06	0.00	0.09	0.00	0.00	0.58							0.94
1225	0.19	0.05	0.00	0.07	0.00	0.00	0.52							0.83
1230	0.15	0.04	0.00	0.06	0.00	0.00	0.41							0.66
1240	1.45	1.19	4.32	1.38	0.00	0.00	1.89							10.23
1245	1.50	1.23	4.32	1.38	0.00	0.00	1.96							10.39
1250	1.61	1.32	4.32	1.38	0.00	0.00	2.10							10.73
1255	1.85	1.52	4.32	1.38	0.00	0.00	2.41							11.48
1265	5.58	3.81	2.87	0.80	0.98	0.15	6.64							20.83
1270	8.13	5.54	3.90	1.09	1.26	0.19	9.67							29.78
1275	9.34	6.34	5.34	1.49	1.42	0.21	11.11							35.25
1280	11.64	7.63	5.34	1.49	0.00	0.00	13.73							39.83
1290	0.36	0.24	0.00	0.15	0.02	0.00	0.45							1.22
1295	0.48	0.33	2.59	0.62	0.02	0.00	0.61							4.65
1300	0.17	0.11	0.00	0.15	0.00	0.00	0.21							0.64
1305	0.28	0.19	0.00	0.10	0.00	0.00	0.35							0.92
1315	0.70	0.47	9.10	2.91	0.02	0.00	0.87							14.07
1320	0.80	0.54	9.94	3.18	0.02	0.00	1.01							15.49
1325	0.35	0.23	0.00	0.00	0.00	0.00	0.44							1.02

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIKE	TIKE	WEAR	RPR	DEPR	CFC	FUEL	FOG	TIKE	TIKE	WEAR	RPR
1335	0.62	0.40	0.00	0.00	0.00	0.00	0.64	1.66	0.77	0.41	0.00	0.00	0.00	0.00	0.90	2.08
1340	0.72	0.47	0.00	0.00	0.00	0.00	0.75	1.94	0.90	0.48	0.00	0.00	0.00	0.00	1.05	2.43
1345	1.06	0.69	0.00	0.00	0.00	0.00	1.10	2.85	1.33	0.71	0.00	0.00	0.00	0.00	1.55	3.59
1350	1.20	0.78	0.00	0.00	0.00	0.00	1.25	3.23	1.50	0.80	0.00	0.00	0.00	0.00	1.75	4.05
1355	1.56	1.02	0.00	0.00	0.00	0.00	1.62	4.20	1.96	1.05	0.00	0.00	0.00	0.00	2.28	5.29
1360	1.66	1.08	0.00	0.00	0.00	0.00	1.72	4.46	2.07	1.11	0.00	0.00	0.00	0.00	2.42	5.60
1365	1.69	1.11	0.00	0.00	0.00	0.00	1.76	4.56	2.12	1.13	0.00	0.00	0.00	0.00	2.47	5.72
1370	1.87	1.22	0.00	0.00	0.00	0.00	1.94	5.03	2.33	1.25	0.00	0.00	0.00	0.00	2.72	6.30
1375	2.02	1.32	0.00	0.00	0.00	0.00	2.09	5.43	2.52	1.35	0.00	0.00	0.00	0.00	2.94	6.81
1380	2.18	1.43	0.00	0.00	0.00	0.00	2.27	5.88	2.73	1.46	0.00	0.00	0.00	0.00	3.19	7.38
1385	2.36	1.54	0.00	0.00	0.00	0.00	2.45	6.35	2.95	1.57	0.00	0.00	0.00	0.00	3.44	7.96
1390	2.44	1.59	0.00	0.00	0.00	0.00	2.53	6.56	3.05	1.63	0.00	0.00	0.00	0.00	3.56	8.24
1395	2.64	1.72	0.00	0.00	0.00	0.00	2.74	7.10	3.30	1.76	0.00	0.00	0.00	0.00	3.85	8.91
1400	2.72	1.78	0.00	0.00	0.00	0.00	2.82	7.32	3.40	1.82	0.00	0.00	0.00	0.00	3.97	9.19
1405	2.82	1.84	0.00	0.00	0.00	0.00	2.93	7.59	3.52	1.88	0.00	0.00	0.00	0.00	4.12	9.52
1415	0.65	0.42	0.00	0.00	0.00	0.00	0.67	1.74	0.81	0.43	0.00	0.00	0.00	0.00	0.95	2.19
1420	0.88	0.57	0.00	0.00	0.00	0.00	0.91	2.36	1.10	0.59	0.00	0.00	0.00	0.00	1.28	2.97
1425	1.27	0.83	0.00	0.00	0.00	0.00	1.32	3.42	1.59	0.85	0.00	0.00	0.00	0.00	1.86	4.30
1430	1.37	0.90	0.00	0.00	0.00	0.00	1.43	3.70	1.72	0.92	0.00	0.00	0.00	0.00	2.01	4.65
1435	1.75	1.14	0.00	0.00	0.00	0.00	1.81	4.70	2.18	1.17	0.00	0.00	0.00	0.00	2.55	5.90
1440	1.91	1.25	0.00	0.00	0.00	0.00	1.98	5.14	2.39	1.28	0.00	0.00	0.00	0.00	2.79	6.46
1445	2.06	1.35	0.00	0.00	0.00	0.00	2.14	5.55	2.57	1.38	0.00	0.00	0.00	0.00	3.01	6.96
1450	2.21	1.45	0.00	0.00	0.00	0.00	2.30	5.96	2.77	1.48	0.00	0.00	0.00	0.00	3.23	7.48
1455	2.37	1.55	0.00	0.00	0.00	0.00	2.47	6.39	2.97	1.59	0.00	0.00	0.00	0.00	3.47	8.03
1460	2.61	1.71	0.00	0.00	0.00	0.00	2.71	7.03	3.27	1.75	0.00	0.00	0.00	0.00	3.81	8.83
1465	2.76	1.80	0.00	0.00	0.00	0.00	2.86	7.42	3.45	1.84	0.00	0.00	0.00	0.00	4.02	9.31
1470	2.92	1.91	0.00	0.00	0.00	0.00	3.03	7.86	3.65	1.95	0.00	0.00	0.00	0.00	4.26	9.86
1475	3.04	1.99	0.00	0.00	0.00	0.00	3.16	8.19	3.80	2.03	0.00	0.00	0.00	0.00	4.44	10.27
1480	3.17	2.07	0.00	0.00	0.00	0.00	3.29	8.53	3.96	2.12	0.00	0.00	0.00	0.00	4.62	10.70
1485	3.29	2.15	0.00	0.00	0.00	0.00	3.42	8.86	4.11	2.20	0.00	0.00	0.00	0.00	4.81	11.12
1495	0.98	0.64	0.00	0.00	0.00	0.00	1.02	2.64	1.23	0.66	0.00	0.00	0.00	0.00	1.43	3.32
1500	1.00	0.65	0.00	0.00	0.00	0.00	1.04	2.69	1.25	0.67	0.00	0.00	0.00	0.00	1.46	3.38
1505	1.49	0.97	0.00	0.00	0.00	0.00	1.54	4.00	1.86	0.99	0.00	0.00	0.00	0.00	2.17	5.02
1510	1.80	1.18	0.00	0.00	0.00	0.00	1.87	4.85	2.25	1.20	0.00	0.00	0.00	0.00	2.63	6.08
1515	2.01	1.31	0.00	0.00	0.00	0.00	2.08	5.40	2.51	1.34	0.00	0.00	0.00	0.00	2.93	6.78
1520	2.18	1.42	0.00	0.00	0.00	0.00	2.26	5.86	2.72	1.46	0.00	0.00	0.00	0.00	3.18	7.36
1525	2.29	1.50	0.00	0.00	0.00	0.00	2.38	6.17	2.86	1.53	0.00	0.00	0.00	0.00	3.34	7.73
1530	2.43	1.59	0.00	0.00	0.00	0.00	2.52	6.54	3.03	1.62	0.00	0.00	0.00	0.00	3.54	8.19
1535	2.54	1.66	0.00	0.00	0.00	0.00	2.64	6.84	3.18	1.70	0.00	0.00	0.00	0.00	3.71	8.59
1540	2.72	1.78	0.00	0.00	0.00	0.00	2.83	7.33	3.41	1.82	0.00	0.00	0.00	0.00	3.98	9.21
1545	2.88	1.88	0.00	0.00	0.00	0.00	2.99	7.75	3.60	1.93	0.00	0.00	0.00	0.00	4.21	9.74
1550	3.03	1.98	0.00	0.00	0.00	0.00	3.15	8.16	3.79	2.03	0.00	0.00	0.00	0.00	4.43	10.25
1555	3.28	2.15	0.00	0.00	0.00	0.00	3.41	8.84	4.11	2.19	0.00	0.00	0.00	0.00	4.79	11.09
1560	3.38	2.21	0.00	0.00	0.00	0.00	3.51	9.10	4.23	2.26	0.00	0.00	0.00	0.00	4.94	11.43
1565	3.54	2.32	0.00	0.00	0.00	0.00	3.68	9.54	4.43	2.37	0.00	0.00	0.00	0.00	5.17	11.97
1575	0.09	0.06	0.00	0.00	0.00	0.00	0.10	0.25								
1580	0.12	0.08	0.00	0.00	0.00	0.00	0.12	0.32								
1585	0.15	0.10	0.00	0.00	0.00	0.00	0.16	0.41								
1590	0.21	0.14	0.00	0.00	0.00	0.00	0.22	0.57								
1595	0.27	0.18	0.00	0.00	0.00	0.00	0.28	0.73								
1605	0.41	0.27	0.00	0.00	0.00	0.00	0.42	1.10								
1610	0.42	0.28	0.00	0.00	0.00	0.00	0.44	1.14								
1615	0.44	0.29	0.00	0.00	0.00	0.00	0.45	1.18								
1620	0.57	0.37	0.00	0.00	0.00	0.00	0.59	1.53								
1625	0.59	0.39	0.00	0.00	0.00	0.00	0.62	1.60								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
1630	0.86	0.56	0.00	0.00	0.00	0.00	0.89	2.31								
1635	1.03	0.67	0.00	0.00	0.00	0.00	1.07	2.77								
1645	0.46	0.30	0.00	0.00	0.00	0.00	0.48	1.24								
1650	0.52	0.34	0.00	0.00	0.00	0.00	0.54	1.40								
1655	0.60	0.39	0.00	0.00	0.00	0.00	0.62	1.61								
1660	0.66	0.43	0.00	0.00	0.00	0.00	0.69	1.78								
1665	0.78	0.51	0.00	0.00	0.00	0.00	0.81	2.10								
1680	0.21	0.14	0.00	0.00	0.00	0.00	0.21	0.56	0.26	0.14	0.00	0.00	0.00	0.00	0.30	0.70
1685	0.25	0.16	0.00	0.00	0.00	0.00	0.25	0.66	0.31	0.16	0.00	0.00	0.00	0.00	0.36	0.83
1690	0.30	0.20	0.00	0.00	0.00	0.00	0.31	0.81	0.37	0.20	0.00	0.00	0.00	0.00	0.44	1.01
1695	0.35	0.23	0.00	0.00	0.00	0.00	0.37	0.95	0.44	0.24	0.00	0.00	0.00	0.00	0.52	1.20
1700	0.42	0.27	0.00	0.00	0.00	0.00	0.43	1.12	0.52	0.28	0.00	0.00	0.00	0.00	0.61	1.41
1705	0.51	0.33	0.00	0.00	0.00	0.00	0.53	1.37	0.64	0.34	0.00	0.00	0.00	0.00	0.75	1.73
1710	0.57	0.37	0.00	0.00	0.00	0.00	0.59	1.53	0.71	0.38	0.00	0.00	0.00	0.00	0.83	1.92
1715	0.69	0.45	0.00	0.00	0.00	0.00	0.72	1.86	0.86	0.46	0.00	0.00	0.00	0.00	1.01	2.33
1720	0.73	0.48	0.00	0.00	0.00	0.00	0.76	1.97	0.92	0.49	0.00	0.00	0.00	0.00	1.07	2.48
1725	0.88	0.58	0.00	0.00	0.00	0.00	0.92	2.38	1.10	0.59	0.00	0.00	0.00	0.00	1.29	2.98
1730	0.96	0.63	0.00	0.00	0.00	0.00	0.99	2.58	1.20	0.64	0.00	0.00	0.00	0.00	1.40	3.24
1735	1.05	0.68	0.00	0.00	0.00	0.00	1.09	2.82	1.31	0.70	0.00	0.00	0.00	0.00	1.53	3.54
1740	1.16	0.76	0.00	0.00	0.00	0.00	1.21	3.13	1.45	0.78	0.00	0.00	0.00	0.00	1.69	3.92
1745	1.34	0.88	0.00	0.00	0.00	0.00	1.39	3.61	1.68	0.90	0.00	0.00	0.00	0.00	1.96	4.54
1750	1.46	0.95	0.00	0.00	0.00	0.00	1.51	3.92	1.82	0.97	0.00	0.00	0.00	0.00	2.13	4.92
1755	1.79	1.17	0.00	0.00	0.00	0.00	1.86	4.82	2.24	1.20	0.00	0.00	0.00	0.00	2.62	6.06
1760	2.06	1.35	0.00	0.00	0.00	0.00	2.14	5.55	2.58	1.38	0.00	0.00	0.00	0.00	3.01	6.97
1770	0.24	0.16	0.00	0.00	0.00	0.00	0.25	0.65	0.30	0.16	0.00	0.00	0.00	0.00	0.35	0.81
1775	0.30	0.19	0.00	0.00	0.00	0.00	0.31	0.80	0.37	0.20	0.00	0.00	0.00	0.00	0.43	1.00
1780	0.37	0.24	0.00	0.00	0.00	0.00	0.38	0.99	0.46	0.24	0.00	0.00	0.00	0.00	0.53	1.23
1785	0.44	0.28	0.00	0.00	0.00	0.00	0.45	1.17	0.54	0.29	0.00	0.00	0.00	0.00	0.64	1.47
1790	0.50	0.33	0.00	0.00	0.00	0.00	0.52	1.35	0.63	0.34	0.00	0.00	0.00	0.00	0.73	1.70
1795	0.60	0.39	0.00	0.00	0.00	0.00	0.62	1.61	0.75	0.40	0.00	0.00	0.00	0.00	0.88	2.03
1800	0.66	0.43	0.00	0.00	0.00	0.00	0.69	1.78	0.83	0.44	0.00	0.00	0.00	0.00	0.97	2.24
1805	0.80	0.52	0.00	0.00	0.00	0.00	0.83	2.15	0.99	0.53	0.00	0.00	0.00	0.00	1.16	2.68
1810	0.85	0.56	0.00	0.00	0.00	0.00	0.88	2.29	1.06	0.57	0.00	0.00	0.00	0.00	1.24	2.87
1815	1.09	0.71	0.00	0.00	0.00	0.00	1.13	2.93	1.36	0.73	0.00	0.00	0.00	0.00	1.59	3.68
1820	1.13	0.74	0.00	0.00	0.00	0.00	1.17	3.04	1.41	0.75	0.00	0.00	0.00	0.00	1.65	3.81
1825	1.29	0.84	0.00	0.00	0.00	0.00	1.34	3.47	1.61	0.86	0.00	0.00	0.00	0.00	1.88	4.35
1830	1.42	0.93	0.00	0.00	0.00	0.00	1.47	3.82	1.77	0.95	0.00	0.00	0.00	0.00	2.07	4.79
1835	1.70	1.11	0.00	0.00	0.00	0.00	1.76	4.57	2.12	1.13	0.00	0.00	0.00	0.00	2.47	5.72
1840	1.81	1.18	0.00	0.00	0.00	0.00	1.87	4.86	2.26	1.21	0.00	0.00	0.00	0.00	2.64	6.11
1845	2.30	1.50	0.00	0.00	0.00	0.00	2.39	6.19	2.88	1.54	0.00	0.00	0.00	0.00	3.36	7.78
1850	2.56	1.67	0.00	0.00	0.00	0.00	2.66	6.89	3.20	1.71	0.00	0.00	0.00	0.00	3.74	8.65
1860	0.96	0.63	0.00	0.00	0.00	0.00	1.00	2.59	1.21	0.64	0.00	0.00	0.00	0.00	1.41	3.26
1865	1.00	0.66	0.00	0.00	0.00	0.00	1.04	2.70	1.25	0.67	0.00	0.00	0.00	0.00	1.46	3.38
1870	1.12	0.73	0.00	0.00	0.00	0.00	1.17	3.02	1.40	0.75	0.00	0.00	0.00	0.00	1.64	3.79
1875	1.50	0.98	0.00	0.00	0.00	0.00	1.56	4.04	1.88	1.00	0.00	0.00	0.00	0.00	2.19	5.07
1880	1.68	1.10	0.00	0.00	0.00	0.00	1.74	4.52	2.10	1.12	0.00	0.00	0.00	0.00	2.45	5.67
1885	1.73	1.13	0.00	0.00	0.00	0.00	1.80	4.66	2.17	1.16	0.00	0.00	0.00	0.00	2.53	5.86
1890	1.86	1.21	0.00	0.00	0.00	0.00	1.93	5.00	2.32	1.24	0.00	0.00	0.00	0.00	2.71	6.27
1895	2.36	1.54	0.00	0.00	0.00	0.00	2.45	6.35	2.95	1.58	0.00	0.00	0.00	0.00	3.45	7.98
1900	2.43	1.59	0.00	0.00	0.00	0.00	2.52	6.54	3.03	1.62	0.00	0.00	0.00	0.00	3.54	8.19
1905	3.09	2.02	0.00	0.00	0.00	0.00	3.20	8.31	3.86	2.06	0.00	0.00	0.00	0.00	4.51	10.43
1910	3.21	2.10	0.00	0.00	0.00	0.00	3.33	8.64	4.01	2.14	0.00	0.00	0.00	0.00	4.68	10.83
1915	3.81	2.49	0.00	0.00	0.00	0.00	3.96	10.26	4.77	2.55	0.00	0.00	0.00	0.00	5.57	12.89
1920	4.06	2.65	0.00	0.00	0.00	0.00	4.21	10.92	5.07	2.71	0.00	0.00	0.00	0.00	5.92	13.70
1930	0.20	0.08	0.36	0.09	0.00	0.00	0.23	0.96								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
1935	0.16	0.06	0.36	0.09	0.00	0.00	0.18	0.85								
1940	0.22	0.09	0.60	0.14	0.00	0.00	0.24	1.29								
1945	0.28	0.11	0.60	0.14	0.00	0.00	0.31	1.44								
1950	0.37	0.15	0.72	0.17	0.00	0.00	0.41	1.82								
1955	0.14	0.06	0.36	0.09	0.00	0.00	0.16	0.81								
1960	0.23	0.09	0.83	0.20	0.00	0.00	0.26	1.61								
1965	0.41	0.16	1.07	0.26	0.00	0.00	0.46	2.36								
1970	0.44	0.17	0.40	0.10	0.00	0.00	0.49	1.60								
1975	0.71	0.28	0.57	0.14	0.00	0.00	0.79	2.49								
1980	1.46	0.58	0.57	0.14	0.00	0.00	1.63	4.38								
1985	1.40	0.56	0.46	0.11	0.00	0.00	1.56	4.09								
1990	1.58	0.63	0.46	0.11	0.00	0.00	1.76	4.54								
2000	0.17	0.11	0.74	0.24	0.00	0.00	0.19	1.45								
2010	9.36	6.14	5.83	1.63	0.00	0.00	11.04	34.00								
2015	16.76	10.99	8.54	2.39	0.00	0.00	19.76	58.44								
2020	29.57	19.39	10.26	2.87	0.00	0.00	34.88	96.97								
2030	1.72	1.14	4.32	1.38	0.05	0.01	2.03	10.65								
2035	8.02	5.26	4.10	1.15	0.00	0.00	9.46	27.99								
2045	0.78	0.52	0.00	0.17	0.00	0.00	0.86	2.33								
2050	1.42	0.95	0.00	0.17	0.00	0.00	1.58	4.12								
2055	2.03	1.36	0.00	0.17	0.00	0.00	2.26	5.82								
2065	4.51	2.47	7.74	2.17	0.00	0.00	5.65	22.54								
2070	7.23	3.96	14.52	4.06	0.00	0.00	9.05	38.82								
2075	3.28	1.80	0.00	0.23	0.00	0.00	4.11	9.42								
2085	9.01	7.04	3.01	0.54	0.00	0.00	8.47	28.07	10.81	7.15	3.82	0.69	0.00	0.00	11.61	34.08
2090	10.38	9.99	4.18	0.75	0.00	0.00	11.15	36.45	11.97	10.08	5.29	0.95	0.00	0.00	14.47	42.76
2095	10.34	9.95	3.34	0.60	0.00	0.00	8.33	32.56	11.93	10.05	4.32	0.78	0.00	0.00	10.42	37.50
2105	10.90	10.49	3.34	0.60	0.00	0.00	8.78	34.11	12.58	10.59	4.32	0.78	0.00	0.00	10.98	39.25
2115	11.84	11.40	3.34	0.60	0.00	0.00	9.54	36.72	13.66	11.50	4.32	0.78	0.00	0.00	11.93	42.19
2125	13.85	13.33	6.64	1.20	0.00	0.00	14.88	49.90	15.98	13.46	8.41	1.51	0.00	0.00	19.32	58.68
2130	13.65	13.14	5.31	0.96	0.00	0.00	11.00	44.06	15.75	13.26	6.86	1.24	0.00	0.00	13.74	50.85
2140	12.30	14.06	5.31	0.96	0.00	0.00	11.56	44.19	13.83	14.15	6.86	1.24	0.00	0.00	13.93	50.01
2150	15.82	18.09	5.31	0.96	0.00	0.00	14.88	55.06	17.80	18.21	6.86	1.24	0.00	0.00	17.93	62.04
2160	20.68	23.64	7.49	1.35	0.00	0.00	19.44	72.60	23.26	23.79	9.68	1.74	0.00	0.00	23.43	81.90
2170	21.89	25.03	7.49	1.35	0.00	0.00	20.58	76.34	24.63	25.19	9.68	1.74	0.00	0.00	24.81	86.05
2175	20.97	23.97	9.36	1.69	0.00	0.00	25.34	81.33	23.59	24.13	11.86	2.13	0.00	0.00	31.68	93.39
2185	23.99	27.43	7.49	1.35	0.00	0.00	22.56	82.82	26.99	27.61	9.68	1.74	0.00	0.00	27.19	93.21
2195	22.73	28.72	7.49	1.35	0.00	0.00	24.42	84.71	25.25	28.87	9.68	1.74	0.00	0.00	28.82	94.36
2205	26.62	33.64	7.49	1.35	0.00	0.00	28.60	97.70	29.58	33.82	9.68	1.74	0.00	0.00	33.76	108.58
2220	10.37	8.11	3.73	0.67	0.00	0.00	9.75	32.63	12.44	8.23	4.72	0.85	0.00	0.00	13.37	39.61
2225	8.22	7.91	2.98	0.54	0.00	0.00	6.62	26.27	9.48	7.98	3.85	0.69	0.00	0.00	8.28	30.28
2235	13.64	11.48	5.44	0.98	0.00	0.00	16.48	48.02	16.12	11.63	7.15	1.29	0.00	0.00	21.64	57.83
2240	11.33	10.91	4.67	0.84	0.00	0.00	12.17	39.92	13.07	11.01	5.91	1.06	0.00	0.00	15.80	46.85
2245	11.17	10.75	3.73	0.67	0.00	0.00	9.00	35.32	12.88	10.85	4.82	0.87	0.00	0.00	11.25	40.67
2255	19.12	16.10	6.73	1.21	0.00	0.00	23.11	66.27	22.60	16.31	8.84	1.59	0.00	0.00	30.35	79.69
2260	15.64	15.05	5.77	1.04	0.00	0.00	16.80	54.30	18.04	15.19	7.31	1.31	0.00	0.00	21.81	63.66
2270	22.05	22.56	7.75	1.39	0.00	0.00	29.61	83.36	25.20	22.74	10.18	1.83	0.00	0.00	37.23	97.18
2275	21.13	21.61	7.75	1.39	0.00	0.00	28.37	80.25	24.14	21.78	10.18	1.83	0.00	0.00	35.66	93.59
2280	17.83	20.39	6.64	1.20	0.00	0.00	21.55	67.61	20.06	20.52	8.41	1.51	0.00	0.00	26.94	77.44
2285	17.45	19.95	5.31	0.96	0.00	0.00	16.40	60.07	19.63	20.07	6.86	1.24	0.00	0.00	19.77	67.57
2295	20.05	25.33	6.30	1.13	0.00	0.00	21.54	74.35	22.27	25.47	8.14	1.46	0.00	0.00	25.42	82.76
2300	20.98	23.99	7.87	1.42	0.00	0.00	25.35	79.61	23.60	24.14	9.97	1.80	0.00	0.00	31.69	91.20
2310	25.05	25.62	9.30	1.67	0.00	0.00	33.64	95.28	28.63	25.83	12.22	2.20	0.00	0.00	42.29	111.17
2315	23.74	24.28	9.30	1.67	0.00	0.00	31.88	90.87	27.13	24.48	12.22	2.20	0.00	0.00	40.08	106.11
2320	19.99	22.86	7.97	1.43	0.00	0.00	24.17	76.42	22.49	23.01	10.10	1.82	0.00	0.00	30.21	87.63

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
2330	31.26	35.74	13.80	2.48	0.00	0.00	46.18	129.46	35.17	35.97	18.13	3.26	0.00	0.00	56.67	149.20
2335	23.87	30.17	11.83	2.13	0.00	0.00	32.06	100.06	26.52	30.32	14.98	2.70	0.00	0.00	39.18	113.70
2350	8.53	8.21	3.06	0.55	0.00	0.00	6.88	27.23	9.85	8.29	3.95	0.71	0.00	0.00	8.60	31.40
2360	12.26	11.80	4.28	0.77	0.00	0.00	9.88	38.99	14.15	11.91	5.52	0.99	0.00	0.00	12.35	44.92
2370	14.70	18.58	5.39	0.97	0.00	0.00	15.79	55.43	16.33	18.67	6.96	1.25	0.00	0.00	18.64	61.85
2380	21.44	27.09	5.96	1.07	0.00	0.00	23.03	78.59	23.82	27.23	7.70	1.39	0.00	0.00	27.19	87.33
2395	16.51	18.88	10.82	1.95	0.00	0.00	19.95	68.11	18.57	19.00	13.71	2.47	0.00	0.00	24.94	78.69
2400	16.93	19.35	8.66	1.56	0.00	0.00	15.91	62.41	19.04	19.48	11.18	2.01	0.00	0.00	19.18	70.89
2410	19.83	22.67	10.82	1.95	0.00	0.00	23.97	79.24	22.31	22.82	13.71	2.47	0.00	0.00	29.96	91.27
2415	20.20	23.09	8.66	1.56	0.00	0.00	18.99	72.50	22.72	23.24	11.18	2.01	0.00	0.00	22.89	82.04
2425	28.14	32.17	11.18	2.01	0.00	0.00	34.01	107.51	31.65	32.37	14.16	2.55	0.00	0.00	42.51	123.24
2430	25.76	32.56	8.94	1.61	0.00	0.00	27.68	96.55	28.63	32.73	11.55	2.08	0.00	0.00	32.68	107.67
2440	37.00	46.77	17.76	3.20	0.00	0.00	39.75	144.48	41.11	47.01	22.93	4.13	0.00	0.00	46.93	162.11
2445	38.27	48.37	22.19	3.99	0.00	0.00	51.40	164.22	42.52	48.62	28.11	5.06	0.00	0.00	62.82	187.13
2460	7.64	5.97	4.80	0.86	0.00	0.00	7.18	26.45	9.16	6.06	6.07	1.09	0.00	0.00	9.84	32.22
2465	6.99	5.88	3.84	0.69	0.00	0.00	4.69	22.09	8.26	5.96	4.96	0.89	0.00	0.00	6.10	26.17
2475	10.64	8.31	4.80	0.86	0.00	0.00	10.00	34.61	12.76	8.44	6.07	1.09	0.00	0.00	13.71	42.07
2480	9.67	8.14	3.84	0.69	0.00	0.00	6.49	28.83	11.43	8.24	4.96	0.89	0.00	0.00	8.44	33.96
2490	10.91	10.50	8.52	1.53	0.00	0.00	11.72	43.18	12.58	10.60	10.79	1.94	0.00	0.00	15.21	51.12
2495	10.83	10.43	6.82	1.23	0.00	0.00	8.73	38.04	12.50	10.52	8.81	1.58	0.00	0.00	10.91	44.32
2505	21.76	18.32	9.94	1.79	0.00	0.00	26.30	78.11	25.72	18.55	13.07	2.35	0.00	0.00	34.53	94.22
2510	16.50	15.88	8.52	1.53	0.00	0.00	17.73	60.16	19.04	16.03	10.79	1.94	0.00	0.00	23.01	70.81
2515	15.87	15.28	6.82	1.23	0.00	0.00	12.79	51.99	18.31	15.42	8.81	1.58	0.00	0.00	15.98	60.10
2525	16.62	19.00	8.52	1.53	0.00	0.00	20.08	65.75	18.69	19.12	10.79	1.94	0.00	0.00	25.10	75.64
2530	16.21	18.53	6.82	1.23	0.00	0.00	15.23	58.02	18.23	18.65	8.81	1.58	0.00	0.00	18.36	65.63
2540	29.47	30.14	13.53	2.44	0.00	0.00	39.58	115.16	33.68	30.39	17.79	3.20	0.00	0.00	49.75	134.81
2545	23.26	26.59	11.60	2.09	0.00	0.00	28.11	91.65	26.16	26.76	14.69	2.64	0.00	0.00	35.14	105.39
2550	23.89	27.32	9.28	1.67	0.00	0.00	22.46	84.62	26.88	27.49	11.99	2.16	0.00	0.00	27.07	95.59
2560	30.90	35.33	16.25	2.93	0.00	0.00	45.65	131.06	34.77	35.56	21.36	3.85	0.00	0.00	56.03	151.57
2565	22.21	28.07	13.93	2.51	0.00	0.00	29.82	96.54	24.67	28.21	17.65	3.18	0.00	0.00	36.45	110.16
2570	25.89	29.60	11.15	2.01	0.00	0.00	24.33	92.98	29.12	29.79	14.40	2.59	0.00	0.00	29.33	105.23
2585	11.13	10.72	5.12	0.92	0.00	0.00	11.96	39.85	12.85	10.82	6.48	1.17	0.00	0.00	15.53	46.85
2590	10.78	10.38	4.10	0.74	0.00	0.00	8.69	34.69	12.44	10.47	5.29	0.95	0.00	0.00	10.86	40.01
2600	12.36	11.89	5.12	0.92	0.00	0.00	13.28	43.57	14.26	12.01	6.48	1.17	0.00	0.00	17.23	51.15
2605	12.04	11.59	4.10	0.74	0.00	0.00	9.70	38.17	13.90	11.70	5.29	0.95	0.00	0.00	12.13	43.97
2615	14.49	13.95	6.42	1.15	0.00	0.00	15.57	51.58	16.72	14.08	8.13	1.46	0.00	0.00	20.20	60.59
2620	12.33	14.10	5.13	0.92	0.00	0.00	11.59	44.07	13.87	14.19	6.63	1.19	0.00	0.00	13.97	49.85
2635	3.62	4.39	4.60	1.29	0.68	0.10	3.73	18.41								
2640	3.98	4.80	4.72	1.32	0.68	0.10	4.10	19.70								
2645	4.41	5.43	4.72	1.32	1.07	0.16	4.57	21.68								
2650	4.84	5.94	4.72	1.32	1.10	0.16	5.02	23.10								
2655	6.36	7.77	6.40	1.79	0.97	0.14	6.58	30.01								
2660	8.79	10.87	6.98	1.95	2.25	0.34	9.13	40.31								
2670	4.07	4.83	4.92	1.38	0.44	0.07	4.17	19.88								
2675	4.39	5.20	4.92	1.38	0.44	0.07	4.50	20.90								
2680	4.71	5.56	4.92	1.38	0.44	0.07	4.82	21.90								
2690	4.33	5.13	4.92	1.38	0.44	0.07	4.44	20.71								
2695	4.97	5.99	4.92	1.38	0.82	0.12	5.12	23.32								
2700	7.34	9.06	7.72	2.16	1.83	0.27	7.62	36.00								
2705	10.58	12.93	7.72	2.16	2.25	0.34	10.95	46.93								
2715	7.06	8.28	6.85	1.78	0.67	0.10	5.72	30.46	7.95	8.34	8.78	2.28	0.79	0.12	6.98	35.24
2720	12.51	14.58	9.80	2.55	0.92	0.14	10.12	50.62	14.07	14.68	12.64	3.29	1.08	0.16	12.34	58.26
2730	8.05	7.89	7.06	1.84	0.47	0.07	5.43	30.81	9.29	7.96	9.29	2.41	0.55	0.08	6.89	36.47
2735	7.71	9.10	8.33	2.17	0.90	0.13	6.26	34.60	8.68	9.15	10.96	2.85	1.06	0.16	7.63	40.49
2740	9.86	11.54	8.74	2.27	0.88	0.13	7.99	41.41	11.09	11.62	11.50	2.99	1.04	0.16	9.74	48.14

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	
2745	12.53	16.51	9.97	2.59	2.22	0.33	11.89	56.04	13.92	16.60	12.84	3.34	2.64	0.40	14.16	63.90	
2755	6.76	7.89	8.86	2.30	0.56	0.08	5.47	31.92	7.60	7.95	11.66	3.03	0.66	0.10	6.67	37.67	
2760	7.95	9.28	8.86	2.30	0.64	0.10	6.43	35.56	8.94	9.34	11.66	3.03	0.76	0.11	7.84	41.68	
2765	9.69	11.32	10.01	2.60	0.78	0.12	7.85	42.37	10.90	11.39	13.18	3.43	0.92	0.14	9.57	49.53	
2775	8.03	7.88	8.62	2.24	0.48	0.07	5.42	32.74	9.27	7.95	11.34	2.95	0.57	0.09	6.87	39.04	
2780	8.97	10.51	10.01	2.60	0.85	0.13	7.27	40.34	10.09	10.58	13.18	3.43	1.01	0.15	8.86	47.30	
2785	9.83	11.50	10.01	2.60	0.85	0.13	7.96	42.88	11.06	11.57	13.18	3.43	1.01	0.15	9.70	50.10	
2790	12.81	16.87	14.98	3.89	2.22	0.33	12.16	63.26	14.24	16.96	19.71	5.12	2.64	0.40	14.48	73.55	
2800	11.39	14.84	6.43	1.67	1.48	0.22	10.78	46.81	12.65	14.92	8.21	2.13	1.76	0.26	12.83	52.76	
2805	15.90	20.71	10.85	2.82	2.02	0.30	15.05	67.65	17.66	20.81	13.90	3.61	2.41	0.36	17.91	76.66	
2815	12.13	14.32	6.52	1.69	1.48	0.22	9.84	46.20	13.64	14.41	8.32	2.16	1.76	0.26	12.00	52.55	
2820	13.69	19.47	9.06	2.36	1.81	0.27	14.80	61.46	15.06	19.55	11.58	3.01	1.98	0.30	17.30	68.78	
2825	16.44	23.37	9.31	2.42	2.19	0.33	17.77	71.83	18.08	23.47	11.91	3.10	2.41	0.36	20.77	80.10	
2835	11.90	14.06	6.49	1.69	1.48	0.22	9.66	45.50	13.38	14.15	8.28	2.15	1.76	0.26	11.77	51.75	
2840	12.88	16.73	8.24	2.14	1.48	0.22	12.18	53.87	14.31	16.82	10.54	2.74	1.76	0.26	14.51	60.94	
2845	15.84	20.53	11.12	2.89	1.66	0.25	14.98	67.27	17.60	20.64	14.32	3.72	1.98	0.30	17.83	76.39	
2850	19.73	28.03	12.72	3.31	2.52	0.38	21.32	88.01	21.70	28.15	16.35	4.25	2.77	0.42	24.92	98.56	
2860	8.99	8.84	4.77	1.24	0.61	0.09	6.07	30.61	10.38	8.93	6.08	1.58	0.74	0.11	7.70	35.52	
2865	8.40	9.83	5.41	1.41	0.73	0.11	6.80	32.69	9.45	9.89	6.89	1.79	0.87	0.13	8.29	37.31	
2870	8.90	10.47	5.60	1.46	0.94	0.14	7.22	34.73	10.02	10.54	7.11	1.85	1.12	0.17	8.80	39.61	
2875	12.38	14.61	7.24	1.88	1.48	0.22	10.05	47.86	13.93	14.70	9.27	2.41	1.76	0.26	12.25	54.58	
2880	11.95	15.55	7.38	1.92	1.48	0.22	11.31	49.81	13.27	15.63	9.43	2.45	1.76	0.26	13.46	56.26	
2885	13.78	18.03	9.09	2.36	2.02	0.30	13.06	58.64	15.31	18.12	11.58	3.01	2.41	0.36	15.55	66.34	
2890	17.34	24.61	11.14	2.90	2.19	0.33	18.73	77.24	19.07	24.72	14.28	3.71	2.41	0.36	21.90	86.45	
2895	34.67	48.92	18.14	4.72	3.31	0.50	37.41	147.67	38.13	49.13	23.38	6.08	3.64	0.55	43.72	164.63	
2905	4.40	3.00	0.00	0.27	0.00	0.00	5.83	13.50									
2910	4.04	2.76	0.00	0.40	0.00	0.00	5.34	12.54									
2915	4.60	3.14	0.00	0.54	0.00	0.00	6.09	14.37									
2920	5.42	3.70	0.00	0.54	0.00	0.00	7.18	16.84									
2925	6.02	4.11	0.00	0.67	0.00	0.00	7.97	18.77									
2935	4.72	3.22	0.00	0.38	0.00	0.00	6.24	14.56									
2940	5.15	3.51	0.00	0.51	0.00	0.00	6.81	15.98									
2945	5.84	3.99	0.00	0.81	0.00	0.00	7.73	18.37									
2955	4.33	2.95	0.00	0.44	0.00	0.00	5.73	13.45									
2960	4.91	3.35	0.00	0.44	0.00	0.00	6.50	15.20									
2965	5.99	4.09	0.00	0.66	0.00	0.00	7.94	18.68									
2975	1.02	0.70	0.00	0.25	0.00	0.00	1.36	3.33									
2980	0.68	0.47	0.00	0.25	0.00	0.00	0.90	2.30									
2985	0.10	0.07	0.00	0.20	0.00	0.00	0.13	0.50									
2995	1.60	1.09	2.23	0.54	0.00	0.00	2.11	7.57									
3000	1.11	0.76	1.02	0.24	0.00	0.00	1.47	4.60									
3010	0.96	0.66	1.91	0.31	0.00	0.00	1.27	5.11									
3015	1.48	1.01	2.49	0.60	0.00	0.00	1.97	7.55									
3025	1.01	0.69	1.27	0.20	0.00	0.00	1.33	4.50									
3030	1.53	1.05	3.29	0.53	0.00	0.00	2.03	8.43									
3035	1.83	1.25	2.03	0.49	0.00	0.00	2.42	8.02									
3040	2.10	1.44	2.74	0.66	0.00	0.00	2.78	9.72									
3045	2.52	1.72	3.05	0.73	0.00	0.00	3.34	11.36									
3055	12.32	12.47	15.43	3.70	1.04	0.16	16.38	61.50									
3065	10.63	10.76	11.42	2.74	0.88	0.13	14.14	50.70									
3070	17.97	18.26	16.50	3.96	1.81	0.27	23.92	82.69									
3075	19.12	19.40	17.00	4.08	1.81	0.27	25.44	87.12									
3080	22.70	23.06	17.77	4.26	2.26	0.34	30.21	100.60									
3085	20.01	19.91	25.38	6.09	0.00	0.00	26.49	97.88									
3090	24.86	32.48	26.16	13.08	0.00	0.00	16.45	113.03									

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE	
3095	31.04	40.57	27.30	13.65	0.00	0.00	20.55	133.11									
3100	35.23	46.04	50.05	25.02	0.00	0.00	23.32	179.66									
3110	1.57	1.08	5.45	1.31	0.12	0.02	1.98	11.53									
3115	1.78	1.23	6.92	1.66	0.13	0.02	2.24	13.98									
3120	2.73	1.87	10.03	2.41	0.15	0.02	3.44	20.65									
3125	3.76	2.63	10.98	2.64	0.40	0.06	4.75	25.22									
3130	4.32	3.01	10.98	2.64	0.40	0.06	5.46	26.87									
3135	4.47	3.13	10.98	2.64	0.48	0.07	5.65	27.42									
3140	4.99	3.47	10.98	2.64	0.47	0.07	6.30	28.92									
3145	9.65	6.73	16.43	3.94	0.96	0.14	12.20	50.05									
3160	0.99	0.88	5.29	1.27	0.00	0.00	1.43	9.86	1.10	0.89	6.97	1.67	0.00	0.00	1.79	12.42	
3165	1.17	1.04	8.21	1.97	0.00	0.00	1.69	14.08	1.30	1.05	10.80	2.59	0.00	0.00	2.11	17.85	
3170	1.33	1.19	9.03	2.17	0.00	0.00	1.93	15.65	1.48	1.19	11.88	2.85	0.00	0.00	2.41	19.81	
3175	1.41	1.26	10.67	2.56	0.00	0.00	2.04	17.94	1.57	1.27	14.04	3.37	0.00	0.00	2.55	22.80	
3180	1.60	1.42	12.11	2.91	0.00	0.00	2.31	20.35	1.78	1.43	15.93	3.82	0.00	0.00	2.89	25.85	
3185	1.87	1.66	13.54	3.25	0.00	0.00	2.70	23.02	2.08	1.68	17.82	4.28	0.00	0.00	3.38	29.24	
3190	2.03	1.81	16.01	3.84	0.00	0.00	2.93	26.62	2.25	1.82	21.06	5.05	0.00	0.00	3.67	33.85	
3195	3.60	3.21	17.44	4.19	0.00	0.00	5.21	33.65	4.00	3.23	22.95	5.51	0.00	0.00	6.51	42.20	
3200	2.81	2.50	18.06	4.33	0.00	0.00	4.06	31.76	3.12	2.52	23.76	5.70	0.00	0.00	5.07	40.17	
3205	3.27	2.91	25.65	6.16	0.00	0.00	4.72	42.71	3.63	2.93	33.75	8.10	0.00	0.00	5.90	54.31	
3210	5.00	4.45	29.96	7.19	0.00	0.00	7.22	53.82	5.55	4.48	39.42	9.46	0.00	0.00	9.03	67.94	
3215	7.39	6.58	33.24	7.98	0.00	0.00	10.68	65.87	8.21	6.63	43.74	10.50	0.00	0.00	13.35	82.43	
3220	9.61	8.56	47.40	11.38	0.00	0.00	13.90	90.85	10.68	8.62	62.37	14.97	0.00	0.00	17.37	114.01	
3235	0.36	0.32	1.11	0.27	0.00	0.00	0.52	2.58	0.40	0.33	1.46	0.35	0.00	0.00	0.66	3.20	
3240	0.54	0.48	2.59	0.62	0.00	0.00	0.78	5.01	0.60	0.48	3.40	0.82	0.00	0.00	0.97	6.27	
3245	0.71	0.63	3.57	0.86	0.00	0.00	1.03	6.80	0.79	0.64	4.70	1.13	0.00	0.00	1.29	8.55	
3250	0.82	0.73	4.19	1.00	0.00	0.00	1.18	7.92	0.91	0.73	5.51	1.32	0.00	0.00	1.48	9.95	
3255	0.97	0.87	6.65	1.60	0.00	0.00	1.41	11.50	1.08	0.87	8.75	2.10	0.00	0.00	1.76	14.56	
3260	1.02	0.91	6.65	1.60	0.00	0.00	1.47	11.65	1.13	0.91	8.75	2.10	0.00	0.00	1.84	14.73	
3265	1.18	1.05	8.62	2.07	0.00	0.00	1.70	14.62	1.31	1.06	11.34	2.72	0.00	0.00	2.13	18.56	
3270	1.40	1.24	11.33	2.72	0.00	0.00	2.02	18.71	1.55	1.25	14.90	3.58	0.00	0.00	2.52	23.80	
3280	5.24	4.81	5.52	1.60	0.48	0.07	5.61	23.33	6.29	4.87	7.25	2.10	0.83	0.12	7.21	28.67	
3285	5.68	5.22	5.52	1.60	0.57	0.08	6.08	24.75	6.81	5.29	7.25	2.10	0.99	0.15	7.82	30.41	
3290	5.58	5.11	7.07	2.05	0.48	0.07	5.97	26.33	6.70	5.18	9.29	2.69	0.83	0.12	7.68	32.49	
3295	5.97	5.49	7.07	2.05	0.62	0.09	6.39	27.68	7.16	5.57	9.29	2.69	1.08	0.16	8.22	34.17	
3305	4.58	4.23	4.72	1.37	0.48	0.07	4.91	20.36	5.50	4.29	6.21	1.80	0.79	0.12	6.32	25.03	
3310	5.14	4.73	5.10	1.48	0.48	0.07	5.51	22.51	6.17	4.79	6.71	1.94	0.79	0.12	7.08	27.60	
3315	5.58	5.13	5.10	1.48	0.53	0.08	5.98	23.88	6.70	5.20	6.71	1.94	0.87	0.13	7.69	29.24	
3320	5.62	5.19	5.67	1.64	0.61	0.09	6.03	24.85	6.74	5.26	7.45	2.16	1.01	0.15	7.75	30.52	
3325	7.69	7.29	6.80	1.97	1.44	0.22	8.32	33.73	9.23	7.38	8.94	2.59	2.39	0.36	10.69	41.58	
3330	11.06	10.56	9.45	2.74	2.38	0.36	11.98	48.53	13.27	10.70	12.42	3.60	3.94	0.59	15.41	59.93	
3340	2.41	2.20	2.57	0.75	0.16	0.02	2.57	10.68	2.89	2.22	3.38	0.98	0.27	0.04	3.31	13.09	
3345	4.53	4.20	5.10	1.48	0.53	0.08	4.87	20.79	5.44	4.25	6.71	1.94	0.87	0.13	6.26	25.60	
3350	4.86	4.49	5.10	1.48	0.53	0.08	5.21	21.75	5.83	4.55	6.71	1.94	0.87	0.13	6.70	26.73	
3355	5.23	4.84	6.05	1.75	0.61	0.09	5.61	24.18	6.27	4.91	7.95	2.31	1.01	0.15	7.21	29.81	
3365	2.22	2.03	5.43	0.87	0.16	0.02	2.37	13.10	2.66	2.05	7.04	1.13	0.27	0.04	3.05	16.24	
3370	4.53	4.18	5.67	1.64	0.48	0.07	4.86	21.43	5.44	4.24	7.45	2.16	0.79	0.12	6.25	26.45	
3375	5.49	5.07	7.56	2.19	0.61	0.09	5.89	26.90	6.58	5.14	9.94	2.88	1.01	0.15	7.57	33.27	
3385	4.68	4.32	5.10	1.48	0.48	0.07	5.02	21.15	5.62	4.37	6.71	1.94	0.79	0.12	6.45	26.00	
3390	4.77	4.43	6.05	1.75	0.61	0.09	5.13	22.83	5.72	4.49	7.95	2.31	1.01	0.15	6.59	28.22	
3395	5.59	5.18	7.60	2.20	0.67	0.10	6.00	27.34	6.70	5.25	9.99	2.90	1.10	0.17	7.71	33.82	
3405	4.25	2.84	4.10	0.98	0.00	0.00	5.32	17.49									
3410	5.74	3.84	4.10	0.98	0.00	0.00	7.18	21.84									
3415	8.82	5.90	5.34	1.28	0.00	0.00	11.04	32.38									
3420	10.46	7.00	6.16	1.48	0.00	0.00	13.10	38.20									

TABLE 3-5, HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
3430	0.46	0.31	0.00	0.20	0.00	0.00	0.58	1.55								
3440	9.67	8.14	6.99	1.26	0.00	0.00	11.69	37.75	11.43	8.24	9.19	1.65	0.00	0.00	15.34	45.85
3445	12.66	10.66	9.45	1.70	0.00	0.00	15.30	49.77	14.96	10.80	12.42	2.24	0.00	0.00	20.09	60.51
3450	17.52	17.91	15.88	2.86	0.00	0.00	23.52	77.69	20.02	18.06	20.87	3.76	0.00	0.00	29.57	92.28
3460	10.15	7.32	6.65	1.20	0.00	0.00	10.91	36.23	12.41	7.46	8.74	1.57	0.00	0.00	15.00	45.18
3465	11.76	9.90	7.75	1.39	0.00	0.00	14.22	45.02	13.90	10.03	10.18	1.83	0.00	0.00	18.67	54.61
3470	14.90	12.55	9.37	1.69	0.00	0.00	18.01	56.52	17.61	12.70	12.32	2.22	0.00	0.00	23.65	68.50
3480	7.13	5.14	3.21	0.58	0.00	0.00	7.65	23.71	8.71	5.23	4.22	0.76	0.00	0.00	10.53	29.45
3485	9.37	6.76	4.72	0.85	0.00	0.00	10.06	31.76	11.45	6.88	6.21	1.12	0.00	0.00	13.84	39.50
3490	13.52	11.39	7.37	1.33	0.00	0.00	16.34	49.95	15.98	11.53	9.69	1.74	0.00	0.00	21.46	60.40
3495	20.56	17.31	12.28	2.21	0.00	0.00	24.85	77.21	24.30	17.53	16.15	2.91	0.00	0.00	32.63	93.52
3505	6.62	4.77	5.93	1.07	0.00	0.00	7.11	25.50	8.09	4.86	7.80	1.40	0.00	0.00	9.77	31.92
3510	7.16	6.03	7.18	1.29	0.00	0.00	8.66	30.32	8.47	6.11	9.44	1.70	0.00	0.00	11.37	37.09
3520	8.69	6.27	4.35	0.78	0.00	0.00	9.33	29.42	10.62	6.38	5.71	1.03	0.00	0.00	12.83	36.57
3525	10.85	7.83	6.05	1.09	0.00	0.00	11.66	37.48	13.26	7.97	7.95	1.43	0.00	0.00	16.03	46.64
3530	12.30	10.35	10.28	1.85	0.00	0.00	14.86	49.64	14.53	10.48	13.51	2.43	0.00	0.00	19.51	60.46
3540	7.08	5.96	6.05	1.09	0.00	0.00	8.55	28.73	8.36	6.03	7.95	1.43	0.00	0.00	11.23	35.00
3545	10.30	8.67	8.88	1.60	0.00	0.00	12.44	41.89	12.17	8.78	11.67	2.10	0.00	0.00	16.34	51.06
3550	10.06	10.29	11.64	2.10	0.00	0.00	13.51	47.60	11.49	10.37	15.30	2.75	0.00	0.00	16.98	56.89
3555	21.81	22.30	23.28	4.19	0.00	0.00	29.28	100.86	24.92	22.48	30.60	5.51	0.00	0.00	36.81	120.32
3565	11.48	9.67	9.07	1.63	0.00	0.00	13.88	45.73	13.57	9.79	11.92	2.15	0.00	0.00	18.22	55.65
3570	13.89	11.69	10.96	1.97	0.00	0.00	16.78	55.29	16.41	11.84	14.41	2.59	0.00	0.00	22.04	67.29
3575	14.59	14.93	14.74	2.65	0.00	0.00	19.60	66.51	16.68	15.05	19.38	3.49	0.00	0.00	24.64	79.24
3585	19.25	16.20	12.28	2.21	0.00	0.00	23.26	73.20	22.75	16.41	16.15	2.91	0.00	0.00	30.54	88.76
3590	24.17	20.35	14.36	2.59	0.00	0.00	29.22	90.69	28.57	20.61	18.88	3.40	0.00	0.00	38.37	109.83
3595	32.71	33.46	28.73	5.17	0.00	0.00	43.93	144.00	37.39	33.73	37.76	6.80	0.00	0.00	55.23	170.91
3605	6.37	4.60	3.97	0.71	0.00	0.00	6.85	22.50	7.79	4.68	5.22	0.94	0.00	0.00	9.41	28.04
3610	8.89	6.42	7.18	1.29	0.00	0.00	9.55	33.33	10.87	6.53	9.44	1.70	0.00	0.00	13.14	41.68
3620	5.29	3.82	4.08	0.73	0.00	0.00	5.68	19.60	6.46	3.88	5.37	0.97	0.00	0.00	7.81	24.49
3625	8.02	5.79	5.41	0.97	0.00	0.00	8.62	28.81	9.80	5.89	7.10	1.28	0.00	0.00	11.85	35.92
3635	7.54	5.44	5.75	1.03	0.00	0.00	8.10	27.86	9.22	5.54	7.55	1.36	0.00	0.00	11.14	34.81
3640	11.03	9.29	8.62	1.55	0.00	0.00	13.33	43.82	13.04	9.40	11.33	2.04	0.00	0.00	17.51	53.32
3645	13.64	11.48	11.49	2.07	0.00	0.00	16.48	55.16	16.12	11.63	15.10	2.72	0.00	0.00	21.64	67.21
3655	7.60	7.48	7.08	1.93	0.52	0.08	5.13	29.82	8.77	7.55	9.28	2.53	0.63	0.09	6.51	35.36
3660	8.41	8.33	8.08	2.10	0.75	0.11	5.68	33.46	9.70	8.40	10.40	2.71	0.92	0.14	7.21	39.48
3665	9.17	10.83	12.80	3.33	1.15	0.17	7.44	44.89	10.31	10.90	16.60	4.32	1.38	0.21	9.07	52.79
3675	1.21	0.81	0.00	0.09	0.00	0.00	1.33	3.44	1.52	0.83	0.00	0.09	0.00	0.00	1.87	4.31
3680	1.73	1.15	0.00	0.11	0.00	0.00	1.89	4.88	2.16	1.17	0.00	0.11	0.00	0.00	2.66	6.10
3685	2.24	1.49	0.00	0.14	0.00	0.00	2.46	6.33	2.80	1.53	0.00	0.14	0.00	0.00	3.46	7.93
3690	1.08	0.72	0.00	0.19	0.00	0.00	1.19	3.18	1.36	0.74	0.00	0.19	0.00	0.00	1.67	3.96
3700	0.71	0.60	0.67	0.16	0.00	0.00	0.93	3.07								
3710	0.64	0.55	0.73	0.17	0.00	0.00	0.85	2.94								
3720	1.47	1.36	1.15	0.32	0.71	0.11	2.24	7.36	1.84	1.38	1.51	0.42	1.11	0.17	3.12	9.55
3730	0.29	0.25	0.00	0.00	0.00	0.00	0.44	0.98	0.37	0.25	0.00	0.00	0.00	0.00	0.61	1.23
3735	0.43	0.37	0.00	0.00	0.00	0.00	0.64	1.44	0.54	0.37	0.00	0.00	0.00	0.00	0.88	1.79
3740	0.07	0.06	0.00	0.00	0.00	0.00	0.10	0.23	0.08	0.06	0.00	0.00	0.00	0.00	0.13	0.27
3745	0.34	0.29	0.00	0.00	0.00	0.00	0.50	1.13	0.43	0.29	0.00	0.00	0.00	0.00	0.70	1.42
3750	0.29	0.25	0.00	0.00	0.00	0.00	0.44	0.98	0.37	0.25	0.00	0.00	0.00	0.00	0.61	1.23
3755	0.35	0.30	0.00	0.00	0.00	0.00	0.52	1.17	0.44	0.30	0.00	0.00	0.00	0.00	0.72	1.46
3760	0.46	0.39	0.00	0.00	0.00	0.00	0.68	1.53	0.57	0.39	0.00	0.00	0.00	0.00	0.94	1.90
3765	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.06	0.04	0.00	0.00	0.00	0.00	0.11	0.21
3770	1.64	1.52	1.72	0.48	0.87	0.13	2.51	8.87	2.05	1.55	2.27	0.64	1.36	0.20	3.49	11.56
3780	0.37	0.31	0.00	0.00	0.00	0.00	0.54	1.22	0.46	0.32	0.00	0.00	0.00	0.00	0.75	1.53
3785	0.45	0.38	0.00	0.00	0.00	0.00	0.67	1.50	0.56	0.39	0.00	0.00	0.00	0.00	0.93	1.88
3790	0.07	0.06	0.00	0.00	0.00	0.00	0.10	0.23	0.08	0.06	0.00	0.00	0.00	0.00	0.13	0.27

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
3795	0.34	0.29	0.00	0.00	0.00	0.00	0.50	1.13	0.43	0.29	0.00	0.00	0.00	0.00	0.70	1.42
3800	0.33	0.28	0.00	0.00	0.00	0.00	0.49	1.10	0.41	0.29	0.00	0.00	0.00	0.00	0.68	1.38
3805	0.41	0.35	0.00	0.00	0.00	0.00	0.60	1.36	0.51	0.35	0.00	0.00	0.00	0.00	0.84	1.70
3810	0.52	0.44	0.00	0.00	0.00	0.00	0.76	1.72	0.64	0.45	0.00	0.00	0.00	0.00	1.06	2.15
3815	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.06	0.04	0.00	0.00	0.00	0.00	0.11	0.21
3820	1.85	1.74	2.30	0.64	1.16	0.17	2.84	10.70	2.31	1.77	3.02	0.85	1.81	0.27	3.95	13.98
3830	0.39	0.33	0.00	0.00	0.00	0.00	0.58	1.30	0.49	0.34	0.00	0.00	0.00	0.00	0.81	1.64
3835	0.48	0.41	0.00	0.00	0.00	0.00	0.71	1.60	0.50	0.41	0.00	0.00	0.00	0.00	0.98	1.99
3840	0.07	0.06	0.00	0.00	0.00	0.00	0.10	0.23	0.08	0.06	0.00	0.00	0.00	0.00	0.13	0.27
3845	0.34	0.29	0.00	0.00	0.00	0.00	0.50	1.13	0.43	0.29	0.00	0.00	0.00	0.00	0.70	1.42
3850	0.37	0.32	0.00	0.00	0.00	0.00	0.55	1.24	0.47	0.32	0.00	0.00	0.00	0.00	0.77	1.56
3855	0.49	0.41	0.00	0.00	0.00	0.00	0.72	1.62	0.61	0.42	0.00	0.00	0.00	0.00	1.00	2.03
3860	0.65	0.55	0.00	0.00	0.00	0.00	0.96	2.16	0.81	0.56	0.00	0.00	0.00	0.00	1.33	2.70
3865	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.06	0.04	0.00	0.00	0.00	0.00	0.11	0.21
3870	2.24	2.13	3.45	0.97	1.60	0.24	3.45	14.08	2.80	2.17	4.54	1.27	2.52	0.38	4.80	18.48
3880	0.42	0.36	0.00	0.00	0.00	0.00	0.62	1.40	0.52	0.36	0.00	0.00	0.00	0.00	0.86	1.74
3885	0.55	0.47	0.00	0.00	0.00	0.00	0.81	1.83	0.69	0.47	0.00	0.00	0.00	0.00	1.13	2.29
3890	0.07	0.06	0.00	0.00	0.00	0.00	0.10	0.23	0.08	0.06	0.00	0.00	0.00	0.00	0.13	0.27
3895	0.34	0.29	0.00	0.00	0.00	0.00	0.50	1.13	0.43	0.29	0.00	0.00	0.00	0.00	0.70	1.42
3900	0.47	0.40	0.00	0.00	0.00	0.00	0.69	1.56	0.58	0.40	0.00	0.00	0.00	0.00	0.96	1.94
3905	0.60	0.51	0.00	0.00	0.00	0.00	0.89	2.00	0.75	0.52	0.00	0.00	0.00	0.00	1.23	2.50
3910	0.81	0.69	0.00	0.00	0.00	0.00	1.20	2.70	1.01	0.70	0.00	0.00	0.00	0.00	1.67	3.38
3915	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.06	0.04	0.00	0.00	0.00	0.00	0.11	0.21
3920	4.08	3.75	5.13	1.44	1.88	0.28	6.21	22.77	5.10	3.81	6.75	1.89	2.93	0.44	8.63	29.55
3930	0.61	0.52	0.00	0.00	0.00	0.00	0.90	2.03	0.76	0.53	0.00	0.00	0.00	0.00	1.25	2.54
3935	0.07	0.06	0.00	0.00	0.00	0.00	0.10	0.23	0.08	0.06	0.00	0.00	0.00	0.00	0.13	0.27
3940	0.38	0.32	0.00	0.00	0.00	0.00	0.56	1.26	0.48	0.33	0.00	0.00	0.00	0.00	0.78	1.59
3945	0.53	0.45	0.00	0.00	0.00	0.00	0.78	1.76	0.66	0.46	0.00	0.00	0.00	0.00	1.08	2.20
3950	0.73	0.62	0.00	0.00	0.00	0.00	1.08	2.43	0.91	0.63	0.00	0.00	0.00	0.00	1.50	3.04
3955	0.96	0.81	0.00	0.00	0.00	0.00	1.42	3.19	1.19	0.83	0.00	0.00	0.00	0.00	1.97	3.99
3960	0.05	0.04	0.00	0.00	0.00	0.00	0.08	0.17	0.06	0.04	0.00	0.00	0.00	0.00	0.11	0.21
3965	7.03	6.63	5.13	1.44	4.61	0.69	10.81	36.34	8.78	6.74	6.75	1.89	7.26	1.09	15.01	47.52
3970	7.85	7.37	7.59	2.13	5.03	0.75	12.06	42.78	9.81	7.50	9.99	2.80	7.96	1.19	16.74	55.99
3975	7.87	7.62	7.59	2.13	6.95	1.04	12.23	45.43	9.84	7.75	9.99	2.80	11.07	1.66	16.99	60.10
3980	9.07	8.78	11.90	3.33	8.21	1.23	14.09	56.61	11.33	8.93	15.66	4.38	13.12	1.97	19.57	74.96
3990	8.87	8.19	7.59	2.13	4.61	0.69	13.54	45.62	11.09	8.34	9.99	2.80	7.26	1.09	18.81	59.38
3995	9.36	8.66	7.59	2.13	5.03	0.75	14.30	47.82	11.70	8.81	9.99	2.80	7.96	1.19	19.86	62.31
4000	10.49	9.84	11.90	3.33	6.95	1.04	16.11	59.66	13.11	10.01	15.66	4.38	11.07	1.66	22.37	78.26
4005	11.54	10.88	11.90	3.33	8.21	1.23	17.75	64.84	14.42	11.07	15.66	4.38	13.12	1.97	24.65	85.27
4015	0.58	0.50	0.00	0.00	0.00	0.00	0.86	1.94	0.73	0.50	0.00	0.00	0.00	0.00	1.20	2.43
4020	0.77	0.66	0.00	0.00	0.00	0.00	1.15	2.58	0.97	0.67	0.00	0.00	0.00	0.00	1.59	3.23
4025	1.05	0.89	0.00	0.00	0.00	0.00	1.55	3.49	1.31	0.91	0.00	0.00	0.00	0.00	2.16	4.38
4030	1.21	1.02	0.00	0.00	0.00	0.00	1.79	4.02	1.51	1.04	0.00	0.00	0.00	0.00	2.48	5.03
4040	2.17	1.65	1.73	0.66	0.00	0.00	3.67	9.88	2.72	1.68	2.27	0.86	0.00	0.00	5.00	12.53
4045	2.96	2.24	2.35	0.89	0.00	0.00	4.99	13.43	3.70	2.28	3.09	1.17	0.00	0.00	6.81	17.05
4050	3.93	2.98	3.19	1.21	0.00	0.00	6.64	17.95	4.91	3.04	4.20	1.60	0.00	0.00	9.05	22.80
4055	5.12	3.88	4.65	1.77	0.00	0.00	8.65	24.07	6.40	3.96	6.12	2.33	0.00	0.00	11.80	30.61
4065	2.71	2.05	2.88	1.09	0.00	0.00	4.57	13.30	3.38	2.09	3.79	1.44	0.00	0.00	6.23	16.93
4070	4.02	3.04	3.54	1.35	0.00	0.00	6.78	18.73	5.02	3.10	4.67	1.77	0.00	0.00	9.25	23.81
4075	4.73	3.58	4.21	1.60	0.00	0.00	7.98	22.10	5.91	3.65	5.54	2.11	0.00	0.00	10.89	28.10
4080	6.37	4.82	5.76	2.19	0.00	0.00	10.75	29.89	7.96	4.92	7.58	2.88	0.00	0.00	14.66	38.00
4085	9.50	7.20	8.41	3.20	0.00	0.00	16.03	44.34	11.87	7.33	11.08	4.21	0.00	0.00	21.86	56.35
4090	14.68	11.12	12.18	4.63	0.00	0.00	24.79	67.40	18.35	11.34	16.04	6.09	0.00	0.00	33.80	85.62
4100	3.88	2.94	3.85	1.46	0.00	0.00	6.55	18.68	4.85	3.00	5.07	1.93	0.00	0.00	8.93	23.78
4105	4.94	3.75	5.40	2.05	0.00	0.00	8.35	24.49	6.18	3.82	7.12	2.70	0.00	0.00	11.38	31.20

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
4110	6.48	4.91	6.64	2.52	0.00	0.00	10.94	31.49	8.10	5.01	8.75	3.32	0.00	0.00	14.92	40.10
4115	9.38	7.11	9.87	3.75	0.00	0.00	15.84	45.95	11.73	7.25	13.01	4.94	0.00	0.00	21.60	58.53
4125	2.98	2.26	2.88	1.09	0.00	0.00	5.04	14.25	3.73	2.31	3.79	1.44	0.00	0.00	6.87	18.14
4130	3.54	2.68	3.45	1.31	0.00	0.00	5.97	16.95	4.42	2.73	4.55	1.73	0.00	0.00	8.15	21.58
4135	5.60	4.24	5.93	2.25	0.00	0.00	9.45	27.47	7.00	4.32	7.81	2.97	0.00	0.00	12.89	34.99
4140	8.01	6.07	8.41	3.20	0.00	0.00	13.53	39.22	10.01	6.19	11.08	4.21	0.00	0.00	18.45	49.94
4150	2.37	1.80	1.86	0.71	0.00	0.00	4.00	10.74	2.96	1.83	2.45	0.93	0.00	0.00	5.46	13.63
4155	3.11	2.36	2.88	1.09	0.00	0.00	5.25	14.69	3.89	2.40	3.79	1.44	0.00	0.00	7.16	18.68
4165	2.63	2.00	2.79	1.06	0.00	0.00	4.45	12.93	3.29	2.03	3.67	1.40	0.00	0.00	6.07	16.46
4170	4.58	3.47	4.87	1.85	0.00	0.00	7.73	22.50	5.72	3.54	6.42	2.44	0.00	0.00	10.54	28.66
4175	5.57	4.22	5.98	2.27	0.00	0.00	9.41	27.45	6.96	4.30	7.87	2.99	0.00	0.00	12.83	34.95
4180	10.66	8.08	8.86	3.37	0.00	0.00	18.00	48.97	13.33	8.23	11.66	4.43	0.00	0.00	24.55	62.20
4185	15.83	12.00	15.50	5.89	0.00	0.00	26.74	75.96	19.79	12.23	20.41	7.76	0.00	0.00	36.46	96.65
4195	0.36	0.29	1.38	0.44	0.09	0.01	0.42	2.99	0.45	0.30	1.80	0.58	0.18	0.03	0.57	3.91
4200	0.45	0.37	0.53	0.21	0.09	0.01	0.53	2.19	0.56	0.38	0.70	0.28	0.18	0.03	0.71	2.84
4205	0.52	0.43	1.99	0.64	0.15	0.02	0.62	4.37	0.65	0.44	2.59	0.83	0.32	0.05	0.83	5.71
4210	0.63	0.52	0.78	0.31	0.15	0.02	0.75	3.16	0.79	0.53	1.03	0.41	0.32	0.05	1.00	4.13
4215	0.65	0.53	2.59	0.83	0.10	0.01	0.77	5.48	0.82	0.54	3.38	1.08	0.21	0.03	1.03	7.09
4220	0.63	0.51	2.59	0.83	0.10	0.01	0.74	5.41	0.79	0.52	3.38	1.08	0.21	0.03	0.99	7.00
4225	0.76	0.61	1.15	0.46	0.10	0.01	0.89	3.98	0.95	0.62	1.51	0.60	0.21	0.03	1.19	5.11
4230	0.68	0.55	2.77	0.89	0.10	0.01	0.79	5.79	0.84	0.56	3.61	1.15	0.21	0.03	1.06	7.46
4235	0.81	0.65	2.94	0.94	0.10	0.01	0.95	6.40	1.01	0.66	3.83	1.23	0.21	0.03	1.27	8.24
4240	0.88	0.71	1.48	0.59	0.10	0.01	1.03	4.80	1.10	0.72	1.94	0.78	0.21	0.03	1.39	6.17
4245	1.05	0.86	1.72	0.69	0.19	0.03	1.24	5.78	1.32	0.88	2.27	0.91	0.41	0.06	1.66	7.51
4250	1.14	0.92	2.22	0.89	0.19	0.03	1.34	6.73	1.42	0.94	2.92	1.17	0.41	0.06	1.79	8.71
4255	1.95	1.64	3.20	1.28	0.65	0.10	2.32	11.14	2.43	1.67	4.21	1.68	1.38	0.21	3.10	14.68
4265	3.41	2.79	3.41	1.36	0.70	0.11	4.03	15.81	4.26	2.85	4.48	1.79	1.48	0.22	5.39	20.47
4270	4.22	3.43	4.23	1.69	0.74	0.11	4.97	19.39	5.27	3.50	5.56	2.22	1.56	0.23	6.65	24.99
4275	5.83	4.76	5.42	2.17	1.08	0.16	6.88	26.30	7.29	4.85	7.13	2.85	2.28	0.34	9.21	33.95
4280	6.82	5.69	7.59	3.04	2.05	0.31	8.10	33.60	8.52	5.80	9.99	4.00	4.32	0.65	10.84	44.12
4290	2.76	2.31	2.67	1.07	0.88	0.13	3.28	13.10	3.45	2.35	3.51	1.40	1.85	0.28	4.39	17.23
4295	3.63	3.00	3.28	1.31	0.88	0.13	4.30	16.53	4.54	3.05	4.32	1.73	1.85	0.28	5.76	21.53
4300	4.23	3.50	4.10	1.64	1.08	0.16	5.01	19.72	5.29	3.56	5.40	2.16	2.28	0.34	6.71	25.74
4305	5.82	4.89	5.34	2.13	1.95	0.29	6.92	27.34	7.27	4.98	7.02	2.81	4.11	0.62	9.27	36.08
4310	7.59	6.47	6.98	2.79	3.13	0.47	9.08	36.51	9.49	6.60	9.18	3.67	6.59	0.99	12.16	48.68
4315	9.92	9.01	10.67	3.20	6.22	0.93	12.43	52.38	11.91	9.14	14.04	4.21	13.10	1.97	15.84	70.21
4320	14.33	13.42	15.39	4.62	8.45	1.27	18.10	75.58	17.20	13.62	20.25	6.07	17.80	2.67	23.07	100.68
4325	28.35	27.35	28.32	8.50	20.67	3.10	36.10	152.39	34.02	27.74	37.26	11.18	43.51	6.53	46.03	206.27
4335	3.09	2.57	3.37	1.35	0.88	0.13	3.67	15.06	3.87	2.62	4.43	1.77	1.85	0.28	4.92	19.74
4340	3.58	2.96	4.39	1.76	0.88	0.13	4.24	17.94	4.48	3.01	5.78	2.31	1.85	0.28	5.68	23.39
4345	4.02	3.34	4.97	1.99	1.08	0.16	4.77	20.33	5.03	3.40	6.53	2.61	2.28	0.34	6.38	26.57
4350	5.51	4.69	5.83	2.33	2.24	0.34	6.59	27.53	6.88	4.78	7.67	3.07	4.72	0.71	8.82	36.65
4355	7.70	6.67	8.70	3.48	3.78	0.57	9.26	40.16	9.63	6.80	11.45	4.58	7.95	1.19	12.41	54.01
4360	8.68	8.00	11.20	3.36	6.22	0.93	10.91	49.30	10.42	8.11	14.74	4.42	13.10	1.97	13.91	66.67
4365	11.80	10.97	14.77	4.43	6.54	0.98	14.87	64.36	14.16	11.13	19.44	5.83	13.78	2.07	18.97	85.38
4370	24.26	23.09	25.94	7.78	16.15	2.42	30.77	130.41	29.11	23.42	34.13	10.24	34.00	5.10	39.23	175.23
4380	2.83	2.40	3.28	1.31	1.08	0.16	3.38	14.44	3.53	2.44	4.32	1.73	2.28	0.34	4.52	19.16
4385	3.78	3.15	4.19	1.67	1.08	0.16	4.49	18.52	4.73	3.20	5.51	2.20	2.28	0.34	6.01	24.27
4390	4.19	3.47	4.43	1.77	1.08	0.16	4.97	20.07	5.24	3.54	5.83	2.33	2.28	0.34	6.65	26.21
4395	5.47	4.66	6.20	2.48	2.24	0.34	6.54	27.93	6.83	4.75	8.15	3.26	4.72	0.71	8.76	37.18
4400	8.22	6.84	8.29	3.32	2.36	0.35	9.75	39.13	10.27	6.97	10.91	4.36	4.96	0.74	13.06	51.27
4405	10.78	10.14	13.75	4.12	6.54	0.98	13.63	59.94	12.94	10.28	18.09	5.43	13.78	2.07	17.38	79.97
4415	2.52	2.15	3.28	1.31	1.08	0.16	3.01	13.51	3.15	2.19	4.32	1.73	2.28	0.34	4.04	18.05
4420	3.07	2.62	4.10	1.64	1.32	0.20	3.67	16.62	3.83	2.67	5.40	2.16	2.77	0.42	4.92	22.17
4425	3.58	3.00	4.92	1.97	1.14	0.17	4.25	19.03	4.47	3.05	6.48	2.59	2.40	0.36	5.70	25.05

TABLE 3-5, HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
4430	4.68	4.15	6.36	1.91	2.24	0.34	5.82	25.50	5.62	4.21	8.37	2.51	4.72	0.71	7.42	33.56
4435	6.15	5.55	7.76	2.33	3.60	0.54	7.69	33.62	7.38	5.63	10.21	3.06	7.58	1.14	9.80	44.80
4440	8.80	8.09	11.49	3.45	6.22	0.93	11.06	50.04	10.56	8.21	15.12	4.54	13.10	1.97	14.10	67.60
4445	13.34	11.80	17.03	5.11	6.22	0.93	16.58	71.01	16.00	11.97	22.41	6.72	13.10	1.97	21.14	93.31
4450	22.47	21.48	24.21	7.26	15.39	2.31	28.53	121.65	26.96	21.78	31.86	9.56	32.40	4.86	36.38	163.80
4460	5.28	4.47	6.57	2.63	1.95	0.29	6.30	27.49	6.60	4.55	8.64	3.46	4.11	0.62	8.44	36.42
4465	7.30	6.44	9.48	2.84	3.28	0.49	9.07	38.90	8.76	6.54	12.47	3.74	6.92	1.04	11.56	51.03
4470	9.36	8.55	12.60	3.78	6.22	0.93	11.74	53.18	11.23	8.67	16.58	4.97	13.10	1.97	14.97	71.49
4475	13.22	12.13	15.92	4.78	6.54	0.98	16.60	70.17	15.87	12.31	20.95	6.29	13.78	2.07	21.17	92.44
4480	19.12	17.56	17.81	5.34	9.56	1.43	24.01	94.83	22.94	17.81	23.44	7.03	20.13	3.02	30.61	124.98
4490	3.29	2.73	3.49	1.40	0.88	0.13	3.90	15.82	4.11	2.78	4.59	1.84	1.85	0.28	5.22	20.67
4495	3.79	3.15	10.12	3.24	1.08	0.16	4.50	26.04	4.74	3.21	13.18	4.22	2.28	0.34	6.03	34.00
4500	5.22	4.42	6.77	2.71	1.95	0.29	6.23	27.59	6.53	4.50	8.91	3.56	4.11	0.62	8.34	36.57
4505	6.53	5.64	7.47	2.99	3.13	0.47	7.84	34.07	8.16	5.75	9.83	3.93	6.59	0.99	10.50	45.75
4510	6.52	5.81	9.44	2.83	3.28	0.49	8.13	36.50	7.83	5.89	12.42	3.73	6.92	1.04	10.36	48.19
4515	8.88	8.16	11.82	3.55	6.22	0.93	11.15	50.71	10.65	8.27	15.55	4.67	13.10	1.97	14.22	68.43
4520	12.23	11.32	16.42	4.92	6.54	0.98	15.39	67.80	14.67	11.48	21.60	6.48	13.78	2.07	19.63	89.71
4530	2.28	1.84	2.26	0.63	0.26	0.04	3.06	10.37	2.85	1.87	2.97	0.83	0.52	0.08	4.06	13.18
4535	3.49	2.81	3.28	0.92	0.41	0.06	4.68	15.65	4.36	2.86	4.32	1.21	0.82	0.12	6.22	19.91
4545	2.28	1.87	2.54	0.71	0.45	0.07	3.08	11.00	2.86	1.91	3.35	0.94	0.92	0.14	4.09	14.21
4550	3.51	2.88	3.28	0.92	0.66	0.10	4.74	16.09	4.39	2.93	4.32	1.21	1.30	0.20	6.30	20.65
4560	2.97	2.25	1.73	0.66	0.00	0.00	5.01	12.62	3.71	2.29	2.27	0.86	0.00	0.00	6.83	15.96
4565	3.75	2.84	2.35	0.89	0.00	0.00	6.33	16.16	4.69	2.90	3.09	1.17	0.00	0.00	8.64	20.49
4575	3.48	2.64	2.88	1.09	0.00	0.00	5.88	15.97	4.35	2.69	3.79	1.44	0.00	0.00	8.02	20.29
4585	1.37	0.58	0.00	0.11	0.00	0.00	1.72	3.78								
4590	1.29	0.55	0.00	0.11	0.00	0.00	1.62	3.57								
4600	1.46	0.62	0.00	0.20	0.00	0.00	1.83	4.11								
4605	2.20	0.93	0.00	0.27	0.00	0.00	2.75	6.15								
4615	1.72	0.73	0.00	0.22	0.00	0.00	2.16	4.83								
4620	2.32	0.99	0.00	0.40	0.00	0.00	2.91	6.62								
4625	2.72	1.16	0.00	0.63	0.00	0.00	3.41	7.92								
4635	3.78	1.61	0.00	0.05	0.00	0.00	4.73	10.17								
4640	3.92	1.67	0.00	0.05	0.00	0.00	4.91	10.55								
4645	6.76	2.87	0.00	0.05	0.00	0.00	8.46	18.14								
4650	7.17	3.05	0.00	0.05	0.00	0.00	8.98	19.25								
4660	3.75	1.59	0.00	0.34	0.00	0.00	4.69	10.37								
4665	4.29	1.82	0.00	0.40	0.00	0.00	5.37	11.88								
4670	4.93	2.09	0.00	0.48	0.00	0.00	6.17	13.67								
4675	5.40	2.29	0.00	0.59	0.00	0.00	6.76	15.04								
4680	6.04	2.56	0.00	0.51	0.00	0.00	7.56	16.67								
4685	7.23	3.07	0.00	0.76	0.00	0.00	9.05	20.11								
4690	8.56	3.64	0.00	0.76	0.00	0.00	10.72	23.68								
4695	10.05	4.27	0.00	0.92	0.00	0.00	12.59	27.83								
4700	16.93	7.19	0.00	1.01	0.00	0.00	21.19	46.32								
4710	2.76	1.17	0.00	0.40	0.00	0.00	3.45	7.78								
4715	3.26	1.39	0.00	0.52	0.00	0.00	4.08	9.25								
4720	4.44	1.89	0.00	0.52	0.00	0.00	5.56	12.41								
4725	1.15	0.49	0.00	0.20	0.00	0.00	1.44	3.28								
4730	1.44	0.61	0.00	0.27	0.00	0.00	1.80	4.12								
4735	1.85	0.79	0.00	0.34	0.00	0.00	2.31	5.29								
4745	4.76	2.02	0.00	0.54	0.00	0.00	5.96	13.28								
4750	5.46	2.32	0.00	0.63	0.00	0.00	6.84	15.25								
4755	5.86	2.49	0.00	0.76	0.00	0.00	7.33	16.44								
4760	7.05	2.99	0.00	0.88	0.00	0.00	8.82	19.74								
4765	8.88	3.77	0.00	0.92	0.00	0.00	11.12	24.69								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
4770	12.81	5.44	0.00	1.09	0.00	0.00	16.04	35.38								
4780	6.69	2.84	2.42	0.68	0.00	0.00	8.37	21.00								
4785	13.07	5.55	6.40	1.79	0.00	0.00	16.36	43.17								
4790	17.83	7.58	12.11	3.39	0.00	0.00	22.32	63.23								
4800	5.32	4.70	2.38	0.76	0.00	0.00	3.16	16.32	6.38	4.77	3.06	0.98	0.00	0.00	4.26	19.45
4805	8.94	7.91	4.54	1.45	0.00	0.00	5.31	28.15	10.73	8.02	5.83	1.87	0.00	0.00	7.17	33.62
4810	10.23	9.05	4.54	1.45	0.00	0.00	6.08	31.35	12.28	9.17	5.83	1.87	0.00	0.00	8.20	37.35
4815	13.05	11.55	6.80	2.18	0.00	0.00	7.76	41.34	15.67	11.71	8.75	2.80	0.00	0.00	10.47	49.40
4820	18.82	16.66	9.30	2.98	0.00	0.00	11.18	58.94	22.59	16.88	11.96	3.83	0.00	0.00	15.09	70.35
4830	2.15	1.17	0.00	0.17	0.00	0.00	2.69	6.18								
4835	3.36	1.84	0.00	0.23	0.00	0.00	4.20	9.63								
4845	0.42	0.28	1.19	0.38	0.00	0.00	0.46	2.73								
4850	0.52	0.35	1.79	0.57	0.00	0.00	0.58	3.81								
4860	0.03	0.02	0.24	0.08	0.00	0.00	0.03	0.40								
4865	0.03	0.02	0.36	0.11	0.00	0.00	0.04	0.56								
4870	0.06	0.04	0.95	0.31	0.00	0.00	0.07	1.43								
4880	0.55	0.37	5.13	1.64	0.00	0.00	0.61	8.30								
4885	0.31	0.21	1.72	0.65	0.00	0.00	0.35	3.24								
4890	0.73	0.49	9.42	3.01	0.00	0.00	0.81	14.46								
4895	1.05	0.70	3.43	1.31	0.00	0.00	1.17	7.66								
4900	1.35	0.90	4.01	1.52	0.00	0.00	1.50	9.28								
4905	1.43	0.96	3.89	1.48	0.00	0.00	1.59	9.35								
4915	0.06	0.04	0.60	0.19	0.00	0.00	0.06	0.95								
4920	0.08	0.05	0.95	0.31	0.00	0.00	0.09	1.48								
4925	0.15	0.10	1.91	0.61	0.00	0.00	0.17	2.94								
4935	0.07	0.04	0.36	0.11	0.00	0.00	0.07	0.65								
4940	0.08	0.05	0.36	0.11	0.00	0.00	0.09	0.69								
4950	0.08	0.06	0.12	0.05	0.00	0.00	0.05	0.36								
4955	0.10	0.07	0.23	0.11	0.00	0.00	0.06	0.57								
4965	3.22	1.76	0.00	0.06	0.00	0.00	3.54	8.58	4.30	1.82	0.00	0.06	0.00	0.00	5.31	11.49
4970	0.25	0.14	0.00	0.00	0.00	0.00	0.28	0.67	0.34	0.14	0.00	0.00	0.00	0.00	0.41	0.89
4975	1.87	1.02	0.00	0.06	0.00	0.00	2.05	5.00	2.49	1.05	0.00	0.06	0.00	0.00	3.08	6.68
4980	0.34	0.19	0.00	0.00	0.00	0.00	0.38	0.91	0.46	0.19	0.00	0.00	0.00	0.00	0.57	1.22
4985	1.56	0.85	0.00	0.06	0.00	0.00	1.71	4.18	2.08	0.88	0.00	0.06	0.00	0.00	2.57	5.59
4990	0.24	0.13	0.00	0.00	0.00	0.00	0.27	0.64	0.32	0.14	0.00	0.00	0.00	0.00	0.40	0.86
4995	0.71	0.39	0.00	0.06	0.00	0.00	0.78	1.94	0.95	0.40	0.00	0.06	0.00	0.00	1.17	2.58
5000	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
5005	1.60	0.87	0.00	0.06	0.00	0.00	1.76	4.29	2.14	0.91	0.00	0.06	0.00	0.00	2.64	5.75
5010	0.14	0.08	0.00	0.00	0.00	0.00	0.16	0.38	0.19	0.08	0.00	0.00	0.00	0.00	0.24	0.51
5015	1.18	0.64	0.00	0.06	0.00	0.00	1.29	3.17	1.57	0.66	0.00	0.06	0.00	0.00	1.94	4.23
5020	0.11	0.06	0.00	0.00	0.00	0.00	0.12	0.29	0.14	0.06	0.00	0.00	0.00	0.00	0.17	0.37
5025	0.66	0.36	0.00	0.06	0.00	0.00	0.73	1.81	0.88	0.37	0.00	0.06	0.00	0.00	1.09	2.40
5030	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
5035	1.81	0.99	0.00	0.06	0.00	0.00	1.99	4.85	2.42	1.02	0.00	0.06	0.00	0.00	2.98	6.48
5040	0.14	0.08	0.00	0.00	0.00	0.00	0.16	0.38	0.19	0.08	0.00	0.00	0.00	0.00	0.24	0.51
5045	1.76	0.96	0.00	0.06	0.00	0.00	1.93	4.71	2.35	0.99	0.00	0.06	0.00	0.00	2.90	6.30
5050	0.34	0.18	0.00	0.00	0.00	0.00	0.37	0.89	0.45	0.19	0.00	0.00	0.00	0.00	0.55	1.19
5055	1.60	0.87	0.00	0.06	0.00	0.00	1.76	4.29	2.14	0.91	0.00	0.06	0.00	0.00	2.64	5.75
5060	0.14	0.08	0.00	0.00	0.00	0.00	0.16	0.38	0.19	0.08	0.00	0.00	0.00	0.00	0.24	0.51
5065	0.55	0.37	0.00	0.06	0.00	0.00	0.61	1.59	0.69	0.38	0.00	0.06	0.00	0.00	0.85	1.98
5075	3.78	2.06	0.00	0.06	0.00	0.00	4.15	10.05	5.04	2.13	0.00	0.06	0.00	0.00	6.23	13.46
5080	0.28	0.15	0.00	0.00	0.00	0.00	0.30	0.73	0.37	0.16	0.00	0.00	0.00	0.00	0.46	0.99
5085	4.04	2.20	0.00	0.00	0.00	0.00	4.44	10.68	5.39	2.28	0.00	0.00	0.00	0.00	6.65	14.32
5090	2.97	1.62	0.00	0.06	0.00	0.00	3.26	7.91	3.96	1.68	0.00	0.06	0.00	0.00	4.89	10.59
5095	0.15	0.08	0.00	0.00	0.00	0.00	0.16	0.39	0.20	0.08	0.00	0.00	0.00	0.00	0.24	0.52

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
5100	2.76	1.50	0.00	0.06	0.00	0.00	3.03	7.35	3.68	1.56	0.00	0.06	0.00	0.00	4.55	9.85
5105	2.10	1.14	0.00	0.06	0.00	0.00	2.30	5.60	2.80	1.18	0.00	0.06	0.00	0.00	3.45	7.49
5110	0.14	0.08	0.00	0.00	0.00	0.00	0.15	0.37	0.19	0.08	0.00	0.00	0.00	0.00	0.23	0.50
5115	2.04	1.11	0.00	0.06	0.00	0.00	2.23	5.44	2.71	1.15	0.00	0.06	0.00	0.00	3.35	7.27
5120	1.22	0.66	0.00	0.06	0.00	0.00	1.34	3.28	1.63	0.69	0.00	0.06	0.00	0.00	2.01	4.39
5125	0.07	0.04	0.00	0.00	0.00	0.00	0.08	0.19	0.10	0.04	0.00	0.00	0.00	0.00	0.12	0.26
5130	0.76	0.42	0.00	0.06	0.00	0.00	0.84	2.08	1.02	0.43	0.00	0.06	0.00	0.00	1.26	2.77
5135	0.04	0.02	0.00	0.00	0.00	0.00	0.04	0.10	0.05	0.02	0.00	0.00	0.00	0.00	0.06	0.13
5140	0.47	0.26	0.00	0.06	0.00	0.00	0.52	1.31	0.63	0.27	0.00	0.06	0.00	0.00	0.78	1.74
5145	0.02	0.01	0.00	0.00	0.00	0.00	0.02	0.05	0.03	0.01	0.00	0.00	0.00	0.00	0.03	0.07
5150	0.21	0.11	0.00	0.06	0.00	0.00	0.23	0.61	0.28	0.12	0.00	0.06	0.00	0.00	0.35	0.81
5155	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.04
5165	4.29	2.34	0.00	0.05	0.00	0.00	4.71	11.39	5.72	2.42	0.00	0.05	0.00	0.00	7.07	15.26
5170	3.48	1.89	0.00	0.05	0.00	0.00	3.82	9.24	4.64	1.96	0.00	0.05	0.00	0.00	5.73	12.38
5175	2.26	1.23	0.00	0.05	0.00	0.00	2.48	6.02	3.01	1.27	0.00	0.05	0.00	0.00	3.72	8.05
5180	2.14	1.16	0.00	0.05	0.00	0.00	2.35	5.70	2.85	1.21	0.00	0.05	0.00	0.00	3.52	7.63
5190	1.74	1.22	9.25	2.22	0.21	0.03	2.24	16.91								
5195	2.16	1.51	3.12	0.75	0.21	0.03	2.77	10.55								
5200	2.07	1.46	9.25	2.22	0.26	0.04	2.67	17.97								
5205	2.29	1.60	3.12	0.75	0.26	0.04	2.95	11.01								
5210	2.10	1.49	9.25	2.22	0.30	0.05	2.71	18.12								
5215	2.38	1.68	3.12	0.75	0.30	0.05	3.06	11.34								
5220	5.04	3.58	4.80	1.15	0.73	0.11	6.50	21.91								
5235	2.64	2.66	0.00	0.05	1.79	0.27	3.77	11.18								
5240	3.30	3.10	0.00	0.05	1.79	0.27	4.60	13.11								
5250	2.75	3.13	0.00	0.08	2.59	0.39	4.08	13.02								
5255	2.90	2.84	0.00	0.08	1.79	0.27	4.10	11.98								
5265	0.83	0.56	0.00	0.11	0.00	0.00	1.06	2.56								
5270	1.01	0.68	0.00	0.11	0.00	0.00	1.29	3.09								
5275	1.63	1.10	0.00	0.11	0.00	0.00	2.07	4.91								
5280	2.49	1.68	0.00	0.11	0.00	0.00	3.17	7.45								
5285	4.09	2.76	0.00	0.11	0.00	0.00	5.22	12.18								
5290	2.23	1.50	0.00	0.11	0.00	0.00	2.85	6.69								
5295	2.91	1.96	0.00	0.11	0.00	0.00	3.70	8.68								
5300	4.82	3.25	0.00	0.11	0.00	0.00	6.14	14.32								
5310	7.92	5.34	6.98	1.67	0.00	0.00	10.10	32.01								
5315	14.08	9.48	12.72	3.05	0.00	0.00	17.95	57.28								
5320	14.82	9.98	12.72	3.05	0.00	0.00	18.89	59.46								
5330	15.90	10.71	13.54	3.25	0.00	0.00	20.27	63.67								
5340	2.68	1.81	9.25	2.22	0.00	0.00	3.42	19.38								
5345	2.96	1.99	3.12	0.75	0.00	0.00	3.77	12.59								
5350	3.25	2.19	9.25	2.22	0.00	0.00	4.15	21.06								
5355	3.53	2.38	3.53	0.85	0.00	0.00	4.50	14.79								
5360	3.45	2.33	9.25	2.22	0.00	0.00	4.40	21.65								
5365	3.73	2.51	3.53	0.85	0.00	0.00	4.76	15.38								
5370	1.65	1.11	4.58	1.10	0.00	0.00	2.10	10.54								
5375	2.22	1.49	9.25	2.22	0.00	0.00	2.82	18.00								
5380	2.50	1.68	3.12	0.75	0.00	0.00	3.18	11.23								
5385	2.68	1.81	9.25	2.22	0.00	0.00	3.42	19.38								
5390	2.96	1.99	3.12	0.75	0.00	0.00	3.77	12.59								
5395	2.90	1.96	9.25	2.22	0.00	0.00	3.70	20.03								
5400	3.18	2.15	3.12	0.75	0.00	0.00	4.06	13.26								
5410	5.05	3.12	4.41	1.06	0.00	0.00	10.08	23.72								
5415	5.51	3.41	4.41	1.06	0.00	0.00	11.01	25.40								
5420	3.38	2.09	2.80	0.67	0.00	0.00	6.76	15.70								

TABLE 3-5, HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
5430	2.24	1.38	2.06	0.49	0.00	0.00	4.48	10.65								
5435	2.67	1.65	2.23	0.54	0.00	0.00	5.33	12.42								
5445	5.71	3.53	4.29	1.03	0.00	0.00	11.42	25.98								
5455	5.82	3.69	6.87	1.65	0.35	0.05	11.71	30.14								
5460	6.70	4.23	6.87	1.65	0.35	0.05	13.48	33.33								
5465	6.60	4.17	8.47	2.03	0.35	0.05	13.27	34.94								
5475	4.72	3.01	7.15	1.72	0.35	0.05	9.52	26.52								
5480	5.00	3.18	7.15	1.72	0.35	0.05	10.08	27.53								
5485	5.75	3.65	7.15	1.72	0.35	0.05	11.58	30.25								
5490	5.26	3.35	7.15	1.72	0.35	0.05	10.61	28.49								
5500	9.31	5.93	12.02	2.88	0.65	0.10	18.77	49.66								
5505	5.92	3.75	6.58	1.58	0.35	0.05	11.92	30.15								
5515	7.12	4.49	5.04	1.21	0.35	0.05	14.32	32.58								
5520	6.01	3.91	6.81	1.63	0.74	0.11	12.20	31.41								
5530	7.02	5.19	6.32	2.15	3.83	0.57	8.55	33.63	8.77	5.30	8.26	2.81	5.45	0.82	11.32	42.73
5535	13.64	10.23	12.47	3.37	7.25	1.09	13.73	61.78	17.05	10.45	16.39	4.43	11.39	1.71	18.39	79.81
5540	15.59	11.39	13.90	3.34	7.50	1.12	16.71	69.55	19.49	11.64	18.18	4.36	10.65	1.60	22.28	88.20
5545	16.26	11.98	17.98	4.50	12.17	1.83	16.30	81.02	20.33	12.24	23.33	5.83	16.90	2.53	21.83	102.99
5550	17.39	12.74	17.98	4.50	12.17	1.83	17.40	84.01	21.73	13.02	23.33	5.83	16.90	2.53	23.31	106.65
5555	21.23	15.84	17.01	4.59	10.78	1.62	21.34	92.41	26.53	16.18	22.36	6.04	16.93	2.54	28.58	119.16
5560	24.56	18.07	18.95	4.55	12.82	1.92	26.36	107.23	30.70	18.46	24.79	5.95	18.22	2.73	35.15	136.00
5565	26.69	19.50	28.17	7.04	18.10	2.71	26.69	128.90	33.36	19.92	36.55	9.14	25.14	3.77	35.74	163.62
5570	27.96	20.35	28.17	7.04	18.10	2.71	27.94	132.27	34.95	20.80	36.55	9.14	25.14	3.77	37.41	167.76
5575	26.25	19.57	20.79	5.61	13.23	1.98	26.39	113.82	32.82	20.00	27.32	7.38	20.78	3.12	35.35	146.77
5580	27.47	20.39	20.79	5.61	13.23	1.98	27.59	117.06	34.34	20.83	27.32	7.38	20.78	3.12	36.95	150.72
5585	34.29	25.17	37.96	9.49	24.55	3.68	34.34	169.48	42.87	25.72	49.25	12.31	34.10	5.12	45.99	215.36
5595	6.43	4.72	6.74	2.29	3.28	0.49	7.82	31.77	8.04	4.83	8.81	3.00	4.67	0.70	10.35	40.40
5600	7.40	5.42	7.33	2.49	3.64	0.55	9.00	35.83	9.25	5.54	9.58	3.26	5.17	0.78	11.91	45.49
5605	9.59	7.12	9.77	2.35	5.56	0.83	10.32	45.54	11.98	7.28	12.78	3.07	7.90	1.19	13.76	57.96
5610	13.39	9.71	11.79	2.83	8.23	1.23	14.32	61.50	16.74	9.92	15.42	3.70	11.43	1.71	19.10	78.02
5615	16.29	11.93	13.65	3.28	8.07	1.21	17.47	71.90	20.37	12.19	17.85	4.28	11.47	1.72	23.29	91.17
5625	10.73	7.89	9.65	2.31	5.56	0.83	11.51	48.48	13.41	8.06	12.61	3.03	7.90	1.19	15.35	61.55
5630	15.13	11.15	12.28	3.32	6.73	1.01	15.16	64.78	18.91	11.39	16.15	4.36	10.57	1.59	20.31	83.28
5635	18.41	13.28	13.69	3.29	7.50	1.12	19.66	76.95	23.01	13.57	17.90	4.30	10.65	1.60	26.22	97.25
5640	17.98	13.14	19.82	4.96	12.17	1.83	17.99	87.89	22.48	13.42	25.71	6.43	16.90	2.53	24.09	111.56
5645	21.68	15.55	20.89	5.01	11.39	1.71	23.13	99.36	27.11	15.89	27.32	6.56	15.83	2.37	30.84	125.92
5655	6.87	5.04	7.08	2.41	3.46	0.52	8.35	33.73	8.58	5.15	9.25	3.15	4.92	0.74	11.05	42.84
5660	13.43	10.09	12.32	3.33	7.25	1.09	13.53	61.04	16.79	10.31	16.20	4.37	11.39	1.71	18.12	78.89
5665	16.06	11.84	20.42	5.10	12.17	1.83	16.10	83.52	20.07	12.10	26.49	6.62	16.90	2.53	21.56	106.27
5670	15.21	11.27	13.73	3.30	8.62	1.29	16.35	69.77	19.01	11.52	17.96	4.31	12.25	1.84	21.81	88.70
5675	18.11	13.30	19.32	5.22	10.57	1.59	18.14	86.25	22.63	13.59	25.39	6.85	17.24	2.59	24.29	112.58
5685	7.58	5.52	7.37	2.51	3.46	0.52	9.19	36.15	9.47	5.64	9.64	3.28	4.92	0.74	12.17	45.86
5690	10.05	7.43	10.53	2.53	5.56	0.83	10.80	47.73	12.56	7.59	13.77	3.30	7.90	1.19	14.40	60.71
5700	14.84	11.03	13.06	3.13	8.62	1.29	15.97	67.94	18.55	11.27	17.07	4.10	12.25	1.84	21.30	86.38
5705	22.59	17.07	17.95	4.85	12.90	1.94	22.79	100.09	28.24	17.44	23.60	6.37	20.27	3.04	30.52	129.48
5710	14.76	10.84	11.51	2.88	10.61	1.59	14.78	66.97	18.45	11.07	14.93	3.73	14.74	2.21	19.79	84.92
5715	19.52	14.25	20.78	5.19	13.10	1.97	19.52	94.33	24.41	14.56	26.96	6.74	18.20	2.73	26.15	119.75
5720	26.21	19.13	24.74	6.18	17.59	2.64	26.21	122.70	32.76	19.55	32.09	8.02	24.43	3.66	35.10	155.61
5725	29.60	21.77	28.65	7.16	21.67	3.25	29.65	141.75	37.00	22.24	37.17	9.29	30.09	4.51	39.71	180.01
5735	6.79	5.06	6.78	2.31	4.03	0.60	8.29	33.86	8.49	5.17	8.87	3.02	5.72	0.86	10.97	43.10
5740	14.61	10.87	13.98	3.36	8.62	1.29	15.73	68.46	18.26	11.11	18.29	4.39	12.25	1.84	20.97	87.11
5745	12.39	9.38	12.55	3.39	7.25	1.09	12.50	58.55	15.48	9.59	16.49	4.45	11.39	1.71	16.75	75.86
5750	25.97	19.02	27.25	6.54	18.10	2.71	27.85	127.44	32.47	19.44	35.64	8.55	25.14	3.77	37.13	162.14
5755	24.73	18.19	27.59	6.62	18.10	2.71	26.54	124.48	30.91	18.58	36.08	8.66	25.14	3.77	35.39	158.53
5760	21.24	15.80	19.67	4.72	12.46	1.87	22.87	98.63	26.56	16.15	25.72	6.17	17.71	2.66	30.49	125.46

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
5765	20.43	15.26	17.65	4.77	10.48	1.57	20.55	90.71	25.54	15.59	23.20	6.26	16.46	2.47	27.52	117.04
5770	33.70	25.07	40.69	9.77	27.90	4.18	36.28	177.59	42.12	25.61	53.21	12.77	38.75	5.81	48.37	226.64
5780	2.84	2.67	0.00	0.11	1.91	0.29	2.91	10.73	3.41	2.71	0.00	0.11	2.76	0.41	3.74	13.14
5785	3.85	3.77	0.00	0.11	3.28	0.49	3.98	15.48	4.62	3.83	0.00	0.11	4.74	0.71	5.12	19.13
5795	1.68	1.58	0.00	0.06	1.10	0.16	1.72	6.30	2.02	1.61	0.00	0.06	1.59	0.24	2.21	7.73
5805	2.11	1.78	2.88	0.92	0.00	0.00	3.08	10.77	2.64	1.81	3.79	1.21	0.00	0.00	4.28	13.73
5810	0.49	0.33	0.00	0.06	0.00	0.00	0.54	1.42	0.62	0.34	0.00	0.06	0.00	0.00	0.76	1.78
5815	2.91	2.45	3.32	1.06	0.00	0.00	4.23	13.97	3.63	2.49	4.37	1.40	0.00	0.00	5.88	17.77
5820	0.64	0.42	0.00	0.06	0.00	0.00	0.70	1.82	0.80	0.43	0.00	0.06	0.00	0.00	0.98	2.27
5825	0.50	0.33	0.00	0.06	0.00	0.00	0.54	1.43	0.62	0.34	0.00	0.06	0.00	0.00	0.77	1.79
5830	4.46	3.76	4.65	1.49	0.00	0.00	6.49	20.85	5.57	3.82	6.12	1.96	0.00	0.00	9.02	26.49
5835	0.79	0.53	0.00	0.06	0.00	0.00	0.87	2.25	0.99	0.54	0.00	0.06	0.00	0.00	1.22	2.81
5840	0.61	0.41	0.00	0.06	0.00	0.00	0.67	1.75	0.76	0.42	0.00	0.06	0.00	0.00	0.94	2.18
5845	5.96	5.03	6.20	1.98	0.00	0.00	8.68	27.85	7.45	5.11	8.16	2.61	0.00	0.00	12.06	35.39
5850	0.80	0.53	0.00	0.06	0.00	0.00	0.88	2.27	1.00	0.54	0.00	0.06	0.00	0.00	1.23	2.83
5855	0.90	0.60	0.00	0.06	0.00	0.00	0.99	2.55	1.13	0.62	0.00	0.06	0.00	0.00	1.39	3.20
5860	8.36	7.05	8.86	2.83	0.00	0.00	12.18	39.28	10.45	7.17	11.66	3.73	0.00	0.00	16.92	49.93
5865	1.28	0.86	0.00	0.06	0.00	0.00	1.41	3.61	1.61	0.87	0.00	0.06	0.00	0.00	1.98	4.52
5870	1.41	0.94	0.00	0.06	0.00	0.00	1.55	3.96	1.76	0.96	0.00	0.06	0.00	0.00	2.17	4.95
5875	1.12	0.75	0.00	0.06	0.00	0.00	1.23	3.16	1.40	0.76	0.00	0.06	0.00	0.00	1.73	3.95
5880	10.29	9.10	13.28	3.32	0.00	0.00	15.28	51.27	12.34	9.22	17.50	4.37	0.00	0.00	20.17	63.60
5885	1.87	1.25	0.00	0.06	0.00	0.00	2.06	5.24	2.34	1.28	0.00	0.06	0.00	0.00	2.89	6.57
5890	2.07	1.38	0.00	0.06	0.00	0.00	2.27	5.78	2.58	1.41	0.00	0.06	0.00	0.00	3.19	7.24
5895	1.59	1.06	0.00	0.06	0.00	0.00	1.74	4.45	1.99	1.08	0.00	0.06	0.00	0.00	2.45	5.58
5900	0.05	0.03	0.00	0.00	0.00	0.00	0.05	0.13	0.06	0.03	0.00	0.00	0.00	0.00	0.07	0.16
5905	14.91	13.20	18.15	4.54	0.00	0.00	22.15	72.95	17.89	13.37	23.91	5.98	0.00	0.00	29.23	90.38
5910	2.41	1.61	0.00	0.06	0.00	0.00	2.65	6.73	3.02	1.64	0.00	0.06	0.00	0.00	3.73	8.45
5915	2.06	1.37	0.00	0.06	0.00	0.00	2.26	5.75	2.57	1.40	0.00	0.06	0.00	0.00	3.17	7.20
5920	2.64	1.76	0.00	0.06	0.00	0.00	2.90	7.36	3.30	1.80	0.00	0.06	0.00	0.00	4.08	9.24
5925	1.99	1.33	0.00	0.06	0.00	0.00	2.19	5.57	2.49	1.36	0.00	0.06	0.00	0.00	3.07	6.98
5930	0.47	0.31	0.00	0.11	0.00	0.00	0.52	1.41	0.59	0.32	0.00	0.11	0.00	0.00	0.72	1.74
5935	0.06	0.04	0.00	0.01	0.00	0.00	0.06	0.17	0.07	0.04	0.00	0.01	0.00	0.00	0.09	0.21
5940	25.70	23.36	31.00	6.82	0.00	0.00	40.54	127.42	29.98	23.61	40.82	8.98	0.00	0.00	51.41	154.80
5945	3.92	2.61	0.00	0.06	0.00	0.00	4.30	10.89	4.89	2.67	0.00	0.06	0.00	0.00	6.04	13.66
5950	4.31	2.87	0.00	0.06	0.00	0.00	4.73	11.97	5.39	2.93	0.00	0.06	0.00	0.00	6.65	15.03
5955	0.06	0.04	0.00	0.06	0.00	0.00	0.06	0.22	0.07	0.04	0.00	0.06	0.00	0.00	0.09	0.26
5960	1.23	0.82	0.00	0.06	0.00	0.00	1.35	3.46	1.54	0.84	0.00	0.06	0.00	0.00	1.90	4.34
5970	3.13	2.64	3.90	1.25	0.00	0.00	4.56	15.48	3.91	2.68	5.13	1.64	0.00	0.00	6.33	19.69
5975	0.56	0.37	0.00	0.06	0.00	0.00	0.61	1.60	0.69	0.38	0.00	0.06	0.00	0.00	0.86	1.99
5980	0.54	0.36	0.00	0.05	0.00	0.00	0.59	1.54	0.68	0.37	0.00	0.05	0.00	0.00	0.84	1.94
5985	4.20	3.54	5.40	1.73	0.00	0.00	6.12	20.99	5.25	3.60	7.12	2.28	0.00	0.00	8.50	26.75
5990	0.62	0.41	0.00	0.06	0.00	0.00	0.68	1.77	0.77	0.42	0.00	0.06	0.00	0.00	0.95	2.20
5995	0.74	0.49	0.00	0.05	0.00	0.00	0.81	2.09	0.92	0.50	0.00	0.05	0.00	0.00	1.14	2.61
6000	5.86	4.94	6.64	2.13	0.00	0.00	8.54	28.11	7.33	5.03	8.75	2.80	0.00	0.00	11.86	35.77
6005	0.95	0.63	0.00	0.06	0.00	0.00	1.04	2.68	1.18	0.64	0.00	0.06	0.00	0.00	1.46	3.34
6010	0.92	0.61	0.00	0.05	0.00	0.00	1.01	2.59	1.15	0.63	0.00	0.05	0.00	0.00	1.42	3.25
6015	7.46	6.29	9.87	3.16	0.00	0.00	10.86	37.64	9.32	6.40	13.01	4.16	0.00	0.00	15.09	47.98
6020	1.01	0.67	0.00	0.06	0.00	0.00	1.10	2.84	1.26	0.68	0.00	0.06	0.00	0.00	1.55	3.55
6025	1.06	0.70	0.00	0.06	0.00	0.00	1.16	2.98	1.32	0.72	0.00	0.06	0.00	0.00	1.63	3.73
6030	1.41	0.94	0.00	0.05	0.00	0.00	1.54	3.94	1.76	0.96	0.00	0.05	0.00	0.00	2.17	4.94
6035	10.13	8.97	13.28	3.32	0.00	0.00	15.05	50.75	12.16	9.09	17.50	4.37	0.00	0.00	19.87	62.99
6040	1.95	1.30	0.00	0.05	0.00	0.00	2.14	5.44	2.44	1.33	0.00	0.05	0.00	0.00	3.01	6.83
6045	1.98	1.32	0.00	0.05	0.00	0.00	2.17	5.52	2.48	1.35	0.00	0.05	0.00	0.00	3.06	6.94
6050	13.95	12.34	18.82	4.70	0.00	0.00	20.71	70.52	16.74	12.51	24.79	6.20	0.00	0.00	27.34	87.58
6055	2.94	1.96	0.00	0.05	0.00	0.00	3.22	8.17	3.67	2.00	0.00	0.05	0.00	0.00	4.53	10.25

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS								TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	
6060	3.01	2.00	0.00	0.05	0.00	0.00	3.30	8.36	3.76	2.05	0.00	0.05	0.00	0.00	4.64	10.50	
6065	1.93	1.29	0.00	0.06	0.00	0.00	2.12	5.40	2.42	1.32	0.00	0.06	0.00	0.00	2.98	6.78	
6070	18.75	17.05	23.20	5.10	0.00	0.00	29.59	93.69	21.88	17.23	30.56	6.72	0.00	0.00	37.52	113.91	
6075	3.39	2.26	0.00	0.05	0.00	0.00	3.73	9.43	4.24	2.31	0.00	0.05	0.00	0.00	5.24	11.84	
6080	3.89	2.59	0.00	0.05	0.00	0.00	4.27	10.80	4.86	2.65	0.00	0.05	0.00	0.00	6.00	13.56	
6085	2.22	1.48	0.00	0.06	0.00	0.00	2.43	6.19	2.77	1.51	0.00	0.06	0.00	0.00	3.42	7.76	
6095	2.70	2.28	2.88	0.92	0.00	0.00	3.94	12.72	3.38	2.32	3.79	1.21	0.00	0.00	5.47	16.17	
6100	3.36	2.83	3.45	1.11	0.00	0.00	4.89	15.64	4.19	2.88	4.55	1.46	0.00	0.00	6.79	19.87	
6105	4.66	3.93	4.87	1.56	0.00	0.00	6.78	21.80	5.82	3.99	6.42	2.05	0.00	0.00	9.42	27.70	
6110	5.58	4.70	6.20	1.98	0.00	0.00	8.12	26.58	6.97	4.78	8.16	2.61	0.00	0.00	11.28	33.80	
6115	0.75	0.50	0.00	0.05	0.00	0.00	0.83	2.13	0.94	0.51	0.00	0.05	0.00	0.00	1.16	2.66	
6120	0.85	0.57	0.00	0.05	0.00	0.00	0.93	2.40	1.06	0.58	0.00	0.05	0.00	0.00	1.31	3.00	
6125	8.35	7.04	9.30	2.98	0.00	0.00	12.17	39.84	10.44	7.17	12.25	3.92	0.00	0.00	16.91	50.69	
6130	1.34	0.89	0.00	0.05	0.00	0.00	1.47	3.75	1.67	0.91	0.00	0.05	0.00	0.00	2.06	4.69	
6135	0.90	0.60	0.00	0.05	0.00	0.00	0.99	2.54	1.12	0.61	0.00	0.05	0.00	0.00	1.39	3.17	
6140	9.99	8.84	13.73	3.43	0.00	0.00	14.83	50.82	11.98	8.96	18.08	4.52	0.00	0.00	19.58	63.12	
6145	1.64	1.09	0.00	0.05	0.00	0.00	1.80	4.58	2.05	1.12	0.00	0.05	0.00	0.00	2.53	5.75	
6150	1.35	0.90	0.00	0.05	0.00	0.00	1.48	3.78	1.69	0.92	0.00	0.05	0.00	0.00	2.09	4.75	
6155	0.64	0.42	0.00	0.06	0.00	0.00	0.70	1.82	0.80	0.43	0.00	0.06	0.00	0.00	0.98	2.27	
6160	0.34	0.23	0.00	0.11	0.00	0.00	0.37	1.05	0.42	0.23	0.00	0.11	0.00	0.00	0.52	1.28	
6165	0.05	0.03	0.00	0.06	0.00	0.00	0.06	0.20	0.06	0.04	0.00	0.06	0.00	0.00	0.08	0.24	
6175	1.83	1.54	1.86	0.60	0.00	0.00	2.66	8.49	2.29	1.57	2.45	0.78	0.00	0.00	3.70	10.79	
6180	2.55	2.15	2.88	0.92	0.00	0.00	3.71	12.21	3.18	2.19	3.79	1.21	0.00	0.00	5.15	15.52	
6185	3.04	2.57	3.19	1.02	0.00	0.00	4.43	14.25	3.80	2.61	4.20	1.34	0.00	0.00	6.16	18.11	
6195	2.07	1.75	2.79	0.89	0.00	0.00	3.02	10.52	2.59	1.78	3.67	1.18	0.00	0.00	4.20	13.42	
6200	0.40	0.26	0.00	0.05	0.00	0.00	0.44	1.15	0.50	0.27	0.00	0.05	0.00	0.00	0.61	1.43	
6205	3.11	2.62	3.99	1.28	0.00	0.00	4.53	15.53	3.89	2.67	5.25	1.68	0.00	0.00	6.30	19.79	
6210	0.28	0.19	0.00	0.05	0.00	0.00	0.31	0.83	0.35	0.19	0.00	0.05	0.00	0.00	0.44	1.03	
6215	4.57	3.85	5.23	1.67	0.00	0.00	6.65	21.97	5.71	3.92	6.88	2.20	0.00	0.00	9.24	27.95	
6220	0.47	0.31	0.00	0.05	0.00	0.00	0.52	1.35	0.59	0.32	0.00	0.05	0.00	0.00	0.73	1.69	
6225	6.45	5.44	6.86	2.20	0.00	0.00	9.40	30.35	8.06	5.53	9.04	2.89	0.00	0.00	13.05	38.57	
6230	0.61	0.41	0.00	0.05	0.00	0.00	0.67	1.74	0.77	0.42	0.00	0.05	0.00	0.00	0.95	2.19	
6235	8.12	6.85	9.74	3.12	0.00	0.00	11.83	39.66	10.15	6.97	12.83	4.11	0.00	0.00	16.43	50.49	
6240	0.96	0.64	0.00	0.05	0.00	0.00	1.05	2.70	1.20	0.65	0.00	0.05	0.00	0.00	1.48	3.38	
6245	1.02	0.68	0.00	0.05	0.00	0.00	1.12	2.87	1.28	0.70	0.00	0.05	0.00	0.00	1.58	3.61	
6250	11.68	9.85	14.17	4.53	0.00	0.00	17.02	57.25	14.60	10.02	18.66	5.97	0.00	0.00	23.64	72.89	
6255	1.32	0.88	0.00	0.05	0.00	0.00	1.44	3.69	1.64	0.90	0.00	0.05	0.00	0.00	2.03	4.62	
6260	1.39	0.93	0.00	0.05	0.00	0.00	1.53	3.90	1.74	0.95	0.00	0.05	0.00	0.00	2.15	4.89	
6265	14.29	12.65	18.15	4.54	0.00	0.00	21.23	70.86	17.15	12.82	23.91	5.98	0.00	0.00	28.02	87.88	
6270	1.79	1.19	0.00	0.05	0.00	0.00	1.96	4.99	2.23	1.22	0.00	0.05	0.00	0.00	2.76	6.26	
6275	1.63	1.08	0.00	0.05	0.00	0.00	1.79	4.55	2.03	1.11	0.00	0.05	0.00	0.00	2.51	5.70	
6280	23.49	21.35	27.45	6.04	0.00	0.00	37.06	115.39	27.40	21.58	36.16	7.95	0.00	0.00	47.00	140.09	
6285	4.33	2.89	0.00	0.05	0.00	0.00	4.75	12.02	5.41	2.95	0.00	0.05	0.00	0.00	6.69	15.10	
6290	4.07	2.71	0.00	0.05	0.00	0.00	4.47	11.30	5.09	2.77	0.00	0.05	0.00	0.00	6.28	14.19	
6295	3.81	2.54	0.00	0.05	0.00	0.00	4.18	10.58	4.76	2.59	0.00	0.05	0.00	0.00	5.88	13.28	
6305	8.70	7.34	9.08	2.90	0.00	0.00	12.67	40.69	10.88	7.46	11.96	3.83	0.00	0.00	17.60	51.73	
6310	0.96	0.64	0.00	0.05	0.00	0.00	1.05	2.70	1.20	0.65	0.00	0.05	0.00	0.00	1.48	3.38	
6315	1.07	0.71	0.00	0.05	0.00	0.00	1.17	3.00	1.34	0.73	0.00	0.05	0.00	0.00	1.65	3.77	
6320	1.10	0.73	0.00	0.05	0.00	0.00	1.20	3.08	1.37	0.75	0.00	0.05	0.00	0.00	1.69	3.86	
6325	9.13	8.08	11.51	2.88	0.00	0.00	13.56	45.16	10.96	8.19	15.16	3.79	0.00	0.00	17.91	56.01	
6330	1.35	0.90	0.00	0.05	0.00	0.00	1.48	3.78	1.69	0.92	0.00	0.05	0.00	0.00	2.09	4.75	
6335	1.77	1.18	0.00	0.05	0.00	0.00	1.94	4.94	2.21	1.21	0.00	0.05	0.00	0.00	2.73	6.20	
6340	1.53	1.02	0.00	0.05	0.00	0.00	1.68	4.28	1.92	1.04	0.00	0.05	0.00	0.00	2.37	5.38	
6345	0.44	0.30	0.00	0.10	0.00	0.00	0.49	1.33	0.56	0.30	0.00	0.10	0.00	0.00	0.69	1.65	
6350	13.00	11.51	16.38	4.10	0.00	0.00	19.31	64.30	15.60	11.66	21.58	5.39	0.00	0.00	25.49	79.72	

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
6355	1.77	1.18	0.00	0.00	0.00	0.00	1.94	4.89	2.21	1.20	0.00	0.00	0.00	0.00	2.72	6.13
6360	1.93	1.29	0.00	0.00	0.00	0.00	2.12	5.34	2.42	1.32	0.00	0.00	0.00	0.00	2.99	6.73
6365	1.90	1.26	0.00	0.00	0.00	0.00	2.08	5.24	2.37	1.29	0.00	0.00	0.00	0.00	2.93	6.59
6370	0.07	0.05	0.00	0.00	0.00	0.00	0.08	0.20	0.09	0.05	0.00	0.00	0.00	0.00	0.11	0.25
6375	0.41	0.27	0.00	0.00	0.00	0.00	0.45	1.13	0.51	0.28	0.00	0.00	0.00	0.00	0.63	1.42
6385	7.65	5.65	6.98	1.95	2.85	0.43	6.83	32.34	9.56	5.78	9.18	2.57	7.37	1.11	9.24	44.81
6390	12.86	9.76	12.31	3.45	6.42	0.96	11.56	57.32	16.08	9.97	16.20	4.54	16.62	2.49	15.65	81.55
6400	14.07	10.71	11.24	3.15	7.24	1.09	12.65	60.15	17.58	10.94	14.80	4.14	18.75	2.81	17.13	86.15
6405	22.82	17.44	19.41	5.44	8.69	1.30	20.54	95.64	28.53	17.82	25.54	7.15	22.50	3.37	27.82	132.73
6415	0.90	0.65	1.76	0.49	0.20	0.03	0.80	4.83	1.13	0.66	2.32	0.65	0.47	0.07	1.08	6.38
6420	1.02	0.73	2.05	0.57	0.19	0.03	0.90	5.49	1.28	0.74	2.70	0.76	0.45	0.07	1.22	7.22
6425	1.38	0.98	2.54	0.71	0.23	0.03	1.22	7.09	1.72	1.00	3.35	0.94	0.51	0.08	1.65	9.25
6435	0.18	0.13	0.78	0.25	0.06	0.01	0.25	1.66	0.22	0.14	1.01	0.32	0.10	0.01	0.34	2.14
6440	0.84	0.59	1.47	0.47	0.09	0.01	1.14	4.61	1.05	0.60	1.92	0.61	0.19	0.03	1.58	5.98
6445	0.97	0.68	2.42	0.77	0.07	0.01	1.31	6.23	1.22	0.69	3.15	1.01	0.15	0.02	1.82	8.06
6450	2.11	1.49	2.63	0.74	0.30	0.04	2.85	10.16	2.64	1.52	3.46	0.97	0.63	0.09	3.96	13.27
6455	4.49	3.24	4.31	1.21	1.11	0.17	6.09	20.62	5.61	3.31	5.67	1.59	2.33	0.35	8.46	27.32
6465	7.43	5.10	4.10	1.15	0.00	0.00	9.97	27.75	9.29	5.21	5.40	1.51	0.00	0.00	13.84	35.25
6470	10.72	7.36	7.18	2.01	0.00	0.00	14.38	41.65	13.41	7.51	9.45	2.65	0.00	0.00	19.97	52.99
6480	8.69	5.96	3.45	0.97	0.00	0.00	11.65	30.72	10.87	6.09	4.54	1.27	0.00	0.00	16.19	38.96
6485	15.11	10.36	7.18	2.01	0.00	0.00	20.26	54.92	18.89	10.58	9.45	2.65	0.00	0.00	28.14	69.71
6500	0.53	0.32	4.11	1.32	0.09	0.01	0.59	6.97	0.71	0.33	5.35	1.71	0.16	0.02	0.90	9.18
6505	0.67	0.40	4.11	1.32	0.10	0.01	0.74	7.35	0.89	0.41	5.35	1.71	0.19	0.03	1.13	9.71
6510	0.55	0.34	4.11	1.32	0.15	0.02	0.62	7.11	0.74	0.35	5.35	1.71	0.26	0.04	0.94	9.39
6515	0.68	0.41	4.11	1.32	0.17	0.03	0.75	7.47	0.90	0.43	5.35	1.71	0.34	0.05	1.15	9.93
6520	0.61	0.39	4.11	1.32	0.24	0.04	0.69	7.40	0.82	0.40	5.35	1.71	0.44	0.07	1.05	9.84
6525	1.12	0.70	8.27	2.65	0.40	0.06	1.26	14.46	1.50	0.73	10.69	3.42	0.73	0.11	1.92	19.10
6530	1.60	0.97	4.67	1.31	0.40	0.06	1.78	10.79	2.13	1.01	6.03	1.69	0.73	0.11	2.71	14.41
6535	1.34	0.83	9.51	3.04	0.40	0.06	1.50	16.68	1.79	0.86	12.29	3.93	0.73	0.11	2.28	21.99
6540	1.82	1.10	4.67	1.31	0.40	0.06	2.02	11.38	2.43	1.14	6.03	1.69	0.73	0.11	3.08	15.21
6545	1.48	0.92	9.51	3.04	0.48	0.07	1.65	17.15	1.97	0.95	12.29	3.93	0.89	0.13	2.52	22.68
6550	1.83	1.17	4.67	1.31	0.82	0.12	2.07	11.99	2.44	1.21	6.03	1.69	1.57	0.23	3.15	16.32
6555	2.23	1.40	17.82	5.70	0.82	0.12	2.51	30.60	2.98	1.45	23.08	7.39	1.57	0.23	3.82	40.52
6560	3.11	1.93	7.35	2.06	0.99	0.15	3.48	19.07	4.15	2.00	9.66	2.70	1.87	0.28	5.31	25.97
6565	3.26	2.02	7.35	2.06	1.01	0.15	3.65	19.50	4.35	2.09	9.66	2.70	1.91	0.29	5.56	26.56
6570	3.07	1.91	7.35	2.06	1.01	0.15	3.44	18.99	4.10	1.97	9.66	2.70	1.91	0.29	5.24	25.87
6575	3.63	2.23	7.35	2.06	1.01	0.15	4.05	20.48	4.84	2.30	9.66	2.70	1.91	0.29	6.17	27.87
6580	4.78	2.93	10.04	2.81	1.34	0.20	5.33	27.43	6.37	3.03	13.19	3.69	2.54	0.38	8.12	37.32
6585	5.06	3.11	10.04	2.81	1.45	0.22	5.65	28.34	6.75	3.22	13.19	3.69	2.70	0.40	8.61	38.56
6590	4.78	2.95	10.04	2.81	1.45	0.22	5.34	27.59	6.37	3.05	13.19	3.69	2.70	0.40	8.14	37.54
6595	4.77	2.91	12.01	3.36	1.20	0.18	5.31	29.74	6.37	3.01	15.79	4.42	2.29	0.34	8.10	40.32
6605	0.58	0.35	3.54	1.13	0.11	0.02	0.64	6.37	0.77	0.36	4.60	1.47	0.20	0.03	0.98	8.41
6610	0.68	0.41	4.58	1.47	0.11	0.02	0.76	8.03	0.91	0.42	5.96	1.91	0.20	0.03	1.15	10.58
6615	0.78	0.46	4.58	1.47	0.11	0.02	0.87	8.29	1.05	0.48	5.96	1.91	0.22	0.03	1.32	10.97
6620	0.64	0.39	4.58	1.47	0.12	0.02	0.71	7.93	0.86	0.40	5.96	1.91	0.21	0.03	1.09	10.46
6625	0.74	0.44	4.58	1.47	0.13	0.02	0.82	8.20	0.99	0.46	5.96	1.91	0.26	0.04	1.25	10.87
6630	0.59	0.36	4.32	1.38	0.17	0.03	0.66	7.51	0.79	0.38	5.62	1.80	0.29	0.04	1.00	9.92
6635	0.87	0.54	8.86	2.84	0.29	0.04	0.97	14.41	1.16	0.56	11.46	3.67	0.52	0.08	1.49	18.94
6640	1.02	0.65	8.86	2.84	0.40	0.06	1.15	14.98	1.36	0.67	11.46	3.67	0.73	0.11	1.75	19.75
6645	1.46	0.90	4.41	1.23	0.40	0.06	1.63	10.09	1.95	0.93	5.69	1.59	0.73	0.11	2.49	13.49
6650	1.10	0.71	10.10	3.23	0.48	0.07	1.25	16.94	1.47	0.73	13.05	4.18	0.89	0.13	1.90	22.35
6655	1.65	1.04	4.41	1.23	0.63	0.09	1.86	10.91	2.20	1.08	5.69	1.59	1.15	0.17	2.83	14.71
6660	2.02	1.32	16.78	5.37	1.07	0.16	2.29	29.01	2.69	1.36	21.73	6.95	2.03	0.31	3.49	38.56
6665	2.42	1.55	8.11	2.27	1.07	0.16	2.73	18.31	3.23	1.60	10.65	2.98	2.03	0.31	4.17	24.97
6670	2.78	1.71	8.15	2.28	0.78	0.12	3.10	18.92	3.71	1.77	10.71	3.00	1.43	0.21	4.73	25.56

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
6675	3.02	1.89	8.15	2.28	1.07	0.16	3.38	19.95	4.02	1.95	10.71	3.00	2.03	0.31	5.15	27.17
6680	4.14	2.48	6.62	1.85	0.78	0.12	4.59	20.58	5.52	2.57	8.56	2.40	1.43	0.21	6.99	27.68
6685	4.18	2.55	11.89	3.33	1.07	0.16	4.65	27.83	5.57	2.63	15.62	4.37	2.03	0.31	7.09	37.62
6690	4.98	3.03	12.18	3.41	1.20	0.18	5.54	30.52	6.64	3.13	16.01	4.48	2.26	0.34	8.44	41.30
6695	5.15	3.10	11.76	3.29	1.07	0.16	5.72	30.25	6.87	3.21	15.46	4.33	2.03	0.31	8.72	40.93
6705	0.60	0.36	2.54	0.81	0.11	0.02	0.66	5.10	0.80	0.37	3.30	1.06	0.22	0.03	1.01	6.79
6710	0.87	0.54	7.90	2.53	0.29	0.04	0.98	13.15	1.16	0.56	10.21	3.27	0.52	0.08	1.49	17.29
6715	0.90	0.56	7.90	2.53	0.29	0.04	1.01	13.23	1.21	0.58	10.21	3.27	0.52	0.08	1.54	17.41
6720	1.30	0.78	4.75	1.33	0.29	0.04	1.44	9.93	1.73	0.81	6.14	1.72	0.52	0.08	2.20	13.20
6725	0.97	0.60	10.15	3.25	0.29	0.04	1.08	16.38	1.29	0.62	13.12	4.20	0.52	0.08	1.64	21.47
6730	1.46	0.90	5.18	1.45	0.40	0.06	1.63	11.08	1.95	0.93	6.70	1.87	0.73	0.11	2.49	14.78
6735	1.11	0.70	10.20	3.27	0.40	0.06	1.25	16.99	1.48	0.72	13.19	4.22	0.73	0.11	1.90	22.35
6740	1.92	1.16	6.05	1.69	0.40	0.06	2.13	13.41	2.56	1.20	7.81	2.19	0.73	0.11	3.25	17.85
6745	3.09	1.93	8.82	2.47	1.07	0.16	3.46	21.00	4.12	1.99	11.59	3.25	2.03	0.31	5.28	28.57
6750	3.76	2.31	9.66	2.70	1.07	0.16	4.20	23.86	5.02	2.39	12.70	3.55	2.03	0.31	6.40	32.40
6755	3.98	2.43	12.18	3.41	1.07	0.16	4.43	27.66	5.30	2.52	16.01	4.48	2.03	0.31	6.75	37.40
6760	3.84	2.35	9.45	2.65	1.07	0.16	4.28	23.80	5.11	2.43	12.42	3.48	2.03	0.31	6.52	32.30
6765	4.14	2.53	12.18	3.41	1.07	0.16	4.61	28.10	5.52	2.61	16.01	4.48	2.03	0.31	7.03	37.99
6775	4.06	2.49	12.18	3.41	1.14	0.17	4.53	27.98	5.42	2.58	16.01	4.48	2.16	0.32	6.91	37.88
6780	3.96	2.44	12.18	3.41	1.14	0.17	4.42	27.72	5.28	2.52	16.01	4.48	2.16	0.32	6.74	37.51
6785	4.58	2.79	12.18	3.41	1.14	0.17	5.10	29.37	6.11	2.88	16.01	4.48	2.16	0.32	7.77	39.73
6790	4.95	3.00	12.18	3.41	1.14	0.17	5.50	30.35	6.60	3.10	16.01	4.48	2.16	0.32	8.38	41.05
6800	4.63	2.85	10.50	2.94	1.31	0.20	5.17	27.60	6.17	2.94	13.80	3.86	2.40	0.36	7.87	37.40
6805	5.19	3.14	14.70	4.12	1.14	0.17	5.77	34.25	6.92	3.24	19.32	5.41	2.16	0.32	8.79	46.16
6810	5.63	3.39	14.70	4.12	1.14	0.17	6.25	35.40	7.51	3.50	19.32	5.41	2.16	0.32	9.52	47.74
6815	5.86	3.52	14.70	4.12	1.14	0.17	6.50	36.01	7.82	3.64	19.32	5.41	2.16	0.32	9.91	48.58
6820	8.01	4.74	14.70	4.12	1.14	0.17	8.85	41.73	10.68	4.91	19.32	5.41	2.16	0.32	13.48	56.28
6830	2.11	1.15	0.00	0.08	0.00	0.00	2.05	5.39								
6835	2.61	1.43	0.00	0.08	0.00	0.00	2.54	6.66								
6840	3.95	2.16	0.00	0.08	0.00	0.00	3.85	10.04								
6845	4.92	2.69	0.00	0.08	0.00	0.00	4.79	12.48								
6850	5.55	3.04	0.00	0.08	0.00	0.00	5.41	14.08								
6860	0.46	0.25	0.00	0.07	0.00	0.00	0.45	1.23	0.61	0.26	0.00	0.07	0.00	0.00	0.68	1.62
6865	0.73	0.40	0.00	0.07	0.00	0.00	0.71	1.91	0.97	0.41	0.00	0.07	0.00	0.00	1.08	2.53
6870	0.73	0.40	0.00	0.07	0.00	0.00	0.71	1.91	0.98	0.42	0.00	0.07	0.00	0.00	1.09	2.56
6875	0.74	0.41	0.00	0.07	0.00	0.00	0.73	1.95	0.99	0.42	0.00	0.07	0.00	0.00	1.11	2.59
6885	0.15	0.08	0.00	0.00	0.00	0.00	0.15	0.38								
6890	0.16	0.09	0.00	0.00	0.00	0.00	0.16	0.41								
6895	0.17	0.10	0.00	0.00	0.00	0.00	0.17	0.44								
6900	0.21	0.11	0.00	0.00	0.00	0.00	0.20	0.52								
6905	0.23	0.12	0.00	0.00	0.00	0.00	0.22	0.57								
6910	0.22	0.12	0.00	0.00	0.00	0.00	0.21	0.55								
6915	0.06	0.03	0.00	0.00	0.00	0.00	0.06	0.15								
6925	0.16	0.09	0.00	0.07	0.00	0.00	0.16	0.48								
6930	0.21	0.12	0.00	0.07	0.00	0.00	0.21	0.61								
6935	0.58	0.32	0.00	0.07	0.00	0.00	0.56	1.53								
6940	0.64	0.35	0.00	0.07	0.00	0.00	0.63	1.69								
6950	2.04	1.11	0.00	0.11	0.00	0.00	1.98	5.24								
6955	2.07	1.13	0.00	0.11	0.00	0.00	2.01	5.32								
6960	2.09	1.14	0.00	0.11	0.00	0.00	2.03	5.37								
6965	2.12	1.16	0.00	0.11	0.00	0.00	2.06	5.45								
6975	0.84	0.46	0.61	0.19	0.00	0.00	0.82	2.92								
6980	0.88	0.48	0.61	0.19	0.00	0.00	0.86	3.02								
6985	0.93	0.51	0.61	0.19	0.00	0.00	0.91	3.15								
6995	1.45	1.23	0.00	0.07	0.58	0.09	1.58	5.00	1.81	1.25	0.00	0.07	0.80	0.12	2.26	6.31

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
7000	1.68	1.41	0.00	0.07	0.62	0.09	1.83	5.70	2.10	1.44	0.00	0.07	0.86	0.13	2.62	7.22
7005	1.71	1.43	0.00	0.07	0.62	0.09	1.86	5.78	2.13	1.46	0.00	0.07	0.86	0.13	2.66	7.31
7010	2.12	1.77	0.00	0.07	0.71	0.11	2.31	7.09	2.65	1.80	0.00	0.07	0.99	0.15	3.30	8.96
7015	2.09	1.86	0.00	0.07	1.18	0.18	2.32	7.70	2.61	1.89	0.00	0.07	1.63	0.24	3.32	9.76
7020	4.55	3.94	0.00	0.07	2.12	0.32	5.02	16.02	5.69	4.01	0.00	0.07	2.94	0.44	7.16	20.31
7025	4.77	4.38	0.00	0.07	3.29	0.49	5.36	18.36	5.96	4.47	0.00	0.07	4.55	0.68	7.66	23.39
7035	1.76	1.46	0.00	0.07	0.58	0.09	1.91	5.87	2.20	1.49	0.00	0.07	0.80	0.12	2.73	7.41
7045	0.96	0.95	0.00	0.07	0.47	0.07	1.00	3.52								
7050	1.10	1.08	0.00	0.07	0.53	0.08	1.14	4.00								
7055	1.35	1.31	0.00	0.07	0.58	0.09	1.40	4.80								
7060	1.34	1.33	0.00	0.11	0.70	0.11	1.40	4.99								
7065	1.40	1.40	0.00	0.11	0.79	0.12	1.47	5.29								
7070	1.52	1.53	0.00	0.11	0.87	0.13	1.60	5.76								
7075	1.68	1.69	0.00	0.11	0.96	0.14	1.76	6.34								
7080	2.32	2.23	0.00	0.11	0.96	0.14	2.40	8.16								
7085	2.37	2.28	0.00	0.11	0.96	0.14	2.45	8.31								
7090	2.78	2.68	0.00	0.14	1.16	0.17	2.87	9.80								
7095	3.06	2.95	0.00	0.14	1.28	0.19	3.17	10.79								
7100	3.41	3.25	0.00	0.14	1.28	0.19	3.51	11.78								
7105	3.64	3.69	0.00	0.14	2.16	0.32	3.84	13.79								
7110	0.72	0.77	0.00	0.07	0.58	0.09	0.78	3.01								
7120	0.65	0.71	0.00	0.07	0.58	0.09	0.70	2.80								
7130	0.85	0.88	0.00	0.09	0.58	0.09	0.91	3.40								
7135	0.86	0.89	0.00	0.09	0.58	0.09	0.91	3.42								
7145	0.46	0.49	0.00	0.08	0.35	0.05	0.49	1.92								
7150	0.47	0.50	0.00	0.08	0.37	0.06	0.51	1.99								
7155	0.52	0.57	0.00	0.08	0.49	0.07	0.56	2.29								
7165	13.58	11.93	11.66	3.85	6.61	0.99	14.28	62.90	16.29	12.10	15.07	4.97	10.53	1.58	19.58	80.12
7170	18.92	16.79	16.85	5.56	10.34	1.55	19.95	89.96	22.70	17.03	21.76	7.18	16.46	2.47	27.36	114.96
7175	25.01	23.03	22.55	7.44	13.82	2.07	26.63	120.55	30.01	23.36	29.13	9.61	22.00	3.30	36.53	153.94
7180	11.83	10.52	11.66	3.85	6.61	0.99	12.48	57.94	14.20	10.67	15.07	4.97	10.53	1.58	17.12	74.14
7185	17.22	15.81	16.85	5.56	13.03	1.95	18.33	88.75	20.67	16.04	21.76	7.18	20.75	3.11	25.14	114.65
7195	10.01	8.83	6.09	2.01	4.11	0.62	10.54	42.21	12.02	8.96	7.87	2.60	6.32	0.95	14.46	53.18
7200	11.38	9.97	6.61	2.18	4.32	0.65	11.96	47.07	13.65	10.12	8.54	2.82	6.63	0.99	16.40	59.15
7205	11.41	10.41	6.61	2.18	6.60	0.99	12.12	50.32	13.69	10.56	8.54	2.82	10.14	1.52	16.62	63.89
7210	19.33	17.45	11.66	3.85	10.14	1.52	20.47	84.42	23.19	17.70	15.07	4.97	15.56	2.33	28.08	106.90
7220	8.45	7.47	5.55	1.83	3.16	0.47	8.90	35.83	10.14	7.58	7.16	2.36	5.04	0.76	12.20	45.24
7225	13.06	11.42	11.15	3.68	5.98	0.90	13.72	59.91	15.67	11.59	14.40	4.75	9.53	1.43	18.81	76.18
7230	17.10	15.32	14.93	4.93	10.34	1.55	18.07	82.24	20.52	15.54	19.28	6.36	16.46	2.47	24.79	105.42
7235	22.22	20.48	16.74	5.53	12.39	1.86	23.67	102.89	26.66	20.78	21.63	7.14	19.73	2.96	32.46	131.36
7240	22.48	20.99	19.34	6.38	13.82	2.07	24.03	109.11	26.98	21.29	24.98	8.24	22.00	3.30	32.96	139.75
7250	11.15	10.01	10.21	3.37	7.89	1.18	11.80	55.61	13.38	10.16	13.19	4.35	12.92	1.94	16.18	72.12
7255	18.17	15.84	15.03	4.96	9.13	1.37	19.07	83.57	21.80	16.07	19.42	6.41	14.95	2.24	26.15	107.04
7270	7.37	6.48	5.57	1.84	3.67	0.55	7.75	33.23	8.84	6.58	7.20	2.38	5.84	0.88	10.63	42.35
7275	10.59	9.39	8.32	2.75	5.70	0.85	11.17	48.77	12.71	9.52	10.75	3.55	9.08	1.36	15.32	62.29
7280	12.96	11.91	12.78	4.22	9.84	1.48	13.80	66.99	15.56	12.08	16.51	5.45	15.67	2.35	18.92	86.54
7285	17.57	16.10	16.17	5.34	13.03	1.95	18.69	88.85	21.09	16.33	20.89	6.89	20.75	3.11	25.63	114.69
7290	24.47	22.59	21.77	7.19	13.82	2.07	26.07	117.98	29.36	22.91	28.12	9.28	22.00	3.30	35.76	150.73
7300	12.58	11.13	10.89	3.59	6.61	0.99	13.25	59.04	15.10	11.29	14.06	4.64	10.53	1.58	18.18	75.38
7305	17.59	15.71	14.93	4.93	10.34	1.55	18.58	83.63	21.11	15.94	19.28	6.36	16.46	2.47	25.48	107.10
7310	19.24	17.44	14.93	4.93	13.03	1.95	20.41	91.93	23.09	17.70	19.28	6.36	20.75	3.11	27.99	118.28
7315	20.56	18.58	17.24	5.69	13.49	2.02	21.79	99.37	24.68	18.85	22.26	7.35	21.48	3.22	29.88	127.72
7320	24.18	22.35	21.20	7.00	13.82	2.07	25.78	116.40	29.01	22.68	27.39	9.04	22.00	3.30	35.35	148.77
7335	5.83	5.23	6.16	1.72	3.18	0.48	5.28	27.88	6.99	5.31	8.10	2.27	4.99	0.75	6.87	35.28
7340	10.32	9.41	13.54	3.79	6.56	0.98	9.40	54.00	12.38	9.55	17.82	4.99	10.29	1.54	12.21	68.78

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
7345	14.11	13.00	18.47	5.17	9.76	1.46	12.88	74.85	16.93	13.19	24.30	6.80	15.31	2.30	16.74	95.57
7350	14.50	13.32	18.47	5.17	9.76	1.46	13.23	75.91	17.40	13.51	24.30	6.80	15.31	2.30	17.20	96.82
7355	16.82	15.55	22.57	6.32	11.98	1.80	15.37	90.41	20.18	15.78	29.70	8.32	18.79	2.82	19.98	115.57
7360	17.13	15.80	22.57	6.32	11.98	1.80	15.64	91.24	20.55	16.03	29.70	8.32	18.79	2.82	20.33	116.54
7370	10.98	9.95	13.54	3.79	6.56	0.98	9.98	55.78	13.18	10.09	17.82	4.99	10.29	1.54	12.97	70.88
7375	14.95	13.68	18.47	5.17	9.76	1.46	13.62	77.11	17.94	13.87	24.30	6.80	15.31	2.30	17.71	98.23
7380	15.19	13.87	18.47	5.17	9.76	1.46	13.84	77.76	18.23	14.07	24.30	6.80	15.31	2.30	17.99	99.00
7385	18.13	16.61	22.57	6.32	11.98	1.80	16.53	93.94	21.76	16.85	29.70	8.32	18.79	2.82	21.49	119.73
7390	18.33	16.77	22.57	6.32	11.98	1.80	16.70	94.47	21.99	17.01	29.70	8.32	18.79	2.82	21.71	120.34
7400	11.04	9.99	13.54	3.79	6.56	0.98	10.03	55.93	13.24	10.14	17.82	4.99	10.29	1.54	13.04	71.06
7405	16.44	15.23	18.47	5.17	10.89	1.63	15.03	82.86	19.72	15.45	24.30	6.80	16.70	2.51	19.54	105.02
7410	26.44	23.59	26.68	7.47	16.71	2.51	23.93	127.33	31.73	23.93	35.10	9.83	27.11	4.07	31.11	162.88
7420	10.31	9.41	11.37	3.18	6.40	0.96	9.39	51.02	12.37	9.54	14.96	4.19	9.96	1.49	12.20	64.71
7425	19.20	16.60	17.36	4.86	4.88	0.73	17.24	80.87	23.04	16.85	22.84	6.40	7.55	1.13	22.41	100.22
7435	11.64	10.52	13.54	3.79	6.74	1.01	12.33	59.57	13.96	10.67	17.82	4.99	10.55	1.58	16.91	76.48
7440	16.68	14.96	18.47	5.17	9.07	1.36	17.64	83.35	20.02	15.18	24.30	6.80	14.22	2.13	24.19	106.84
7455	3.27	1.39	5.75	2.40	0.00	0.00	5.00	17.81								
7460	4.39	1.87	8.47	3.95	0.00	0.00	6.72	25.40								
7465	8.05	3.42	16.63	7.82	0.00	0.00	12.32	48.24								
7470	8.67	3.68	19.23	9.34	0.00	0.00	13.26	54.18								
7480	0.80	0.63	0.00	0.01	0.00	0.00	0.67	2.11								
7485	0.93	0.74	0.00	0.01	0.00	0.00	0.78	2.46								
7490	1.08	0.86	0.00	0.01	0.00	0.00	0.90	2.85								
7500	1.46	1.15	0.00	0.01	0.00	0.00	1.22	3.84								
7505	1.65	1.30	0.00	0.01	0.00	0.00	1.37	4.33								
7510	1.83	1.44	0.00	0.01	0.00	0.00	1.52	4.80								
7520	0.09	0.06	0.39	0.12	0.00	0.00	0.06	0.72								
7525	0.13	0.09	0.78	0.23	0.00	0.00	0.09	1.32								
7530	0.16	0.11	0.97	0.29	0.00	0.00	0.11	1.64								
7535	0.21	0.15	1.40	0.42	0.00	0.00	0.14	2.32								
7545	0.20	0.12	1.49	0.36	0.03	0.00	0.31	2.51								
7550	0.42	0.24	6.90	1.66	0.02	0.00	0.64	9.88								
7555	0.43	0.24	6.90	1.66	0.02	0.00	0.65	9.90								
7560	0.51	0.28	7.32	1.76	0.02	0.00	0.76	10.65								
7565	0.63	0.36	9.02	2.16	0.04	0.01	0.96	13.18								
7575	0.56	0.31	1.93	0.46	0.02	0.00	0.84	4.12								
7580	0.57	0.31	1.93	0.46	0.02	0.00	0.85	4.14								
7585	0.71	0.39	3.20	0.77	0.04	0.01	1.06	6.18								
7590	0.69	0.38	3.25	0.78	0.04	0.01	1.03	6.18								
7600	0.12	0.08	0.74	0.22	0.00	0.00	0.08	1.24								
7605	0.12	0.09	0.94	0.28	0.00	0.00	0.08	1.51								
7610	0.16	0.11	1.17	0.35	0.00	0.00	0.10	1.89								
7615	0.26	0.18	1.64	0.49	0.00	0.00	0.17	2.74								
7625	0.06	0.04	0.74	0.22	0.00	0.00	0.04	1.10								
7630	0.10	0.07	0.94	0.28	0.00	0.00	0.07	1.46								

APPENDIX A

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14. Defense Acquisition Regulation (DAR).

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:	4.0 %
Working Hours Per Year:	1,550 Hrs/Yr
Labor Adjustment Factor (LAF):	0.900
Electricity Cost Per Kilowatt-Hour:	\$ 0.065 /Kw-Hr
Gasoline Cost Per Gallon:	\$ 1.310 /Gal.
Diesel Cost Per Gallon (Off-Road Use):	\$ 1.080 /GAL.
Diesel Cost Per Gallon (On-Road Use):	\$ 1.200 /Gal.
Freight Rates:	0 thru 30,000 lbs. \$ 4.150 /Cwt. over 30,000 thru 40,000 lbs. \$ 3.420 /Cwt. over 40,000 thru 50,000 lbs. \$ 2.820 /Cwt. over 50,000 thru 60,000 lbs. \$ 2.520 /Cwt. over 60,000 thru 9999,900 lbs. \$ 2.460 /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. Pushloading 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. Pushloading 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. Overloading. 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. Extreme overloading. Over-sized 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. Extreme overloading.
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)

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

APPENDIX D
EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS

TABLE LEGEND

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

TABLE LEGEND

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

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
15	AGGREGATE SPREADERS	A	10	20	50 .000	.051	.030		0 .000	.000	.000		0	24	24	77	73	99	80
30	AIR COMPRESSORS	A	10	25	65 .000	.066	.038		0 .000	.000	.000		0	32	28	0	0	99	90
45	AIR TOOLS & EQUIP, TAMMERS ETC	A	4	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	99	150
60	ASPHALT DISTRIBUTORS	A	10	30	65 .000	.066	.038		0 .000	.000	.000		0	32	28	60	44	79	85
65	ASPHALT AND CONCRETE PAVERS	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	65	40	70	90
	BACKHOE (SEE KEY NO. 570-601)																		
75	BROOMS	A	10	20	65 .000	.066	.000		0 .000	.000	.000		0	24	0	77	73	99	90
80	BRUSH CHIPPERS	A	10	20	45 .000	.046	.027		0 .000	.000	.000		0	32	28	0	0	99	90
90	BUCKETS, CLAMSHELL & DRAGLINE	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
90		S	8	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	90
95	BUCKETS, CONCRETE	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
105	CONCRETE OR GROUT PUMP	A	8	20	95 .000	.097	.056		0 .000	.000	.000		0	32	28	0	0	0	90
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
125	CONCRETE MIXERS & 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	20	40 .000	.041	.024		0 .000	.000	.000		0	18	18	0	0	0	50
150		S	11	20	52 .000	.053	.031		0 .000	.000	.000		0	18	18	0	0	0	55
165	OVER 25 TON THRU 50 TON	A	15	20	40 .000	.041	.024		0 .000	.000	.000		0	18	18	0	0	0	60
165		S	13	20	52 .000	.053	.031		0 .000	.000	.000		0	18	18	0	0	0	65
170	OVER 50 TON THRU 150 TON	A	18	20	40 .000	.041	.024		0 .000	.000	.000		0	18	18	0	0	0	70
170		S	16	20	52 .000	.053	.031		0 .000	.000	.000		0	18	18	0	0	0	75
180	OVER 150 TON	A	20	20	40 .000	.041	.024		0 .000	.000	.000		0	18	18	0	0	0	80
180		S	18	20	52 .000	.053	.031		0 .000	.000	.000		0	18	18	0	0	0	85
	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	20	50 .000	.051	.030		0 .000	.000	.000		0	18	18	0	0	0	100
196		S	18	20	65 .000	.066	.038		0 .000	.000	.000		0	18	18	0	0	0	110

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	
200	CRANES, HYDRAULIC, SELF-PROPELLED	A	16	25	65 .000	.066	.038		0 .000	.000	.000		0	32	28	95	90	0	70
	CRANES & HYD. EXC. , TRK MTD																		
210	UNDER 26 T. (THRU 1 CY)	A	15	20	65 .000	.066	.038		10 .000	.010	.006		0	30	26	95	90	0	50
210		S	13	20	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	73	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	95	90	0	60
225		S	16	20	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	73	0	65
230	66 THRU 125 T	A	20	20	65 .000	.066	.038		10 .000	.010	.006		0	30	26	95	90	0	70
230		S	18	20	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	73	0	75
240	OVER 125 T	A	22	20	65 .000	.066	.038		10 .000	.010	.006		0	30	26	95	80	0	80
240		S	20	20	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	73	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	67	57	0	90
330	DRILL, ROTARY OVER 11" DIA.	A	20	20	80 .000	.081	.047		0 .000	.000	.000		0	24	24	67	57	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	86	77	0	90
390	GRADERS	A	12	25	60 .000	.061	.035		0 .000	.000	.000		0	16	29	86	68	0	70
390		S	10	25	78 .000	.079	.046		0 .000	.000	.000		0	16	29	60	39	0	75
420	GENERATORS	A	10	30	65 .000	.066	.038		0 .000	.000	.000		0	24	24	0	0	0	80
420		S	9	30	85 .000	.086	.050		0 .000	.000	.000		0	24	24	0	0	0	90
435	HOIST	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	24	24	0	0	0	90
	HYD. EXCAVATOR (SEE KEY NO. 570-601)																		
440	LIGHT PLANTS	A	10	30	95 .000	.097	.056		0 .000	.000	.000		0	24	24	0	0	0	80
450	LOADER, BELT	A	10	30	65 .000	.066	.038		0 .000	.000	.000		0	32	28	26	0	99	90
450		S	8	30	85 .000	.086	.050		0 .000	.000	.000		0	32	28	16	0	99	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	110
460	WITH BACKHOE, CRAWLER TYPE	S	8	25	91 .000	.092	.054		0 .000	.000	.000		0	32	38	0	0	0	120
	LOADER, WHEEL TYPE																		
465	0 THRU 225 HP	A	10	25	65 .000	.066	.038		0 .000	.000	.000		0	32	40	60	40	0	70
465		S	8	25	85 .000	.086	.050		0 .000	.000	.000		0	32	40	41	19	0	75
470	OVER 225 HP	A	12	20	65 .000	.066	.038		0 .000	.000	.000		0	32	30	60	40	0	80
470		S	10	20	85 .000	.086	.050		0 .000	.000	.000		0	32	30	41	19	0	85

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LPE	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 BACKHOE, WHEEL TYPE	A	10	25	65 .000 .066 .038	0 .000 .000 .000	0	32	28	60	40	0	80						
475		S	8	25	85 .000 .086 .050	0 .000 .000 .000	0	32	28	41	19	0	85						
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	A	6	20	65 .000 .066 .038	0 .000 .000 .000	0	32	28	0	0	0	90						
485	PIPELAYERS	A	12	25	35 .000 .000 .021	0 .000 .000 .000	0	0	32	0	0	0	40						
485		S	10	25	45 .000 .000 .027	0 .000 .000 .000	0	0	32	0	0	0	45						
	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	20	65 .000 .066 .038	65 .000 .066 .038	0	24	24	76	64	99	90						
530	ROLLERS, VIBRATORY	A	8	25	90 .000 .091 .053	90 .000 .091 .053	0	24	24	76	64	99	130						
540	SCRAPERS, STANDARD	A	10	20	60 .000 .000 .035	60 .000 .000 .035	0	0	27	58	31	65	70						
540		S	8	20	78 .000 .000 .046	78 .000 .000 .046	0	0	27	40	19	45	75						
542	SCRAPERS, TANDEM POWERED	A	10	20	62 .000 .000 .037	62 .000 .000 .037	0	0	25	58	25	60	70						
542		S	8	20	81 .000 .000 .048	81 .000 .000 .048	0	0	25	40	18	40	75						
	SCRAPERS, ELEVATING																		
545	0 THRU 200 HP	A	10	20	66 .000 .000 .039	66 .000 .000 .039	0	0	34	0	25	60	85						
545		S	8	20	86 .000 .000 .051	86 .000 .000 .051	0	0	34	0	18	40	90						
550	OVER 200 HP	A	10	20	66 .000 .000 .039	66 .000 .000 .039	0	0	24	0	25	60	75						
550		S	8	20	86 .000 .000 .051	86 .000 .000 .051	0	0	24	0	18	40	80						
555	SCRAPERS, TRACTOR DRAWN	A	12	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	58	0	65	70						
555		S	10	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	40	0	45	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	80						
570		S	9	20	78 .000 .079 .046	0 .000 .000 .000	0	18	18	0	0	0	90						
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	90						
585		S	11	20	78 .000 .079 .046	0 .000 .000 .000	0	18	18	0	0	0	100						
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	100						
595		S	14	20	78 .000 .079 .046	0 .000 .000 .000	0	18	18	0	0	0	110						
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	120						
601	OVER 2-1/2 CY ELECTRIC	A	22	20	50 .500 .000 .000	0 .000 .000 .000	25	0	0	0	0	0	80						
601		S	20	20	65 .650 .000 .000	0 .000 .000 .000	25	0	0	0	0	0	90						

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
TRACTOR, CRAWLER TYPE																			
615	O THRU 225 HP	A	10	30	70 .000 .000 .041	0 .000 .000 .000	0	0	32	0	0	0	0	0	0	0	0	90	
615		S	8	30	91 .000 .000 .054	0 .000 .000 .000	0	0	32	0	0	0	0	0	0	0	0	100	
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	A	12	25	70 .000 .000 .041	0 .000 .000 .000	0	0	25	0	0	0	0	0	0	0	0	100	
620		S	10	25	91 .000 .000 .054	0 .000 .000 .000	0	0	25	0	0	0	0	0	0	0	0	110	
625	OVER 425 HP	A	14	20	70 .000 .000 .041	0 .000 .000 .000	0	0	22	0	0	0	0	0	0	0	0	115	
625		S	12	20	91 .000 .000 .054	0 .000 .000 .000	0	0	22	0	0	0	0	0	0	0	0	125	
630	TRACTOR BLADES, PUSH BLOCKS,	A	10	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	80	
630	PUSH PLATES & CLEARING BLADES	S	8	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	90	
645	TRACTOR, WHEEL TYPE	A	10	20	65 .000 .066 .038	0 .000 .000 .000	0	24	28	60	44	0	0	0	0	0	0	60	
645		S	8	20	85 .000 .086 .050	0 .000 .000 .000	0	24	28	46	17	0	0	0	0	0	0	65	
650	TRENCHER	A	10	20	65 .000 .066 .038	0 .000 .000 .000	0	32	28	60	40	0	0	0	0	0	0	90	
650		S	8	20	85 .000 .086 .050	0 .000 .000 .000	0	32	28	41	19	0	0	0	0	0	0	100	
655	TRAILERS, BOTTOM DUMP AND END DUMP	A	10	25	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	70	
655		S	8	25	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	80	
660	TRAILERS, FLATBED, LO-BOY AND TILT	A	10	30	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	60	
TRUCK ACCESSORIES FOR CHASSIS MOUNTING																			
670	DUMP BODIES	A	8	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	70	
670		S	6	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	0	0	0	0	0	80	
675	ALL OTHER ACCESSORIES	A	8	20	65 .000 .066 .000	0 .000 .000 .000	0	32	0	0	0	0	0	0	0	0	0	70	
TRUCK, HIGHWAY																			
690	O THRU 10,000 GVW	A	8	20	20 .000 .020 .012	0 .000 .000 .000	0	32	28	47	40	0	0	0	0	0	0	70	
690		S	6	20	26 .000 .026 .015	0 .000 .000 .000	0	32	28	33	20	0	0	0	0	0	0	80	
695	OVER 10,000 THRU 30,000 GVW	A	8	20	40 .000 .041 .024	0 .000 .000 .000	0	32	28	47	40	0	0	0	0	0	0	70	
695		S	6	20	52 .000 .053 .031	0 .000 .000 .000	0	32	28	33	20	0	0	0	0	0	0	80	
705	OVER 30,000 GVW	A	8	20	60 .000 .061 .035	0 .000 .000 .000	0	32	28	47	40	61	0	0	0	0	0	70	
705		S	6	20	78 .000 .079 .046	0 .000 .000 .000	0	32	28	33	20	44	0	0	0	0	0	80	
720	TRUCK, OFF-HIGHWAY	A	12	20	40 .000 .000 .024	0 .000 .000 .000	0	0	33	58	36	65	0	0	0	0	0	70	
720		S	10	20	52 .000 .000 .031	0 .000 .000 .000	0	0	33	40	22	45	0	0	0	0	0	80	
765	WAGON, BOTTOM DUMP & WATER	A	12	20	65 .000 .066 .038	0 .000 .000 .000	0	24	28	58	36	65	0	0	0	0	0	60	
765		S	10	20	85 .000 .086 .050	0 .000 .000 .000	0	24	28	40	22	45	0	0	0	0	0	65	
780	WAGON, REAR DUMP	A	12	20	65 .000 .066 .038	0 .000 .000 .000	0	24	28	58	36	65	0	0	0	0	0	70	
780		S	10	20	85 .000 .086 .050	0 .000 .000 .000	0	24	28	40	22	45	0	0	0	0	0	80	

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
785	WATER BLASTER	A	6	20	95	.000	.097	.056	0	.000	.000	.000	0	24	28	0	0	0	110
795	WATER TANKS	A	12	20	0	.000	.000	.000	0	.000	.000	.000	0	0	0	0	0	0	60
810	WELDERS	A	6	30	80	.000	.081	.047	0	.000	.000	.000	0	24	24	0	0	99	90
811	WELDERS ELECTRIC POWER	A	8	30	60	.600	.000	.000	0	.000	.000	.000	30	0	0	0	0	0	40

APPENDIX E

SALVAGE AND REPAIR INDEXES FOR CONSTRUCTION EQUIPMENT

CATEGORY	0	1	2	3	4	YEAR PURCHASE NEW		7	8	9	10	11	12
						1977	1976						
Air Equipment	1618	1571	1630	1521	1354	1295	1186	1165	1028	935	920	929	936
Asphalt & Concrete Paving Equipment	2589	2490	2296	2111	1941	1815	1686	1610	1451	1304	1263	1235	1163
Buckets	4341	4195	3879	3280	2963	2738	2520	2175	1838	1430	1370	1316	1188
Cranes, Draglines & Clamshells - Crawler & Truck Mounted	3197	3009	2782	2512	2301	2138	2010	1843	1522	1305	1260	1212	1147
Drills	2790	2580	2265	1993	1858	1699	1638	1559	1373	1249	1184	1160	1115
Generators	3530	3289	2817	2390	2301	2128	2053	1839	1456	1316	1283	1243	1188
Graders, Motor	3548	3277	2992	2687	2492	2259	2109	1956	1604	1361	1244	1208	1152
Loaders, Track	3188	2988	2666	2376	2188	2024	1859	1755	1445	1249	1219	1184	1135
Loaders, Wheel	3714	3430	2938	2606	2375	2156	2002	1907	1584	1362	1317	1261	1197
Pile Driving Equipment	3417	3202	2894	2562	2329	2135	1989	1852	1523	1307	1257	1218	1159
Rollers	3810	3453	3183	2653	2396	2139	1983	1872	1556	1328	1279	1230	1178
Scrapers	3548	3277	2992	2687	2492	2259	2109	1956	1604	1361	1244	1208	1152
Shovels, Backhoes & Hydraulic Excavators	3197	3009	2782	2512	2301	2138	2010	1843	1522	1305	1260	1212	1147
Tractors, Crawler & Attachments	3576	3342	3061	2750	2482	2247	2053	1916	1573	1329	1281	1236	1181
Tractors, Wheel	3578	3256	2927	2578	2319	2125	1956	1813	1498	1288	1251	1211	1152
Trenchers	3921	3605	3153	2772	2580	2300	1894	1633	1527	1384	1316	1284	1207
Trucks, Highway	2995	2619	2324	2108	1934	1775	1646	1524	1369	1230	1211	1185	1114
Trucks & Wagons - Off Highway	3650	3360	2964	2588	2364	2196	2081	1965	1568	1315	1293	1245	1190
All Other Equipment	3417	3202	2894	2562	2329	2135	1989	1852	1523	1307	1257	1218	1159

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, 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 in Figure F-1.

No.	Condition	Factor	
		Average	Severe
A	Maintenance	1.0	1.0
B	Speeds	0.8	0.9
C	Curves	1.0	0.85
D	Surface Condition	0.9	0.65
E	Loads	0.9	0.9
		<u>0.648</u>	<u>0.448</u>
F	Wheel Positions		
	Trailing (T-Tire)	1.0	1.0
	Front (F-Tire)	0.9	0.9
	Driver (D-Tire)		
	(Rear Dump)	0.7	0.7
	(Bottom Dump)	0.7	0.7
	(Self-Propelled Scrapers)	0.6	0.6
G	Grades		
	Driver	<u>0.80</u>	<u>0.7</u>
TOTALS			
	Trailing (T-Tire)	0.65	0.45
	Front (F-Tire)	0.58	0.40
	Driver (D-Tire)		
	(Rear Dump)	0.36	0.22
	(Bottom Dump)	0.36	0.22
	(Self-Propelled Scrapers)	0.31	0.19

Figure F-1. Rear and Bottom Wagons (Off-Highway), Scrapers

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TABLE F-1. Maximum Tire Life.

Bias Ply Tires:

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

Radial Ply Tires:

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

APPENDIX G

EQUIPMENT EXTRAS

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

(1) Crane, Crawler-Mounted.

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

(2) Dragline and Clamshell, Crawler-Mounted.

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

(3) Backhoe and Shovel, Crawler-Mounted.

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

(4) Truck Crane Less than 25 Ton.

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

(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.
- (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.