

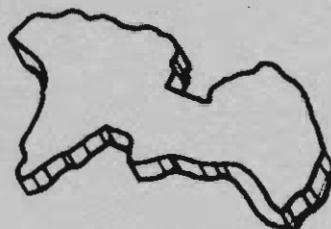


US Army Corps
of Engineers
Office of the Chief
of Engineers

EP 1110-1-8
Volume 12
June 1986

Construction Equipment Ownership and Operating Expense Schedule

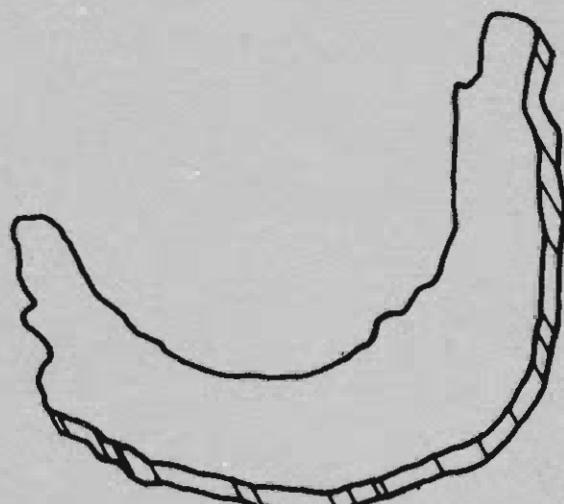
Region XII



Roi-Namur Island

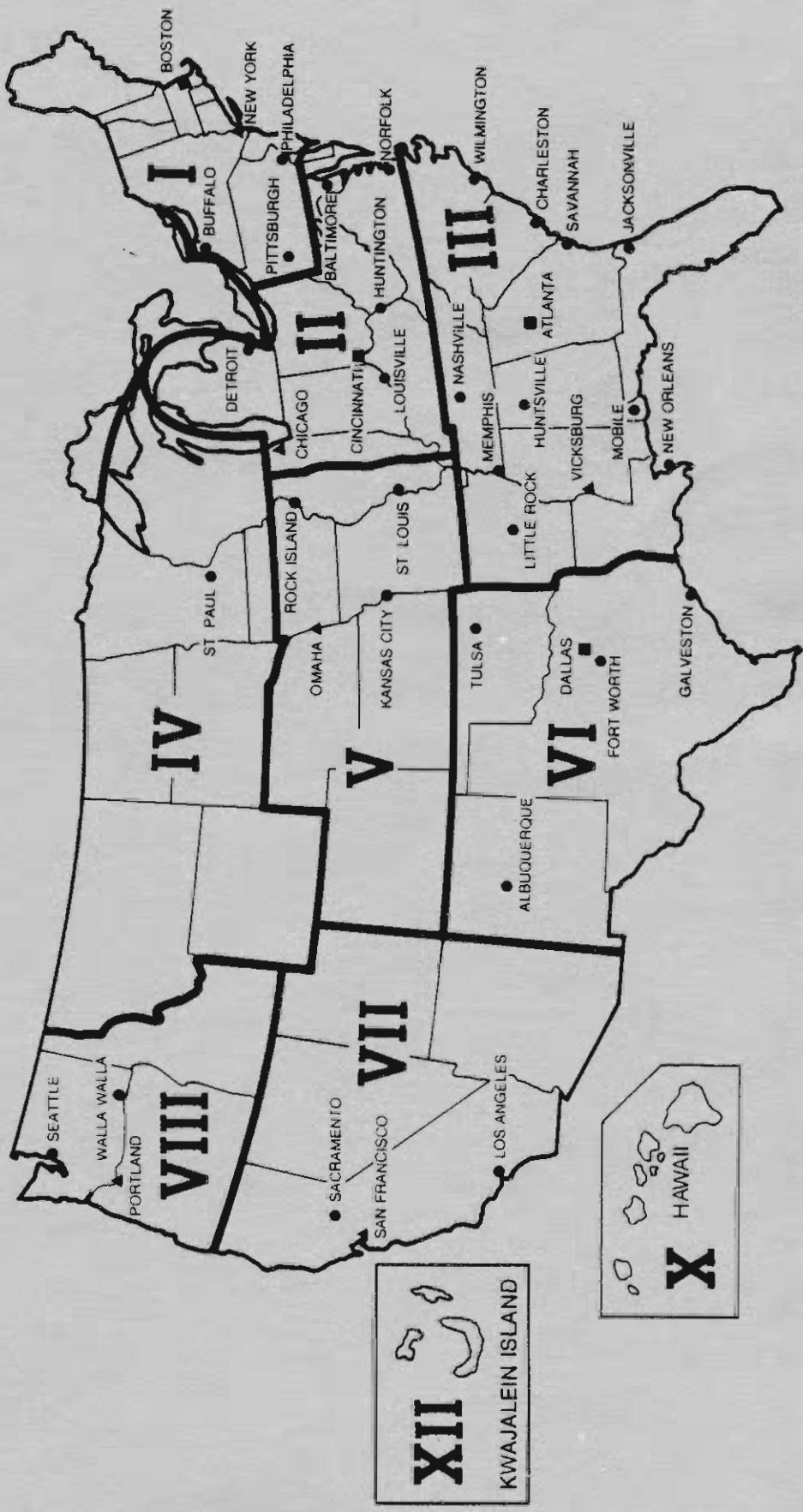
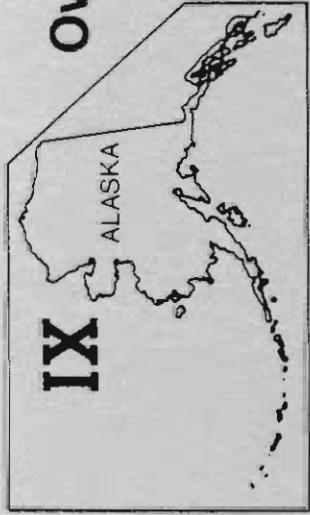


Meck Island



Kwajalein Island

Regions for the Construction Equipment Ownership and Operating Expense Schedule



DAEN-ECE-S

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

EP 1110-1-8
Volume 12

Pamphlet
No. 1110-1-8

1 June 1986

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP
AND OPERATING EXPENSE SCHEDULE

1. Purpose. This pamphlet establishes predetermined equipment ownership and operating expense rates for use in preparation of estimates and in pricing negotiated procurements requiring independent Government estimates.
2. Applicability. This pamphlet applies to all HQUSACE/OCE elements and field operating activities having either military or civil works responsibilities for construction contracts in Region XII which includes the following:

Kwajalein, Marshall Islands

3. General. The rates and percentages shown in this pamphlet are based on equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor. These rates and percentages do not include allowances for operating labor, mobilization or demobilization costs, overhead, or profit, and do not represent rental charges for those in the business of renting equipment. The rates included in this pamphlet are based on construction equipment purchased new on 1 July 1984. The percentages for marine equipment provide an allowance for ownership expenses only. This pamphlet will be updated annually or more frequently if necessary.

FOR THE COMMANDER:

Arthur E. Williams
ARTHUR E. WILLIAMS
Colonel, Corps of Engineers
Chief of Staff

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

EP 1110-1-8
(Vol. 12)

Engineer Pamphlet
No. 1110-1-2

1 June 1986

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP
AND OPERATING EXPENSE SCHEDULE

Table of Contents

<u>Subject</u>	<u>Paragraph</u>	<u>Page</u>
CHAPTER 1. INTRODUCTION		
Purpose-----	1-1	1-1
Applicability-----	1-2	1-1
References-----	1-3	1-1
General-----	1-4	1-1
Use-----	1-5	1-1
CHAPTER 2. METHODOLOGY		
General-----	2-1	2-1
Construction Equipment-----	2-2	2-1
Marine Equipment-----	2-3	2-11
CHAPTER 3. RATE SCHEDULE		
Introduction-----	3-1	3-1
Hourly Equipment Ownership and Operating Expense-----	3-2	3-1
Table 3-1. Hourly Equipment Ownership and Operating Expense		3-5
Table 3-2. Equipment Age Adjustment Factors for Ownership Cost-----		3-81
Table 3-3. Equipment Age Adjustment Factors for Standby Costs-----		3-85
Table 3-4. Shift Adjustment Factors for Ownership Costs-----		3-89
Table 3-5. Hourly Rate Elements-----		3-91

<u>Subject</u>	<u>Paragraph</u>	<u>Page</u>
APPENDIX A. REFERENCES-----		A - 1
APPENDIX B. AREA FACTORS-----		B - 1
APPENDIX C. GUIDE FOR SELECTING OPERATING CONDITIONS-----		C - 1
APPENDIX D. EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS-----		D - 1
APPENDIX E. SALVAGE AND REPAIR INDEXES FOR CONSTRUCTION EQUIPMENT-----		E - 1
APPENDIX F. TIRE LIFE AND TIRE WEAR FACTORS-----		F - 1
APPENDIX G. EQUIPMENT EXTRAS-----		G - 1

CHAPTER 1

INTRODUCTION

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

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

Kwajalein, Marshall Islands

1-3. References. See APPENDIX A.

1-4. General. The rates and percentages shown in this pamphlet are based on equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor. These rates and percentages do not include allowances for operating labor, mobilization or demobilization costs, overhead, or profit, and do not represent rental charges for those in the business of renting equipment. The rates included in this pamphlet are based on construction equipment purchased new on 1 July 1984. The percentages for marine equipment provide an allowance for ownership expenses only. This pamphlet will be updated annually or more frequently if necessary.

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

a. Cost or pricing data as defined in FAR 15.8 is not required.

b. Cost or pricing data is required and actual cost data to support either ownership or operating costs for each piece of equipment or equipment groups of similar serial and series is not available.

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

CHAPTER 2

METHODOLOGY

2-1. General. This pamphlet provides hourly use rates for construction equipment and annual ownership percentages for marine plant and equipment. The methodology used to compute the hourly use rates for construction equipment is provided in paragraph 2-2. The methodology used to compute the annual ownership percentages for marine equipment is provided in paragraph 2-3.

2-2. Construction Equipment.

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

b. Operating Conditions.

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

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

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

equipment except highway trucks which are discounted 17.5 percent. Freight and import tax are added to the discounted price to arrive at the predetermined "equipment cost."

(1) Depreciation.

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

(b) Salvage value for the used equipment was determined from the "Handbook of New and Used Construction Equipment Values" (Green Guide) and advertisements of used equipment for sale displayed in current engineering and construction magazines. The salvage value percentages used for each type of equipment are listed in APPENDIX D (column "SLV") as a percent of the "equipment cost" and are equal for both "Average Condition" and "Severe Condition." The percentages are adjusted by the economic adjustment factor (EAF) to bring the salvage value up to current price levels. The EAF factor is obtained from APPENDIX E and is equal to the economic index for the current year divided by the economic index for the year the equipment was manufactured. The ownership costs shown in TABLE 3-1 represent the hourly costs for new equipment manufactured and purchased in 1984.

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

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

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

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

(a) The cost of facilities capital (CFC) as defined in FAR 31.205-10 and CAS 414 is included in the use rates. This cost was computed by multiplying the cost of money rate (9.75%) determined by the Secretary of the Treasury pursuant to P.L. 92-41 (85 Stat. 97) by the average value of equipment and prorating the result over the annual operating hours. This cost of money rate was discounted to 7.80% to avoid duplication when applying markups for overhead and profit.

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

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

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

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

d. Operating Cost.

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

(2) Fuel Consumption Cost.

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

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

where:

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

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

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

(4) Gasoline wt = 6.1 lbs per gallon

(5) Diesel wt = 7.1 lbs per gallon

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

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

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

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

(3) Filters, Oil and Grease Costs (FOG). "FOG" costs are computed as either a percentage of the hourly fuel costs (see APPENDIX D) or, if the equipment has no engine, a reasonable hourly cost is included. Labor, fringe benefits, and equipment costs for fueling, greasing, and servicing are included in the rate. Material costs for filters, oil, and grease include an allowance for all taxes. The "FOG" allowance for cranes,

draglines, backhoes, and shovels (except Key Numbers 150, 185, 200, 210, and 570) has been reduced to allow for servicing normally performed by the oiler assigned to the piece of equipment.

(4) Maintenance and Repair Costs.

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

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

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

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

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

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

(5) Hourly Tire Cost.

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

(b) The hourly tire cost equals the current cost of new tires plus the cost of one recapping divided by the expected life of the new tires plus the life of the recapped tires. It has been determined that a recap costs approximately 50 percent of the new tire cost and that the life of a new tire plus recapping will equal approximately 1.8 times the "useful life" of a new tire.

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

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

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

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

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

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

CONSTRUCTION EQUIPMENT HOURLY OWNERSHIP AND OPERATING RATE WORK SHEET <small>(EP 1110-1-8)</small>	
1. REQUIRED DATA	(Since this request for information is to less than ten persons, OMB approval under Section 3507, 44 USC, is not required.)
a. Unit Number <u>3265</u>	
(1) Equipment Description <u>P&H TRUCK Crane, 50 TON</u>	
(2) Model and Series <u>650A-TC w/150' BOOM</u>	
(3) Year Purchased <u>1984</u>	(4) Year Manufactured <u>1984</u>
(5) Equipment Horsepower <u>135</u>	(6) Carrier Horsepower <u>236</u>
(7) Fuel Type <u>Diesel/Diesel</u>	(8) Shipping Weight <u>122,200 lbs</u>
(9) Tire Size: Front- <u>14x20 18pr</u> Drive- <u>14x20 18pr</u> Trailing- <u>-</u>	
b. Key Number from APPENDIX D <u>225</u>	
(1) Condition <u>Average</u>	
(2) Salvage Value % <u>.15%</u>	(3) Life <u>18,000 hrs</u>
(4) Equipment Fuel Factor <u>.038</u>	(5) Carrier Fuel Factor <u>.006</u>
(6) FOG Factor: Gas <u>N/A</u>	Diesel <u>.26</u> Electric <u>N/A</u>
(7) Tire Wear Factor: Front <u>.97</u>	Drive <u>.78</u> Trailing <u>N/A</u>
(8) Repairs Cost Factor <u>.60</u>	
2. EQUIPMENT COST	
a. List Price Year of Manufacture (including extras)	= \$ <u>410,908</u>
(1) Discount: (List Price) x *7.5% *(17.5% for Highway Trucks)	= (-) \$ <u>30,917</u>
(2) Freight: (Shipping Weight) x (Prep. and Del. Rate) From 1-a-(8) From APPENDIX B	= (+) \$ <u>2,270.72</u>
b. Subtotal: Summation of Part a. (Use actual cost when available)	= \$ <u>388,461.60</u>
(1) State Sales Tax: (Subtotal) x (Tax Rate) From 2-b	= (+) \$ <u>23,326.64</u>
c. Equipment Cost: Summation of Part b. (Use actual cost when available)	= \$ <u>411,761.24</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) 1 + (Hours Use/Year From APPENDIX B)

$$= (\underline{18,000} \text{ Rs}) + (\underline{1410} \text{ Rs/Yr}) \quad \underline{12.77} \text{ Yrs.}$$

4. ECONOMIC ADJUSTMENT FACTOR (EAF)

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

$$= \underline{1,3463} + \underline{1,339} = \underline{1,037} \text{ (EAF)}$$

5. SALVAGE VALUE FACTOR (S)

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

$$\bullet (\underline{1.15}) \times (\underline{1.037}) \quad \bullet \underline{1.156}(\text{s})$$

6. OWNERSHIP COSTS

a. Depreciation:

$$= (\$411,768) \times (1.0 - (.156)) = (\$9,326) + (\$18,000 \text{ Br}) = \$18,796 \text{ Br}.$$

b. Cost of Facilities Capital (CPC):

$$(1) \quad \frac{\text{Life}}{3} = 1.0 \times \frac{(S_{\text{From}} + 1.0) + 2.0}{5} + \frac{(\text{From} \times 2.0)}{3}$$

$$= [(1/(2.77 \text{ yrs}) - 1.0) \times (1.156) + 1.0] + 2.0 = [1/(1.277 \text{ yrs}) \times 2.0] = .61$$

(2) (Cost From) x (Value Factor) x (From Para. 1) + (Yr From)
 2-c From 6-b-(1) 2-2.c.(2) APP. B

$$= (\$411,768) \times (.611) \times (.078) + (1,410 \text{ Hrs/Yr}) = \$13.92 / \text{Hr.}$$

c. Total Hourly Ownership: (Sum 6-a + 6-b-(2))

~~-\$32.71/Hr.~~

Figure 2-1. (Continued)

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

7. OPERATING COSTS

a. Fuel Costs:

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

$$= (.038) \times (135 \text{ HP}) \times (\$/0.03/\text{Gal}) = \$ 5.28/\text{Hr.}$$

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

$$= (.006) \times (236 \text{ HP}) \times (\$/0.03/\text{Gal}) = \$ 1.46/\text{Hr.}$$

(3) Total Fuel Costs: (Sum 7-a-(1), 7-a-(2)) = \\$ 6.74 /Hr.

b. FOG Coats:

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

$$= (.26) \times (\$ 5.28/\text{Hr}) = \$ 1.37/\text{Hrs.}$$

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

$$= (.26) \times (\$ 1.46/\text{Hr}) = \$.37/\text{Hr.}$$

(3) Total FOG Costs: (Sum 7-b-(1), 7-b-(2)) = \\$ 1.75 /Hr.

c. Repairs Cost:

(1) Repair Factor:

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

$$= (.60) \times (1.037) \times (1.19) = .740$$

(2) Hourly Repairs:

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

$$= [(\$ 411,768) - (\$ 9326)] \times (.740) + (18,000 \text{ Br}) = \$ 16.54/\text{Hr.}$$

Figure 2-1. (Continued)

EP 1110-1-8
(Vol. 12)
1 Jun 86

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

d. Tire Wear Coats (Current Price Levels):

$$(2) \text{ Drive Tires: } 1.5 \times (\text{Tires}) + [1.8 \times (\text{Prt Frm}) \times (\text{Life Frm})] \\ \text{Cost} \qquad \qquad \qquad \text{D-Tire} \qquad \qquad \qquad \text{Max Tire} \\ 1-b-(7) \qquad \qquad \qquad \qquad \qquad \qquad \qquad \text{Tbl P-1}$$

$-1.5 \times (\$6168) + [1.8 \times (.78) \times (5000 \text{ Hrs})] = \$1,32 / \text{Hr.}$

(4) Total Tire Wear Cost: (Sum 7-d-(1) thru (3)) **.51 .85 /Hr.**

$$\text{e. Tire Repair Cost: } (\text{Tire Wear }) \times 0.15 \\ \text{From 7-d-(4)} \\ = (\$1.85) \times 0.15 \quad \$.28 / \text{Hr.}$$

f. Total Operating Costs: (Sum 7-a thru 7-e) \$ 27.16 /Hr.

8. TOTAL HOURLY RATES

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

$$(\text{Ownership Costs Frm 6-c}) + (\text{Operating Costs Frm 7-f}) \\ (\$ \underline{32.71} / \text{Hr}) + (\$ \underline{27.16} / \text{Hr}) = \$ \underline{59.87} / \text{Hr.}$$

b. Hourly Rate for Other Work Shifts:

$$= (\$18.79/\text{Hr}) + [(\$13.92/\text{Hr}) \times 40 : (60 \text{ Hr/Wk})] + (\$27.16/\text{Hr}) = \$55.85/\text{Hr.}$$

c. Hourly Standby Rate:

$$(\text{Depreciation}) \times 0.25 + (\text{CPC Pmt})$$

From 6-a 6-b-(2)

$$= (\$18.79/\text{Hr}) \times 0.25 + (\$12.92/\text{Hr}) = \$12.22/\text{Hr.}$$

Figure 2-1. (Continued)

2-3. Marine Equipment.

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

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

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

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

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

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

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

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

(5) The expected life shown in TABLE 2-1 for shore pipeline and floating pipeline is based on average dredging conditions. When more severe conditions are encountered, such as the dredging of very abrasive sand or rock, the expected life should be decreased. Similarly when better than average conditions are encountered, such as dredging mud or silt, the expected life should be increased. In either case, the adjustment should be made only for the time required to dredge the exceptional material. When the dredged material is a combination of various types, a weighted average should be estimated and the expected life adjusted accordingly. The repair of pipelines during the economic life is considered a part of operating costs.

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

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

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

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

CHAPTER 3

RATE SCHEDULE

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

3-2. Hourly Equipment Ownership and Operating Expense.

a. Description.

(1) The following example illustrates how the equipment is listed in TABLE 3-1. The unit number 3185 is the identifying number of this piece of equipment in the input and output computer listings. The number 5530 is the model number of the equipment (American Model 5530 Truck Crane). The crane is rated at 75 tons and is equipped with a 170-foot boom. The crane has a 115-horsepower engine, the carrier has a 238-horsepower engine and both engines are diesel. The cost column reflects the pre-determined "equipment cost," used to compute the rates.

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

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

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

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

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

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

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

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

h. Rate Adjustment Tables. The rate adjustment tables (TABLES 3-2, 3-3 and 3-4) should be used to adjust the hourly rates in TABLE 3-1 when the actual age of the equipment and working hours are to be considered. These tables may be used whenever information is available to indicate that the contractor's equipment is not the same age as the equipment listed in this pamphlet or when the hours worked have exceeded

40 hours per week. The rate adjustment tables have been developed from the equations used to calculate ownership and standby costs and it has been determined that they provide reasonable adjustment factors to allow a short-cut method for computing an hourly use rate when actual conditions are considered. When cost or pricing data is available the rate adjustment tables may be used in lieu of a step-by-step rate computation for each item of equipment, provided that the equipment is equivalent in size, capacity, horsepower, etc. to the item listed in the pamphlet.

1. 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

CATEGORY INDEX

	<u>Page</u>
Aggregate Spreaders.....	3-9
Air Compressors - Portable.....	3-9
Air Equipment - Sandblast Equipment, Concrete Vibrators, Jackhammers, and Air Tools.....	3-10
Asphalt Distributor.....	3-11
Asphalt Finishers.....	3-11
Asphalt Kettles.....	3-12
Asphalt Recycler.....	3-12
Brooms - Towed & Self-Propelled.....	3-12
Brush Chippers.....	3-12
Buckets	
Clamshell.....	3-12
Concrete.....	3-14
Dragline and Crescent Scraper (Sauerman).....	3-15
Compactors - Manually Operated.....	3-18
Concrete Hauler (See Truck Accessories)	
Concrete Buggies.....	3-18
Concrete Finisher.....	3-19
Concrete Mixers.....	3-19
Concrete Pavers.....	3-19
Concrete Placers, Shotcrete.....	3-19
Concrete Pumps.....	3-20
Concrete Saw.....	3-21
Cranes, Shovels, Backhoes & Draglines - Crawler Type.....	3-21
Cranes - Hydraulic	
Self-Propelled.....	3-27
Truck Mounted.....	3-28
Cranes - Truck Mounted.....	3-29
Cranes - Tower.....	3-30
Dozers (See Tractor, Crawler)	
Drills	
Blast Hole (Trac Drills).....	3-31
Core-Air-Column Mounted.....	3-32
Core-Skid Mounted.....	3-32
Rotary.....	3-33
Fork Lifts.....	3-33
Generator Sets, Electric - Skid Mounted.....	3-35
Graders - Motor.....	3-36
Hoists.....	3-37
Hydraulic Excavators	
Crawler Mounted.....	3-38
Truck Mounted.....	3-40
Land Clearing Equipment.....	3-41

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

CATEGORY INDEX (Continued)

	<u>Page</u>
Lighting Sets - Trailer Mounted.....	3-41
Loaders - Belt.....	3-41
Loaders - Front End, Crawler Type.....	3-44
Loaders - Front End, Wheel Type.....	3-45
Loader/Backhoe - Wheel Type Tractor.....	3-49
Loader/Backhoe - Crawler Type Tractor.....	3-49
Loader/Backhoe Attachments.....	3-50
Pile Extractors.....	3-50
Pile Hammers	
Diesel.....	3-50
Air or Steam	
Single Acting.....	3-51
Double Acting.....	3-51
Vibratory.....	3-52
Pipelayers.....	3-52
Pumps - Grout.....	3-52
Pumps - Water	
Pumps - (For Core Drills).....	3-53
Pumps - Centrifugal, Dewatering.....	3-53
Pumps - Centrifugal, Trash.....	3-53
Pumps - Diaphragm.....	3-54
Pumps - Submersible.....	3-54
Ripper & Hydr. Bank Sloper.....	3-54
Roller	
Rubber Tired, Self-Propelled.....	3-56
Rubber Tired, Towed.....	3-57
Sheepsfoot, Double Drum, Towed.....	3-57
Sheepsfoot, Double Drun, Self-Propelled.....	3-58
Smooth Wheel, Self-Propelled.....	3-58
Vibratory, Single Drum, Towed.....	3-59
Vibratory, Single Drum, Self-Propelled.....	3-60
Vibratory, Double Drum, Self-Propelled.....	3-61
Sandblast Equipment (See Air Equipment)	
Scrapers - Self-Propelled.....	3-62
Scrapers - Tractor Drawn.....	3-64
Soil Stabilizers.....	3-64
Tampers (See Compactors, Manually Operated)	
Tractor - Crawler (Dozer) (Blades, Push Plates & Push Blocks are separate).....	3-65
Tractor - Wheel Type (Dozer).....	3-69
Tractor - Wheel Type, Farm Type.....	3-70

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

CATEGORY INDEX (Continued)

	<u>Page</u>
Trencher-Chain Type.....	3-70
Trencher-Wheel Type.....	3-70
Trucks - Highway (Chassis Only).....	3-71
Truck Accessories (Add to Chassis)	
Crane - Hydraulic.....	3-73
Dump Body, Rear (5 - 12 C.Y.).....	3-74
Flatbeds.....	3-74
Hoists.....	3-74
Transit Mixers.....	3-74
Water Tank.....	3-74
Truck Trailers	
Bottom Dump.....	3-75
End Dump.....	3-75
Lowboy (Flatbed).....	3-75
Platform.....	3-76
Pup.....	3-76
Tilt.....	3-76
Water Tanker Trailer.....	3-76
Trucks - Off-Highway.....	3-76
Trucks - Water, Tractor Drawn.....	3-78
Wagons	
Bottom Dump.....	3-78
Rear Dump.....	3-79
Water Blaster.....	3-79
Water Tanks.....	3-79
Welders.....	3-79



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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNERSHIP	AVERAGE COND. FUEL	SEVERE COND. OWNERSHIP FUEL				
AGGREGATE SPREADER													

ETNYRE - SELF-PROPELLED													
1015	SPREAD TO 8" DEPTH & 10' WIDE	184 HP G	58,653	24.10			3.28	6.66	9.76	155			
1020	SPREAD TO 8" DEPTH & 13' WIDE	140 HP D	65,449	18.76			3.66	7.45	4.33	160			
AIR COMPRESSORS, PORTABLE													

(HOSE NOT INCLUDED)													
ROTARY SCREW													
1035	SIZE 100 CFM QUIET 100 PSI	50 HP G	11,413	6.76			0.64	1.21	3.43	20			
1040	SIZE 100 CFM QUIET 100 PSI	33 HP D	13,711	4.33			0.77	1.46	1.29	26			
1045	SIZE 125 CFM QUIET 100 PSI	70 HP G	13,963	9.07			0.79	1.49	4.80	24			
1050	SIZE 125 CFM QUIET 100 PSI	51 HP D	14,856	5.46			0.83	1.58	2.00	26			
1055	SIZE 175 CFM QUIET 100 PSI	70 HP G	15,238	9.32			0.86	1.63	4.80	26			
1060	SIZE 175 CFM QUIET 100 PSI	54 HP D	17,275	6.07			0.97	1.84	2.11	28			
1065	SIZE 185 CFM QUIET 100 PSI	70 HP G	15,733	9.42			0.89	1.68	4.80	27			
1070	SIZE 185 CFM QUIET 100 PSI	69 HP D	18,534	7.09			1.04	1.98	2.70	29			
1075	SIZE 250 CFM QUIET 100 PSI	88 HP D	27,731	9.83			1.55	2.96	3.44	55			
1080	SIZE 375 CFM QUIET 100 PSI	122 HP D	34,480	12.89			1.92	3.62	4.78	79			
1085	SIZE 450 CFM QUIET 100 PSI	152 HP D	44,557	16.36			2.48	4.70	5.95	89			
1090	SIZE 600 CFM QUIET 100 PSI	188 HP D	53,409	19.90			2.98	5.64	7.36	97			
1095	SIZE 750 CFM QUIET 100 PSI	228 HP D	62,086	23.59			3.47	6.57	8.92	123			
1100	SIZE 825 CFM QUIET 100 PSI	260 HP D	70,492	26.85			3.94	7.47	10.18	130			
1105	SIZE 900 CFM QUIET 100 PSI	270 HP D	77,294	28.68			4.32	8.20	10.57	148			
1110	SIZE 1000 CFM QUIET 100 PSI	294 HP D	86,605	31.70			4.84	9.20	11.51	185			
1115	SIZE 1200 CFM QUIET 100 PSI	400 HP D	103,332	40.28			5.78	10.99	15.66	196			
1120	SIZE 1600 CFM QUIET 100 PSI	456 HP D	116,772	45.73			6.53	12.42	17.85	216			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL						
					AVERAGE	SEVERE	OWNER-SHIP	FUEL						
AIR EQUIPMENT ***** (HOSE NOT INCLUDED)														
CLEMCO - SANDBLASTERS														
1135	SCW-1042P SANDBLASTER 1/2" HOSE 101CFM A CAP. 100 LBS. W/ACC. AND 25' HOSE	1,538	1.15		0.14	0.36	0.00		3					
1140	SCW-1440P SANDBLASTER 1" HOSE 101CFM A CAP. 150 LBS W/ACC. AND 50' HOSE	2,797	2.05		0.26	0.67	0.00		5					
1145	SCWB-1648P SANDBLASTER 1" HOSE 101CFM A CAP. 300 LBS. W/ACC. AND 50' HOSE	2,825	2.08		0.26	0.68	0.00		6					
1150	SCWB-2452HPSANDBLASTER 1-1/4" HOS 216CFM A CAP. 600 LBS. W/ACC. AND 50' HOSE	3,108	2.34		0.28	0.74	0.00		7					
1155	SCH-3079 SANDBLASTER 1-1/4" PIPE 216CFM A CAP. 1400 LBS W/HOPPER & 50' HOSE	4,199	3.12		0.38	1.00	0.00		9					
1160	MOD 60-H SANDBLASTER 1-1/4" PIPE 450CFM A CAP. 3-TONS W/2 NOZZ. & 50' HOSE	12,227	8.82		1.09	2.84	0.00		28					
1165	MOD 120-H SANDBLASTER 1-1/4" PIPE 700CFM A CAP. 6-TONS W/3 NOZZ. & 50' HOSE	15,130	10.77		1.32	3.41	0.00		45					
1170	MOD 160-H SANDBLASTER 1-1/4" PIPE 900CFM A CAP. 8-TONS W/4 NOZZ. & 50' HOSE	18,435	13.22		1.62	4.20	0.00		53					
GARDNER DENVER - TOOLS														
1180	SPADER SP27E	32CFM A	925	0.72		0.09	0.22	0.00	1					
1185	SINKER DRILL S58	98CFM A	2,018	1.55		0.18	0.48	0.00	1					
1190	PAVING BREAKER B37	41CFM A	950	0.74		0.09	0.23	0.00	1					
1195	PAVING BREAKER B67C	46CFM A	1,017	0.78		0.09	0.24	0.00	1					
1200	PAVING BREAKER B87C	50CFM A	1,106	0.85		0.11	0.27	0.00	1					
1205	FEED LEG DRILL S83F-54" TRAVEL RETRACTABLE FL-7	103CFM A	3,702	2.76		0.33	0.88	0.00	1					
MASTER - CONCRETE VIBRATORS														
1215	CONCRETE VIBR. MOD A-600SH 6"	125CFM A	1,992	2.19		0.18	0.47	0.00	1					
1220	CONCRETE VIBR. MOD A-450SH 4.5"	110CFM A	1,284	1.44		0.11	0.30	0.00	1					
1225	CONCRETE VIBR. MOD A-35010 3.5"	82CFM A	1,154	1.29		0.11	0.28	0.00	1					
1230	CONCRETE VIBR. MOD A-30010 3"	64CFM A	1,042	1.15		0.09	0.25	0.00	1					
1235	CONCRETE VIBR. MOD A-25010 2.5"	40CFM A	818	0.90		0.07	0.19	0.00	1					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL				
ASPHALT DISTRIBUTOR - ROSCO												

(NO CHASSIS)												
1245	MOD RES 1000 GAL. TRUCK MOUNTED 18,000 TO 24,000 GVW REQUIRED	45 HP G	32,123	11.23		1.81	3.71	3.09	72			
1250	MOD RES 1500 GAL. TRUCK MOUNTED 24,000 TO 32,000 GVW REQUIRED	45 HP G	32,910	11.40		1.85	3.79	3.09	75			
1255	MOD RES 2000 GAL. TRUCK MOUNTED 32,000 GVW REQUIRED	45 HP G	35,274	11.93		1.99	4.07	3.09	87			
1260	MOD RES 3000 GAL. TRUCK MOUNTED 42,000 GVW REQUIRED	45 HP G	39,692	12.91		2.23	4.58	3.09	109			
ASPHALT FINISHERS												

SPW=STANDARD PAVING WIDTH												
BARBER-GREENE												
1270	MOD SB111 8' SPW (PNEUMATIC)	70 HP D	92,544	24.78		5.17	10.52	2.74	165			
1275	MOD SB131 10' SPW (PNEUMATIC) W/VIB SCREED, AUTO. FEEDERS AND GR CONTROL	95 HP D	152,950	39.94		8.53	17.30	3.72	258			
1280	MOD SB140 10' SPW (PNEUMATIC) OPTIONS SAME AS MOD SB131	130 HP D	171,314	45.92		9.56	19.43	5.09	325			
1285	MOD SA150 10' SPW (CRAWLER) OPTIONS SAME AS MOD SB131	130 HP D	202,446	52.85		11.40	23.37	5.09	375			
BLAW-KNOX												
1295	MOD PF-22 5'-8' SPW (PNEUMATIC)	30 HP D	50,444	13.12		2.81	5.67	1.17	95			
1300	MOD PF-35 6'-8' SPW (PNEUMATIC)	44 HP D	83,187	21.30		4.64	9.44	1.72	104			
1305	MOD PF-115 8' SPW (PNEUMATIC)	56 HP D	111,497	28.44		6.22	12.64	2.19	180			
1310	MOD PF-120H 10' SPW (PNEUMATIC)	95 HP D	135,037	35.84		7.51	15.23	3.72	240			
1315	MOD PF-180H 10' SPW (PNEUMATIC)	92 HP D	160,455	41.56		8.93	18.09	3.60	277			
1320	MOD PF-220 12' SPW (PNEUMATIC)	148 HP D	208,004	55.34		11.56	23.41	5.79	387			
1325	MOD PF-400A 8' SPW (CRAWLER)	90 HP D	149,034	38.62		8.39	17.20	3.52	230			
1330	MOD PF-500 10' SPW (CRAWLER)	125 HP D	179,043	47.23		10.08	20.66	4.89	291			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL	
	ASPHALT KETTLES - ROSCO *****								
1340	MOD KB 110 GAL. TRAILER MOUNTED	3,947	2.02		0.25	0.53	0.00		13
1345	MOD KD 225 GAL. TRAILER MOUNTED	4,594	2.29		0.28	0.61	0.00		16
	ASPHALT RECYCLER - BOMAG *****								
1355	MOD AR-6 TRAILER MOUNTED	8 HP G	10,732	5.11		0.66	1.45	0.55	21
	BROOMS - M-B *****								
1365	MOD 53T HYD 7 FT. TOWED MECH DRIVE W/SPRINKLER	6,903	1.63		0.39	0.76	0.00		24
1370	MOD 53-M 7 FT. TOWED MOTOR DRIVEN W/SPRINKLER	30 HP G	8,871	4.41		0.49	0.98	2.06	30
1375	MOD MT 7 FT. TRACTOR MOUNTED PTO DRIVE W/SPRINKLER		3,342	0.89		0.19	0.38	0.00	10
1380	MOD HT 7 FT. TRACTOR MOUNTED HYD DRIVE W/SPRINKLER		5,985	1.38		0.34	0.67	0.00	14
	BRUSH CHIPPERS - FMC *****								
1390	MOD C-16S SKID-MTD 16" DIA.LOG 150 HP G	12,306	12.28		0.70	1.43	7.18		41
1395	MOD C-16T TRAILER-MTD 16" DIA.LOG 150 HP G	13,467	12.53		0.75	1.53	7.18		45
	BUCKETS, CLAMSHELL *****								
	ESCO - MODEL GPS GENERAL PURPOSE & SQUARE NOSE								
1405	.75 C.Y.	10,732	2.21	2.85	0.61	1.28	0.00	1.52	0.00
1410	1.0 C.Y.	11,559	2.39	3.08	0.65	1.38	0.00	1.64	0.00
1415	1.5 C.Y.	16,757	3.46	4.46	0.94	2.00	0.00	2.38	0.00
1420	2.0 C.Y.	19,663	4.06	5.23	1.11	2.35	0.00	2.73	0.00
1425	2.5 C.Y.	25,362	5.24	6.74	1.43	3.03	0.00	3.59	0.00
1430	3.0 C.Y.	27,000	5.58	7.18	1.52	3.23	0.00	3.82	0.00
1435	3.5 C.Y.	29,382	6.08	7.81	1.66	3.52	0.00	4.16	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					
BUCKETS, CLAMSHELL (CONT'D)														

ESCO - MODEL GPS GEN PURPOSE & SQUARE NOSE (CONT'D)														
1440	4.0 C.Y.	32,564	6.74	8.66	1.84	3.90	0.00	4.61	0.00	115				
1445	4.5 C.Y.	35,395	7.31	9.41	2.00	4.23	0.00	5.01	0.00	125				
1450	5.0 C.Y.	37,780	7.81	10.04	2.13	4.52	0.00	5.34	0.00	140				
1455	5.5 C.Y.	41,798	8.63	11.12	2.35	4.99	0.00	5.92	0.00	152				
1460	6.0 C.Y.	43,515	9.00	11.57	2.46	5.21	0.00	6.16	0.00	160				
1465	6.5 C.Y.	44,834	9.26	11.93	2.53	5.36	0.00	6.35	0.00	169				
1470	7.0 C.Y.	47,180	9.75	12.54	2.66	5.64	0.00	6.67	0.00	177				
1475	7.5 C.Y.	49,077	10.14	13.04	2.77	5.87	0.00	6.94	0.00	184				
ESCO - MODEL HDS HEAVY DUTY & SQUARE NOSE														
1485	.75 C.Y.	10,223	2.11	2.72	0.58	1.22	0.00	1.45	0.00	33				
1490	1.0 C.Y.	14,234	2.94	3.78	0.80	1.70	0.00	2.01	0.00	46				
1495	1.5 C.Y.	20,912	4.32	5.56	1.18	2.50	0.00	2.96	0.00	70				
1500	2.0 C.Y.	22,686	4.69	6.03	1.28	2.71	0.00	3.21	0.00	78				
1505	2.5 C.Y.	28,529	5.90	7.59	1.61	3.42	0.00	4.04	0.00	98				
1510	3.0 C.Y.	31,417	6.50	8.35	1.77	3.76	0.00	4.44	0.00	109				
1515	3.5 C.Y.	36,079	7.45	9.59	2.03	4.31	0.00	5.10	0.00	120				
1520	4.0 C.Y.	38,963	8.05	10.37	2.19	4.66	0.00	5.52	0.00	131				
1525	4.5 C.Y.	42,005	8.68	11.17	2.37	5.02	0.00	5.95	0.00	141				
1530	5.0 C.Y.	45,095	9.32	11.99	2.54	5.39	0.00	6.38	0.00	155				
1535	5.5 C.Y.	47,734	9.86	12.69	2.69	5.70	0.00	6.75	0.00	164				
1540	6.0 C.Y.	50,243	10.38	13.36	2.83	6.01	0.00	7.11	0.00	174				
1545	6.5 C.Y.	53,065	10.96	14.11	2.99	6.34	0.00	7.51	0.00	185				
1550	7.0 C.Y.	55,438	11.46	14.74	3.13	6.63	0.00	7.84	0.00	193				
1555	7.5 C.Y.	57,770	11.94	15.37	3.26	6.91	0.00	8.18	0.00	201				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION		STAND-BY	AVERAGE	COND.	SEVERE	COND.	
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	BUCKETS, CLAMSHELL (CONT'D)									
	ESCO - MODEL XDS EXTRA HEAVY DUTY & SQUARE NOSE									
1565	.75 C.Y.	16,167	3.34	4.29	0.91	1.93	0.00	2.28	0.00	50
1570	1.0 C.Y.	16,538	3.41	4.40	0.93	1.97	0.00	2.34	0.00	55
1575	1.5 C.Y.	23,903	4.94	6.35	1.35	2.86	0.00	3.38	0.00	81
1580	2.0 C.Y.	29,449	6.08	7.82	1.66	3.52	0.00	4.16	0.00	99
1585	2.5 C.Y.	33,187	6.86	8.83	1.87	3.97	0.00	4.70	0.00	115
1590	3.0 C.Y.	36,209	7.48	9.63	2.04	4.33	0.00	5.13	0.00	127
1595	3.5 C.Y.	39,126	8.09	10.40	2.21	4.68	0.00	5.53	0.00	141
1600	4.0 C.Y.	41,667	8.61	11.07	2.35	4.98	0.00	5.89	0.00	150
1605	4.5 C.Y.	43,477	8.99	11.56	2.45	5.20	0.00	6.15	0.00	160
1610	5.0 C.Y.	47,270	9.78	12.57	2.67	5.66	0.00	6.69	0.00	173
1615	5.5 C.Y.	50,278	10.39	13.37	2.83	6.01	0.00	7.12	0.00	185
1620	6.0 C.Y.	53,039	10.95	14.11	2.99	6.34	0.00	7.51	0.00	195
1625	6.5 C.Y.	56,084	11.59	14.92	3.16	6.71	0.00	7.94	0.00	208
1630	7.0 C.Y.	58,338	12.06	15.52	3.29	6.98	0.00	8.26	0.00	218
1635	7.5 C.Y.	61,305	12.67	16.30	3.45	7.33	0.00	8.67	0.00	229
	BUCKETS, CONCRETE - GAR-BRO									
	GENERAL PURPOSE & MANUAL									
1645	433-G 1.0 C.Y.	1,621	0.33		0.09	0.19	0.00			6
1650	442-G 1.5 C.Y.	2,031	0.41		0.11	0.23	0.00			8
1655	462-G 2.0 C.Y.	2,634	0.54		0.15	0.31	0.00			11
1660	493-G 3.0 C.Y.	3,748	0.77		0.22	0.44	0.00			19
1665	4123-G 4.0 C.Y.	4,694	0.95		0.26	0.54	0.00			23

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL	
BUCKETS, CONCRETE - GAR-BRO (CONT'D)									
	LOW SLUMP - AIR OPERATED GATE								
1675	440-A 1.0 C.Y.	6,673	1.35		0.37	0.77	0.00		19
1680	450-A 1.5 C.Y.	6,948	1.40		0.39	0.80	0.00		21
1685	460-A 2.0 C.Y.	7,227	1.46		0.40	0.83	0.00		23
1690	493-A 3.0 C.Y.	9,594	1.95		0.54	1.11	0.00		42
1695	4139-A 4.0 C.Y.	10,057	2.05		0.57	1.17	0.00		52
1700	4200-A 6.0 C.Y. DBL. COMPT.	14,498	2.94		0.82	1.68	0.00		72
1705	4250-A 8.0 C.Y. DBL. COMPT.	17,291	3.51		0.97	2.00	0.00		80
LAYDOWN - HEAVY DUTY - AIR GATE									
1715	425-A 1.0 C.Y.	7,585	1.54		0.43	0.88	0.00		26
1720	465-A 2.0 C.Y.	8,488	1.72		0.48	0.98	0.00		31
1725	495-A 3.0 C.Y.	9,875	2.00		0.56	1.14	0.00		40
1730	4125-A 4.0 C.Y.	11,032	2.23		0.62	1.27	0.00		49
1735	4155-A 5.0 C.Y.	12,944	2.62		0.73	1.49	0.00		60
BUCKETS, DRAGLINE									

HENDRIX - MODEL LS									
LIGHT WEIGHT & PERFORATED									
1750	.75 C.Y.	3,621	0.76	0.96	0.21	0.44	0.00	0.51	0.00
1755	1.0 C.Y.	4,298	0.88	1.14	0.24	0.51	0.00	0.61	0.00
1760	1.5 C.Y.	5,287	1.10	1.41	0.30	0.64	0.00	0.75	0.00
1765	2.0 C.Y.	6,256	1.29	1.67	0.35	0.75	0.00	0.89	0.00
1770	2.5 C.Y.	7,343	1.52	1.95	0.42	0.88	0.00	1.04	0.00
1775	3.0 C.Y.	9,058	1.87	2.41	0.51	1.08	0.00	1.28	0.00
1780	3.5 C.Y.	10,007	2.06	2.65	0.56	1.19	0.00	1.41	0.00
1785	4.0 C.Y.	12,233	2.53	3.25	0.69	1.46	0.00	1.73	0.00
1790	4.5 C.Y.	12,987	2.69	3.46	0.74	1.56	0.00	1.94	0.00
1795	5.0 C.Y.	15,695	3.24	4.17	0.88	1.97	0.00	2.22	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					
BUCKETS, DRAGLINE (CONT'D)														
HENDRIX - MODEL LS LIGHT WEIGHT & PERFORATED (CONT'D)														
1800	6.0 C.Y.	16,991	3.51	4.51	0.96	2.03	0.00	2.40	0.00	90				
1805	7.0 C.Y.	18,602	3.85	4.94	1.05	2.23	0.00	2.63	0.00	101				
1810	8.0 C.Y.	20,622	4.27	5.48	1.17	2.47	0.00	2.91	0.00	112				
1815	9.0 C.Y.	23,806	4.92	6.33	1.34	2.85	0.00	3.37	0.00	128				
1820	10.0 C.Y.	25,871	5.34	6.88	1.46	3.09	0.00	3.66	0.00	139				
1825	12.0 C.Y.	31,756	6.57	8.45	1.79	3.80	0.00	4.50	0.00	166				
1830	14.0 C.Y.	36,514	7.55	9.71	2.06	4.37	0.00	5.17	0.00	191				
HENDRIX - MODEL TS, MEDIUM WEIGHT														
1840	.75 C.Y.	4,215	0.88	1.11	0.24	0.51	0.00	0.59	0.00	17				
1845	1.0 C.Y.	5,166	1.07	1.37	0.29	0.62	0.00	0.73	0.00	19				
1850	1.5 C.Y.	6,411	1.33	1.71	0.37	0.77	0.00	0.91	0.00	28				
1855	2.0 C.Y.	7,670	1.59	2.04	0.43	0.92	0.00	1.09	0.00	36				
1860	2.5 C.Y.	8,838	1.83	2.35	0.50	1.06	0.00	1.25	0.00	41				
1865	3.0 C.Y.	10,567	2.13	2.80	0.59	1.26	0.00	1.49	0.00	49				
1870	3.5 C.Y.	11,668	2.41	3.10	0.66	1.39	0.00	1.65	0.00	54				
1875	4.0 C.Y.	14,055	2.91	3.74	0.80	1.69	0.00	1.99	0.00	70				
1880	4.5 C.Y.	15,005	3.11	3.99	0.85	1.80	0.00	2.12	0.00	72				
1885	5.0 C.Y.	19,240	3.93	5.11	1.09	2.30	0.00	2.72	0.00	93				
1890	6.0 C.Y.	19,882	4.11	5.29	1.12	2.38	0.00	2.82	0.00	96				
1895	7.0 C.Y.	22,706	4.69	6.03	1.28	2.71	0.00	3.21	0.00	111				
1900	8.0 C.Y.	24,998	5.17	6.64	1.41	2.99	0.00	3.53	0.00	122				
1905	9.0 C.Y.	29,951	6.20	7.97	1.69	3.59	0.00	4.24	0.00	140				
1910	10.0 C.Y.	31,900	6.60	8.48	1.80	3.82	0.00	4.51	0.00	159				
1915	12.0 C.Y.	40,651	8.40	10.81	2.29	4.86	0.00	5.75	0.00	202				
1920	14.0 C.Y.	45,265	9.35	12.03	2.56	5.42	0.00	6.40	0.00	225				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
BUCKETS, DRAGLINE (CONT'D) *****														
HENDRIX - MODEL MH-S, HEAVY WEIGHT														
1930	2.75 C.Y.	16,860	3.48	4.49	0.95	2.01	0.00	2.39	0.00	69				
1935	3.0 C.Y.	17,537	3.63	4.66	0.99	2.10	0.00	2.48	0.00	72				
1940	3.5 C.Y.	19,638	4.06	5.22	1.11	2.35	0.00	2.78	0.00	81				
1945	4.0 C.Y.	26,283	5.44	6.99	1.49	3.15	0.00	3.72	0.00	110				
1950	4.5 C.Y.	29,383	6.08	7.81	1.66	3.52	0.00	4.16	0.00	123				
1955	5.0 C.Y.	30,343	6.27	8.07	1.71	3.63	0.00	4.30	0.00	127				
1960	6.0 C.Y.	32,494	6.72	8.63	1.84	3.89	0.00	4.59	0.00	136				
1965	7.0 C.Y.	41,331	8.55	10.99	2.33	4.95	0.00	5.85	0.00	175				
1970	8.0 C.Y.	42,509	8.78	11.30	2.40	5.08	0.00	6.01	0.00	183				
1975	9.0 C.Y.	54,107	11.18	14.38	3.05	6.47	0.00	7.65	0.00	234				
1980	10.0 C.Y.	55,686	11.51	14.81	3.14	6.66	0.00	7.88	0.00	243				
1985	12.0 C.Y.	66,230	13.69	17.61	3.74	7.92	0.00	9.37	0.00	289				
1990	14.0 C.Y.	70,014	14.47	18.62	3.95	8.37	0.00	9.91	0.00	309				
SAUERMAN - CRESCENT SCRAPER														
WITH DRAGLINE CONVERSION KIT														
2000	SC-1050-K 1.0 C.Y.	9,972	2.06	2.65	0.56	1.19	0.00	1.41	0.00	15				
2005	SC-1060-K 1.5 C.Y.	12,778	2.64	3.40	0.72	1.53	0.00	1.81	0.00	20				
2010	SC-1070-K 2.0 C.Y.	17,493	3.62	4.65	0.99	2.10	0.00	2.47	0.00	25				
2015	SC-1090-K 3.0 C.Y.	23,166	4.79	6.16	1.31	2.77	0.00	3.28	0.00	36				
2020	SC-1100-K 4.0 C.Y.	34,586	7.15	9.20	1.95	4.14	0.00	4.90	0.00	49				
2025	SC-1110-K 5.0 C.Y.	39,454	8.16	10.49	2.22	4.72	0.00	5.58	0.00	58				
2030	SC-1120-K 6.0 C.Y.	47,799	9.88	12.72	2.70	5.72	0.00	6.77	0.00	68				
2035	SC-1130-K 8.0 C.Y.	58,121	12.01	15.46	3.28	6.95	0.00	8.23	0.00	88				
2040	SC-1140-K 10.0 C.Y.	70,513	14.58	18.75	3.98	8.44	0.00	9.98	0.00	106				
2045	SC-1150-K 12.0 C.Y.	81,883	16.92	21.78	4.62	9.79	0.00	11.59	0.00	132				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS			CWT
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.		
			AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL
COMPACTORS, MANUALLY OPERATED								
2055	UR-12 INGERSOLL-RAND RAMMER	3 HP G	1,704	1.07	0.13	0.29	0.28	1
2060	BS45Y WACKER RAMMER	3 HP G	1,689	1.07	0.13	0.29	0.28	1
2065	BS65Y WACKER RAMMER	4 HP G	3,069	1.76	0.22	0.52	0.38	2
2070	GVR151Y WACKER RAMMER	5 HP G	2,397	1.59	0.17	0.40	0.47	2
2075	GVR220Y WACKER RAMMER	6 HP G	3,069	2.00	0.22	0.52	0.57	2
2080	VPG160B WACKER VIBRO PLATE	4 HP G	1,334	1.04	0.10	0.23	0.38	2
2085	VPG260K WACKER VIBRO PLATE	7 HP G	1,900	1.62	0.13	0.32	0.66	3
2090	BT-50 BOMAG TAMPING	4 HP G	1,880	1.26	0.13	0.32	0.38	1
2095	BT-71 BOMAG TAMPING	4 HP G	2,348	1.46	0.17	0.40	0.38	2
2100	BP-11K BOMAG VIBRO PLATE	4 HP G	1,699	1.19	0.13	0.29	0.38	3
2105	BP-19/75 BOMAG VIBRO PLATE	5 HP D	3,197	1.69	0.23	0.54	0.27	4
2110	BP-30 BOMAG VIBRO PLATE	5 HP D	5,773	2.78	0.41	0.98	0.27	5
2115	BP-50 BOMAG VIBRO PLATE	7 HP D	8,578	4.10	0.61	1.46	0.38	9
2120	BW-75E BOMAG WALK BEHIND S/D	5 HP D	7,418	3.47	0.53	1.26	0.27	10
2125	BW-35 BOMAG WALK BEHIND D/D	4 HP D	9,200	4.16	0.66	1.57	0.22	11
2130	BW-60SE BOMAG D/D ROLLER	8 HP D	12,787	5.94	0.91	2.17	0.44	20
2135	BW-90SE BOMAG D/D ROLLER	13 HP D	16,166	7.70	1.15	2.74	0.71	30
2140	VPG600 WACKER VIBRO PLATE	9 HP G	3,513	2.54	0.26	0.60	0.85	7
2145	DPS2350 WACKER VIBRO PLATE	7 HP D	3,684	2.02	0.26	0.62	0.38	4
2150	DPU5050 WACKER VIBRO PLATE	11 HP D	12,360	5.96	0.89	2.10	0.60	10
2155	W 55 T WACKER D/D ROLLER	8 HP D	11,363	5.34	0.81	1.93	0.44	17
2160	W 74 T WACKER D/D ROLLER	8 HP D	12,780	5.94	0.91	2.17	0.44	19
CONCRETE BUGGIES - AEROIL								
2170	5 CF WALK-BEHIND	5 HP G	1,820	1.10	0.13	0.31	0.37	3

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	AVERAGE	SEVERE	STAND-BY	OWNER-SHIP	FUEL	OWNER-SHIP	
CONCRETE FINISHERS - BOMAG										
2180	MOD F46B4 GYRO TROWEL	7 HP G	1,494	1.20		0.11	0.26	0.52		2
2185	MOD RF2B4 DOUBLTROWEL	16 HP G	5,892	3.54		0.43	1.01	1.18		7
2190	MOD RF3B3 TRIPLTROWEL	16 HP G	7,595	4.10		0.54	1.29	1.18		9
CONCRETE MIXERS										
2200	PORTABLE CONCRETE MIXER 2.5 CF	1 HP E	702	0.37		0.05	0.10	0.10		2
2205	PORTABLE CONCRETE MIXER 3.5 CF	1 HP E	729	0.38		0.05	0.11	0.10		3
2210	PORTABLE CONCRETE MIXER 6.0 CF	7 HP G	2,163	1.40		0.15	0.35	0.52		7
2215	PORTABLE MORTAR MIXER 6.0 CF	7 HP G	1,741	1.26		0.12	0.28	0.52		6
CONCRETE PAVERS										
CMI										
2225	MOD SF - 175 SLIPFORM PAVER CURBS, MEDIAN, AND SIDEWALKS	142 HP D	135,247	38.07		7.62	15.61	5.56		263
2230	MOD SF - 250 26' WIDE SLIPFORM UNIT, 0-80 FT/MIN, CRAWLER MTD.	208 HP D	238,564	65.02		13.43	27.53	8.14		470
2235	MOD SUBURBAN 25' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD.	250 HP D	419,993	108.64		23.65	48.47	9.78		720
GOMACO										
2245	MOD C-650 24' WIDE FORM PAVER W/4' FINISHING CYLINDERS	65 HP G	28,075	12.32		1.58	3.22	4.46		91
2250	MOD HW-165 16'-6" WIDE SLIPFORM UNIT, AUTO VIBRATORS, CRLR MTD	100 HP D	127,359	34.16		7.17	14.70	3.91		255
CONCRETE PLACERS, SHOTCRETE										
ALLENTOWN										
2260	R450 PNEUM. GUN N-1 3-4 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 365 CFM COMP.	12 HP D	25,533	8.02		1.58	3.57	0.69		45
2265	R900 PNEUM. GUN N-2 6-10 CY/HR INCL. TRAILER, HOSE, HOPPER, AND FEEDER. REQ 600 CFM COMP.	20 HP D	29,260	9.65		1.82	4.10	1.15		60

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL				
CONCRETE PLACERS, SHOTCRETE (CONT'D)												
ALLEN TOWN (CONT'D)												
2270	GR600 ROTARY GUN 1-6 CY/HR INCL. HOSE, REQ. 550 CFM COMP.	550CFM A	8,367	2.53	0.52	1.16	0.00		9			
2275	GR1200 ROTARY GUN 4-12 CY/HR INCL. HOSE, REQ. 770 CFM COMP.	770CFM A	16,333	4.89	1.02	2.29	0.00		18			
CHALLENGE SQUEEZ-CRETE												
2285	250-D FOR WET SHOTCRETE 25 CY/HR TRAILER MOUNTED INCL. HOSE	62 HP D	45,609	17.36	2.85	6.45	3.58		70			
CONCRETE PUMPS												
MORGEN												
2295	MOD 204-305 TRAILER MTD 60 CY/HR 110 HP D	54,153	23.28	3.38	7.65	6.34			70			
2300	MOD 203-420 BOOM 72'-VT 120 CY/HR 210 HP D INCLUDES 24500 GVW TRUCK	148,021	57.00	9.21	20.82	12.11			255			
SCHWING												
2310	MOD BPA 350 TRAILER MTD 60 CY/HR 67 HP D	46,240	17.89	2.89	6.54	3.86			66			
2315	MOD BPA 650 TRAILER MTD 60 CY/HR 152 HP D	72,284	31.44	4.49	10.14	8.77			98			
2320	MOD BPA 901 TRAILER MTD 135 CY/HR 152 HP D	74,245	32.00	4.62	10.42	8.77			98			
2325	MOD BP 3000 TRAILER MTD 127 CY/HR 177 HP D	98,328	40.61	6.13	13.88	10.21			130			
2330	MOD BP 5000 TRAILER MTD 151 CY/HR 300 HP D	126,127	57.49	7.87	17.82	17.30			150			
2335	MOD BPL 580 TRUCK MTD 72 CY/HR 175 HP D INCLUDING TRUCK AND 75' BOOM	152,315	55.66	9.43	21.23	10.09			302			
2340	MOD BPL 801 TRUCK MTD 107 CY/HR 175 HP D INCLUDING TRUCK AND 92' BOOM	218,448	74.19	13.56	30.59	10.09			321			
2345	MOD BPL1200 TRUCK MTD 147 CY/HR 239 HP D INCLUDING TRUCK AND 102' BOOM	268,351	92.95	16.65	37.54	13.79			408			

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

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

FELKER (SAWBLADE WEAR NOT INCLUDED)														
2355	MOD 8BCC	5" DEPTH OF CUT 8 HP G	1,685	1.46		0.10	0.23	0.76	3					
2360	MOD 12WCC	5" DEPTH OF CUT 12 HP G	2,102	2.08		0.13	0.29	1.14	3					
2365	MOD 14TCC	5" DEPTH OF CUT 14 HP G	2,081	2.32		0.13	0.29	1.32	3					
2370	MOD 140MR	8" DEPTH OF CUT 14 HP G	4,659	3.02		0.29	0.63	1.32	6					
2375	MOD 185MR	8" DEPTH OF CUT 18 HP G	5,907	3.88		0.37	0.81	1.70	7					
2380	MOD 300MR	8" DEPTH OF CUT 30 HP G	6,674	5.59		0.42	0.91	2.84	7					
2385	MOD 350MCA	10" DEPTH OF CUT 35 HP G	9,788	7.06		0.60	1.33	3.31	12					
2390	MOD 665MCA	15" DEPTH OF CUT 65 HP G	13,128	11.73		0.82	1.79	6.15	14					
CRANES, SHOVEL, BACKHOE, DRAGLINE														

AMERICAN - CRAWLER TYPE														
MOD 4120 DRAGLINE 1 CY 93 HP D 13'-7" CRAWLERS W/28" SHOES														
2400	DRAGLINE OR CLAMSHELL (LESS BUCKET)		204,207	39.33	48.59	10.72	20.84	2.87	23.63	3.64	648			
MOD 597-C 1.25 CY I/C 114 HP D 14'-7" CRAWLERS W/32" SHOES														
2405	DRAGLINE OR CLAMSHELL (LESS BUCKET)		283,258	47.88	56.95	13.78	25.01	3.52	27.40	4.46	814			
2410	CRANE 35-T W/65' BOOM		284,984	43.78	50.88	13.87	25.16	2.82	27.57	3.64	803			
MOD 599-A LIFTING CRANE T/C 114 HP D 16'-0" CRAWLERS W/32" SHOES														
2420	CRANE 50-T W/75' BOOM		310,863	47.46	55.10	15.13	27.45	2.82	30.07	3.64	962			
MOD 5299-A LIFTING CRANE T/C 125 HP D 17'-6" CRAWLERS W/36" SHOES														
2430	CRANE 60-T W/80' BOOM		324,607	49.73	57.76	15.80	28.66	3.09	31.40	3.99	1088			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-	AVERAGE COND.	SEVERE COND.	OWNER-	FUEL	OWNER-	
			AVERAGE	SEVERE	BY	SHIP				
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D) *****									
	AMERICAN - CRAWLER TYPE (CONT'D)									
	MOD 797-C 2 CY T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES									
2440	DRAGLINE OR CLAMSHELL (LESS BUCKET)	387,837	66.00	78.56	18.87	34.24	5.19	37.52	6.58	1278
2445	CRANE 40-T W/75' BOOM	379,645	58.80	68.39	18.48	33.52	4.15	36.73	5.36	1262
	MOD 7250 STEEL ERECTOR T/C 168 HP D 17'-6" CRAWLERS W/33" SHOES									
2455	CRANE 60-T W/80' BOOM	402,522	57.61	65.54	18.56	31.85	4.15	34.16	5.36	1421
	MOD 7260 LIFTING CRANE T/C 168 HP D 19'-6" CRAWLERS W/38" SHOES									
2465	CRANE 100T W/200' BOOM	493,386	69.47	78.86	22.75	39.04	4.15	41.87	5.36	1886
	MOD 999-C STEEL ERECTOR T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES									
2475	CRANE 110-T W/200' BOOM	673,549	96.60	109.90	31.07	53.31	7.09	57.16	9.16	2792
	MOD 9260 4.5 CY T/C 287 HP D 23'-9" CRAWLERS W/38" SHOES									
2485	CRANE 125T W/270' BOOM	704,174	100.60	114.39	32.48	55.74	7.09	59.76	9.16	3150
2490	DRAGLINE OR CLAMSHELL (LESS BUCKET)	677,915	106.30	123.52	31.26	53.65	8.87	57.53	11.23	2950
	MOD 9270 LIFT CR TAPERED TIP T/C 287 HP D 23'-9" CRAWLERS W/44" SHOES									
2500	CRANE 150T W/280' BOOM	762,399	108.20	122.93	35.16	60.34	7.09	64.70	9.16	3400
	MOD 9299 LIFTING CRANE T/C 287 HP D 24'-11" CRAWLERS W/44" SHOES									
2510	CRANE 165T W/290' BOOM	801,293	110.57	124.23	35.94	59.75	7.09	63.42	9.16	3580
	MOD 9310 LIFTING CRANE T/C 287 HP D 28'-2" CRAWLERS W/50" SHOES									
2520	CRANE 225T W/280' BOOM	842,243	115.78	129.99	37.78	62.81	7.09	66.65	9.16	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.			
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D)									
	BUCYRUS ERIE - CRAWLER TYPE									
	MOD 25-B SER-3 HVY DUTY 1 CY 115 HP D 13'-11" CRAWLERS W/30" SHOES									
2535	DRAGLINE OR CLAMSHELL (LESS BUCKET)	216,124	42.29	52.30	11.34	22.04	3.55	25.02	4.50	647
2540	CRANE 28-T W/50' BOOM	220,839	34.72	40.44	10.75	19.50	2.84	21.36	3.67	651
	MOD 30-B SER 5 HVY DUTY 1.5 CY 144 HP D 14'-7" CRAWLERS W/36" SHOES									
2550	BACKHOE	279,489	66.18	85.09	15.74	32.35	5.19	38.10	6.82	792
2555	DRAGLINE OR CLAMSHELL (LESS BUCKET)	311,332	53.32	63.49	15.15	27.49	4.45	30.12	5.64	833
2560	CRANE 35-T W/60' BOOM	312,924	48.64	56.59	15.23	27.63	3.56	30.27	4.60	831
	MOD 38-B SER 2 HVY DUTY 2 CY T/C 178 HP D 17'-5" CRAWLERS W/36" SHOES									
2570	SHOVEL	397,854	93.03	119.60	22.40	46.05	6.42	54.24	8.43	1279
2575	DRAGLINE OR CLAMSHELL (LESS BUCKET)	407,822	69.45	82.66	19.85	36.01	5.50	39.45	6.97	1192
	MOD 61-B SER 2 3.25 CY T/C 205 HP D 15'-11" CRAWLERS W/33" SHOES									
2585	SHOVEL	569,240	119.79	148.00	29.88	58.08	7.39	65.89	9.71	1762
2590	BACKHOE	544,846	115.04	142.15	28.60	55.59	7.39	63.06	9.71	1727
2595	DRAGLINE OR CLAMSHELL (LESS BUCKET)	562,983	87.02	101.00	25.97	44.56	6.33	47.78	8.02	1570
2600	CRANE 51-T W/70' BOOM	550,760	78.09	88.72	25.40	43.59	5.07	46.74	6.55	1571
	MOD 61-B SER-2 110-T 4 CY T/C 243 HP D 20'-6" CRAWLERS W/42" SHOES									
2610	CRANE 110T W/160' BOOM	693,225	97.84	111.08	31.97	54.86	6.01	58.83	7.76	2123
2615	DRAGLINE OR CLAMSHELL (LESS BUCKET)	662,540	102.48	118.94	30.55	52.43	7.51	56.23	9.51	1973
	MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES									
2625	SHOVEL	685,882	144.28	178.26	36.00	69.97	8.87	79.39	11.66	2096
2630	BACKHOE	648,751	137.06	169.38	34.05	66.19	8.87	75.09	11.66	2000

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT	
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL		
	CRANES, SHOVEL,B/R,DRAGLINE (CONT'D)									
	BUCYRUS ERIE - CRAWLER TYPE (CONT'D)									
	MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES									
2635	DRAGLINE OR CLAMSHELL (LESS BUCKET)	615,214	95.92	111.42	28.37	48.69	7.60	52.21	9.63	1820
	MOD 88-B SER 4 5.5 CY T/C 365 HP D 17'-10" CRAWLERS W/36" SHOES									
2645	SHOVEL	973,604	202.86	243.90	48.09	92.13	13.16	102.30	17.29	2822
2650	DRAGLINE OR CLAMSHELL (LESS BUCKET)	801,242	123.18	141.56	35.94	59.75	11.28	63.41	14.29	2274
	LINK BELT - CRAWLER TYPE									
	MOD LS-98A LIFTING CRANE T/C 110 HP D 15'-1" CRAWLERS W/24" SHOES									
2665	CRANE 40-T W/50' BOOM	214,964	33.74	39.30	10.46	18.98	2.72	20.80	3.51	772
	MOD LS-118 LIFTING CRANE T/C 165 HP D 17'-0" CRAWLERS W/30" SHOES									
2675	CRANE 60-T W/80' BOOM	339,569	49.31	56.20	15.66	26.87	4.08	28.82	5.27	1232
	MOD LS-338 LIFTING CRANE T/C 171 HP D 20'-0" CRAWLERS W/38" SHOES									
2685	CRANE 100-T W/200' BOOM	466,222	66.04	74.99	21.50	36.90	4.23	39.56	5.46	1512
	MOD LS-518 LIFTING CRANE T/C 245 HP D 24'-4" CRAWLERS W/44" SHOES									
2695	CRANE 150-T W/250' BOOM	702,428	99.11	112.51	32.40	55.60	6.06	59.62	7.82	2712
	MANITOWOC - CRAWLER TYPE									
	MOD 3900 VICON 3.5 CY T/C 287 HP D 20'-4" CRAWLERS W/38" SHOES									
2710	DRAGLINE OR CLAMSHELL (LESS BUCKET)	484,676	79.09	92.22	22.36	38.36	8.87	41.13	11.23	2305
2715	CRANE 100T W/210' BOOM	532,528	78.19	89.23	24.56	42.15	7.09	45.19	9.16	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. OWNER-SHIP	SEVERE COND. OWNER-SHIP	FUEL									
			AVERAGE	SEVERE													
CRANES, SHOVEL, B/H, DRAGLINE (CONT'D)																	

MANITOWOC - CRAWLER TYPE (CONT'D)																	
2730	MOD 3900W VICON SER2 T/C 300 D 24'-0" CRAWLERS W/48" SHOES	300 HP D	629,239	91.22	103.92	29.03	49.81	7.42	53.40	9.58	2815						
2740	CRANE 140T W/250' BOOM	300 HP D	815,370	128.42	149.29	37.61	64.53	11.12	69.20	14.09	3788						
2745	MOD 4100W VICON SER1 5 CY T/C 360 HP D 26'-6" CRAWLERS W/48" SHOES	260' BOOM	875,476	122.24	137.57	39.26	65.28	8.90	69.29	11.49	3929						
2755	CRANE 240T W/260' BOOM	26'-1" CRAWLERS W/60" SHOES	1,292,557	185.18	209.18	57.98	96.39	16.93	102.30	21.87	5200						
2760	DRAGLINE OR CLAMSHELL (LESS BUCKET)	26'-1" CRAWLERS W/60" SHOES	1,279,059	200.56	230.94	57.36	95.38	21.17	101.23	26.81	5100						
NORTHWEST - CRAWLER TYPE																	
2775	MOD 50-D/5045 1.5 CY T/C 238 HP D 15'-4" CRAWLERS W/30" SHOES	15'-4" CRAWLERS W/30" SHOES	288,819	53.33	63.80	14.06	25.50	7.35	27.94	9.32	954						
2780	CRANE 45-T W/60' BOOM	15'-4" CRAWLERS W/30" SHOES	285,596	47.55	55.73	13.90	25.22	5.88	27.63	7.60	947						
2790	SHOVEL	15'-10" CRAWLERS W/30" SHOES	477,723	113.84	146.41	26.90	55.29	9.48	65.13	12.46	1510						
2795	DRAGLINE OR CLAMSHELL (LESS BUCKET)	15'-10" CRAWLERS W/30" SHOES	411,446	73.17	87.31	20.03	36.33	8.13	39.80	10.29	1274						
2800	CRANE 40-T W/50' BOOM	15'-10" CRAWLERS W/30" SHOES	404,719	65.18	76.13	19.70	35.73	6.50	39.15	8.40	1267						
2810	MOD 9570-WT 4.0 CY T/C 304 HP D 19'-0" CRAWLERS W/38" SHOES	19'-0" CRAWLERS W/38" SHOES	467,530	77.32	90.26	21.57	37.01	9.39	39.68	11.90	1580						
2815	DRAGLINE OR CLAMSHELL (LESS BUCKET)	19'-0" CRAWLERS W/38" SHOES	460,745	69.32	79.38	21.25	36.47	7.51	39.10	9.71	1565						
2820	CRANE 60-T W/50' BOOM	19'-0" CRAWLERS W/38" SHOES	454,060	62.50	75.00	20.00	35.00	6.00	38.00	8.00	1550						

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		
	CRANES, SHOVEL,B/H,DRAGLINE (CONT'D) *****									
	NORTHWEST - CRAWLER TYPE (CONT'D)									
	MOD 180-D SERIES 2 5 CY T/C 358 HP D 18'-1" CRAWLERS W/36" SHOES									
2825	SHOVEL	773,085	166.18	205.58	40.58	78.87	12.91	89.48	16.96	2571
2830	DRAGLINE OR CLAMSHELL (LESS BUCKET)	670,891	107.99	125.77	30.95	53.10	11.06	56.93	14.01	2365
2835	CRANE 97.5-T W/170' BOOM	698,090	101.95	116.26	32.20	55.25	8.85	59.24	11.43	2464
	MOD 190-D WT SERIES 3 T/C 456 HP D 21'-1" CRAWLERS W/54" SHOES									
2845	DRAGLINE 6.5 CY (LESS BUCKET)	717,296	115.22	133.00	32.17	53.49	14.09	56.77	17.85	2740
2850	CRANE 100-T W/170' BOOM	755,554	112.40	128.50	34.85	59.80	11.27	64.12	14.56	2872
	P & H - CRAWLER TYPE									
	MOD 5060 1.75 CY T/C 140 HP D 19'-8" CRAWLERS W/30" SHOES									
2865	DRAGLINE (LESS BUCKET)	316,950	54.05	64.32	15.43	27.99	4.33	30.66	5.48	989
2870	CRANE 60-T W/80' BOOM	326,668	46.87	53.33	15.07	25.85	3.46	27.72	4.47	1157
	MOD 670WLC 2 CY T/C 198 HP D 18'-6" CRAWLERS W/30" SHOES									
2880	DRAGLINE OR CLAMSHELL (LESS BUCKET)	395,986	68.37	81.44	19.27	34.96	6.12	38.31	7.75	1344
2885	CRANE 70-T W/150' BOOM	411,559	59.70	68.04	18.98	32.57	4.89	34.93	6.32	1466
	MOD 5100 3 CY T/C 236 HP D 21'-6" CRAWLERS W/36" SHOES									
2890	DRAGLINE OR CLAMSHELL (LESS BUCKET)	477,083	76.09	88.55	22.00	37.76	7.29	40.48	9.24	1775
2895	CRANE 100-T W/210' BOOM	503,399	72.85	82.98	23.22	39.85	5.83	42.72	7.54	1850
	MOD 5300A LIFTING CRANE T/C 378 HP D 32'-8" CRAWLERS W/48" SHOES									
2900	CRANE 300-T W/320' BOOM	1,481,060	199.71	223.59	66.42	110.44	9.34	117.22	12.07	5589

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNERSHIP	AVERAGE COND.	SEVERE COND.	
	CRANES, HYDRAULIC SELF-PROPELLED									
	GROVE									
2910	MOD RT58A	14 TON	112 HP D	115,412	22.56		5.39	9.77	4.38	410
2915	MOD RT515	15 TON	115 HP D	123,674	23.88		5.78	10.49	4.50	418
2920	MOD RT518	18 TON	115 HP D	138,602	26.16		6.47	11.70	4.50	452
2925	MOD RT522	22 TON	115 HP D	151,708	28.04		7.08	12.83	4.50	498
2930	MOD RT625	25 TON	156 HP D	202,024	36.89		9.43	17.11	6.11	560
2935	MOD RT740	40 TON	170 HP D	279,953	49.83		13.03	23.57	6.65	758
2940	MOD RT755	55 TON	170 HP D	333,654	57.93		15.51	28.00	6.65	839
2945	MOD RT865	65 TON	208 HP D	410,950	70.93		19.15	34.64	8.14	1100
2950	MOD RT980	80 TON	230 HP D	530,322	90.03		24.66	44.51	9.00	1320
2955	MOD RT1650	165 TON	512 HP D	1,000,758	173.76		46.55	84.06	20.04	2400
	LORAIN									
2965	MOD LRT150	15 TON	114 HP D	118,025	22.99		5.52	10.01	4.46	438
2970	MOD LRT180	18 TON	121 HP D	125,928	24.46		5.88	10.69	4.74	450
2975	MOD LRT330	33 TON	180 HP D	195,924	37.88		9.14	16.55	7.05	570
	P & H									
2985	MOD OMEGA 115	15 TON	125 HP D	128,073	25.00		5.99	10.86	4.89	436
2990	MOD OMEGA 118	18 TON	125 HP D	139,425	26.60		6.52	11.84	4.89	437
2995	MOD OMEGA 120	20 TON	128 HP D	147,949	27.95		6.92	12.58	5.01	438
3000	MOD OMEGA 122	22 TON	128 HP D	148,660	28.06		6.96	12.65	5.01	438
3005	MOD OMEGA 25	25 TON	155 HP D	184,410	34.65		8.62	15.68	6.07	540
3010	MOD OMEGA 30	30 TON	155 HP D	189,834	35.41		8.88	16.15	6.07	550
3015	MOD OMEGA 35	35 TON	155 HP D	196,242	36.31		9.19	16.71	6.07	560
3020	MOD OMEGA 40	40 TON	202 HP D	262,692	49.03		12.23	22.08	7.91	760
3025	MOD OMEGA 45	45 TON	202 HP D	271,883	50.53		12.64	22.79	7.91	770
3030	MOD OMEGA 50	50 TON	202 HP D	281,980	51.94		13.11	23.66	7.91	780
3035	MOD OMEGA 65	65 TON	235 HP D	362,998	65.56		16.88	30.48	9.20	980

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

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

PETTIBONE														
3045	MOD 16 MK P SERIES	8 TON	118 HP D	102,601	20.75	4.81	8.78	4.62		286				
3050	MOD 20 MK P SERIES	10 TON	118 HP D	105,481	21.22	4.95	9.01	4.62		302				
3055	MOD 25 MK P SERIES	12.5 TON	118 HP D	109,510	21.79	5.14	9.36	4.62		458				
3060	MOD 36 MK P SERIES	18 TON	118 HP D	126,809	24.48	5.92	10.75	4.62		494				
3065	MOD 60-SC P SERIES	30 TON	176 HP D	211,610	40.07	9.86	17.82	6.89		592				
3070	MOD 80-SC P SERIES	40 TON	176 HP D	232,509	43.46	10.80	19.45	6.89		862				
3075	MOD 100SC	50 TON	188 HP D	286,934	51.72	13.36	24.17	7.36		1050				
CRANES, HYDRAULIC TRUCK MOUNTED														

(HP & FUEL LISTED EQUIP/CARRIER)														

BUCYRUS ERIE														
3085	30-XC	30 TON W/80' BOOM	130/210 HP D/D	212,736	34.53	40.17	9.62	16.92	6.39	18.19				
3090	60-XC	60 TON W/104' BOOM	197/238 HP D/D	367,402	57.08	66.18	16.65	29.33	9.18	31.53				

GROVE														
3100	TMS185	18 TON W/106' BOOM	172 HP D	202,883	36.18	43.24	9.74	18.16	6.73	19.96				
3105	TMS300	35 TON W/112' BOOM	203 HP D	245,294	40.61	47.65	11.09	19.50	7.95	20.96				
3110	TMS475	50 TON W/142' BOOM	213 HP D	305,219	48.40	56.51	13.81	24.32	8.34	26.14				
3115	TM875	80 TON W/146' BOOM	196/268 HP D/D	452,428	67.50	77.38	19.81	33.61	9.33	35.74				
3120	TM1150	115 TON W/172' BOOM	196/315 HP D/D	695,694	96.81	109.94	30.55	52.05	9.62	55.37				
3125	TM1400	140 TON W/173' BOOM	318/387 HP D/D	817,325	115.48	130.86	35.62	57.15	14.84	60.15				

LINK BELT (FMC)														
3135	HTC-814	14 TON W/80' BOOM	216 HP D	187,486	36.56	44.07	8.98	16.73	8.45	18.39				
3140	HTC-835	35 TON W/101' BOOM	216 HP D	212,546	36.99	43.68	9.63	16.97	8.45	18.24				
3145	HTC-1055	55 TON W/120' BOOM	238 HP D	313,623	50.64	59.24	14.20	25.01	9.32	26.88				

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	
	CRANES, HYDRAULIC TRUCK MTD (CONT'D) ***** (HP & FUEL LISTED EQUIP/CARRIER)									
	PETTIBONE									
3155	50TKLSPC 25 TON W/98' BOOM	210 HP D	200,236	37.88	45.51	9.61	17.91	8.22	19.68	10.81
3160	80TKLS 40 TON W/144' BOOM	244 HP D	254,607	43.72	51.56	11.51	20.25	9.55	21.77	12.57
3165	110 TK P 55 TON W/114' BOOM	238 HP D	275,463	45.98	54.03	12.47	21.94	9.32	23.58	12.26
3170	140 TK P 70 TON W/116' BOOM	322 HP D	346,325	58.29	68.19	15.19	25.83	12.60	27.47	16.58
	CRANES, TRUCK MOUNTED ***** (HP & FUEL LISTED EQUIP/CARRIER)									
	AMERICAN									
3180	5470 65 TON W/170' BOOM	115/238 HP D/D	421,954	60.17	68.99	19.08	33.54	5.97	36.05	7.64
3185	5530 75 TON W/170' BOOM	115/238 HP D/D	430,061	59.96	68.08	18.87	32.14	5.97	34.19	7.64
3190	7460 90 TON W/200' BOOM	213/230 HP D/D	528,946	76.53	87.42	23.25	39.65	9.76	42.17	12.63
3195	7530 125 TON W/220' BOOM	213/350 HP D/D	568,806	82.47	94.14	24.98	42.57	10.50	45.27	13.49
3200	8460 165 TON W/240' BOOM	268/350 HP D/D	814,778	111.79	126.10	35.57	57.20	12.65	60.19	16.33
3205	9530 220 TON W/260' BOOM	268/500 HP D/D	1,148,388	153.22	172.01	50.05	80.27	13.58	84.46	17.41
	LINK BELT (FMC)									
3215	HC108C 50 TON W/150' BOOM	110/238 HP D/D	368,049	53.36	61.27	16.63	29.19	5.78	31.36	7.38
3220	HC218A 100 TON W/220' BOOM	165/318 HP D/D	546,672	77.04	87.60	24.01	40.94	8.42	43.55	10.79
3225	HC238B 140 TON W/230' BOOM	171/318 HP D/D	641,026	86.65	97.46	27.96	44.89	8.66	47.24	11.10
	LORAIN									
3235	MC790 90 TON W/220' BOOM	210/270 HP D/D	501,027	73.47	84.05	22.00	37.49	9.89	39.87	12.76
3240	MC1400 140 TON W/230' BOOM	220/290 HP D/D	610,969	85.37	96.54	26.63	42.73	10.40	44.97	13.42
	P & H									
3250	325TC 25 TON W/110' BOOM	83/190 HP D/D	255,375	40.08	47.01	12.25	22.85	4.42	25.11	5.64
3255	430ATC 35 TON W/150' BOOM	86/210 HP D/D	284,816	41.15	47.25	12.90	22.73	4.66	24.44	5.94
3260	440TC 40 TON W/170' BOOM	90/228 HP D/D	319,424	45.89	52.63	14.46	25.45	4.93	27.36	6.28
										954

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. OWNER-SHIP	FUEL OWNER-SHIP	SEVERE COND. OWNER-SHIP	
	CRANES, TRUCK MOUNTED (CONT'D) ***** (HP & FUEL LISTED EQUIP/CARRIER)									
	P & H (CONT'D)									
3265	650ATC 50 TON W/150' BOOM 135/236 HP D/D	411,768	59.89	68.86	18.61	32.71	6.74	35.16	8.65	1222
3270	790BTC 90 TON W/200' BOOM 160/350 HP D/D	515,235	73.49	83.62	22.62	38.51	8.43	40.95	10.76	1606
3275	9150 150 TON W/270' BOOM 210/350 HP D/D	674,909	92.74	104.58	29.44	47.29	10.38	49.76	13.34	1805
3280	6250TC 300 TON W/320' BOOM 364/450 HP D/D	1,432,473	189.61	212.79	62.55	100.66	17.03	105.94	21.99	3928
	CRANES, TOWER *****									
	AMERICAN PECCO									
	MODEL SK135-2 FREE STANDING 60 HP E 7500# @ 132' RADIUS (L-2)									
3290	7-S16 TOWER SECTS=103 FT HIGH	281,158	52.88			13.31	21.38	7.34		740
	OPT. 14'9-1/4" S16 TOWER SECT									
3295	ADD TO BASIC CRANE FOR EA SECT	12,350	1.62			0.59	0.94	0.00		51
3300	TOP CLIMBING OPT. ADD TO BASIC	45,665	5.97			2.16	3.47	0.00		118
	MODEL SK200 FREE STANDING 105 HP E 10600# @ 143' RADIUS (L-2)									
3305	7-S16 TOWER SECTS=103 FT HIGH	353,410	70.60			16.72	26.86	12.85		883
	14'9-1/4" S16 TOWER SECTION									
3310	ADD TO BASIC CRANE FOR EA SECT	12,350	1.62			0.59	0.94	0.00		51
3315	TOP CLIMBING OPT. ADD TO BASIC	45,665	5.97			2.16	3.47	0.00		118
	MODEL SK400 FREE STANDING 105 HP E 18500# @ 162' RADIUS (L-2)									
3320	6-S35 TOWER SECTS=116 FT HIGH	432,454	80.95			20.47	32.88	12.85		1216
	OPT. 19'4-1/4" S35 TOWER SECT.									
3325	ADD TO BASIC CRANE FOR EA SECT	15,664	2.05			0.74	1.19	0.00		84
3330	TOP CLIMBING OPT. ADD TO BASIC	47,473	6.21			2.25	3.61	0.00		223

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	FUEL OWNERSHIP	FUEL OWNERSHIP	
			AVERAGE	SEVERE					
CRANES, TOWER (CONT'D)									
AMERICAN PECCO (CONT'D)									
	MODEL SK560 FREE STANDING 165 HP E 24500# @ 170' RADIUS (L-2)								
3335	6-S213 TOWER SECTS=116 FT HIGH	500,796	100.92		23.70	38.08	20.20		1547
	OPT. 19'4-1/4" S213 TOWER SECT								
3340	ADD TO BASIC CRANE FOR EA SECT	16,724	2.19		0.79	1.27	0.00		100
3345	TOP CLIMBING OPT. ADD TO BASIC	89,712	11.74		4.25	6.82	0.00		252
	MODEL SN355 FREE STANDING 165 HP E 12300# @ 165' RADIUS (L-2) WITH LUFFING BOOM								
3350	6-S35 TOWER SECTS=116 FT HIGH	529,967	104.73		25.08	40.29	20.20		2152
	OPT. 19'4-1/4" S35 TOWER SECT								
3355	ADD TO BASIC CRANE FOR EA SECT	15,664	2.05		0.74	1.19	0.00		84
3360	TOP CLIMBING OPT. ADD TO BASIC	93,925	12.29		4.45	7.14	0.00		159
DRILLS, BLAST HOLE, CRAWLER MTD									
GARDNER DENVER									
3370	AT3100B/PR123J 3.0" HOLE 12' FEED 600CFM A	72,208	17.06		4.07	8.38	0.00		91
3375	AT3100B/PR55 3.5" HOLE 12' FEED 750CFM A	68,340	16.18		3.85	7.93	0.00		93
3380	AT3100B/PR66 4.0" HOLE 12' FEED 900CFM A	75,066	17.70		4.23	8.71	0.00		95
3385	AT3700A/PR66 ANGLE DRILL 4.0" HOLE 12' FEED	89,363	20.96		5.03	10.36	0.00		146
3390	ATD5100/PR80H. ANGLE DRILL 4.5" HOLE 20' FEED	1200CFM A	101,039	23.64		5.69	11.72	0.00	200
INGERSOLL-RAND									
3400	ECM350/VL140 3.5" HOLE 12' FEED 750CFM A	80,510	18.92		4.53	9.34	0.00		129
3405	ECM350/VL671 4.0" HOLE 12' FEED 900CFM A	87,702	20.59		4.94	10.17	0.00		131
3410	ECM 450Y 3.0" HOLE 12' FEED 100 HP D	121,041	33.27		6.82	14.05	4.84		188

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT	
			CONDITION	STAND-BY	AVERAGE COND.		SEVERE COND.			
					AVERAGE	SEVERE	OWNER-SHIP	FUEL		
	DRILLS, BLAST HOLE, CRLR MTD (CONT'D)									
	SULLIVAN									
3420	MAVRICK/VCR350 2.5" HOLE 12' FEED 450CFM A	39,772	9.46		2.24	4.62	0.00		60	
3425	RAM STD/VCR260 4.0" HOLE 12' FEED 800CFM A	70,275	16.62		3.96	8.15	0.00		100	
3430	RAM EXT/VCR260 4.0" HOLE 12' FEED 800CFM A	82,899	19.47		4.67	9.62	0.00		144	
3435	MUSTANG VCR280 5.0" HOLE 20' FEED1200CFM A	102,517	23.99		5.77	11.89	0.00		184	
3440	STALLION JH-6 5.5" HOLE 20' FEED 165 HP D	219,036	59.24		12.33	25.41	7.99		300	
	DRILLS, CORE, AIR, COLUMN MOUNTED									
3450	LONGYEAR 24 WOLVERINE AX 700' 450CFM A	17,966	4.35		1.01	2.08	0.00		12	
3455	LONGYEAR 65D EX 600' 400CFM A	11,499	2.91		0.65	1.34	0.00		3	
3460	65D ROD PULLER 21" STROKE 400CFM A	1,716	0.64		0.10	0.20	0.00		1	
	DRILLS, CORE, SKID MOUNTED									
	ACKER									
3470	TEREDO MARK-II NX 1000' MAX 44 HP D	30,454	9.50		1.72	3.53	2.13		40	
3475	ACE MODEL C NX 725' MAX 20 HP D	20,851	5.90		1.18	2.42	0.97		45	
	LONGYEAR									
3485	MOD 24 STD AX 675' MAX 12 HP G	17,159	5.03		0.96	1.99	1.01		17	
3490	MOD 34 NX 1000' MAX 31 HP G	26,206	8.93		1.47	3.04	2.51		38	
3495	MOD 34 NX 1000' MAX 40 HP D	31,182	9.43		1.76	3.62	1.94		39	
3500	MOD 38 NX 1800' MAX 54 HP D	35,841	11.30		2.01	4.15	2.51		41	
3505	MOD 44 NX 2500' MAX 60 HP D	43,065	13.30		2.43	5.00	2.90		56	
	SPRAGUE AND HENWOOD									
3515	MOD 37-H NX 400' MAX 18 HP G	18,096	5.84		1.02	2.10	1.52		18	
3520	MOD 40-CL NX 1050' MAX 49 HP D	28,014	9.25		1.58	3.25	2.37		27	

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

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

INGERSOLL-RAND														
3530	MOD DM-25 6 3/4" DRILLMASTER CRWL. MOUNTED	210 HP D	249,302	54.23		12.13	22.05	10.17		500				
3535	MOD T4-BH 7-7/8" DRILLMASTER TRK. MOUNTED	304 HP D	327,746	74.22		15.88	28.73	14.72		550				
3540	MOD TH-60 WATER WELL DRILL TRK. MOUNTED	435 HP D	304,180	78.86		14.75	26.72	21.06		460				
ROBBINS														
3550	RRT 35 TK MTD 6-1/4" TO 8-0" 335/225 HP D/D	335,267	79.29			16.25	29.41	17.61		600				
3555	RRT 50 TK MTD 6-3/4" TO 9-0"	335 HP D	487,224	102.41		23.60	42.70	16.22		860				
3560	RRT 60 TK MTD 6-3/4" TO 9-7/8"	350 HP D	551,109	113.71		26.71	48.35	16.94		960				
3565	RR10S MTD ON D9H 6-3/4" - 9-0"	410 HP D	401,951	92.20		19.55	35.55	19.85		1160				
3570	RR10HD ON D9H 6-3/4" - 10-5/8"	410 HP D	466,417	102.60		22.69	41.25	19.85		1340				
3575	RR10XHD ON 41B 9-7/8" - 12-1/4"	524 HP D	644,877	116.85		28.90	48.15	25.37		1830				
3580	RR12E CRLR MTD 9-0" TO 12-1" 725/450 HP E/E	1,184,926	306.96			53.09	88.46	124.10		2605				
FORK LIFTS														

CATERPILLAR														
LC = LOAD CENTER														
3600	M20 ELECT 2000# @ 24" LC	18 HP E	17,048	6.65		0.95	1.94	2.20		54				
3605	M25 ELECT 2500# @ 24" LC	18 HP E	17,137	6.67		0.96	1.96	2.20		54				
3610	MC30 ELECT 3000# @ 24" LC	18 HP E	18,174	6.87		1.01	2.06	2.20		85				
3615	M40B ELECT 4000# @ 24" LC	32 HP E	24,971	10.74		1.39	2.84	3.92		95				
3620	M50B ELECT 5000# @ 24" LC	32 HP E	25,512	10.85		1.43	2.91	3.92		102				
3625	MC60B ELECT 6000# @ 24" LC	47 HP E	28,154	14.04		1.58	3.21	5.75		123				
3630	M70B ELECT 7000# @ 24" LC	53 HP E	34,772	16.47		1.94	3.96	6.49		134				
3635	M80B ELECT 8000# @ 24" LC	53 HP E	36,391	16.79		2.04	4.15	6.49		142				
3640	M100B ELECT 10000# @ 24" LC	53 HP E	38,477	17.20		2.15	4.41	6.49		160				
3645	V30D GAS 3000# @ 24" LC	37 HP G	16,276	6.44		0.91	1.87	2.54		37				

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

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

CATERPILLAR (CONT'D)														
3650	V40C GAS 4000# @ 24" LC	48 HP G	21,609	8.47	1.20	2.44	3.29		41					
3655	V50C GAS 5000# @ 24" LC	48 HP G	22,085	8.60	1.22	2.46	3.29		45					
3660	V60E GAS 6000# @ 24" LC	63 HP G	30,475	11.55	1.70	3.45	4.32		52					
3665	V70E GAS 7000# @ 24" LC	63 HP G	30,840	11.63	1.72	3.50	4.32		56					
3670	V80E GAS 8000# @ 24" LC	63 HP G	32,078	11.87	1.79	3.64	4.32		59					
3675	V110 DIESEL 11000# @ 24" LC	66 HP D	46,138	12.56	2.57	5.22	2.58		82					
3680	V150 DIESEL 15000# @ 24" LC	70 HP D	49,707	13.49	2.77	5.64	2.74		92					
3685	V180B DIESEL 18000# @ 24" LC	125 HP D	65,793	19.46	3.64	7.37	4.89		114					
3690	V200B DIESEL 20000# @ 24" LC	125 HP D	71,672	20.65	3.97	8.05	4.89		124					
3695	V250B DIESEL 25000# @ 24" LC	125 HP D	73,779	21.08	4.09	8.29	4.89		154					
3700	V300B DIESEL 30000# @ 24" LC	125 HP D	82,755	22.93	4.58	9.26	4.89		165					
3705	R40 DIESEL 4000# @ 24" LC	68 HP D	29,202	9.25	1.62	3.28	2.66		107					
3710	R50 DIESEL 5000# @ 24" LC	68 HP D	29,929	9.39	1.66	3.36	2.66		112					
3715	R60 DIESEL 6000# @ 24" LC	68 HP D	36,150	10.65	2.01	4.08	2.66		128					
3720	R80 DIESEL 8000# @ 24" LC	68 HP D	37,574	10.97	2.07	4.15	2.66		138					
HYSTER - CHALLENGER														
3730	H30XL 3000# @ 24" LC	63 HP G	16,915	8.81	0.94	1.89	4.32		58					
3735	H60XL 6000# @ 24" LC	80 HP G	24,445	11.77	1.36	2.75	5.49		91					
3740	H110F 11000# @ 24" LC	116 HP G	48,017	19.61	2.68	5.46	7.96		163					
3745	H150H 15000# @ 24" LC	127 HP G	65,673	24.21	3.64	7.36	8.72		234					
3750	H200RS20000# @ 24" LC	PS 127 HP G	76,167	26.33	4.23	8.57	8.72		256					
3755	H250H 25000# @ 24" LC	PS 127 HP G	76,668	26.45	4.25	8.59	8.72		295					
3760	H300B 30000# @ 24" LC	PS 127 HP G	82,403	27.59	4.58	9.30	8.72		360					
3765	H460CS46000# @ 36" LC	PS 190 HP G	168,107	50.39	9.34	18.95	13.04		590					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP					
GENERATOR SETS, ELECTRIC *****													
CATERPILLAR T = TURBOCHARGED TA = TURBOCHARGED AFTER COOLED													
SKID MOUNTED													
3780	MOD 3304B-T	240/480V 100 KW	148 HP D	17,159	11.22	14.29	1.07	2.43	5.79	2.69	7.62	37	
3785	MOD 3306B-T	240/480V 125 KW	187 HP D	22,469	14.36	18.29	1.40	3.17	7.32	3.53	9.63	46	
3790	MOD 3306B-TA	240/480V 150 KW	220 HP D	24,218	16.39	20.89	1.52	3.43	8.61	3.80	11.33	48	
3795	MOD 3406B-T	240/480V 200 KW	290 HP D	26,044	20.20	25.86	1.63	3.68	11.35	4.09	14.93	57	
3800	MOD 3406B-TA	240/480V 250 KW	370 HP D	29,750	24.96	32.02	1.85	4.20	14.48	4.67	19.05	59	
3805	MOD 3408B-T	240/480V 255 KW	370 HP D	35,385	26.29	33.61	2.21	5.00	14.48	5.56	19.05	77	
3810	MOD 3408B-TA	240/480V 310 KW	450 HP D	39,426	31.12	39.86	2.46	5.57	17.61	6.19	23.17	81	
3815	MOD 3412-T	240/480V 355 KW	500 HP D	47,609	35.48	45.38	2.97	6.73	19.57	7.48	25.75	91	
3820	MOD 3412-TA	240/480V 455 KW	650 HP D	64,457	46.72	59.70	4.03	9.11	25.44	10.12	33.47	102	
3825	MOD 3508	240/480V 600 KW	845 HP D	85,952	61.25	78.23	5.37	12.16	33.07	13.50	43.52	140	
3830	MOD 3512	240/480V 900 KW	1250 HP D	117,014	88.21	112.87	7.31	16.55	48.92	18.38	64.37	202	
3835	MOD 3516	480V 1100 KW	1450 HP D	153,217	106.44	135.85	9.57	21.67	56.75	24.06	74.67	256	
KOHLER													
3845	2.25MBM25	PORTABLE 2.25 KW	5 HP G	839	0.62	0.80	0.05	0.12	0.34	0.13	0.45	1	
3850	3.5MM65	PORTABLE 3.50 KW	8 HP G	1,325	0.99	1.27	0.09	0.19	0.55	0.21	0.72	2	
3855	5MM65	PORTABLE 5.00 KW	12 HP G	1,715	1.42	1.81	0.11	0.24	0.82	0.27	1.07	2	
ONAN													
SKID MOUNTED													
3870		120/240V 2.5 KW	6 HP G	1,516	0.86	1.10	0.09	0.21	0.41	0.24	0.54	3	
3875		120/240V 6.5 KW	14 HP G	3,400	1.99	2.51	0.21	0.48	0.96	0.53	1.25	3	
3880		120/240V 10.0 KW	20 HP G	3,722	2.57	3.28	0.23	0.52	1.37	0.59	1.79	4	
3885		120/240V 3.0 KW	6 HP D	3,940	1.21	1.48	0.24	0.55	0.23	0.61	0.31	4	
3890		120/240V 6.0 KW	12 HP D	5,227	1.81	2.25	0.33	0.74	0.47	0.82	0.62	5	
3895		120/240V 12.0 KW	22 HP D	7,521	2.84	3.52	0.47	1.06	0.86	1.18	1.13	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.	OWNER-SHIP	FUEL				
GENERATOR SETS, ELECTRIC (CONT'D)												
ONAN (CONT'D)												
3900	120/240V 15 KW	27 HP D	7,776	3.14	3.92	0.49	1.10	1.06	1.23	1.39	14	
3905	120/240V 30 KW	63 HP D	11,518	5.77	7.27	0.72	1.63	2.47	1.81	3.24	19	
3910	120/240V 45 KW	87 HP D	15,228	7.81	9.86	0.95	2.15	3.41	2.39	4.48	25	
3915	120/240V 60 KW	102 HP D	17,475	9.06	11.44	1.09	2.47	3.99	2.74	5.25	26	
3920	120/240V 75 KW	162 HP D	20,786	12.75	16.21	1.30	2.94	6.34	3.26	8.34	30	
3925	120/240V 90 KW	162 HP D	21,764	12.99	16.49	1.36	3.08	6.34	3.42	8.34	30	
3930	120/240V 125 KW	210 HP D	25,335	16.16	20.57	1.59	3.59	8.22	3.98	10.81	50	
3935	120/240V 150 KW	276 HP D	30,079	20.48	26.11	1.88	4.26	10.80	4.72	14.21	65	
OVERLOWE												
3945	KP2250R PORTABLE	2.25 KW	5 HP G	939	0.64	0.82	0.06	0.13	0.34	0.14	0.45	1
3950	KP3000R PORTABLE	3.00 KW	7 HP G	1,033	0.85	1.07	0.07	0.15	0.48	0.16	0.63	2
3955	KP3750BIC PORTABLE	3.75 KW	8 HP G	1,442	1.02	1.29	0.09	0.20	0.55	0.22	0.72	2
3960	KP5000BIC PORTABLE	5.00 KW	10 HP G	1,819	1.28	1.62	0.12	0.26	0.69	0.29	0.89	2
3965	KP6500BICB PORTABLE	6.50 KW	16 HP G	1,918	1.81	2.31	0.12	0.27	1.10	0.30	1.43	3
3970	KP7500BICB PORTABLE	7.50 KW	16 HP G	1,817	1.79	2.29	0.12	0.26	1.10	0.29	1.43	3
GRADERS, MOTOR												
CATERPILLAR												
3985	MOD 120-G POWER SHIFT ARTIC	125 HP D	108,501	23.73	29.80	5.68	10.55	4.51	11.90	5.92	272	
3990	MOD 130-G POWER SHIFT ARTIC	135 HP D	124,350	26.77	33.59	6.51	12.12	4.87	13.67	6.40	293	
3995	MOD 12-G POWER SHIFT ARTIC	135 HP D	133,377	28.24	35.42	6.98	12.99	4.87	14.66	6.40	316	
4000	MOD 140-G POWER SHIFT ARTIC	150 HP D	135,695	29.39	36.91	7.09	13.19	5.41	14.89	7.11	318	
4005	MOD 14-G POWER SHIFT ARTIC	180 HP D	190,251	39.95	50.13	9.91	18.32	6.49	20.66	8.53	441	
4010	MOD 16-G POWER SHIFT ARTIC	250 HP D	273,326	57.04	71.57	14.21	26.25	9.01	29.60	11.84	581	

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL				
GRADERS, MOTOR (CONT'D)												

CHAMPION												
4020	MOD 710A	ARTICULATED	135 HP D	104,399	23.59	29.70	5.44	10.10	4.87	11.40	6.40	286
4025	MOD 720A	ARTICULATED	152 HP D	124,011	27.61	34.73	6.47	12.01	5.48	13.55	7.20	335
4030	MOD 730A	ARTICULATED	180 HP D	127,663	29.56	37.24	6.66	12.37	6.49	13.96	8.53	340
4035	MOD 740A	ARTICULATED	210 HP D	140,045	33.00	41.60	7.32	13.60	7.57	15.34	9.95	345
4040	MOD 710	NON-ARTICULATED	135 HP D	98,273	22.61	28.47	5.12	9.50	4.87	10.71	6.40	280
4045	MOD 720	NON-ARTICULATED	152 HP D	108,155	25.05	31.59	5.63	10.44	5.48	11.79	7.20	315
4050	MOD 730	NON-ARTICULATED	180 HP D	116,766	27.80	35.07	6.09	11.29	6.49	12.74	8.53	330
4055	MOD 740	NON-ARTICULATED	210 HP D	132,160	31.73	40.03	6.90	12.82	7.57	14.46	9.95	345
4060	MOD 760	NON-ARTICULATED	210 HP D	151,016	35.07	44.22	7.83	14.44	7.57	16.27	9.95	390
FIAT-ALLIS												
4070	MOD-65B	DIRECT DRIVE	68 HP D	58,458	12.82	16.11	3.06	5.68	2.45	6.41	3.22	135
4075	MOD-FG75	POWER SHIFT	130 HP D	90,892	21.15	26.65	4.74	8.79	4.69	9.91	6.16	300
4080	MOD-FG85	POWER SHIFT	145 HP D	97,701	23.03	29.03	5.09	9.43	5.23	10.64	6.87	310
4085	MOD-FG95	POWER SHIFT	160 HP D	104,540	24.98	31.52	5.43	10.01	5.77	11.28	7.58	330
GALION												
4095	MOD 503-L	CONSTANT MESH	68 HP G	48,898	13.13	16.56	2.56	4.76	4.31	5.38	5.59	115
4100	MOD T-500C	POWER SHIFT	145 HP D	103,822	23.95	30.16	5.43	10.09	5.23	11.38	6.87	231
4105	MOD A-550	POWER SHIFT	175 HP D	138,728	31.08	39.09	7.25	13.49	6.31	15.22	8.29	320
4110	MOD A-600	POWER SHIFT	197 HP D	143,806	32.96	41.48	7.52	13.99	7.10	15.78	9.33	323
HOISTS												

BEEBE - AIR TUGGERS												
4120	2000P110-24	1.0 T 225 CFM RQD		6,167	1.42		0.34	0.71	0.00		5	
4125	5000P120-24	2.5 T 500 CFM RQD		9,946	2.32		0.56	1.15	0.00		15	
4130	10000P 50-24	5.0 T 500 CFM RQD		12,057	2.89		0.68	1.40	0.00		22	
4135	20000P 50-40	10.0 T 850 CFM RQD		31,204	7.10		1.76	3.61	0.00		55	

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP				
HOISTS (CONT'D)													
SKAGIT													
4145	BU-18 DOUBLE DRUM W/5/8" CABLE	100 HP D	73,073	20.52			4.12	8.46	3.91	85			
4150	G-70 DOUBLE DRUM W/7/8" CABLE	100 HP D	98,866	26.05			5.57	11.45	3.91	126			
4155	RB-80 DOUBLE DRUM W/1-1/8" CABLE	130 HP D	152,053	38.91			8.57	17.61	5.09	240			
4160	RB-90WDOUBLE DRUM W/1-3/8" CABLE	150 HP D	168,935	43.49			9.51	19.55	5.87	300			
HYDRAULIC EXCAVATOR, CRAWLER MOUNTED													
T/B = TELESCOPING BOOM													
B/H = BACKHOE													
BADGER (HOPTO)													
4180	MOD 211	1.25 CY B/H	160 HP D	167,100	42.76	55.08	9.41	19.34	5.77	22.78			
4185	MOD 311	1.88 CY B/H	235 HP D	238,724	61.36	79.06	13.44	27.63	8.47	32.55			
4190	MOD 900B	2.00 CY B/H	308 HP D	288,483	75.19	96.89	16.25	33.39	11.10	39.33			
4195	MOD 1900	5.00 CY B/H	616 HP D	601,788	144.20	179.54	31.59	61.40	22.21	69.66			
BUCKRUS ERIE													
4205	MOD 300-H	1.00 CY B/H	176 HP D	186,096	53.23	72.48	11.46	24.38	6.34	30.35			
4210	MOD 325-H	1.75 CY B/H	205 HP D	255,966	63.77	82.09	14.41	29.63	7.39	34.90			
4215	MOD 350-H	2.50 CY B/H	248 HP D	322,628	79.92	102.88	18.16	37.34	8.94	43.98			
4220	MOD 400-H	4.25 CY B/H	392 HP D	540,010	122.33	151.81	28.35	55.10	14.13	62.50			
CASE													
4230	MOD 880C "E" BOOM .63 CY	B/H	115 HP D	110,175	32.07	43.62	6.79	14.44	4.15	17.97			
4235	MOD 980B	1.00 CY B/H	165 HP D	135,376	40.56	55.15	8.33	17.73	5.95	22.08			
4240	MOD 1280	1.25 CY B/H	200 HP D	157,095	42.34	54.60	8.84	18.18	7.21	21.41			
CATERPILLAR													
4250	MOD 215B	.75 CY B/H	105 HP D	121,063	34.16	46.53	7.45	15.86	3.79	19.75			
4255	MOD 225	1.00 CY B/H	135 HP D	162,444	45.54	62.05	10.00	21.28	4.87	26.49			
4260	MOD 235	1.50 CY B/H	195 HP D	296,963	72.14	92.81	16.73	34.38	7.03	40.49			
										9.24			
										891			

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. OWNER-SHIP	SEVERE COND. OWNER-SHIP	FUEL				
HYDRAULIC EXCAVATOR,CRLR MTD (CONT'D)													
***** T/B = TELESCOPING BOOM B/H = BACKHOE													
CATERPILLAR (CONT'D)													
4265	MOD 245	2.50 CY B/H 325 HP D	461,744	113.10	145.54	26.00	53.45	11.72	62.95	15.40	1385		
GRADALL													
4280	MOD G-660	.63 CY T/B 115 HP D	162,250	44.51	60.68	10.00	21.26	4.15	26.46	5.45	450		
4285	MOD G-660C	.88 CY T/B 145 HP D	169,860	47.82	65.13	10.46	22.26	5.23	27.70	6.87	452		
4290	MOD G-880C	1.00 CY T/B 145 HP D	202,773	55.69	75.92	12.49	26.57	5.23	33.07	6.87	536		
4295	MOD G-1000	1.25 CY T/B 272 HP D	273,048	70.33	90.60	15.37	31.60	9.81	37.22	12.89	787		
INSLEY													
4310	MOD H1000C	1.25 CY B/H 180 HP D	154,884	41.01	52.86	8.72	17.93	6.49	21.11	8.53	517		
4315	MOD H2500C	2.25 CY B/H 290 HP D	278,061	72.18	93.01	15.66	32.19	10.45	37.91	13.74	931		
4320	MOD H3500C	3.50 CY B/H 390 HP D	390,749	93.19	116.01	20.51	39.87	14.06	45.23	18.48	1276		
JOHN DEERE													
4330	MOD 490	.50 CY B/H 75 HP D	76,617	22.04	30.01	4.72	10.04	2.70	12.50	3.55	265		
4335	MOD 690 C	.875 CY B/H 125 HP D	108,925	32.26	43.86	6.71	14.28	4.51	17.77	5.92	400		
4340	MOD 790	1.00 CY B/H 155 HP D	140,094	41.20	56.02	8.63	18.36	5.59	22.84	7.34	510		
4345	MOD 890 A	1.875 CY B/H 210 HP D	230,128	58.44	75.26	12.96	26.64	7.57	31.37	9.95	880		
4350	MOD 990	2.125 CY B/H 260 HP D	259,330	66.86	86.14	14.60	30.01	9.37	35.35	12.32	912		
KOEHRING													
4360	MOD 166 BANTAM	.88 CY B/H 108 HP D	122,252	34.59	47.12	7.53	16.02	3.89	19.94	5.12	374		
4365	MOD 266 BANTAM	1.13 CY B/H 143 HP D	162,030	40.94	52.73	9.12	18.75	5.16	22.09	6.78	514		
4370	MOD 366 BANTAM	1.25 CY B/H 210 HP D	194,146	50.72	65.36	10.93	22.47	7.57	26.46	9.95	612		
4375	MOD 566	1.50 CY B/H 240 HP D	282,580	70.99	91.41	15.91	32.71	8.65	38.53	11.37	834		
4380	MOD 666E	2.00 CY B/H 307 HP D	351,923	88.76	114.30	19.81	40.73	11.07	47.98	14.55	1075		
4385	MOD 866E	3.25 CY B/H 332 HP D	452,201	102.60	127.34	23.74	46.14	11.97	52.34	15.73	1306		
4390	MOD 1066E	4.00 CY B/H 420 HP D	562,027	127.83	158.69	29.50	57.34	15.14	65.05	19.90	1640		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
HYDRAULIC EXCAVATOR,CBLR MTD (CONT'D)													
***** T/B = TELESCOPING BOOM B/H = BACKHOE													
KOEHRING (CONT'D)													
4395	MOD 1166E	5.00 CY B/H 464 HP D	626,226	142.27	176.59	32.87	63.89	16.73	72.48	21.98	1890		
4400	MOD 1266	5.50 CY B/H 664 HP D	910,924	204.21	247.16	45.00	86.20	23.94	95.72	31.46	2600		
4405	MOD 1466	9.00 CY B/H 832 HP D	1,063,130	240.88	291.80	52.51	100.60	29.99	111.71	39.42	2900		
KOMATSU													
4415	MOD PC 120-2	.65 CY B/H 90 HP D	77,395	22.98	31.24	4.77	10.15	3.24	12.62	4.26	256		
4420	MOD PC 200 LC-2	1.05 CY B/H 105 HP D	118,939	30.05	38.68	6.70	13.77	3.79	16.21	4.97	448		
4425	MOD PC 220 LC-2	1.31 CY B/H 136 HP D	152,622	38.62	49.73	8.60	17.67	4.90	20.81	6.44	514		
4430	MOD PC 300 LC-2	1.73 CY B/H 180 HP D	187,879	48.09	61.94	10.58	21.75	6.49	25.61	8.53	690		
4435	MOD PC 650-1	3.00 CY B/H 410 HP D	447,378	113.69	146.43	25.19	51.78	14.78	60.99	19.43	1433		
UNIT													
4445	MOD H202CT SER II	1.25 CY B/H 152 HP D	152,511	39.29	50.61	8.58	17.65	5.48	20.79	7.20	475		
4450	MOD H342	1.63 CY B/H 228 HP D	245,964	62.61	80.64	13.84	28.46	8.22	33.53	10.80	723		
4455	MOD H471	1.75 CY B/H 304 HP D	304,988	78.55	101.21	17.17	35.30	10.96	41.58	14.40	972		
HYDRAULIC EXCAVATOR, TRUCK MOUNTED													
***** (HP & FUEL LISTED EQUIP/CARRIER) T/B = TELESCOPING BOOM B/H = BACKHOE													
GRADALL													
4465	MOD G-660C	.88 CY T/B 145/210 HP D/G	187,898	35.79	42.99	9.02	16.81	7.86	18.46	10.31	422		
4470	MOD G-880C	1.00 CY T/B 145/210 HP D/D	227,334	39.87	47.30	10.91	20.32	6.97	22.32	8.98	535		
4475	MOD G-1000	1.25 CY T/B 272/312 HP D/D	296,623	52.65	61.97	13.43	23.65	12.57	25.42	16.26	726		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION		STAND-BY	AVERAGE COND. OWNER-SHIP	SEVERE COND. OWNER-SHIP				
			AVERAGE	SEVERE							
LAND CLEARING EQUIPMENT ***** (ADD TO TRACTOR)											
4485	FLECO LAND CLEARING RAKE FOR 123/235	D/G	19,447	4.23	5.38	1.10	2.26	0.00	2.66	0.00	
4490	FLECO LAND CLEARING RAKE FOR 160/210	D/D	25,645	5.56	7.09	1.44	2.98	0.00	3.51	0.00	
4495	FLECO LAND CLEARING RAKE FOR 272/312	D/D	37,975	8.21	10.48	2.14	4.41	0.00	5.20	0.00	
4500	FLECO CLAMP RAKE FOR CAT 973 (ADD TO 977 LOADER)		19,440	4.36	5.51	1.10	2.26	0.00	2.66	0.00	
LIGHTING SETS, TRAILER MOUNTED *****											
ALLMAND METALLIC VAPOR											
4510	MAXI-LITE III 4/1000W	15 HP D	14,244	6.06		0.87	1.82	0.77		29	
OVER-LOWE METALLIC VAPOR											
4520	TM 352 2/1000W	3 KW	6 HP D	11,235	4.39		0.68	1.42	0.31		
4525	TM 354 4/1000W	6 KW	12 HP D	14,844	6.09		0.90	1.90	0.62		
4530	TM 356 6/1000W	8 KW	15 HP D	17,455	7.23		1.06	2.24	0.77		
LOADERS, BELT *****											
KOLMAN											
4540	101XHD 24"X50' 355 T/HR	28 HP D	31,244	8.97	11.78	1.72	3.32	1.10	3.88	1.44	
OPTIONAL EQUIPMENT SELECT AS NEEDED											
4550	PLATE FEEDER DOZER TRAP MODEL 45		5,840	1.30	1.66	0.33	0.65	0.00	0.76	0.00	
4555	BELT FEEDER DOZER TRAP MODEL 65		7,100	1.59	2.02	0.40	0.80	0.00	0.93	0.00	
4560	WING WALLS STATIONARY		1,353	0.30	0.39	0.08	0.15	0.00	0.18	0.00	
4565	TUNNEL EXTENSION W/WING WALLS		6,810	1.52	1.94	0.39	0.76	0.00	0.89	0.00	
4570	SINGLE DECK SCREEN SB-70 7'X42		5,554	1.24	1.58	0.31	0.62	0.00	0.72	0.00	
4575	DOUBLE DECK SCREEN DC-70-42 7'X42		6,817	1.53	1.94	0.39	0.77	0.00	0.89	0.00	
4580	TRIPLE DECK SCREEN TC-70-42 7'X42		9,842	2.19	2.81	0.55	1.10	0.00	1.29	0.00	
4585	XHD CONVEYOR JACKLEG		951	0.22	0.28	0.06	0.11	0.00	0.13	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	AVERAGE COND.	SEVERE COND.						
					AVERAGE	SEVERE	OWNER-SHIP	AVERAGE COND.	SEVERE COND.						
LOADERS, BELT (CONT'D)															
KOLMAN (CONT'D)															
4590	101XHD 30"X50' 615 T/HR	42 HP D	33,909	10.40	13.72	1.86	3.59	1.64	4.19	2.16	135				
OPTIONAL EQUIPMENT SELECT AS NEEDED															
4600	PLATE FEEDER DOZER TRAP MODEL 45		6,901	1.54	1.97	0.39	0.77	0.00	0.91	0.00	42				
4605	BELT FEEDER DOZER TRAP MODEL 65		7,543	1.68	2.15	0.42	0.84	0.00	0.99	0.00	40				
4610	WING WALLS STATIONARY		1,353	0.30	0.39	0.08	0.15	0.00	0.18	0.00	9				
4615	TUNNEL EXTENSION W/WING WALLS		6,810	1.52	1.94	0.39	0.76	0.00	0.89	0.00	61				
4620	SINGLE DECK SCREEN SB-80 8"X48		6,350	1.41	1.81	0.36	0.71	0.00	0.83	0.00	23				
4625	DOUBLE DECK SCREEN DC-80-48 8"X48		8,849	1.97	2.52	0.50	0.99	0.00	1.16	0.00	35				
4630	TRIPLE DECK SCREEN TC-80-48 8"X48		11,060	2.47	3.15	0.63	1.24	0.00	1.45	0.00	43				
4635	XHD CONVEYOR JACKLEG		951	0.22	0.28	0.06	0.11	0.00	0.13	0.00	9				
4640	101XHD 36"X50' 910 T/HR	56 HP D	39,037	12.48	16.52	2.13	4.09	2.19	4.78	2.88	160				
OPTIONAL EQUIPMENT SELECT AS NEEDED															
4650	PLATE FEEDER DOZER TRAP MODEL 45		7,310	1.63	2.09	0.42	0.82	0.00	0.96	0.00	45				
4655	BELT FEEDER DOZER TRAP MODEL 65		8,064	1.79	2.30	0.45	0.90	0.00	1.06	0.00	42				
4660	WING WALLS STATIONARY		1,353	0.30	0.39	0.08	0.15	0.00	0.18	0.00	9				
4665	TUNNEL EXTENSION W/WING WALLS		6,810	1.52	1.94	0.39	0.76	0.00	0.89	0.00	61				
4670	SINGLE DECK SCREEN SB-90 9"X54		7,375	1.65	2.10	0.42	0.83	0.00	0.96	0.00	23				
4675	DOUBLE DECK SCREEN DC-90-54 9"X54		10,594	2.37	3.02	0.60	1.19	0.00	1.39	0.00	43				
4680	TRIPLE DECK SCREEN TC-90-54 9"X54		13,583	3.03	3.87	0.76	1.52	0.00	1.78	0.00	54				
4685	XHD CONVEYOR JACKLEG		951	0.22	0.28	0.06	0.11	0.00	0.13	0.00	9				
4690	101XHD 42"X50' 1260 T/HR	84 HP D	50,149	16.78	22.23	2.73	5.25	3.29	6.12	4.33	180				
OPTIONAL EQUIPMENT SELECT AS NEEDED															
4700	PLATE FEEDER DOZER TRAP MODEL 45		8,501	1.89	2.43	0.48	0.95	0.00	1.12	0.00	48				
4705	BELT FEEDER DOZER TRAP MODEL 65		10,921	2.43	3.11	0.61	1.22	0.00	1.43	0.00	45				
4710	WING WALLS STATIONARY		1,353	0.30	0.39	0.08	0.15	0.00	0.18	0.00	9				
4715	TUNNEL EXTENSION W/WING WALLS		6,810	1.52	1.94	0.39	0.76	0.00	0.89	0.00	61				
4720	SINGLE DECK SCREEN SB-100 60"X10'		9,535	2.13	2.72	0.54	1.07	0.00	1.25	0.00	37				

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

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

KOLMAN (CONT'D)													
4725	DOUBLE DECK SCREEN DC-100 60"X10"	12,292	2.73	3.50	0.69	1.37	0.00	1.61	0.00	55			
4730	TRIPLE DECK SCREEN TC-100 60"X10"	18,812	4.19	5.36	1.06	2.10	0.00	2.46	0.00	68			
4735	XHD CONVEYOR JACKLEG	951	0.22	0.28	0.06	0.11	0.00	0.13	0.00	9			
4740	101XHD 48"X50' 1700 T/HR	128 HP D	87,281	26.83	34.97	4.83	9.43	5.01	11.03	6.59			
OPTIONAL EQUIPMENT SELECT AS NEEDED													
4750	PLATE FEEDER DOZER TRAP MODEL 45	12,153	2.71	3.47	0.69	1.36	0.00	1.60	0.00	51			
4755	WING WALLS STATIONARY	1,353	0.30	0.39	0.08	0.15	0.00	0.18	0.00	9			
4760	TUNNEL EXTENSION W/WING WALLS	7,230	1.61	2.06	0.41	0.81	0.00	0.95	0.00	66			
4765	SINGLE DECK SCREEN SB-120 60"X12'	11,352	2.53	3.24	0.64	1.27	0.00	1.49	0.00	53			
4770	DOUBLE DECK SCREEN DC-120 60"X12'	16,659	3.71	4.75	0.94	1.86	0.00	2.18	0.00	77			
4775	TRIPLE DECK SCREEN TC-120 60"X12'	23,212	5.18	6.62	1.31	2.60	0.00	3.04	0.00	80			
4780	XHD CONVEYOR JACKLEG	951	0.22	0.28	0.06	0.11	0.00	0.13	0.00	9			
4785	303 48"X50' 2000 CY/HR	125 HP D	151,288	44.03	58.37	8.26	15.91	4.89	18.56	6.44			
4790	303 48"X60' 2000 CY/HR	185 HP D	168,104	50.87	67.30	9.20	17.77	7.24	20.75	9.53			
4795	303 60"X50' 3600 CY/HR	185 HP D	173,669	53.83	71.89	9.43	18.06	7.24	21.06	9.53			
4800	303 60"X60' 3600 CY/HR	290 HP D	199,450	65.97	88.12	10.82	20.72	11.35	24.17	14.93			
4805	404 48"X50' 2000 CY/HR	185 HP D	186,390	54.86	72.34	10.23	19.83	7.24	23.16	9.53			
4810	404 48"X60' 2000 CY/HR	185 HP D	196,942	57.30	75.52	10.82	21.00	7.24	24.53	9.53			
4815	404 60"X50' 3600 CY/HR	290 HP D	223,245	70.13	92.93	12.22	23.60	11.35	27.56	14.93			
4820	404 60"X60' 3600 CY/HR	290 HP D	246,598	76.48	101.57	13.48	26.00	11.35	30.35	14.93			
OPTIONAL EQUIPMENT SELECT AS NEEDED													
4830	SINGLE DECK SCREEN SB-120 72"X12'	14,676	3.27	4.18	0.82	1.64	0.00	1.92	0.00	58			
4835	DOUBLE DECK SCREEN DC-120 72"X12'	19,394	4.32	5.54	1.09	2.17	0.00	2.55	0.00	85			
4840	TRIPLE DECK SCREEN TC-120 72"X12'	22,115	4.92	6.31	1.24	2.47	0.00	2.90	0.00	90			
4845	SINGLE DECK VIBRATING GRIZZLE 72"W	22,182	4.94	6.32	1.25	2.48	0.00	2.90	0.00	89			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	LOADERS, FRONT END, CRAWLER TYPE										
	CASE										
4855	350 B 3/4 CY	39 HP D	42,631	13.61	17.11	2.40	4.96	1.65	5.84	2.17	105
4860	455 C 1 CY	63 HP D	57,090	18.83	23.74	3.21	6.63	2.66	7.82	3.50	150
4865	855 C 1-1/2 CY	78 HP D	74,862	24.42	30.79	4.22	8.70	3.29	10.26	4.34	236
4870	1155 D 1-3/4 CY	110 HP D	99,980	32.97	41.56	5.63	11.62	4.65	13.70	6.12	282
4875	1455 B 2-1/4 CY	140 HP D	118,242	39.57	49.91	6.66	13.75	5.91	16.20	7.79	360
	CATERPILLAR										
4885	931B 1 CY	65 HP D	45,031	15.75	19.90	2.54	5.24	2.74	6.17	3.62	160
4890	943 1-1/2 CY	80 HP D	88,175	28.03	35.34	4.96	10.25	3.38	12.08	4.45	257
4895	953 2 CY	110 HP D	110,234	35.70	44.95	6.20	12.81	4.65	15.10	6.12	300
4900	963 2-1/2 CY	150 HP D	144,069	47.00	59.23	8.11	16.74	6.33	19.74	8.34	399
4905	973 3-3/4 CY	210 HP D	203,529	66.30	83.52	11.46	23.66	8.87	27.88	11.68	540
	FIAT-ALLIS										
4915	FL5 1 CY	63 HP D	46,092	15.91	20.09	2.59	5.35	2.66	6.31	3.50	165
4920	FL7 1-1/4 CY	78 HP D	55,882	19.39	24.49	3.15	6.50	3.29	7.65	4.34	198
4925	FL9 1-5/8 CY	87 HP D	65,013	22.34	28.20	3.66	7.56	3.67	8.90	4.84	252
4930	FL10C 2 CY	122 HP D	85,674	29.87	37.75	4.82	9.96	5.15	11.74	6.79	300
4935	FL14C 2-5/8 CY	150 HP D	114,490	39.15	49.43	6.45	13.31	6.33	15.69	8.34	410
4940	FL20 3-1/2 CY	223 HP D	162,873	56.27	71.05	9.18	18.94	9.42	22.31	12.40	585
	INTERNATIONAL										
4950	100-E 1-1/8 CY	65 HP D	53,656	18.04	22.76	3.02	6.24	2.74	7.35	3.62	161
4955	125-E 1-3/8 CY	78 HP D	66,734	22.26	28.10	3.75	7.75	3.29	9.15	4.34	199
4960	175-C 2 CY	130 HP D	103,285	35.01	44.19	5.81	12.00	5.49	14.15	7.23	338
4965	250-C 2-3/4 CY	190 HP D	151,048	51.19	64.62	8.51	17.56	8.02	20.70	10.57	452

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				
LOADERS, F.E., CRAWLER TYPE (CONT'D)													
JOHN DEERE													
4975	JD350-C	3/4 CY	42 HP D	40,538	13.21	16.65	2.28	4.71	1.77	5.55	2.34	119	
4980	JD455-D	1-1/4 CY	67 HP D	53,793	18.20	22.97	3.03	6.25	2.83	7.37	3.73	172	
4985	JD555-A	1-3/8 CY	78 HP D	66,200	22.13	27.92	3.73	7.70	3.29	9.07	4.34	188	
4990	JD655	2 CY	110 HP D	97,526	32.32	40.74	5.49	11.33	4.65	13.36	6.12	296	
4995	JD755-A	2-1/4 CY	130 HP D	111,668	37.24	46.96	6.29	12.98	5.49	15.30	7.23	320	
5000	JD855	2-3/4 CY	200 HP D	160,589	54.31	68.53	9.04	18.66	8.45	22.00	11.12	460	
KOMATSU													
5010	D31S-17	1.3 CY	66 HP D	47,918	16.58	20.94	2.70	5.57	2.79	6.57	3.67	156	
5015	D41S-3	1.6 CY	90 HP D	66,568	22.92	28.96	3.75	7.74	3.80	9.12	5.01	262	
5020	D53S-16	1.8 CY	110 HP D	84,724	28.93	36.49	4.77	9.85	4.65	11.60	6.12	300	
5025	D57S-1	2.1 CY	135 HP D	105,589	35.92	45.33	5.95	12.28	5.70	14.47	7.51	340	
5030	D75S-3	3.3 CY	200 HP D	152,494	52.17	65.85	8.59	17.73	8.45	20.89	11.12	485	
5035	D155S-1	5.9 CY	350 HP D	298,339	99.65	125.67	16.80	34.68	14.78	40.87	19.47	950	
LOADERS, FRONT END, WHEEL TYPE													
(ARTIC = ARTICULATED)													
BOBCAT													
5045	MOD 440	6 CWT. SKID STEER	16 HP G	8,963	3.28	4.24	0.50	0.98	1.10	1.15	1.43	21	
5050	MOD 443	6 CWT. SKID STEER	15 HP D	10,735	3.02	3.87	0.60	1.18	0.59	1.38	0.77	24	
5055	MOD 540	8 CWT. SKID STEER	23 HP G	12,175	4.54	5.84	0.68	1.35	1.58	1.58	2.06	31	
5060	MOD 543	8 CWT. SKID STEER	22 HP D	13,671	3.96	5.09	0.76	1.51	0.86	1.77	1.13	33	
5065	MOD 641	10 CWT. SKID STEER	28 HP D	16,126	4.80	6.14	0.91	1.79	1.10	2.09	1.44	39	
5070	MOD 642	10 CWT. SKID STEER	32 HP G	14,884	5.89	7.57	0.83	1.65	2.20	1.93	2.86	36	
5075	MOD 742	13 CWT. SKID STEER	34 HP G	17,148	6.51	8.36	0.96	1.90	2.33	2.23	3.04	45	
5080	MOD 743	13 CWT. SKID STEER	36 HP D	18,367	5.68	7.27	1.03	2.04	1.41	2.35	1.85	46	
5085	MOD 843	17 CWT. SKID STEER	54 HP D	23,673	7.88	10.25	1.31	2.58	2.11	3.02	2.75	63	
5090	MOD 974	37 CWT. SKID STEER	78 HP D	43,554	13.59	17.99	2.39	4.61	3.05	5.41	4.02	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		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
LOADERS, F.E., WHEEL TYPE (CONT'D)														
CASE														
5100	W-4	1/2 CY ARTIC	37 HP D	26,062	7.33	9.42	1.45	2.87	1.45	3.37	1.91	48		
5105	W-11	3/4 CY ARTIC	55 HP D	47,481	12.64	16.21	2.65	5.24	2.15	6.14	2.83	89		
5110	W-14	1-1/2 CY ARTIC	83 HP D	63,180	17.62	22.87	3.51	6.88	3.25	8.05	4.27	146		
5115	W-18 B	1-3/4 CY ARTIC	103 HP D	81,032	22.37	29.01	4.50	8.83	4.03	10.34	5.30	194		
5120	W-20 C	2 CY ARTIC	110 HP D	86,838	24.37	32.02	4.78	9.31	4.31	10.88	5.66	230		
5125	W-24 C	2-1/2 CY ARTIC	132 HP D	104,371	28.58	36.85	5.80	11.44	5.17	13.41	6.80	216		
5130	W-36	3-1/2 CY ARTIC	185 HP D	140,300	39.68	52.01	7.73	15.09	7.24	17.64	9.53	398		
CATERPILLAR														
5140	910	1-1/4 CY ARTIC	65 HP D	52,132	14.39	18.72	2.89	5.66	2.54	6.62	3.35	145		
5145	920	1-3/4 CY ARTIC	80 HP D	72,924	19.37	25.04	4.05	7.97	3.13	9.33	4.12	186		
5150	930	2-1/4 CY ARTIC	100 HP D	83,523	22.69	29.39	4.63	9.11	3.91	10.66	5.15	212		
5155	950-B	3 CY ARTIC	155 HP D	132,096	35.79	46.40	7.33	14.39	6.07	16.83	7.98	328		
5160	966-D	4 CY ARTIC	200 HP D	180,008	48.42	63.03	9.96	19.51	7.83	22.82	10.30	426		
5165	980-C	5-1/4 CY ARTIC	270 HP D	242,328	60.65	78.80	12.37	24.31	10.51	27.63	13.90	598		
5170	988-B	7 CY ARTIC	375 HP D	350,073	85.27	110.51	17.73	34.57	14.68	39.26	19.31	892		
5175	992-C	13 CY ARTIC	690 HP D	712,257	172.01	225.57	35.81	69.24	27.01	78.54	35.53	1916		
CLARK														
5185	35C	1-1/2 CY	85 HP D	63,529	17.75	22.98	3.53	6.94	3.33	8.12	4.38	180		
5190	45C	2 CY	110 HP D	74,415	21.34	27.59	4.11	8.14	4.3	9.52	5.66	206		
5195	55C	2-1/2 CY ARTIC	121 HP D	86,509	24.45	31.67	4.80	9.44	4.71	11.06	6.23	262		
5200	75C	3 CY ARTIC	154 HP D	125,241	34.53	45.04	6.92	13.55	6.03	15.86	7.93	313		
5205	125C	4 CY ARTIC	203 HP D	168,973	46.68	61.19	9.30	18.16	7.95	21.24	10.45	437		
5210	175C	5 CY ARTIC	279 HP D	228,943	58.76	76.60	11.61	22.90	10.92	26.03	14.37	565		
5215	275C	7 CY ARTIC	360 HP D	334,540	80.74	103.61	17.06	33.45	14.09	38.01	18.54	864		
5220	475C	12 CY ARTIC	612 HP D	627,807	150.38	195.51	31.74	61.73	23.95	70.08	31.52	1639		

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)														
FIAT-ALLIS														
5230	345-B	1-1/2 CY ARTIC	80 HP D	56,575	16.07	20.82	3.14	6.17	3.13	7.22	4.12	151		
5235	FR-10	2-1/4 CY ARTIC	110 HP D	72,050	20.79	26.80	4.01	7.91	4.31	9.25	5.66	212		
5240	FR-12	2-1/2 CY ARTIC	127 HP D	79,166	23.34	30.30	4.39	8.62	4.97	10.09	6.54	230		
5245	FR-15	3 CY ARTIC	164 HP D	111,148	32.41	42.50	6.12	11.95	6.42	13.97	8.45	296		
5250	FR-20	4-1/2 CY ARTIC	223 HP D	169,750	47.95	62.84	9.35	18.25	8.73	21.34	11.48	445		
5255	945-B	6-1/2 CY ARTIC	335 HP D	261,245	66.57	86.50	13.22	25.74	13.11	29.22	17.25	666		
FORD														
5265	445A	3/4 CY	48 HP D	26,631	8.19	10.69	1.47	2.87	1.88	3.36	2.47	73		
5270	555A	1 CY	62 HP D	33,518	10.33	13.40	1.86	3.64	2.43	4.26	3.19	78		
5275	A-62	1-1/2 CY	88 HP D	65,571	18.32	23.68	3.65	7.17	3.44	8.38	4.53	173		
5280	A-64	2 CY ARTIC	107 HP D	79,085	22.21	28.81	4.38	8.61	4.19	10.08	5.51	229		
5285	A-66	2-1/2 CY ARTIC	136 HP D	111,824	30.73	40.04	6.18	12.11	5.32	14.17	7.00	256		
INTERNATIONAL														
5295	510B	1-3/8 CY	80 HP D	55,572	15.90	20.65	3.08	6.04	3.13	7.07	4.12	140		
5300	515B	1-5/8 CY	100 HP D	68,321	19.56	25.38	3.79	7.45	3.91	8.73	5.15	167		
5305	520B	2-1/4 CY ARTIC	120 HP D	79,804	23.08	29.96	4.42	8.69	4.70	10.18	6.18	232		
5310	530	2-3/4 CY ARTIC	155 HP D	115,225	32.46	42.27	6.37	12.49	6.07	14.62	7.98	291		
5315	540	3-3/4 CY ARTIC	189 HP D	159,161	43.85	57.53	8.76	17.09	7.40	19.99	9.73	360		
5320	550	5-1/4 CY ARTIC	209 HP D	224,839	59.74	79.35	12.28	23.78	8.18	27.78	10.76	544		
5325	560B	7-1/2 CY ARTIC	415 HP D	329,269	82.59	106.18	16.77	32.89	16.24	37.38	21.37	830		
5330	570	12 CY ARTIC	590 HP D	614,575	145.13	186.66	31.28	61.24	23.09	69.56	30.38	1350		
JOHN DEERE														
5340	300B	3/4 CY	43 HP D	24,553	7.43	9.63	1.36	2.66	1.68	3.12	2.21	69		
5345	444C	1-1/2 CY	85 HP D	65,867	18.21	23.54	3.66	7.20	3.33	8.42	4.38	179		
5350	544C	2 CY ARTIC	105 HP D	79,655	22.00	28.30	4.44	8.75	4.11	10.25	5.41	197		

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

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

JOHN DEERE (CONT'D)													
5355	644C	3 CY ARTIC	145 HP D	113,977	31.55	40.98	6.32	12.40	5.68	14.51	7.47	260	
5360	844	4-1/2 CY ARTIC	260 HP D	209,388	54.35	71.20	10.65	20.84	10.18	23.68	13.39	490	
KAWASAKI													
5370	KSS-65Z	2.2 CY	104 HP D	68,634	19.99	26.04	3.80	7.44	4.07	8.70	5.36	225	
5375	KSS-70	3.0 CY	158 HP D	95,153	28.67	37.58	5.25	10.24	6.18	11.98	8.14	305	
5380	KSS-80ZII	3.5 CY	165 HP D	101,917	30.46	39.87	5.62	10.98	6.46	12.84	8.50	327	
5385	KSS-85ZII	4.0 CY	217 HP D	138,564	41.19	54.12	7.62	14.86	8.49	17.37	11.18	409	
5390	KSS-95ZII	5.5 CY	305 HP D	190,269	52.87	69.27	9.68	18.94	11.94	21.51	15.71	615	
5395	KSS-110Z	7.5 CY	383 HP D	298,113	76.55	100.09	15.03	29.11	14.99	33.02	19.72	864	
TEREX (GM)													
5405	33C	2 CY	103 HP D	68,208	19.84	25.85	3.77	7.39	4.03	8.64	5.30	216	
5410	44C	2-1/2 CY	113 HP D	77,876	22.31	28.97	4.32	8.48	4.42	9.93	5.82	250	
5415	55C	3-1/4 CY	144 HP D	109,516	30.79	40.19	6.05	11.83	5.64	13.84	7.42	280	
5420	66C	4 CY	210 HP D	152,003	43.40	56.81	8.39	16.38	8.22	19.16	10.81	425	
5425	80C	5-1/2 CY	307 HP D	228,996	60.18	78.47	11.67	22.90	12.02	26.03	15.81	590	
5430	90B	7-1/2 CY	388 HP D	333,551	81.99	105.27	17.00	33.34	15.19	37.89	19.98	845	
TROJAN													
5440	1500Z	1-3/4 CY ARTIC	93 HP D	62,068	18.08	23.62	3.42	6.70	3.64	7.84	4.79	180	
5445	1900Z	2-1/2 CY ARTIC	119 HP G	78,487	26.92	34.90	4.35	8.54	8.17	10.00	10.64	220	
5450	2000Z	3 CY ARTIC	160 HP D	103,666	30.46	39.80	5.73	11.20	6.26	13.09	8.24	305	
5455	4000	4-1/4 CY ARTIC	203 HP D	154,442	43.83	57.63	8.49	16.54	7.95	19.33	10.45	410	
5460	5500	5-1/2 CY ARTIC	285 HP D	225,602	58.74	76.92	11.48	22.47	11.15	25.53	14.68	616	
5465	7500	7 CY ARTIC	400 HP D	296,898	76.16	98.36	15.08	29.49	15.66	33.50	20.60	846	

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNERSHIP	FUEL	OWNERSHIP	FUEL					
LOADER/BACKHOE, WHEEL TYPE TRACTOR														
CASE														
5475	480D LDR/BHOE	7/8 CY FE BUCKET 24" B/H DIPPER	47 HP D	41,994	11.38	14.38	2.34	4.60	1.84	5.38	2.42	100		
5480	580D LDR/BHOE	1.0 CY FE BUCKET 24" B/H DIPPER	55 HP D	48,977	13.22	16.71	2.73	5.41	2.15	6.34	2.83	115		
5485	680H LDR/BHOE	1-1/4 CY FE BUCKET 30" B/H DIPPER	80 HP D	75,480	20.19	25.50	4.21	8.30	3.13	9.71	4.12	165		
5490	780B LDR/BHOE	1-3/4 CY FE BUCKET 30" B/H DIPPER	111 HP D	89,201	24.72	31.30	4.95	9.76	4.34	11.44	5.72	200		
JOHN DEERE														
5500	310B LDR/BH	3/4 CY FE BUCKET 24" B/H DIPPER	58 HP D	42,150	12.01	15.23	2.94	4.60	2.27	5.40	2.99	135		
5505	410B LDR/BH	1 CY FE BUCKET 24" B/H DIPPER	62 HP D	49,954	13.87	17.55	2.78	5.47	2.43	6.40	3.19	138		
5510	510B LDR/BHOE	1-1/8 CY FE BUCKET 24" B/H DIPPER	70 HP D	57,879	16.00	20.24	3.22	6.33	2.74	7.40	3.60	150		
5515	610B LDR/BH	1-1/3 CY FE BUCKET 24" B/H DIPPER	80 HP D	66,215	18.25	23.10	3.68	7.26	3.13	8.50	4.12	163		
5520	710B LDR/BHOE	1-1/2 CY FE BUCKET 30" B/H DIPPER	100 HP D	79,756	22.27	28.23	4.42	8.68	3.91	10.16	5.15	220		
LOADER/BACKHOE, CRLR TYPE TRACTOR														
CASE														
5530	350B LDR/BHOE	3/4 CY FE BUCKET 24" B/H DIPPER	39 HP D	56,247	17.22	21.62	3.17	6.54	1.65	7.71	2.17	141		
5535	450B LDR/BHOE	1 CY FE BUCKET 24" B/H DIPPER	53 HP D	66,971	20.87	26.26	3.77	7.78	2.24	9.18	2.95	167		
CATERPILLAR														
5545	931BLDR/BHOE	1 CY FE BUCKET 30" B/H DIPPER	65 HP D	58,168	19.23	24.26	3.27	6.76	2.74	7.97	3.62	207		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	AVERAGE COND.						
					FUEL	OWNER-SHIP	FUEL	SEVERE COND.						
LOADER/BACKHOE ATTACHMENTS *****														
HYDRAULICALLY OPERATED IMPACTOR MOUNTED ON BACKHOE OR HYDRAULIC EXCAVATOR (ADD TO THE BASIC LOADER-BACKHOE OR EXCAVATOR)														
5555	KENT RAM 555 W/NARROW CHISEL	5,123	2.20		0.35	0.75	0.00		6					
5560	KENT RAM 999 W/NARROW CHISEL	10,638	4.57		0.72	1.57	0.00		10					
5565	KENT RAM 2000 W/CHISEL-MIN 3/4CY B/H	20,618	8.82		1.41	3.05	0.00		22					
5570	KENT KHP-12 HYDRA-PAK TAMPER	5,388	2.05		0.37	0.80	0.00		9					
5575	KENT KHP-25 HYDRA-PAK MIN 3/4CY B/H	8,452	3.17		0.58	1.25	0.00		15					
PILE EXTRACTORS *****														
MKT CORPORATION														
5585	E2 700 FT-LBS	400CFM A	14,746	5.17		1.01	2.19	0.00	27					
5590	E4 1000 FT-LBS	550CFM A	22,274	7.75		1.52	3.30	0.00	47					
VULCAN														
5600	400A 500 FT-LBS	450CFM A	18,919	6.57		1.29	2.80	0.00	30					
5605	800A 1000 FT-LBS	900CFM A	24,855	8.77		1.70	3.68	0.00	57					
5610	1200A 1640 FT-LBS	1350CFM A	29,523	10.61		2.02	4.37	0.00	97					
PILE HAMMERS, DIESEL ***** (FUEL NOT INCLUDED)														
MKT CORPORATION														
5620	DE-30B/20B (6-FT) 12,000 FT-LBS		37,253	12.47		2.55	5.52	0.00	74					
5625	DE-30B/20B (6-FT) 16,800 FT-LBS		41,629	13.92		2.85	6.16	0.00	82					
5630	DE-70B/50B (6-FT) 30,000 FT-LBS		68,405	22.84		4.68	10.13	0.00	138					
5635	DE-70B/50B (6-FT) 42,000 FT-LBS		72,782	24.29		4.97	10.77	0.00	158					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL	OWNERSHIP				
PILE HAMMERS. SINGLE ACTING													

VULCAN													
5645	1	15000 FT-LBS	750CFM A	38,251	13.16		2.62	5.66	0.00	101			
5650	06	19500 FT-LBS	900CFM A	43,852	15.09		3.00	6.49	0.00	121			
5655	08	26000 FT-LBS	1100CFM A	50,766	17.49		3.47	7.51	0.00	175			
5660	010	32500 FT-LBS	1350CFM A	55,645	19.26		3.81	8.24	0.00	195			
5665	012	39000 FT-LBS	1500CFM A	62,447	21.42		4.27	9.24	0.00	287			
5670	014	42000 FT-LBS	1750CFM A	74,175	25.62		5.07	10.98	0.00	283			
5675	016	48750 FT-LBS	1750CFM A	87,24	29.98		5.97	12.92	0.00	320			
5680	020	60000 FT-LBS	2150CFM A	116,746	40.01		7.98	17.28	0.00	425			
5685	030	90000 FT-LBS	2350CFM A	171,160	58.24		11.71	25.34	0.00	575			
PILE HAMMERS, DOUBLE ACTING													

MKT CORPORATION													
5695	9-B-3	8750 FT-LBS	900CFM A	29,962	10.46		2.05	4.43	0.00	74			
5700	10-B-3	13100 FT-LBS	1200CFM A	34,232	12.04		2.34	5.07	0.00	114			
5705	11-B-3	19150 FT-LBS	1200CFM A	45,557	15.81		3.12	6.75	0.00	141			
5710	5 (SELF STOP)	1000 FT-LBS	375CFM A	11,284	4.01		0.77	1.67	0.00	17			
5715	6 (SELF STOP)	2500 FT-LBS	600CFM A	14,360	5.12		0.98	2.13	0.00	31			
5720	7 (SELF STOP)	4150 FT-LBS	750CFM A	18,070	6.45		1.24	2.68	0.00	50			
VULCAN													
5730	50C	15100 FT-LBS	1250CFM A	48,865	16.93		3.34	7.23	0.00	153			
5735	65C	19200 FT-LBS	1450CFM A	55,780	19.35		3.81	8.26	0.00	153			
5740	80C	24450 FT-LBS	1750CFM A	60,050	20.92		4.11	8.89	0.00	184			
5745	100C	32900 FT-LBS	2050CFM A	73,627	25.60		5.04	10.90	0.00	232			
5750	140C	36000 FT-LBS	2150CFM A	90,568	31.30		6.20	13.41	0.00	287			
5755	200C	50200 FT-LBS	2550CFM A	130,333	44.75		8.91	19.30	0.00	393			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.				
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
PILE HAMMERS, VIBRATORY												
***** MKT CORPORATION												
5765	V5	WITH POWER PACK	59 HP D	65,109	24.73	4.45	9.64	2.31	110			
5770	V16	WITH POWER PACK	156 HP D	122,397	48.81	8.37	18.12	6.11	215			
5775	V20	WITH POWER PACK	295 HP D	178,722	74.76	12.23	26.47	11.55	257			
5780	V30	WITH POWER PACK	550 HP D	192,396	92.48	13.16	28.49	21.53	350			
5785	V36	WITH POWER PACK	650 HP D	243,238	114.56	16.63	36.01	25.44	450			
PIPELAYER												

CATERPILLAR												
5795	561D	15 FT BOOM, 40,000 LB CAP 105 HP D	125,917	25.10	31.03	6.63	12.52	2.27	14.15			
5800	571G	18 FT BOOM, 60,000 LB CAP 200 HP D	202,221	41.27	51.06	10.65	20.11	4.33	22.74			
5805	572G	18 FT BOOM, 90,000 LB CAP 200 HP D	279,705	54.77	67.64	14.73	27.82	4.33	31.45			
5810	583K	20 FT BOOM, 140,000 LB CAP 300 HP D	289,756	59.54	73.68	15.25	28.81	6.49	32.57			
5815	594H	24 FT BOOM, 200,000 LB CAP 410 HP D	404,516	82.86	102.53	21.29	40.23	8.87	45.48			
PUMPS, GROUT												

CHEMGROUT												
5825	CG-500 VERSATILE AIR OPERATED GROUT PLANT-100 PSI, 230 CFM			12,791	3.73	0.80	1.81	0.00	11			
5830	CG-550 AIR OPERATED MINI GROUT PLANT-100 PSI, 150 CFM			4,731	1.43	0.30	0.67	0.00	5			
5835	CG-600 AIR OPERATED COLLOIDAL MIXER AND PUMP-100 PSI, 450 CFM			18,890	5.60	1.18	2.67	0.00	18			
5840	CG-620 COLLOIDAL ADD-ON TO CG-500			8,187	2.35	0.52	1.16	0.00	11			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
PUMPS, WATER (FOR CORE DRILLS)														

LONGYEAR														
5850	520 RQG 5.7-20 GPM UP TO 600PSI	10 HP G	6,921	2.70		0.39	0.77	0.95		7				
5855	535 RQG 9.9-35 GPM UP TO 800PSI	15 HP G	8,754	3.71		0.49	0.98	1.42		10				
PUMPS, WATER, CENTRIFUGAL, DEWATERING														

HOMELITE - SKID MOUNTED														
5865	MOD 110S 1-1/2"-5000 GPH @ 30' H	2 HP G	485	0.36		0.03	0.06	0.19		1				
5870	MOD 111S 2" - 9000 GPH @ 22' H	3 HP G	622	0.50		0.03	0.07	0.28		1				
5875	MOD 120S 3" - 18000 GPH @ 20' H	8 HP G	1,155	1.24		0.06	0.13	0.76		2				
MARLOW - WHEEL MOUNTED														
5885	MOD 4D2 465 GPM @ 20' HEAD	43 HP G	9,200	7.31		0.52	1.03	4.07		14				
5890	MOD 4C7 595 GPM @ 20' HEAD	30 HP D	5,305	3.37		0.30	0.59	1.64		10				
5895	MOD 6E4A 1100 GPM @ 20' HEAD	79 HP G	12,166	12.43		0.69	1.36	7.48		15				
5900	MOD 6E4A 1100 GPM @ 20' HEAD	60 HP D	17,536	8.21		0.99	1.96	3.28		24				
5905	MOD 8FA3 2320 GPM @ 20' HEAD	70 HP D	22,500	10.01		1.27	2.52	3.82		23				
5910	MOD 10FA61 2775 GPM @ 20' HEAD	68 HP D	23,936	10.15		1.34	2.67	3.71		30				
PUMPS, WATER, CENTRIFUGAL, TRASH														

HOMELITE - SKID MOUNTED														
5920	MOD 121TP 2" - 11500 GPH @ 20' H	5 HP G	995	0.83		0.06	0.11	0.47		1				
5925	MOD 120 3" - 23000 GPH @ 20' H	8 HP G	1,364	1.28		0.08	0.15	0.76		2				
5930	MOD 160TP 4" - 36500 GPH @ 20' H	16 HP G	2,797	2.59		0.16	0.32	1.51		4				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT
			CONDITION	STAND-	AVERAGE	SEVERE	OWNER-	AVERAGE COND.	SEVERE COND.
					BY			SHIP	
	PUMPS, WATER, DIAPHRAGM *****								
	HOMELITE - SKID MOUNTED								
5940	MOD 111DP 2" - 1900 GPH @ 10' HD 3 HP G	1,243	0.63			0.07	0.14	0.28	1
5945	MOD 111DP 3" - 4800 GPH @ 10' HD 3 HP G	1,393	0.66			0.08	0.15	0.28	2
	PUMPS, WATER, SUBMERSIBLE *****								
	GORMAN-RUPP								
5955	MOD S2A1 2" - 138 GPM @ 20' HD 2 HP E	1,689	0.62			0.09	0.19	0.24	2
5960	MOD S3A1 3" - 278GPM @ 20' HD 5 HP E	2,414	1.28			0.14	0.27	0.61	3
5965	MOD S4A1 4" - 860 GPM @ 40' HD 25 HP E	8,580	5.82			0.48	0.96	3.06	12
5970	MOD S6A1 6" - 1950 GPM @ 40' HD 60 HP E	11,173	12.44			0.63	1.25	7.34	14
	HOMELITE								
5980	MOD SP200 2" ~ 13000 GPH @ 10' HD 2 HP E	1,365	0.57			0.08	0.15	0.24	1
5985	MOD SP300 3" - 19000 GPH @ 15' HD 4 HP E	1,687	0.98			0.09	0.19	0.49	1
	RIPPER & HYDRAULIC BANK SLOPER ***** (DOES NOT INCLUDE COST OF POINT WEAR)								
	ATECO								
5995	LPAF-D8K PARALLEL LIFT	26,049	6.73	9.24	1.62	3.57	0.00	4.47	0.00
6000	D-8K SHANKS EA	2,074	0.54	0.73	0.13	0.29	0.00	0.36	0.00
6005	LPAF-D7G PARALLEL LIFT	19,300	5.04	6.85	1.20	2.65	0.00	3.31	0.00
6010	D-7G SHANKS EA	910	0.23	0.31	0.05	0.12	0.00	0.15	0.00
6015	V-LPRF-TD25E PARALLEL LIFT STD SVC	22,473	5.86	7.98	1.39	3.07	0.00	3.85	0.00
6020	TD-25C SHANKS EA	2,022	0.52	0.71	0.13	0.28	0.00	0.35	0.00
6025	V-LPRF-TD20E PARALLEL LIFT STD SVC	16,078	4.21	5.72	1.00	2.21	0.00	2.76	0.00
6030	TD-20E SHANKS EA	1,283	0.33	0.45	0.08	0.18	0.00	0.22	0.00
6035	PS-TD15C RADIAL LIFT	9,334	2.48	3.35	0.58	1.28	0.00	1.60	0.00
6040	TD-15C SHANKS EA	505	0.13	0.18	0.03	0.07	0.00	0.09	0.00
6045	V-LPRF 82-50 PARALLEL LIFT STD SVC	25,047	6.50	8.87	1.56	3.43	0.00	4.30	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.	OWNER-SHIP	FUEL				
RIPPER & HYDR BANK SLOPER (CONT'D) ***** (DOES NOT INCLUDE COST OF POINT WEAR)												
ATECO (CONT'D)												
6050	82-50 SHANKS EA	2,022	0.52	0.71	0.13	0.28	0.00	0.35	0.00			
6055	V-LPRF-82-30B PARALLEL LIFT	22,223	5.78	7.87	1.38	3.04	0.00	3.81	0.00			
6060	82-30 SHANKS EA	2,711	0.69	0.95	0.17	0.37	0.00	0.46	0.00			
6065	HBS-HYDR BANK SLOPER 260-475 HP	9,687	2.13	2.71	0.54	1.12	0.00	1.33	0.00			
CATERPILLAR												
6075	D-10 MULTI-SHANK BEAM	54,668	14.24	19.40	3.40	7.49	0.00	9.38	0.00			
6080	D-10 SHANKS EA	3,975	1.03	1.39	0.25	0.55	0.00	0.68	0.00			
6085	D-10 SINGLE-SHANK BEAM	57,975	15.08	20.55	3.60	7.94	0.00	9.95	0.00			
6090	D-9L MULTI-SHANK BEAM W/HYD-CONTROL	46,121	11.99	16.34	2.86	6.32	0.00	7.91	0.00			
6095	D-9L SHANKS EA	3,580	0.92	1.26	0.22	0.49	0.00	0.62	0.00			
6100	D-9L SINGLE-SHANK BEAM HYD-CNTL&SHANK	42,979	11.18	15.23	2.66	5.88	0.00	7.37	0.00			
6105	D-8L MULTI-SHANK BEAM HYD-CONTROL	31,004	8.06	10.98	1.93	4.25	0.00	5.32	0.00			
6110	D-8L SHANKS EA	2,004	0.51	0.71	0.12	0.27	0.00	0.35	0.00			
6115	D-8L SINGLE-SHANK BEAM HYD-CNTL&SHANK	30,201	7.85	10.69	1.88	4.14	0.00	5.18	0.00			
6120	D-7G MULTI-SHANK BEAM HYD-CONTROL	17,346	4.52	6.17	1.07	2.37	0.00	2.98	0.00			
6125	D-7G SHANKS EA	1,030	0.26	0.36	0.07	0.14	0.00	0.18	0.00			
6130	D-6D MULTI-SHANK BEAM HYD-CONTROL	10,833	2.85	3.88	0.67	1.48	0.00	1.86	0.00			
6135	D-6D SHANKS EA	519	0.13	0.18	0.03	0.07	0.00	0.09	0.00			
6140	D-4E MULTI-SHANK BEAM HYD-CONTROL	6,702	1.80	2.43	0.42	0.92	0.00	1.15	0.00			
6145	D-4E SHANKS EA	285	0.07	0.10	0.02	0.04	0.00	0.05	0.00			
6150	D-3B FIVE-SHANK BEAM HYD-CONTROL	2,840	0.81	1.08	0.18	0.39	0.00	0.49	0.00			
6155	D-3B SHANKS EA	155	0.05	0.06	0.02	0.03	0.00	0.03	0.00			
FIAT-ALLIS												
6165	FD-50 W/HYD-CNTL AND 1 SHANK	58,856	15.37	20.93	3.65	8.06	0.00	10.10	0.00			
6170	FD-40 W/HYD-CNTL AND 2 SHANKS	46,518	12.14	16.53	2.89	6.38	0.00	7.99	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 COND.	SEVERE FUEL	OWNER-SHIP		
	RIPPER & HYDR BANK SLOPER (CONT'D) ***** (DOES NOT INCLUDE COST OF POINT WEAR)									
	FIAT-ALLIS (CONT'D)									
6175	FD-30 W/HYD-CNTL AND 2 SHANKS	34,741	9.01	12.29	2.16	4.76	0.00	5.96	0.00	108
6180	RP20B W/HYD-CNTL AND 3 SHANKS	21,812	5.69	7.75	1.36	2.99	0.00	3.75	0.00	88
	ROLLER, RUBBER TIRED, SELF-PROPELLED *****									
	FERGUSON									
6190	MOD SP-912 12 TON 85 HP D	40,991	13.10		2.29	4.65	3.33			99
6195	MOD SP-915 15 TON 85 HP D	45,518	14.08		2.55	5.17	3.33			135
6200	MOD SP-1118 18 TON 85 HP D	52,532	15.62		2.94	5.97	3.33			124
6205	MOD SP-1130 30 TON 125 HP D	84,177	24.59		4.68	9.43	4.89			242
	INGRAM									
6215	9-2800-P 12 TON 76 HP D	35,721	11.50		1.99	4.04	2.97			73
6220	9-2800-PA 12 TON 76 HP D	38,485	12.11		2.15	4.36	2.97			86
6225	9-3400-P 15 TON 78 HP D	39,467	12.43		2.21	4.48	3.05			97
6230	11-2700 15 TON 107 HP G	37,997	17.42		2.11	4.28	7.34			89
6235	11-2700 15 TON 76 HP D	42,236	12.93		2.36	4.78	2.97			91
6240	13-2300 15 TON 107 HP G	39,656	17.80		2.20	4.46	7.34			86
6245	13-2300 15 TON 76 HP D	43,929	13.31		2.45	4.95	2.97			90
6250	9-6000 27 TON 117 HP D	96,199	26.88		5.33	10.72	4.58			205
	TAMPO									
6260	SP-312 12 TON 68 HP D	38,829	11.80		2.17	4.40	2.66			66
6265	SP-518 15 TON 68 HP D	48,253	13.86		2.70	5.47	2.66			95
6270	SP-950 27 TON 130 HP D	99,554	28.20		5.52	11.13	5.09			198
6275	SP-1070 M 35 TON 130 HP D	119,610	33.02		6.52	12.95	5.09			258

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION		STAND-BY	AVERAGE COND.		SEVERE COND.				
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL			
ROLLER, RUBBER TIRED, TOWED												
FERGUSON												
6285	RT-100S	50 TON	66,689	14.14	3.41	6.31	0.00		200			
6290	RT-120S	60 TON	78,477	17.46	4.23	8.28	0.00		218			
SOUTHWEST												
6300	C 50	50 TON	80,333	17.29	4.19	7.95	0.00		344			
6305	C 75	75 TON	90,257	19.32	4.64	8.63	0.00		408			
6310	C 100XL	100 TON	122,321	26.50	6.44	12.32	0.00		601			
TAMPO												
6320	R-13	14 TON	10,031	2.26	0.54	1.05	0.00		35			
ROLLER, SHEEPSFOOT, DOUBLE DRUM, TOWED												
FERGUSON												
6330	MOD 112	40"X48" 3-7 TON	14,327	3.26	0.81	1.66	0.00		65			
6335	MOD 112W	40"X48" 4.5-8 TON	18,295	4.12	1.03	2.11	0.00		91			
6340	MOD 112W-48	48"X48" 5-10 TON	18,959	4.26	1.06	2.18	0.00		105			
6345	MOD 120	60"X60" 8-18 TON	28,387	6.31	1.60	3.27	0.00		157			
6350	MOD 120 MOD	60"X60" 8-18 TON	43,331	9.56	2.44	4.99	0.00		230			
6355	MOD 120-RE	60"X60" 16-20 TON	64,096	14.07	3.61	7.38	0.00		327			
6360	MOD 22	60"X72" 16-20 TON	42,711	9.43	2.41	4.92	0.00		215			
6365	MOD 22 MOD	60"X72" 16-20 TON	49,445	10.88	2.78	5.69	0.00		269			
6370	MOD 144-RE	60"X72" 19-24 TON	75,447	16.55	4.25	8.70	0.00		385			
TAMPO												
6380	H-1 TF	40"X48" 2.6TON	6,366	1.53	0.36	0.73	0.00		32			
6385	H-2 TF	40"X48" 5 TON	12,857	2.94	0.72	1.48	0.00		63			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	STAND-	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL	OWNER-SHIP	
	ROLLER, SHEEPSFOOT, DD, SELF-PROPELLED									
	CATERPILLAR									
6395	815 B 40.5"X38" 210 HP D	163,936	45.82		9.23	18.89	8.22			420
6400	825C 51"X44" 310 HP D	245,290	68.35		13.81	28.26	12.13			633
6405	825C W/S BLADE 310 HP D	259,082	71.35		14.59	29.85	12.13			684
	HYSSTER									
6415	C455-B TANDEM 80"X80" ARTIC 330 HP D	261,330	72.82		14.71	30.11	12.92			573
	ROLLER, SMOOTH WHEEL, SELF-PROPELLED									
	FERGUSON									
6425	3-5 TON TANDEM 52 HP D	27,665	8.54		1.55	3.18	2.04			77
6430	4-6 TON TANDEM 52 HP D	33,047	9.72		1.86	3.81	2.04			96
6435	5-8 TON TANDEM 85 HP D	50,384	15.09		2.84	5.81	3.33			136
6440	8-10 TON TANDEM 85 HP D	52,962	15.64		2.98	6.10	3.33			174
6445	8-12 TON TANDEM 85 HP D	55,274	16.15		3.12	6.37	3.33			176
6450	10-14 TON TANDEM 85 HP D	57,938	16.72		3.26	6.67	3.33			219
	INGRAM									
6460	12 TON EB 3 WHEEL 3" OVERLAP 107 HP G	55,518	21.17		3.13	6.40	7.34			194
6465	12 TON EB 3 WHEEL 3" OVERLAP 85 HP D	59,459	17.05		3.35	6.85	3.33			196
6470	14 TON EB 3 WHEEL 3" OVERLAP 107 HP G	59,031	21.93		3.32	6.80	7.34			221
6475	14 TON EB 3 WHEEL 3" OVERLAP 85 HP D	62,972	17.82		3.55	7.26	3.33			223
6480	4-6 TON FB 2 WHEEL TANDEM 54 HP G	27,136	10.49		1.52	3.12	3.71			82
6485	6-9 TON GB 2 WHEEL TANDEM 107 HP G	37,020	17.15		2.09	4.27	7.34			133
6490	6-9 TON GB 2 WHEEL TANDEM 85 HP D	40,962	13.03		2.31	4.72	3.33			135
6495	8-12 TON HB 2 WHEEL TANDEM 107 HP G	44,995	18.83		2.53	5.18	7.34			171
6500	8-12 TON HB 2 WHEEL TANDEM 85 HP D	48,937	14.75		2.75	5.63	3.33			173
6505	10-14 TON HB 2 WHEEL TANDEM 107 HP G	48,713	19.70		2.75	5.62	7.34			203
6510	10-14 TON HB 2 WHEEL TANDEM 85 HP D	52,654	15.53		2.97	6.07	3.33			205

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNER-SHIP	FUEL				
ROLLER, VIBRATORY, SINGLE DRUM, TOWED												
***** TF = ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS												
DYNAPAC												
6520	CK-11 40HZ 30"X55" 5 TON 18 HP G	13,530	6.25		0.84	1.84	1.70		31			
6525	CF-11 40HZ TF 30"X55" 5 TON 18 HP G	16,508	7.12		1.03	2.24	1.70		32			
6530	CH-47 27HZ 47"X74" 13 TON 43 HP D	35,491	13.57		2.20	4.81	2.35		130			
6535	CF-47 27HZ TF 47"X74" 13 TON 43 HP D	38,825	14.56		2.40	5.26	2.35		135			
6540	CK-51 25HZ 59"X83" 24 TON 95 HP D	54,547	22.95		3.38	7.40	5.19		221			
6545	CF-51 25HZ TF 59"X83" 24 TON 95 HP D	57,461	23.81		3.56	7.79	5.19		226			
FERGUSON												
6555	65 25HZ TF 60"X72" 11 TON 49 HP D	37,937	14.72		2.35	5.14	2.67		110			
6560	65T 30HZ TF 44"X72" 11 TON 49 HP D	41,316	15.73		2.57	5.61	2.67		127			
6565	230 25HZ 66"X78" 20 TON 77 HP D	66,790	25.27		4.14	9.06	4.20		237			
6570	230T 25HZ TF 66"X78" 21 TON 77 HP D	72,410	26.93		4.49	9.82	4.20		268			
HYSSTER												
6580	C200B 30HZ 48"X60" 9 TON 39 HP D	25,843	10.44		1.61	3.51	2.13		80			
6585	C210A 30HZ TF 58"X60" 9 TON 39 HP D	31,677	12.17		1.97	4.30	2.13		100			
RAYGO												
6595	SF-54A TF 38HZ 30"X54" 7.5TON 30 HP D	19,549	7.93		1.21	2.65	1.64		48			
6600	SM-54A 38HZ 30"X54" 7.5TON 30 HP D	17,776	7.42		1.11	2.42	1.64		48			
SOUTHWEST												
6610	756 25HZ TF 66"X78"23.5TON 75 HP D	82,036	29.61		5.08	11.12	4.09		240			
6615	566 33HZ TF 56"X72"25.5TON 50 HP D	62,754	22.12		3.89	8.51	2.73		165			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.												
			AVERAGE	SEVERE															
ROLLER, VIB, SINGLE DRUM, SELF-PROPELLED																			
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS																			
DYNAPAC																			
6630	CA-15	29HZ	48"X66"	11 TON	73 HP	D	61,508	23.44	3.79	8.25	3.99	132							
6635	CA-15A	42HZ	48"X66"	12 TON	85 HP	D	70,923	27.13	4.32	9.32	4.64	144							
6640	CA-15PD	29HZ	TF 53"X66"	13 TON	85 HP	D	81,042	30.07	5.00	10.91	4.64	157							
6645	CA-25A	40HZ	60"X84"	18 TON	125 HP	D	91,034	35.94	5.58	12.10	6.82	200							
6650	CA-25	28HZ	60"X84"	18 TON	125 HP	D	85,000	34.15	5.21	11.31	6.82	200							
6655	CA-25S	28HZ	61"X84"	22 TON	125 HP	D	91,542	36.08	5.62	12.20	6.82	225							
6660	CA-25PD	28HZ	68"X84"	22 TON	125 HP	D	105,134	40.08	6.46	14.03	6.82	248							
6665	CA-30	28HZ	61"X84"	22 TON	125 HP	D	94,053	36.82	5.78	12.54	6.82	242							
6670	CA-30D	28HZ	61"X84"	22 TON	125 HP	D	101,766	39.09	6.25	13.58	6.82	252							
FERGUSON																			
6680	SP 266A	42HZ	48"X66"	15 TON	125 HP	D	88,804	35.21	5.50	12.04	6.82	225							
6685	SP 75	30HZ	60"X84"	22.5 TON	85 HP	D	73,294	27.81	4.49	9.72	4.64	191							
6690	SP 75D	30HZ	60"X84"	22.5 TON	120 HP	D	77,704	31.64	4.76	10.32	6.55	193							
6695	SP 75DT	30HZ	TF 60"X84"	22.5 TON	120 HP	D	88,471	34.82	5.43	11.78	6.55	236							
INGERSOLL RAND																			
6705	SPF-56	30HZ	TF 56"X84"	21 TON	115 HP	D	93,994	36.09	5.77	12.53	6.28	222							
6710	SP-60DD	25HZ	60"X100"	30 TON	203 HP	D	138,396	55.60	8.47	18.32	11.08	377							
RAYGO																			
6720	RASCAL 220A	30HZ	TF38"X48"	6 TON	70 HP	D	56,861	21.84	3.52	7.67	3.82	97							
6725	RASCAL 303A	38HZ	48"X66"	8 TON	70 HP	D	57,122	21.93	3.52	7.66	3.82	137							
6730	RASCAL 320A	25HZ	TF48"X60"	8 TON	80 HP	D	75,859	28.17	4.69	10.22	4.37	151							
6735	RASCAL 320S	25HZ	48"X60"	8 TON	80 HP	D	65,733	25.19	4.05	8.82	4.37	144							
6740	RUSTLER 304A	28HZ	48"X66"	8 TON	70 HP	D	64,313	24.11	3.92	8.43	3.82	130							
6745	RUSTLER 404B	28HZ	59"X84"	13.5TON	88 HP	D	85,895	31.73	5.27	11.45	4.80	175							

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT								
			CONDITION		STAND-BY	OWNER-SHIP	FUEL	SEVERE COND.									
			AVERAGE	SEVERE													
ROLLER, VIBRATORY, SD, S/P (CONT'D)																	
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS																	
RAYGO (CONT'D)																	
6750	RASCAL 420C 25HZ TF60"X84" 16 TON 119 HP D	99,556	38.02		6.12	13.30	6.50		225								
6755	RASCAL 4000 25HZ 60"X84" 20 TON 125 HP D	80,041	32.69		4.91	10.64	6.82		224								
6760	RASCAL 510A 25HZ 60"X80"22.5TON 119 HP D	116,747	43.10		7.17	15.58	6.50		358								
6765	RASCAL 600A 25HZ 60"X100"22.5TON 119 HP D	101,548	38.62		6.23	13.52	6.50		316								
6770	RASCAL 450A 28HZ 59"X84"28.5TON 125 HP D	87,352	34.88		5.33	11.52	6.82		263								
TAMPO																	
6780	RS-16A 26HZ 48"X24" 7.5TON 68 HP D	66,040	24.47		4.02	8.66	3.71		124								
6785	RS-16 26HZ 48"X24" 8 TON 68 HP D	58,310	22.13		3.59	7.82	3.71		115								
6790	RS-16D 26HZ 48"X24" 8 TON 80 HP D	68,234	25.93		4.21	9.17	4.37		123								
6795	RH-16A 26HZ 48"X24" 9 TON 75 HP D	75,070	27.63		4.58	9.88	4.09		153								
6800	RP-16D 26HZ TF 48"X24" 9 TON 80 HP D	74,407	27.75		4.59	10.00	4.37		127								
6805	RP-28D 25HZ TF 63"X84" 15 TON 110 HP D	98,237	36.98		6.04	13.11	6.00		212								
6810	RS-28C 25HZ 60"X84" 15 TON 107 HP D	81,914	31.94		5.03	10.89	5.84		202								
6815	RS-28D 25HZ 60"X84" 15 TON 107 HP D	88,467	33.88		5.43	11.78	5.84		208								
6820	RH-28D 28HZ 60"X84"22.5TON 110 HP D	112,270	41.11		6.90	15.00	6.00		259								
ROLLER,VIB,DOUBLE DRUM,SELF-PROPELLED																	
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS																	
DYNAPAC																	
6830	LR-50 60HZ TANDEM 2 TON 16 HP D	11,583	4.57		0.72	1.57	0.87		25								
6835	CC-10 50HZ TANDEM 2 TON 34 HP D	30,464	11.44		1.89	4.13	1.86		50								
6840	CC-21 50HZ TANDEM 4 TON 71 HP D	72,022	26.38		4.47	9.77	3.88		137								
6845	CC-42II 42HZ TANDEM 12 TON 125 HP D	96,857	37.60		6.01	13.14	6.82		200								
6850	CC-50A 40HZ TANDEM 18 TON 155 HP D	116,684	45.62		7.24	15.83	8.46		310								

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT								
			CONDITION		STAND-BY	AVERAGE COND. OWNER-SHIP	SEVERE COND. OWNER-SHIP	FUEL									
			AVERAGE	SEVERE													
ROLLER, VIBRATORY, DD, S/P (CONT'D)																	
***** TF=ROLLER W/TAMPING FEET VIBRATION FREQUENCY IN HERTZ DYNAMIC FORCE SHOWN IN TONS																	
DYNAPAC (CONT'D)																	
6855	CC-50S	28HZ	TANDEM	22 TON	181 HP	D	140,796	54.60	8.73	19.09	9.88	342					
6860	CC-50PD	28HZ	TF TANDEM	22 TON	181 HP	D	163,425	61.28	10.13	22.16	9.88	419					
RAYGO																	
6870	REBEL	1-36	40HZ TANDEM	2 TON	16 HP	D	11,090	4.43	0.69	1.51	0.87	23					
6875	ROMPER	2-36	40HZ TANDEM	4 TON	35 HP	D	25,372	10.01	1.57	3.44	1.91	40					
6880	RUSTLER	5604A	50HZ TANDEM	5.5TON	70 HP	D	66,216	24.59	4.11	8.98	3.82	132					
6885	RUSTLER	7204A	38HZ TANDEM	8 TON	115 HP	D	88,552	34.42	5.48	12.00	6.28	250					
6890	RANGER	2-66	38HZ TANDEM	8 TON	119 HP	D	117,457	43.25	7.28	15.93	6.50	215					
TAMPO																	
6900	RS-03	60HZ	36"X24"	2 TON	14 HP	G	11,418	5.11	0.71	1.55	1.32	23					
6905	RS-144A	50HZ	42"X48"	8 TON	52 HP	D	58,937	21.16	3.66	8.00	2.84	100					
6910	RS-166A	36HZ	48"X66"	16 TON	80 HP	D	88,282	31.83	5.47	11.97	4.37	200					
6915	RS-188A	36HZ	60"X84"	30 TON	156 HP	D	111,452	44.15	6.91	15.11	8.52	320					
6920	RH-199	25HZ	60"X96"	45 TON	262 HP	D	196,689	76.94	12.19	26.67	14.30	491					
SCRAPERS, SELF-PROPELLED																	
***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)																	
CATERPILLAR																	
6930	613-B	13 T	11 CY	P.S.	150 HP	D	129,217	37.21	48.17	7.09	14.20	6.03	16.67	7.88	307		
6935	615	19 T	14-16 CY	P.S.	250 HP	D	214,276	60.09	78.44	11.70	24.10	10.04	28.41	13.13	525		
6940	621-B	24 T	14-20 CY	P.S.	330 HP	D	270,912	72.90	95.06	14.83	30.65	11.90	36.14	15.64	662		
6945	623-B	25 T	22 CY	P.S.	330 HP	D	301,014	82.74	107.66	16.48	34.07	13.26	40.18	17.33	720		
6950	627-B	24 T	14-20 CY	P.S.	225/225 HP	D/D	310,384	90.77	119.20	17.05	35.36	17.15	41.73	22.25	733		
6955	627-B PP	24 T	14-20 CY	P.S.	225/225 HP	D/D	329,537	94.62	123.99	18.14	37.66	17.15	44.44	22.25	776		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.						
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP					
SCRAPERS, SELF-PROPELLED (CONT'D)													
(CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)													
CATERPILLAR (CONT'D)													
6960	631-D 37.5T 21-31 CY P.S. 450 HP D	414,670	108.74	141.66	22.72	46.98	16.22	55.41	21.32	934			
6965	633-D 37.5T 34 CY P.S. 450 HP D	472,357	125.19	162.20	25.98	53.89	18.08	63.58	23.64	1042			
6970	637-D 37.5T 21-31 CY P.S. 450/250 HP D/D	508,920	145.97	191.04	28.04	58.26	26.68	68.75	34.61	1053			
6975	637-D PP 37.5T 21-31 CY P.S. 450/250 HP D/D	530,881	150.37	196.55	29.27	60.88	26.68	71.86	34.61	1077			
6980	639-D 37.5T 24-34 CY P.S. 450/250 HP D/D	584,814	163.67	214.87	32.16	66.71	26.68	78.71	34.61	1223			
6985	651-E 52 T 32-44 CY P.S. 550 HP D	542,875	140.83	183.64	29.72	61.39	19.83	72.39	26.06	1308			
6990	657-E 52 T 32-44 CY P.S. 550/400 HP D/D	662,096	192.34	252.10	36.43	75.64	36.20	89.26	46.97	1516			
FIAT-ALLIS													
7005	161 18.7 T 15 CY P.S. 229 HP D	183,981	51.89	67.46	10.09	20.87	9.20	24.62	12.03	466			
7010	260B 25.0 T 15-21 CY P.S. 325 HP D	243,230	66.95	87.40	13.30	27.46	11.72	32.38	15.40	585			
7015	261B 26.5 T 23 CY P.S. 325 HP D	273,038	75.84	98.33	15.00	31.12	13.06	36.73	17.07	635			
7020	262B 25.0 T 15-21 CY P.S. 325/171 HP D/D	293,546	88.70	116.10	16.17	33.58	18.90	39.63	24.52	679			
7025	263-B 26.5 T 23 CY P.S. 325/171 HP D/D	350,087	100.48	131.14	19.32	40.22	18.90	47.48	24.52	742			
INTERNATIONAL													
7035	412B 13 T 11 CY P.S. 125 HP D	133,374	36.44	46.99	7.35	14.78	5.02	17.37	6.57	335			
7040	431B 24 T 14-21 CY P.S. 326 HP D	259,813	70.54	92.12	14.21	29.32	11.75	34.57	15.45	609			
7045	433B 24 T 14-21 CY P.S. 326/185 HP D/D	304,712	92.56	121.57	16.74	34.69	19.47	40.92	25.26	700			
7050	442B 25 T 22 CY P.S. 326 HP D	290,411	79.96	103.87	15.93	32.98	13.10	38.90	17.12	680			
JOHN DEERE													
7060	JD762A 13.7 T 11 CY P.S. 175 HP D	136,613	39.92	51.50	7.53	15.15	7.03	17.81	9.19	355			
7065	JD862 20.0 T 16 CY P.S. 250 HP D	185,071	53.22	69.18	10.15	21.00	10.04	24.77	13.13	492			

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION	AVERAGE	SEVERE	STAND-BY	OWNER-SHIP	FUEL	OWNER-SHIP	
	SCRAPERS, SELF-PROPELLED (CONT'D) ***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT)									
	TEREX (GM)									
7075	S-23E 26.5T 23 CY P.S. 310 HP D	266,078	74.22	96.67	14.56	30.07	12.45	35.46	16.28	660
7080	S-24B 40.8T 24-34 CY P.S. 475 HP D	422,610	112.50	147.13	23.07	47.53	17.12	56.04	22.51	955
7085	TS-14B 23.5T 14-20 CY P.S. 144/144 HP D/D	272,085	74.43	97.79	14.95	31.01	10.98	36.58	14.24	544
7090	TS-24 40 T 24-32 CY P.S. 394/225 HP D/D	459,744	131.91	173.12	25.28	52.45	23.59	61.88	30.60	960
7095	TS-24B 40.8T 24-34 CY P.S. 475/242 HP D/D	541,016	154.77	203.19	29.74	61.70	27.32	72.80	35.45	1084
	SCRAPER, TRACTOR DRAWN *****									
	ROME									
7110	R67H 18T 12-17CY HYDR/CONTROL	78,184	14.54	17.53	3.98	7.44	0.00	8.41	0.00	235
7115	R89H 27T 18-26CY HYDR/CONTROL	102,808	19.41	23.49	5.16	9.52	0.00	10.74	0.00	365
	SOUTHWEST-HUME									
7125	SOUTHWEST DS18 DRAG SCRAPER 8.8 CY	40,071	7.50	9.06	2.02	3.74	0.00	4.22	0.00	137
	SOIL STABILIZER *****									
	BOMAG									
7135	MOD MPH-50 12"DEEP BY 82"WIDE 152 HP D	98,972	29.09	37.92	5.53	11.27	6.11	13.25	7.98	208
7140	MOD MPH-100 14.5"DEEP X 79"WIDE 304 HP D	159,164	50.34	65.98	8.85	17.96	12.21	21.13	15.97	300
	BROS									
7150	MOD LSPRM-8A MASTER MIXER 19" DP 335 HP D	144,762	47.76	61.91	8.12	16.61	13.46	19.55	17.60	300

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT
			CONDITION		STAND-BY	AVERAGE	COND.	SEVERE	COND.	
			AVERAGE	SEVERE		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL	
	TRACTOR, CRAWLER (DOZER)									
	CATERPILLAR									
7160	D-3B P.S.	65 HP D	39,743	13.42	17.28	2.24	4.47	2.74	5.24	3.62
7165	3P POWER ANGLE & POWER TILT		9,348	2.06	2.62	0.53	1.09	0.00	1.28	0.00
7170	D-4E P.S.	80 HP D	57,975	18.74	24.09	3.27	6.52	3.38	7.65	4.45
7175	4A ANGLE BLADE HYDRAULIC		11,103	2.43	3.09	0.62	1.29	0.00	1.52	0.00
7180	4S STRAIGHT BLADE HYDRAULIC		8,750	1.94	2.45	0.50	1.02	0.00	1.19	0.00
7185	D-5B P.S.	105 HP D	88,931	27.73	35.62	5.01	10.00	4.43	11.73	5.84
7190	5A ANGLE BLADE HYDRAULIC		14,775	3.21	4.10	0.84	1.72	0.00	2.03	0.00
7195	5S STRAIGHT BLADE HYDRAULIC		11,758	2.57	3.27	0.67	1.37	0.00	1.61	0.00
7200	WINCH (W/O CABLE)		16,109	3.50	4.46	0.91	1.88	0.00	2.21	0.00
7205	D-6D P.S.	140 HP D	124,129	38.32	49.21	6.99	13.96	5.91	16.37	7.79
7210	6S STRAIGHT BLADE HYDRAULIC		15,517	3.36	4.30	0.87	1.80	0.00	2.13	0.00
7215	6A ANGLE BLADE HYDRAULIC		17,366	3.76	4.78	0.98	2.02	0.00	2.37	0.00
7220	WINCH (W/O CABLE)		17,542	3.80	4.84	0.99	2.04	0.00	2.40	0.00
7225	D-7G P.S.	200 HP D	173,130	53.72	68.98	9.74	19.47	8.45	22.83	11.12
7230	7S STRAIGHT BLADE HYDRAULIC		23,040	4.96	6.34	1.30	2.68	0.00	3.16	0.00
7235	7U HYD. UNIVERSAL BLADE		25,227	5.43	6.93	1.43	2.94	0.00	3.46	0.00
7240	7A ANGLE BLADE HYDRAULIC		20,054	4.33	5.52	1.13	2.33	0.00	2.74	0.00
7245	WINCH (W/O CABLE)		20,383	4.42	5.64	1.15	2.37	0.00	2.80	0.00
7250	D-8L P.S.	335 HP D	265,605	77.56	99.92	14.96	30.88	14.15	36.39	18.63
7255	8S STRAIGHT BLADE HYDRAULIC		33,871	7.30	9.31	1.91	3.94	0.00	4.64	0.00
7260	8U HYD. UNIVERSAL BLADE		37,311	8.04	10.26	2.11	4.34	0.00	5.11	0.00
7265	8A ANGLE BLADE HYDRAULIC		33,692	7.26	9.28	1.89	3.91	0.00	4.62	0.00
7270	PUSH PLATE USE W/BS		999	0.27	0.32	0.06	0.12	0.00	0.14	0.00
7275	WINCH (W/O CABLE)		26,432	5.75	7.32	1.49	3.07	0.00	3.62	0.00
7280	D-9L P.S.	460 HP D	354,532	93.22	116.67	18.53	37.35	19.43	42.57	25.59
7285	9S STRAIGHT BLADE HYDRAULIC		46,441	10.02	12.78	2.62	5.40	0.00	6.36	0.00
7290	9U HYD. UNIVERSAL BLADE		49,079	10.58	13.51	2.76	5.70	0.00	6.72	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 (DOZER) (CONT'D)														
CATERPILLAR (CONT'D)														
7295	9C CUSHION BLADE	40,894	8.83	11.27	2.31	4.76	0.00	5.61	0.00	160				
7300	REAR CUSHION PUSH BLOCK	12,036	2.67	3.39	0.68	1.40	0.00	1.65	0.00	41				
7305	FRONT PUSH PLATE	1,350	0.37	0.44	0.08	0.16	0.00	0.18	0.00	9				
7310	WINCH (W/O CABLE)	28,645	6.27	7.97	1.61	3.33	0.00	3.92	0.00	51				
7315	D-10 P.S. 700 HP D	595,290	152.72	190.89	31.12	62.72	29.56	71.48	38.93	1539				
7320	10S STRAIGHT BLADE HYDRAULIC	70,096	15.13	19.30	3.95	8.15	0.00	9.60	0.00	280				
7325	10U HYD. UNIVERSAL BLADE	76,874	16.57	21.15	4.33	8.93	0.00	10.53	0.00	286				
7330	FRONT PUSH PLATE	1,534	0.41	0.50	0.09	0.18	0.00	0.21	0.00	8				
7335	10C CUSHION BLADE	52,180	11.26	14.37	2.94	6.07	0.00	7.15	0.00	198				
FIAT-ALLIS														
7345	FD5 P.S. W/HYD. ANGLE TILT BLADE 63 HP D	48,803	15.53	19.95	2.75	5.49	2.66	6.44	3.50	140				
7350	FD7 P.S. W/POW. ANGLE TILT BLADE 78 HP D	57,490	18.51	23.79	3.24	6.47	3.29	7.58	4.34	175				
7355	8-B P.S. 88 HP D	61,452	20.05	25.77	3.46	6.91	3.72	8.10	4.89	215				
7360	8-HA ANGLE BLADE HYDRAULIC	9,510	2.10	2.66	0.54	1.11	0.00	1.30	0.00	30				
7365	8-HSU SEMI-U BLADE HYDRAULIC	9,497	2.07	2.63	0.54	1.11	0.00	1.30	0.00	30				
7370	10-C P.S. 122 HP D	84,639	27.65	35.56	4.77	9.52	5.15	11.16	6.79	280				
7375	10-HA ANGLE BLADE HYDRAULIC	10,613	2.33	2.96	0.60	1.24	0.00	1.45	0.00	36				
7380	10-HSU SEMI-U BLADE HYDRAULIC	12,925	2.79	3.56	0.73	1.50	0.00	1.77	0.00	38				
7385	14-C P.S. 150 HP D	109,405	35.29	45.38	6.16	12.30	6.33	14.43	8.34	335				
7390	14-HA ANGLE BLADE HYDRAULIC	16,208	3.52	4.48	0.92	1.89	0.00	2.22	0.00	51				
7395	14-HSU SEMI-U BLADE HYDRAULIC	16,183	3.48	4.45	0.91	1.88	0.00	2.22	0.00	51				
7400	FD 20 P.S. 223 HP D	165,085	53.06	68.23	9.28	18.55	9.42	21.77	12.40	535				
7405	20-HA ANGLE BLADE HYDRAULIC	17,375	3.76	4.80	0.98	2.02	0.00	2.38	0.00	66				
7410	20-HS STRAIGHT BLADE HYDRAULIC	18,212	3.94	5.03	1.03	2.12	0.00	2.50	0.00	66				
7415	20-HSU SEMI-U BLADE HYDRAULIC	24,612	5.26	6.73	1.38	2.86	0.00	3.37	0.00	70				
7420	FD 30 P.S. 300 HP D	252,977	72.84	93.81	14.25	29.41	12.67	34.66	16.69	775				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES		ADJUSTABLE ELEMENTS				CWT								
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.										
			AVERAGE	SEVERE													
TRACTOR, CRAWLER (DOZER) (CONT'D)																	
FIAT-ALLIS (CONT'D)																	
7425	30HSU	HYD. SEMI-UNIVERSAL BLADE	34,452	7.41	9.47	1.94	4.00	0.00	4.72	0.00	127						
7430	30-HU	FULL-U BLADE HYDRAULIC	34,812	7.47	9.55	1.96	4.04	0.00	4.77	0.00	114						
7435	FD40	P.S. 455 HP D	364,856	94.96	118.79	19.08	38.44	19.21	43.81	25.31	1128						
7440	40-HSU	SEMI-U BLADE HYDRAULIC	52,405	11.32	14.44	2.95	6.09	0.00	7.17	0.00	222						
7445	40-HU	FULL-U BLADE HYDRAULIC	53,520	11.59	14.79	3.01	6.22	0.00	7.34	0.00	254						
7450	40-HC	CUSHION BLADE	33,283	7.17	9.15	1.88	3.87	0.00	4.56	0.00	120						
7455	FD 50	P.S. 525 HP D	489,613	122.96	153.51	25.60	51.59	22.17	58.79	29.20	1280						
7460	50-HSU	SEMI-U BLADE HYDRAULIC	59,922	12.96	16.53	3.38	6.97	0.00	8.21	0.00	250						
7465	50-HU	FULL-U BLADE HYDRAULIC	68,536	14.77	18.85	3.86	7.97	0.00	9.39	0.00	280						
7470	50-HC	CUSHION BLADE	38,330	8.23	10.52	2.16	4.45	0.00	5.25	0.00	140						
INTERNATIONAL																	
7480	TD-7-E	P.S. W/HYD BLADE	65 HP D	51,311	16.24	20.88	2.89	5.77	2.74	6.76	3.62	139					
7485	TD-8-E	P.S. W/HYD BLADE	78 HP D	65,486	20.45	26.28	3.69	7.36	3.29	8.64	4.34	172					
7490	TD-12	P.S. W/HYD BLADE	110 HP D	94,891	29.46	37.84	5.34	10.67	4.65	12.51	6.12	257					
7495	TD-15-C	P.S. 140 HP D		120,688	37.47	48.14	6.79	13.57	5.91	15.92	7.79	271					
7500	15D-2	HYD. SEMI-UNIVERSAL BLADE		13,263	2.86	3.64	0.75	1.54	0.00	1.81	0.00	46					
7505	15G-2	ANGLE BLADE HYDRAULIC		14,937	3.21	4.10	0.84	1.73	0.00	2.04	0.00	50					
7510	TD-20-E	P.S. 210 HP D		185,659	57.34	73.64	10.45	20.87	8.87	24.48	11.68	476					
7515	20D-2	HYD. SEMI-UNIVERSAL BLADE		23,274	4.99	6.36	1.32	2.71	0.00	3.18	0.00	61					
7520	20G-2	ANGLE BLADE HYDRAULIC		16,005	3.44	4.39	0.90	1.86	0.00	2.19	0.00	71					
7525	TD-25-E	P.S. 310 HP D		238,579	70.16	90.39	13.44	27.74	13.09	32.68	17.24	700					
7530	25D-2	HYD. SEMI-UNIVERSAL BLADE		29,021	6.24	7.98	1.63	3.37	0.00	3.98	0.00	113					
7535	25G-2	ANGLE BLADE HYDRAULIC		24,171	5.24	6.68	1.36	2.81	0.00	3.31	0.00	115					
7540	FRONT PUSHER CUSHION			9,973	2.19	2.79	0.56	1.16	0.00	1.37	0.00	29					
7545	REAR PUSHER CUSHION			5,853	1.37	1.72	0.33	0.68	0.00	0.80	0.00	23					
7550	FRONT PUSH BLK FOR S/BLD			994	0.30	0.35	0.06	0.12	0.00	0.14	0.00	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		OWNER-SHIP	FUEL	OWNER-SHIP	FUEL					
TRACTOR, CRAWLER (DOZER) (CONT'D)														
JOHN DEERE														
7560	JD350C/6305	D.D. W/HYD BLADE	42 HP D	36,324	11.26	14.48	2.04	4.08	1.77	4.79	2.34	107		
7565	JD450C/6405	D.D. W/HYD BLADE	65 HP D	50,045	15.94	20.49	2.82	5.63	2.74	6.60	3.62	143		
7570	JD550A/6405	P.S. W/HYD BLADE	72 HP D	59,825	18.71	24.05	3.36	6.72	3.04	7.89	4.00	156		
7575	JD750 LPG	H.S. W/STR BLADE	110 HP D	113,674	34.04	43.69	6.40	12.78	4.65	14.99	6.12	336		
7580	JD850 LPG	H.S. W/STR BLADE	145 HP D	149,916	44.89	57.60	8.44	16.86	6.12	19.77	8.06	449		
KOMATSU														
7590	D31A-17	H.S.	66 HP D	42,013	14.04	18.06	2.37	4.73	2.79	5.54	3.67	132		
7595	ANGLE TILTDOZER BLADE			6,793	1.49	1.89	0.39	0.79	0.00	0.93	0.00	20		
7600	D45A-1	H.S.	90 HP D	63,060	20.55	26.42	3.55	7.09	3.80	8.31	5.01	200		
7605	ANGLE TILTDOZER BLADE			7,397	1.62	2.05	0.42	0.86	0.00	1.01	0.00	24		
7610	D53A-16A	H.S.	118 HP D	91,431	29.07	37.37	5.14	10.28	4.98	12.06	6.55	246		
7615	ANGLE TILTDOZER BLADE			8,264	1.80	2.30	0.47	0.96	0.00	1.14	0.00	42		
7620	D65E-7	H.S.	165 HP D	128,826	40.89	52.56	7.24	14.48	6.97	16.99	9.18	377		
7625	ANGLE TILTDOZER BLADE			10,850	2.35	2.99	0.61	1.26	0.00	1.48	0.00	61		
7630	D85E-18	H.S.	220 HP D	170,272	54.15	69.62	9.58	19.14	9.29	22.45	12.24	437		
7635	ANGLE TILTDOZER BLADE			17,015	3.69	4.70	0.96	1.98	0.00	2.33	0.00	99		
7640	U-DOZER BLADE			18,139	3.94	5.02	1.02	2.11	0.00	2.48	0.00	104		
7645	D155A-1	H.S.	320 HP D	232,994	69.44	89.50	13.13	27.09	13.51	31.92	17.80	690		
7650	ANGLE TILTDOZER BLADE			23,392	5.10	6.49	1.32	2.72	0.00	3.21	0.00	140		
7655	U-DOZER BLADE			24,649	5.37	6.82	1.39	2.87	0.00	3.37	0.00	142		
7660	D355A-3	H.S.	410 HP D	310,734	91.70	118.18	17.50	36.12	17.31	42.57	22.80	945		
7665	U-DOZER BLADE			31,853	6.96	8.84	1.80	3.71	0.00	4.36	0.00	195		
7670	STRAIGHT DOZER BLADE			29,056	6.34	8.07	1.64	3.38	0.00	3.98	0.00	184		
7675	D455A-1	H.S.	620 HP D	549,406	139.59	174.39	28.72	57.89	26.18	65.97	34.48	1445		
7680	FULL U-DOZER BLADE			74,296	15.98	20.41	4.19	8.64	0.00	10.18	0.00	223		
7685	U-DOZER BLADE			69,787	15.00	19.15	3.94	8.12	0.00	9.56	0.00	211		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT				
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL OWNERSHIP					
			AVERAGE	SEVERE		OWNERSHIP	FUEL	OWNERSHIP	FUEL					
TRACTOR, CRAWLER (DOZER) (CONT'D)														
KOMATSU (CONT'D)														
7690	STRAIGHT DOZER BLADE	65,275	14.02	17.91	3.68	7.59	0.00	8.94	0.00	193				
TEREX (GM)														
7700	D700A P.S. (W/O BLADE) 205 HP D	165,245	52.08	66.91	9.30	18.58	8.66	21.79	11.40	409				
7705	SEMI-U BLADE HYDRAULIC	16,467	3.54	4.51	0.93	1.92	0.00	2.25	0.00	58				
7710	ANGLE BLADE HYDRAULIC	18,480	3.97	5.07	1.04	2.15	0.00	2.54	0.00	69				
7715	FULL-U BLADE HYDRAULIC	18,894	4.06	5.18	1.07	2.20	0.00	2.59	0.00	68				
7720	D750 P.S. (W/O BLADE) 260 HP D	192,423	57.12	73.61	10.84	22.37	10.98	26.36	14.46	555				
7725	SEMI-U BLADE HYDRAULIC	23,368	5.00	6.39	1.32	2.72	0.00	3.20	0.00	91				
7730	ANGLE BLADE HYD. W/DUAL TILT	30,641	6.54	8.37	1.72	3.56	0.00	4.20	0.00	113				
7735	FULL-U BLADE HYDRAULIC	25,580	5.47	7.00	1.44	2.97	0.00	3.51	0.00	107				
7740	D800 P.S. (W/O BLADE) 350 HP D	256,779	76.39	98.46	14.46	29.85	14.78	35.18	19.47	787				
7745	SEMI-U BLADE HYDRAULIC	30,523	6.59	8.40	1.72	3.55	0.00	4.18	0.00	118				
7750	FULL-U BLADE HYDRAULIC	33,458	7.22	9.21	1.89	3.89	0.00	4.58	0.00	129				
7755	CUSHIONED PUSH BLADE	29,242	6.31	8.05	1.65	3.40	0.00	4.01	0.00	113				
7760	PUSH PLATE (WELD ON)	1,246	0.32	0.39	0.08	0.15	0.00	0.17	0.00	6				
7765	PUSH BLOCK (CUSHION REAR)	7,743	1.75	2.21	0.44	0.90	0.00	1.06	0.00	21				
TRACTOR, WHEEL TYPE (DOZER)														
CATERPILLAR														
7775	814-B ARTICULATED ST BLADE P.S. 210 HP D	164,051	43.60	57.44	9.08	18.27	8.22	21.45	10.81	465				
7780	824-C ARTICULATED ST BLADE P.S. 310 HP D	236,566	64.97	87.94	12.91	25.65	12.13	30.08	15.96	624				
7785	834-B ARTICULATED ST BLADE P.S. 450 HP D	350,476	93.22	124.75	19.04	37.68	17.61	44.17	23.17	892				
CLARK														
7795	280B ARTICULATED ST BLADE P.S. 302 HP D	268,381	71.19	96.41	14.65	29.11	11.82	34.13	15.55	749				
7800	380B ARTICULATED ST BLADE P.S. 572 HP D	454,350	120.02	160.09	24.75	49.07	22.39	57.53	29.46	1253				

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.												
			AVERAGE	SEVERE															
TRACTOR, WHEEL TYPE (FARM)																			
JOHN DEERE																			
7810	MOD 301 A	43 HP D	14,737	5.11	6.72	0.82	1.64	1.68	1.92	2.21									
7815	MOD 401 B	62 HP D	18,743	6.85	8.96	1.04	2.09	2.43	2.46	3.19									
TRENCHER, CHAIN																			
DITCH WITCH																			
7825	MOD C99	6"X24" TRENCH	9 HP G	3,437	1.59	2.04	0.20	0.39	0.62	0.45									
7830	MOD 2200	8"X36" TRENCH	18 HP G	14,032	4.78	6.16	0.78	1.60	1.24	1.89									
7835	MOD 2300	10"X36" TRENCH	28 HP G	19,441	6.88	8.87	1.09	2.22	1.92	2.61									
7840	MOD 6510	12"X54" TRENCH	64 HP D	35,882	11.38	14.74	2.00	4.07	2.50	4.79									
7845	MOD R100	10"X72" TRENCH	105 HP D	73,093	21.92	28.29	4.09	8.33	4.11	9.79									
VERMEER																			
7860	MOD V-430	10"X40" TRENCH	24 HP D	23,802	6.61	8.53	1.34	2.73	0.94	3.21									
7865	MOD M-455	18"X72" TRENCH	44 HP D	46,845	12.87	16.59	2.62	5.34	1.72	6.27									
7870	MOD M-475	18"X72" TRENCH	55 HP D	51,762	14.53	18.74	2.90	5.91	2.15	6.95									
7875	MOD T-600024"X96" TRENCH	113 HP D	82,407	24.33	31.36	4.65	9.55	4.42	11.24	5.82									
7880	MOD T-800B36"X96" TRENCH	175 HP D	161,085	45.25	58.27	9.07	18.65	6.85	21.97	9.01									
TRENCHER, WHEEL TYPE																			
BARBER-GREENE																			
7890	MOD TA 56	16"X5'-10" TRENCH	100 HP D	133,037	35.14	45.18	7.49	15.40	3.91	18.14									
7895	MOD TA 65	28"X7'-6" TRENCH	160 HP D	193,832	51.92	66.79	10.92	22.45	6.26	26.44									
7900	MOD TA 77	32"X8'-6" TRENCH	160 HP D	246,616	63.86	82.11	13.88	28.55	6.26	33.64									
CLEVELAND																			
7910	MOD 236	17"X72" TRENCH	67 HP D	106,972	27.58	35.46	6.02	12.39	2.62	14.59									
7915	MOD 236HD	21"X72" TRENCH	67 HP D	116,494	29.74	38.22	6.56	13.49	2.62	15.89									
7920	MOD 246	25"X72" TRENCH	67 HP D	120,015	30.54	39.24	6.76	13.90	2.62	16.37									

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	OWNERSHIP	FUEL	OWNERSHIP		
	TRENCHER, WHEEL TYPE (CONT'D)										
	CLEVELAND (CONT'D)										
7925	MOD 350 30"X90" TRENCH	150 HP D	225,574	58.60	75.33	12.70	26.12	5.87	30.77	7.72	455
7930	MOD 400WHD36"X114" TRENCH	175 HP D	280,094	72.22	92.80	15.78	32.44	6.85	38.20	9.01	659
	TRUCKS, HIGHWAY										
	(CHASSIS ONLY)										
	FORD										
7945	F150 4X2 1/2T PKUP	6100 GVW 137 HP G	8,641	5.48	7.09	0.59	1.35	2.14	1.56	2.85	38
7950	F150 4X4 1/2T PKUP	6250 GVW 137 HP G	10,691	6.15	7.95	0.75	1.69	2.14	1.95	2.85	42
7955	F250 4X2 3/4T PKUP	6900 GVW 137 HP G	9,502	5.78	7.46	0.66	1.48	2.14	1.71	2.85	40
7960	F250 4X4 3/4T PKUP	7400 GVW 137 HP G	11,165	6.32	8.18	0.77	1.74	2.14	2.03	2.85	44
7965	F350 2AX	10000 GVW 137 HP G	10,160	6.03	7.79	0.69	1.55	2.14	1.79	2.85	42
7970	F600 2AX	18500 GVW 154 HP G	17,698	11.55	15.16	1.05	2.16	5.61	2.67	7.21	65
7975	F600 2AX	18500 GVW 162 HP D	24,295	9.96	13.31	1.46	3.02	3.34	3.74	4.34	65
7980	F700 2AX	24500 GVW 177 HP G	20,399	13.24	17.40	1.22	2.51	6.44	3.11	8.28	65
7985	F700 2AX	24500 GVW 162 HP D	27,444	10.67	14.29	1.65	3.43	3.34	4.25	4.34	73
7990	F800 2AX	27000 GVW 177 HP G	22,486	13.75	18.10	1.34	2.76	6.44	3.43	8.28	72
7995	F800 2AX	27000 GVW 162 HP D	28,765	11.24	15.03	1.70	3.47	3.34	4.30	4.34	76
8000	LT800 3AX	43000 GVW 223 HP G	35,061	24.59	32.33	2.10	4.48	12.06	5.59	15.54	110
8005	LT8000 3AX	44800 GVW 175 HP D	47,904	18.68	25.05	2.88	6.16	5.41	7.68	7.03	125
8010	LTS8000 3AX	46000 GVW 175 HP D	50,126	19.21	25.77	3.02	6.45	5.41	8.04	7.03	130
8015	LNT8000 3AX	46000 GVW 175 HP D	47,402	18.57	24.89	2.85	6.07	5.41	7.57	7.03	124
8020	CT8000 3AX	46000 GVW 175 HP D	55,194	20.37	27.38	3.33	7.13	5.41	8.90	7.03	136
8025	LT9000 3AX 58000 GVW	82000 GCW 239 HP D	72,626	27.20	36.52	4.39	9.38	7.39	11.69	9.60	172
8030	LTS9000 3AX 60000 GVW	82000 GCW 239 HP D	77,132	28.30	38.00	4.66	9.95	7.39	12.40	9.60	180
8035	LNT9000 3AX 60000 GVW	82000 GCW 239 HP D	73,200	27.39	36.75	4.41	9.42	7.39	11.73	9.60	175
8040	CLT9000 3AX	82000 GCW 286 HP D	71,711	28.73	38.53	4.34	9.30	8.84	11.60	11.49	149

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				
TRUCKS, HIGHWAY (CONT'D)												
(CHASSIS ONLY)												
GMC AND CHEVROLET												
8050	C10903	4X2 1/2T PKUP	6100 GVW 165 HP G	8,704	6.06	7.88	0.60	1.36	2.57	1.57	3.43	46
8055	C10906	4X2 SUBURBAN	6800 GVW 165 HP G	11,176	6.84	8.86	0.78	1.77	2.57	2.04	3.43	52
8060	K10906	4X4 SUBURBAN	7000 GVW 165 HP G	12,289	7.19	9.32	0.85	1.94	2.57	2.24	3.43	56
8065	C20903	4X2 3/4T PKUP	8600 GVW 165 HP G	10,328	6.56	8.51	0.71	1.62	2.57	1.87	3.43	49
8070	K20903	4X4 3/4T PKUP	6600 GVW 165 HP G	11,995	7.13	9.21	0.84	1.90	2.57	2.19	3.43	54
8075	C30903	2AX	9000 GVW 160 HP G	11,662	6.95	9.01	0.79	1.79	2.50	2.08	3.33	62
8080	C5D042	2AX	18500 GVW 161 HP G	16,314	11.57	15.15	0.97	1.98	5.86	2.45	7.53	59
8085	C6D042	2AX	19200 GVW 161 HP G	17,700	11.83	15.58	1.05	2.16	5.86	2.67	7.53	63
8090	C6D042	2AX	23160 GVW 165 HP D	24,944	10.17	13.60	1.50	3.10	3.40	3.84	4.42	73
8095	C7D042	2AX	23160 GVW 179 HP G	18,882	13.04	17.10	1.12	2.29	6.52	2.84	8.38	78
8100	C7D042	2AX	29900 GVW 225 HP D	37,117	14.60	19.56	2.23	4.62	4.63	5.74	6.03	96
8105	C7D064	3AX	44860 GVW 207 HP G	33,734	23.27	30.60	2.00	4.23	11.19	5.27	14.42	123
8110	C7D064	3AX	44500 GVW 205 HP D	40,339	18.13	24.19	2.42	5.13	6.33	6.38	8.23	127
8115	J8C042	2AX	33200 GVW 235 HP D	45,903	20.44	27.30	2.78	5.95	7.26	7.42	9.44	107
8120	J8C064	3AX	48860 GVW 210 HP D	51,783	20.93	28.09	3.13	6.68	6.49	8.32	8.44	140
8125	J9C042	2AX	53911 GVW 230 HP D	50,900	17.98	24.14	3.07	6.35	4.74	7.87	6.16	122
8130	J9C064	3AX	48860 GVW 300 HP D	60,111	26.47	35.37	3.64	7.81	9.27	9.74	12.05	144
8135	N9E064	3AX	52000 GVW 307 HP D	62,153	27.40	36.54	3.74	7.97	9.49	9.92	12.33	141
8140	N9E064	3AX	62000 GVW 307 HP D	72,677	29.94	40.02	4.38	9.35	9.49	11.65	12.33	180
INTERNATIONAL												
8150	1654	2AX	16000 GVW 155 HP D	18,612	8.42	11.21	1.12	2.32	3.19	2.87	4.15	57
8155	1724	2AX	16000 GVW 147 HP G	16,737	10.94	14.35	1.01	2.08	5.35	2.58	6.88	65
8160	1754	2AX	16000 GVW 165 HP D	23,900	9.86	13.20	1.44	3.00	3.40	3.73	4.42	71
8165	1954	2AX	21700 GVW 180 HP D	30,248	11.77	15.75	1.83	3.80	3.71	4.70	4.82	100
8170	F2554	3AX	43000 GVW 210 HP D	48,040	20.11	26.90	2.89	6.17	6.49	7.69	8.44	123
8175	F2574	3AX	50000 GVW 230 HP D	63,196	24.40	32.76	3.83	8.22	7.11	10.26	9.24	123

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT	
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.				
			AVERAGE	SEVERE							
	TRUCKS, HIGHWAY (CONT'D)										
	(CHASSIS ONLY)										
	INTERNATIONAL (CONT'D)										
8180	F4370 3AX	48860 GVW 300 HP D	66,365	27.91	37.36	4.03	8.66	9.27	10.80	12.05	133
8185	F5050 3AX	54000 GVW 210 HP D	64,692	23.96	32.20	3.92	8.43	6.49	10.51	8.44	138
8190	F5070 3AX	54000 GVW 230 HP D	67,577	25.42	34.15	4.10	8.82	7.11	11.00	9.24	140
	KENWORTH										
8200	K100 3AX	48000 GVW 85000 GCW 300 HP D	71,010	29.07	38.93	4.31	9.25	9.27	11.54	12.05	138
8205	W900 3AX	48000 GVW 85000 GCW 300 HP D	71,562	29.20	39.10	4.34	9.33	9.27	11.63	12.05	140
8210	C500 3AX	56000 GVW 85000 GCW 270 HP D	76,888	29.24	39.26	4.67	10.05	8.34	12.53	10.85	144
	PETERBILT										
8220	MOD 348 3AX	50000 GVW 85000 GCW 245 HP D	78,657	28.90	38.88	4.76	10.21	7.57	12.73	9.84	121
8225	MOD 362 3AX	46000 GVW 85000 GCW 300 HP D	69,243	28.66	38.37	4.20	9.01	9.27	11.24	12.05	131
8230	MOD 359 3AX	46000 GVW 85000 GCW 300 HP D	66,836	28.10	37.61	4.05	8.68	9.27	10.84	12.05	134
8235	MOD 353 3AX	56000 GVW 130000 GCW 350 HP D	74,768	31.91	42.70	4.54	9.76	10.81	12.17	14.06	174
	TRUCK ACCESSORIES										
	(CHASSIS NOT INCLUDED)										
	CRANES, HYDRAULIC										
8245	5.3T@5' RAD	24000 GVW MIN	27,055	6.71		1.68	3.69	0.00			79
8250	8.0T@3' RAD	26500 GVW MIN	32,427	8.02		2.01	4.42	0.00			84
8255	12.5T@4' RAD	27000 GVW MIN	50,317	12.39		3.12	6.86	0.00			142
8260	13.5T@4' RAD	44000 GVW MIN	62,081	15.26		3.85	8.46	0.00			158
8265	15.0T@4' RAD	48000 GVW MIN	68,982	16.95		4.28	9.41	0.00			211
	DUMP BODY, REAR, W/HOIST										
8275	5CY 24000 TO 26000 GVW		6,545	1.69	2.28	0.40	0.89	0.00	1.11	0.00	26
8280	AIR GATE 8CY 27000 TO 30000 GVW		10,369	2.63	3.56	0.65	1.42	0.00	1.77	0.00	44
8285	AIR GATE 10CY 36000 AND UP GVW		10,489	2.65	3.60	0.65	1.43	0.00	1.79	0.00	45

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT	
			AVERAGE	SEVERE	STAND-BY	OWNER-SHIP	FUEL	OWNER-SHIP		
TRUCK ACCESSORIES (CONT'D) ***** (CHASIS NOT INCLUDED)										
8290	DUMP BODY, REAR, W/HOIST (CONT'D) AIR GATE 12CY 36000 AND UP GVW	10,642	2.69	3.66	0.66	1.45	0.00	1.82	0.00	46
	FLATBEDS W/CONT. SIDES									
8300	8'X9.5'	2,130	0.52			0.13	0.29	0.00		11
8305	8'X10.5'	2,203	0.54			0.14	0.30	0.00		12
8310	8'X12.5'	2,416	0.59			0.15	0.33	0.00		14
8315	8'X14.5'	2,865	0.70			0.18	0.39	0.00		16
8320	8'X16.5'	3,143	0.77			0.20	0.43	0.00		18
8325	FLATBED-HOIST	2,922	0.72			0.18	0.40	0.00		10
	HOISTS, ELECTRIC									
8335	1500LB@1.75'	2,452	0.63			0.15	0.33	0.00		4
8340	2400LB@3'	2,861	0.79			0.18	0.39	0.00		6
8345	5000LB@4'	7,895	2.01			0.49	1.07	0.00		15
8350	6000LB@6'	8,882	2.26			0.55	1.21	0.00		14
	TRANSIT MIXERS									
8360	7 CY 40000 - 50000 GVW RQD	27,918	6.95			1.73	3.81	0.00		63
8365	8 CY 50000 - 70000 GVW RQD	28,367	7.06			1.76	3.87	0.00		66
8370	8.5CY 55000 - 75000 GVW RQD	28,670	7.13			1.78	3.91	0.00		68
8375	9 CY 61000 - 80000 GVW RQD	29,117	7.24			1.80	3.97	0.00		73
	WATER TANKS									
8385	2000 GAL 23500-28000 GVW	12,495	3.05			0.78	1.71	0.00		35
8390	2500 GAL 25000-34950 GVW	13,182	3.22			0.82	1.80	0.00		39
8395	3000 GAL 29000-40000 GVW	14,032	3.42			0.87	1.91	0.00		44

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT			
			CONDITION	STAND-BY	AVERAGE COND.	SEVERE COND.	OWNERSHIP	FUEL				
TRUCK TRAILERS												

BOTTOM DUMP												
8405	18CY 27T	27,809	5.73	7.29	1.51	3.11	0.00	3.66	0.00	122		
8410	20CY 30T	32,950	6.72	8.58	1.80	3.72	0.00	4.39	0.00	140		
8415	30CY 30T	33,421	6.82	8.70	1.83	3.78	0.00	4.46	0.00	160		
8420	28CY 42T	39,742	8.16	10.37	2.16	4.44	0.00	5.23	0.00	180		
8425	20CY 35T OFF-HIGHWAY	46,602	9.43	12.04	2.56	5.31	0.00	6.27	0.00	175		
8430	32CY 55T OFF-HIGHWAY	97,320	20.05	25.49	5.25	10.71	0.00	12.61	0.00	365		
8435	43CY 70T OFF-HIGHWAY	107,863	22.28	28.32	5.80	11.80	0.00	13.89	0.00	445		
END DUMP												
8445	20CY 24T	36,769	7.47	9.54	2.02	4.18	0.00	4.94	0.00	146		
LOWBOY, RIGID NECK, DROP DECK												
8455	25 TON 2 AXLE	21,816	4.05		1.18	2.15	0.00			89		
8460	30 TON 2 AXLE	24,149	4.47		1.30	2.39	0.00			94		
8465	35 TON 2 AXLE	26,397	4.85		1.43	2.63	0.00			109		
8470	35 TON 3 AXLE	30,458	5.68		1.64	2.99	0.00			134		
8475	40 TON 3 AXLE	31,824	5.94		1.71	3.11	0.00			144		
8480	50 TON 3 AXLE	36,593	6.77		1.98	3.62	0.00			161		
8485	60 TON 3 AXLE	39,644	7.44		2.11	3.82	0.00			188		
8490	70 TON 3 AXLE	48,033	8.86		2.59	4.73	0.00			213		
8495	75 TON 3 AXLE	49,584	9.13		2.67	4.90	0.00			228		
8500	80 TON 4 AXLE	56,354	10.29		3.05	5.63	0.00			266		
8505	90 TON 4 AXLE	60,803	11.18		3.28	6.02	0.00			297		
8510	100 TON 4 AXLE	67,294	12.37		3.63	6.66	0.00			313		
8515	120 TON 4 AXLE	78,117	14.54		4.17	7.57	0.00			351		
8520	HELPER DOLLY 60 T TRAILER MAX	18,613	3.53		1.00	1.79	0.00			62		

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT					
			CONDITION	STAND-BY	AVERAGE	SEVERE	OWNER-SHIP	AVERAGE COND.	SEVERE COND.						
					AVERAGE	SEVERE	FUEL	OWNER-SHIP	FUEL						
TRUCK TRAILERS (CONT'D)															
PLATFORM TRAILERS															
8530	25 TON 2 AXLE	17,993	3.42		0.96	1.72	0.00			110					
PUP TRAILERS															
8540	8 CY LONG TONGUE	21,828	4.09		1.17	2.13	0.00			86					
8545	10CY LONG TONGUE	21,991	4.12		1.18	2.15	0.00			86					
TIILT TRAILERS															
8555	12 TON 2 AXLE	11,743	2.29		0.63	1.12	0.00			62					
8560	16 TON 2 AXLE	13,409	2.61		0.71	1.26	0.00			65					
8565	20 TON 2 AXLE	14,557	2.83		0.77	1.37	0.00			67					
WATER TANKER TRAILERS															
8575	4000 GAL	63 HP D	33,175	8.33		1.72	3.29	2.47		120					
8580	5000 GAL	63 HP D	35,222	8.74		1.81	3.41	2.47		150					
8585	6000 GAL	63 HP D	36,813	8.98		1.88	3.57	2.47		160					
TRUCKS, OFF-HIGHWAY															
CATERPILLAR															
8595	769-C 35T 22-30 CY	P.S. 450 HP D	290,990	67.81	87.36	14.92	29.40	11.12	33.43	14.37					
8600	773-B 50T 30-45 CY	P.S. 650 HP D	408,872	97.31	126.10	20.87	40.94	16.07	46.51	20.75					
8605	777 85T 47-67 CY	P.S. 870 HP D	570,101	132.14	171.04	28.86	56.11	21.51	63.70	27.78					
8610	768C PRIME MOVER TRACTOR	P.S. 450 HP D	257,072	62.17	80.39	13.15	25.84	11.12	29.37	14.37					
8615	772B PRIME MOVER TRACTOR	P.S. 650 HP D	384,184	95.22	124.76	19.44	37.81	16.07	42.93	20.75					
8620	776 PRIME MOVER TRACTOR	P.S. 870 HP D	504,389	122.74	160.55	25.24	48.50	21.51	54.98	27.78					
DJB															
(ARTICULATED FRAME)															
8630	D330B 33T 17-23 CY	P.S. 255 HP D	235,716	50.28	64.11	12.08	23.81	6.30	27.07	8.14					
8635	D350C 35T 20-26 CY	P.S. 260 HP D	256,752	55.75	71.93	13.02	25.36	6.43	28.81	8.30					

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS			CWT					
			CONDITION		STAND-BY	AVERAGE COND.	SEVERE COND.							
			AVERAGE	SEVERE		OWNER-SHIP	FUEL OWNER-SHIP							
TRUCKS, OFF-HIGHWAY (CONT'D)														
DJB (CONT'D)														
(ARTICULATED FRAME)														
8640	D550 55T 32-43 CY	P.S. 450 HP D	416,755	91.04	117.23	21.17	41.32	11.12	46.92	14.37	834			
EUCLID														
8650	R25-215FD 25T 14-19 CY	P.S. 214 HP D	196,477	41.62	53.17	10.06	19.81	5.29	22.52	6.83	404			
8655	R35-302TD 35T 22-30 CY	P.S. 450 HP D	310,439	71.07	91.37	15.94	31.46	11.12	35.77	14.37	623			
8660	R50-301LD 50T 31-41 CY	P.S. 608 HP D	408,595	95.87	124.25	20.86	40.91	15.03	46.49	19.41	836			
8665	R75-301ND 75T 46-69 CY	P.S. 646 HP D	546,009	119.84	154.78	27.70	53.98	15.97	61.28	20.63	1123			
8670	R85-306ND 85T 52-67 CY	P.S. 755 HP D	562,294	127.03	164.52	28.45	55.29	18.66	62.76	24.11	1227			
TEREX														
8685	33-03B 22T 15-18 CY	P.S. 215 HP D	174,838	38.69	49.68	8.98	17.73	5.31	20.16	6.86	400			
8690	33-05B 30T 19-23 CY	P.S. 321 HP D	253,601	56.72	73.00	13.01	25.64	7.94	29.14	10.25	525			
8695	33-07 40T 25-32 CY	P.S. 493 HP D	312,370	75.67	98.87	15.85	30.89	12.19	35.08	15.74	755			
8700	33-09 55T 34-44 CY	P.S. 624 HP D	420,836	100.47	131.17	21.37	41.67	15.43	47.32	19.92	992			
8705	33-11D 85T 51-65 CY	P.S. 840 HP D	620,384	139.51	180.09	31.49	61.40	20.76	69.72	26.82	1350			
8710	33-14 120T 65-88 CY	P.S. 1092 HP D	907,320	199.42	257.35	46.06	89.84	26.99	102.01	34.87	1950			
WABCO														
8720	HAULPAK35D 35T 23-29 CY	P.S. 420 HP D	308,255	69.70	89.62	15.82	31.22	10.38	35.50	13.41	630			
8725	HAULPAK50B 50T 31-40 CY	P.S. 576 HP D	439,219	99.91	129.17	22.46	44.13	14.24	50.15	18.39	792			
8730	HAULPAK60B 60T 34-48 CY	P.S. 642 HP D	471,513	109.49	142.36	24.01	46.99	15.87	53.38	20.50	900			
8735	75C 75T 44-57 CY	P.S. 679 HP D	534,587	118.50	152.80	27.16	53.01	16.78	60.19	21.68	950			
8740	85D 85T 47-67 CY	P.S. 818 HP D	597,950	135.05	174.54	30.32	59.04	20.22	67.03	26.12	1240			
8745	100 100T 47-77 CY	P.S. 1050 HP D	727,213	168.06	218.53	36.64	70.90	25.96	80.43	33.53	1606			

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

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

	TRACTOR DRAWN - KLEIN									
8755	KT-50 5000 GAL. CAT 613B P.S. 150 HP D	138,743	31.41	38.75	7.14	13.58	5.87	15.37	7.72	320
8760	KT-60 6000 GAL. CAT 621B P.S. 330 HP D	244,817	59.60	73.99	12.49	23.54	12.92	26.60	16.99	564
8765	KT-80 8000 GAL. CAT 631D P.S. 450 HP D	339,779	82.57	102.54	17.29	32.52	17.61	36.76	23.17	751
8770	KT-100 10000 GAL. CAT 631D P.S. 450 HP D	347,985	83.91	104.14	17.72	33.36	17.61	37.71	23.17	811
8775	KT-100 10000 GAL. CAT 651E P.S. 550 HP D	419,651	101.66	126.19	21.36	40.18	21.53	45.41	28.32	1001
8780	KT-120 12000 GAL. CAT 651E P.S. 550 HP D	425,923	102.68	127.42	21.69	40.82	21.53	46.14	28.32	1097
	TRACTOR DRAWN - SOUTHWEST									
8790	STT-60 6000 GAL. CAT 621B P.S. 330 HP D	245,323	59.68	74.09	12.51	23.59	12.92	26.66	16.99	594
8795	STT-80 8000 GAL. CAT 631D P.S. 450 HP D	335,890	81.53	101.77	17.08	32.12	17.61	36.30	23.17	811
8800	STT-100 10000 GAL. CAT 631D P.S. 450 HP D	340,405	82.67	102.66	17.32	32.58	17.61	36.83	23.17	840
8805	STT-120 12000 GAL. CAT 651E P.S. 550 HP D	435,614	104.27	129.32	22.20	41.81	21.53	47.26	28.32	1135
8810	STT-140 14000 GAL. CAT 651E P.S. 550 HP D	442,074	105.32	130.58	22.54	42.47	21.53	48.01	28.32	1170
	WAGONS, BOTTOM DUMP									

	CATERPILLAR-ATHEY									
8820	621B/PW621B 33T 22-25CY P.S. 330 HP D	266,290	65.78	85.54	13.55	26.48	12.92	30.07	16.99	579
8825	768C/PW768C 63T 42-48CY P.S. 450 HP D	392,190	95.24	123.63	19.84	38.57	17.61	43.78	23.17	935
8830	772B/PW772B 100T 60-67CY P.S. 650 HP D	625,055	150.18	196.14	31.53	61.08	25.44	69.30	33.47	1360
	EUCLID									
8840	B30-303TDT301W 30T 21-27CY P.S. 277 HP D	251,387	60.40	78.53	12.77	24.91	10.84	28.29	14.27	433
8845	B70-203LDT147W 70T 47-62CY P.S. 456 HP D	423,888	98.41	126.90	21.52	41.99	17.85	47.68	23.48	934

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

UNIT NO.	EQUIPMENT	VALUE	TOTAL HOURLY RATES			ADJUSTABLE ELEMENTS				CWT									
			CONDITION		STAND-BY	OWNER-SHIP	FUEL	OWNER-SHIP	FUEL										
			AVERAGE	SEVERE															
WAGONS, REAR DUMP *****																			
CATERPILLAR-ATHEY																			
8855	621B/PR621B 33T 22-26CY P.S. 330 HP D	275,512	67.31	87.44	14.03	27.45	12.92	31.18	16.99	630									
8860	631D/PR631D 40T 27-32CY P.S. 450 HP D	395,045	94.94	123.12	20.16	39.52	17.61	44.90	23.17	833									
WATER BLASTER *****																			
AMERICAN AERO																			
8870	WBD 90 10000 PSI @ 10 GPM W/2 NOZ 91 HP D TRAILER MOUNTED	34,611	20.41			2.47	5.87	5.25		42									
8875	WBDI50 10000 PSI @ 20 GPM W/2 NOZ 160 HP D TRAILER MOUNTED	52,457	32.59			3.75	8.92	9.23		70									
WATER TANKS *****																			
SKID MOUNTED																			
8885	WST-8 8000 GAL. SOUTHWEST	16,728	2.58			0.88	1.71	0.00		107									
8890	WST-10 10000 GAL. SOUTHWEST	19,466	3.00			1.02	1.99	0.00		122									
8895	WST-12 12000 GAL. SOUTHWEST	22,649	3.48			1.19	2.31	0.00		142									
PORTABLE (WITH WHEELS)																			
8905	EWT-8 8000 GAL. SOUTHWEST 8 HP G	29,815	5.35			1.54	2.95	0.55		130									
8910	EWT-10 10000 GAL. SOUTHWEST 8 HP G	33,916	5.98			1.76	3.37	0.55		170									
8915	EWT-12 12000 GAL. SOUTHWEST 8 HP G	37,587	6.54			1.95	3.74	0.55		185									
WELDERS *****																			
ELECTRIC DRIVE - AC 3 PHASE 60 HZ																			
8925	300 AMP SKID MTD 20 HP E	2,507	2.60			0.16	0.33	1.63		7									
8930	400 AMP SKID MTD 25 HP E	3,001	3.23			0.19	0.40	2.04		9									

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

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

GASOLINE ENGINE DRIVE												
8940	200 AMP W/1 AXLE TRLR	39 HP G	5,000	5.24		0.30	0.61	3.29	11			
8945	250 AMP W/1 AXLE TRLR	39 HP G	5,309	5.31		0.32	0.65	3.29	17			
8950	300 AMP W/1 AXLE TRLR	65 HP G	5,758	8.13		0.35	0.71	5.48	17			
8955	400 AMP W/1 AXLE TRLR	69 HP G	7,324	8.91		0.44	0.90	5.81	21			
DIESEL ENGINE DRIVE												
8965	250 AMP W/1 AXLE TRLR	27 HP D	6,863	3.21		0.41	0.84	1.31	21			
8970	300 AMP W/1 AXLE TRLR	38 HP D	7,326	3.93		0.44	0.90	1.84	21			
8975	350 AMP W/2 AXLE TRLR	38 HP D	8,252	4.21		0.50	1.01	1.84	25			
8980	400 AMP W/2 AXLE TRLR	64 HP D	8,952	5.93		0.54	1.09	3.10	30			
MIG												
8990	300AMP W/WIRE FEED AND SHOP GEAR	10 HP E	2,534	1.55		0.16	0.33	0.82	5			
8995	450AMP W/WIRE FEED AND SHOP GEAR	20 HP E	2,606	2.62		0.16	0.34	1.63	5			
RECTIFIER												
9005	200 AMP W/SHOP RUNNING GEAR	19 HP E	1,161	2.24		0.07	0.15	1.55	4			
9010	300 AMP W/SHOP RUNNING GEAR	24 HP E	1,496	2.84		0.10	0.20	1.96	5			
9015	750 AMP W/SHOP RUNNING GEAR	30 HP E	4,018	3.95		0.24	0.52	2.45	7			
9020	1000AMP W/SHOP RUNNING GEAR	42 HP E	7,018	5.81		0.43	0.92	3.43	10			
TRANSFORMER-RECTIFIER												
9030	250 AMP W/SHOP RUNNING GEAR	19 HP E	551	2.12		0.03	0.07	1.55	4			
9035	300 AMP W/SHOP RUNNING GEAR	24 HP E	1,779	2.89		0.11	0.23	1.96	6			

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

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

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

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

Total Hourly Rate	= \$55.00/Hr.
Ownership Rate	(-) \$30.00/Hr.
Ownership adjusted for Age: (Ownership Rate) x (Age Adj. Factor)	
= (\$30.00) x (.82)	= (+) \$24.60/Hr.
Adjusted Total Hourly Rate	= \$49.60/Hr.

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

Total Hourly Rate	= \$55.00/Hr.
Ownership Rate	(-) \$30.00/Hr.
Ownership adjusted for Age: (Ownership Rate) x (Oldest Age Adj. Factor)	
= (\$30.00) x (.42)	= (+) \$12.60/Hr.
Adjusted Total Hourly Rate	= \$37.60/Hr.

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

D. If an equivalent crane, manufactured in 1980, had been purchased used in 1982 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												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
15	AGGREGATE SPREADERS	1.07	1.03	1.00	0.99	1.00	0.93	0.86	0.78					
30	AIR COMPRESSORS	1.07	1.04	1.00	1.01	0.99	0.91	0.96	0.88					
45	AIR TOOLS, SANDBLASTERS, ETC	1.07	1.04	1.00										
60	ASPHALT DISTRIBUTORS	1.07	1.03	1.00	0.99	1.00	0.93	0.86	0.78					
65	ASPHALT AND CONCRETE PAVERS	1.07	1.03	1.00	0.99	1.00	0.93	0.86	0.78					
70	ASPHALT KETTLES AND RECYCLERS	1.04	1.02	1.00	0.98	0.96	0.88							
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67					
80	BRUSH CHIPPERS	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.68					
90	BUCKETS, CLAMSHELL & DRAGLINE	1.05	1.03	1.00	0.99	1.00	0.95	0.84	0.70					
95	BUCKETS, CONCRETE	1.05	1.03	1.00	0.99	1.00	0.95	0.84	0.69					
105	CONCRETE OR GROUT PUMP	1.04	1.02	1.00	0.98	0.96	0.89							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.04	1.02	1.00	0.98	0.96	0.88							
125	CONCRETE FINISHERS & BUGGIES	1.04	1.02	1.00	0.98	0.96								
130	CONCRETE SAWS	1.04	1.02	1.00	0.98	0.96	0.88							
135	CONCRETE VIBRATORS	1.07	1.04	1.00										
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	1.07	1.04	1.00	1.01	0.99								
150	0 THRU 25 TON	1.04	1.02	1.00	0.98	0.96	0.89	0.81	0.72	0.65	0.60			
165	OVER 25 TON THRU 50 TON	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.56		
170	OVER 50 TON THRU 150 TON	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.57	0.52	0.41
180	OVER 150 TON	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.74	0.67	0.62	0.58	0.52	0.42
	DRAGLINE & CLAMSHELL,CRAWLER													
185	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.81	0.72	0.65				
190	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.56		
195	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.57	0.52	0.41
196	OVER 5 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.74	0.67	0.62	0.58	0.52	0.42
200	CRANES, HYDRAULIC, SELF- PROPELLED	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.74	0.67	0.62	0.57	0.52	
205	CRANES, TOWER CRANES & HYD. EXC., TRK MTD	1.04	1.02	1.00	0.98	0.96	0.89	0.81	0.72	0.65	0.60	0.55	0.50	0.39
210	UNDER 26 T. (THRU 1 CY)	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.67	0.61	0.57		
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.42
230	66 THRU 125 T	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.43
240	OVER 125 T	1.04	1.02	1.00	0.98	0.96	0.90	0.82	0.74	0.67	0.62	0.58	0.53	0.42
255	DRILL, AUGER	1.02	1.01	1.00	1.01	1.00	0.92	0.78	0.67					
270	DRILL, BLAST HOLE	1.02	1.01	1.00	1.01	1.00	0.92	0.78	0.67					
300	DRILL, CORE	1.02	1.01	1.00	1.01	1.00	0.92	0.78	0.67					
315	DRILL, ROTARY TO 11" DIA. HOLE	1.02	1.01	1.00	1.01	1.00	0.92	0.79	0.68	0.63	0.57	0.54		
330	DRILL, ROTARY OVER 11" DIA.	1.02	1.01	1.00	1.01	1.00	0.92	0.80	0.69	0.64	0.58	0.56	0.53	0.46
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.02	1.01	1.00	1.01	1.00	0.92	0.80	0.69	0.64	0.58	0.56	0.53	0.46
375	FORK LIFTS	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.68					
390	GRADERS	1.05	1.03	1.00	1.00	0.97	0.88	0.79	0.69	0.63				
420	GENERATORS	1.06	1.04	1.00	0.97	0.95	0.92							
435	HOIST HYD. EXCAVATOR (SEE KEY NO. 570-601)	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.68					
440	LIGHT PLANTS	1.04	1.02	1.00	0.98	0.96	0.88							
450	LOADER, BELT	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67					
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.00	0.99	1.00	1.00	0.96	0.87	0.78	0.69					
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.02	1.01	1.00	0.98	0.95	0.85	0.70	0.60					
470	OVER 225 HP	1.02	1.01	1.00	0.98	0.96	0.86	0.72	0.63	0.57				
475	LOADER, FRONT END WITH BACKHOE,WHEEL TYPE	1.02	1.01	1.00	0.98	0.95	0.85	0.70	0.60					

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.05	1.02	1.00	0.98	0.95								
485	PIPELAYERS PUMP, GROUT (SEE KEY NO. 105)	1.00	0.99	1.00	1.00	0.96	0.87	0.78	0.68	0.60				
495	PUMP, WATER, ENGINE DRIVE	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67					
500	PUMP, WATER, ELECTRIC DRIVE	1.04	1.02	1.00	0.98	0.96	0.88	0.78	0.67					
510	RIPPERS	1.00	0.99	1.00	1.00	0.96	0.87							
525	ROLLERS, EXCEPT VIB. ROLLERS	1.08	1.05	1.00	0.95	0.86	0.79	0.70	0.63					
530	ROLLERS, VIBRATORY	1.08	1.05	1.00	0.95	0.85	0.78							
540	SCRAPERS, STANDARD	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71					
542	SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71					
545	0 THRU 200 HP	1.05	1.03	1.00	1.00	0.97	0.88	0.79	0.70					
550	OVER 200 HP	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.71					
555	SCRAPERS, TRACTOR DRAWN	1.05	1.03	1.00	1.00	0.97	0.89	0.80	0.70	0.64				
560	SOIL STABILIZERS SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED	1.05	1.03	1.00	1.00	0.97	0.88	0.79	0.70					
570	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.95	0.88							
585	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.81	0.72					
595	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.81	0.72	0.65				
600	OVER 5 CY	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.67	0.61			
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.04	1.02	1.00	0.98	0.96	0.89	0.82	0.73	0.66	0.61	0.57	0.52	0.41
615	0 THRU 225 HP	1.00	0.99	1.00	1.00	0.96	0.86	0.77	0.68					
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.00	0.99	1.00	1.00	0.96	0.87	0.78	0.69					
625	OVER 425 HP	1.00	0.99	1.00	1.00	0.96	0.87	0.79	0.70	0.63				
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.00	0.99	1.00	1.00	0.96	0.87	0.78	0.69					
645	TRACTOR, WHEEL TYPE	1.07	1.05	1.00	0.97	0.96	0.87	0.77	0.66					
650	TRENCHER	1.04	1.02	1.00	0.98	0.91	0.79	0.67	0.57					
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.69					
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.04	1.02	1.00	0.98	0.95	0.87	0.76	0.65					
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING													
670	DUMP BODIES	1.04	1.02	1.00	0.98	0.96	0.88							
675	ALL OTHER ACCESSORIES TRUCK, HIGHWAY	1.04	1.02	1.00	0.98	0.96	0.88							
690	0 THRU 10,000 GVW	1.09	1.04	1.00	0.95	0.91								
695	OVER 10,000 THRU 30,000 GVW	1.09	1.03	1.00	0.95	0.91	0.83							
705	OVER 30,000 GVW	1.08	1.03	1.00	0.95	0.91	0.84							
720	TRUCK, OFF-HIGHWAY	1.03	1.01	1.00	0.99	0.96	0.88	0.76	0.65	0.59				
765	WAGON, BOTTOM & REAR DUMP	1.03	1.01	1.00	0.99	0.96	0.88	0.76	0.65	0.59				
780	WAGON, WATER	1.03	1.01	1.00	0.99	0.96	0.87	0.75	0.64	0.58				
785	WATER BLASTER	1.04	1.02	1.00	0.98	0.96								
795	WATER TANKS	1.04	1.02	1.00	0.98	0.96	0.89	0.79	0.68	0.61				
810	WELDERS	1.04	1.02	1.00	0.98	0.95	0.87							
811	WELDERS ELECTRIC POWER	1.04	1.02	1.00	0.98	0.96	0.88							



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

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

Example: Assume that a two-year old 50-ton truck crane listed in TABLE 3-1 has an hourly standby rate of \$18.00 per hour. If an equivalent crane owned by a Contractor had been purchased new in 1980, the hourly standby rate can be determined as follows:

Hourly Standby Rate	= \$18.00/Hr.
Standby Adjusted for Age (Standby Rate) x (Age Adj. Factor)	
= (\$18.00) x (.84)	= \$15.12/Hr.

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
15	AGGREGATE SPREADERS	1.06	1.03	1.00	0.99	1.00	0.94	0.88	0.81					
30	AIR COMPRESSORS	1.06	1.03	1.00	1.01	0.99	0.93	0.97	0.90					
45	AIR TOOLS, SANDBLASTERS, ETC	1.07	1.03	1.00										
60	ASPHALT DISTRIBUTORS	1.06	1.03	1.00	0.99	1.00	0.94	0.88	0.81					
65	ASPHALT AND CONCRETE PAVERS	1.06	1.03	1.00	0.99	1.00	0.94	0.88	0.81					
70	ASPHALT KETTLES AND RECYCLERS	1.04	1.02	1.00	0.99	0.96	0.90							
	BACKHOE (SEE KEY NO. 570-601)													
75	BROOMS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
80	BRUSH CHIPPERS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
90	BUCKETS, CLAMSHELL & DRAGLINE	1.05	1.02	1.00	0.99	1.00	0.95	0.86	0.72					
95	BUCKETS, CONCRETE	1.05	1.02	1.00	0.99	1.00	0.95	0.86	0.72					
105	CONCRETE OR GROUT PUMP	1.04	1.02	1.00	0.99	0.96	0.90							
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	1.04	1.02	1.00	0.99	0.96	0.90							
125	CONCRETE FINISHERS & BUGGIES	1.04	1.02	1.00	0.98	0.96								
130	CONCRETE SAWS	1.04	1.02	1.00	0.99	0.96	0.90							
135	CONCRETE VIBRATORS	1.07	1.03	1.00										
140	COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE	1.06	1.03	1.00	1.01	0.99								
150	0 THRU 25 TON	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65			
165	OVER 25 TON THRU 50 TON	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.62		
170	OVER 50 TON THRU 150 TON	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.62	0.58	0.48
180	OVER 150 TON	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.63	0.58	0.49
	DRAGLINE & CLAMSHELL,CRAWLER													
185	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.69				
190	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.62		
195	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.62	0.58	0.48
196	OVER 5 CY	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.63	0.58	0.49
200	CRANES, HYDRAULIC, SELF-PROPELLED	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.61	0.57	
205	CRANES, TOWER CRANES & HYD. EXC., TRK MTD	1.03	1.02	1.00	0.98	0.97	0.91	0.85	0.77	0.71	0.67	0.63	0.59	0.50
210	UNDER 26 T. (THRU 1 CY)	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65	0.61		
225	26 THRU 65 T (1 TH 2-1/2 CY)	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.76	0.70	0.65	0.62	0.57	0.48
230	66 THRU 125 T	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.76	0.70	0.66	0.62	0.57	0.48
240	OVER 125 T	1.03	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.67	0.63	0.58	0.49
255	DRILL, AUGER	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.71					
270	DRILL, BLAST HOLE	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.71					
300	DRILL, CORE	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.71					
315	DRILL, ROTARY TO 11" DIA. HOLE	1.02	1.01	1.00	1.01	1.00	0.93	0.81	0.72	0.67	0.62	0.60		
330	DRILL, ROTARY OVER 11" DIA.	1.02	1.01	1.00	1.01	1.00	0.93	0.82	0.73	0.68	0.63	0.61	0.58	0.52
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	1.02	1.01	1.00	1.01	1.00	0.93	0.82	0.73	0.68	0.63	0.61	0.58	0.52
375	FORK LIFTS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
390	GRADERS	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
420	GENERATORS	1.05	1.03	1.00	0.97	0.95	0.93							
435	HOIST	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
	HYD. EXCAVATOR (SEE KEY NO. 570-601)													
440	LIGHT PLANTS	1.04	1.02	1.00	0.99	0.96	0.89							
450	LOADER, BELT	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE,CRAWLER TYPE	1.00	0.99	1.00	1.00	0.96	0.88	0.81	0.72					
	LOADER, WHEEL TYPE													
465	0 THRU 225 HP	1.02	1.01	1.00	0.98	0.96	0.87	0.74	0.66					
470	OVER 225 HP	1.02	1.01	1.00	0.98	0.96	0.87	0.75	0.66	0.61				
475	LOADER, FRONT END WITH BACKHOE,WHEEL TYPE	1.02	1.01	1.00	0.98	0.96	0.87	0.74	0.66					

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

KEY NO.	TYPE OF EQUIPMENT	YEAR PURCHASED NEW												
		1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	1.04	1.02	1.00	0.98	0.96								
485	PIPELAYERS PUMP, GROUT (SEE KEY NO. 105)	1.00	0.99	1.00	1.00	0.96	0.89	0.81	0.73	0.66				
495	PUMP, WATER, ENGINE DRIVE	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
500	PUMP, WATER, ELECTRIC DRIVE	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
510	RIPPERS	1.00	0.99	1.00	1.00	0.96	0.88							
525	ROLLERS, EXCEPT VIB. ROLLERS	1.07	1.04	1.00	0.95	0.87	0.81	0.74	0.67					
530	ROLLERS, VIBRATORY	1.08	1.04	1.00	0.95	0.87	0.81							
540	SCRAPERS, STANDARD	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74					
542	SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74					
545	0 THRU 200 HP	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74					
550	OVER 200 HP	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74					
555	SCRAPERS, TRACTOR DRAWN	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74	0.69				
560	SOIL STABILIZERS SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED	1.05	1.03	1.00	1.00	0.98	0.90	0.82	0.74					
570	0 THRU 1 CY	1.04	1.02	1.00	0.98	0.96	0.90							
585	OVER 1 CY THRU 2-1/2 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.83	0.75					
595	OVER 2-1/2 CY THRU 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.69				
600	OVER 5 CY	1.04	1.02	1.00	0.98	0.96	0.90	0.84	0.76	0.70	0.65			
601	OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE	1.04	1.02	1.00	0.98	0.96	0.91	0.84	0.77	0.71	0.66	0.62	0.58	0.48
615	0 THRU 225 HP	1.00	0.99	1.00	1.00	0.96	0.88	0.81	0.72					
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	1.00	0.99	1.00	1.00	0.96	0.88	0.81	0.72					
625	OVER 425 HP	1.00	0.99	1.00	1.00	0.96	0.88	0.81	0.73	0.66				
630	TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES	1.00	0.99	1.00	1.00	0.96	0.88	0.81	0.72					
645	TRACTOR, WHEEL TYPE	1.07	1.04	1.00	0.97	0.97	0.89	0.80	0.70					
650	TRENCHER	1.03	1.01	1.00	0.98	0.92	0.82	0.71	0.62					
655	TRAILERS, BOTTOM DUMP AND END DUMP	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
660	TRAILERS, FLATBED, LO-BOY AND TILT	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72					
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING													
670	DUMP BODIES	1.04	1.02	1.00	0.99	0.96	0.90							
675	ALL OTHER ACCESSORIES TRUCK, HIGHWAY	1.04	1.02	1.00	0.99	0.96	0.90							
690	0 THRU 10,000 GVW	1.08	1.03	1.00	0.96	0.92								
695	OVER 10,000 THRU 30,000 GVW	1.07	1.03	1.00	0.96	0.92	0.86							
705	OVER 30,000 GVW	1.07	1.03	1.00	0.96	0.92	0.86							
720	TRUCK, OFF-HIGHWAY	1.03	1.01	1.00	0.99	0.97	0.89	0.79	0.69	0.63				
765	WAGON, BOTTOM & REAR DUMP	1.03	1.01	1.00	0.99	0.97	0.89	0.79	0.69	0.63				
780	WAGON, WATER	1.03	1.01	1.00	0.99	0.97	0.89	0.79	0.69	0.63				
785	WATER BLASTER	1.04	1.02	1.00	0.98	0.96								
795	WATER TANKS	1.04	1.02	1.00	0.99	0.96	0.90	0.81	0.72	0.66				
810	WELDERS	1.04	1.02	1.00	0.99	0.96	0.89							
811	WELDERS ELECTRIC POWER	1.04	1.02	1.00	0.99	0.96	0.89							



TABLE 3-4. SHIFT ADJUSTMENT FACTORS FOR OWNERSHIP COSTS

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

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

Total Hourly Rate (adjusted for age)	= \$49.60/Hr.
Ownership Rate (adjusted for age)	(-) \$24.60/Hr.
Ownership Adjusted for Work Hours (Ownership Rate) x (Work Hr Adj. Factor)	
= (\$24.60) x (.85)	= (+) \$20.91/Hr.
Adjusted Total Hourly Rate	= <u>\$45.91/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	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.89	0.88
6,000	1.00	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
8,000	1.00	0.97	0.95	0.93	0.91	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.81
9,000	1.00	0.97	0.95	0.92	0.90	0.88	0.87	0.85	0.84	0.82	0.81	0.81	0.79
10,000	1.00	0.97	0.95	0.92	0.90	0.88	0.86	0.84	0.83	0.81	0.80	0.79	0.78
11,000	1.00	0.96	0.94	0.91	0.89	0.87	0.85	0.83	0.82	0.80	0.79	0.78	0.76
12,000	1.00	0.96	0.94	0.91	0.88	0.86	0.84	0.83	0.81	0.79	0.78	0.77	0.75
13,000	1.00	0.96	0.94	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.77	0.76	0.74
14,000	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
15,000	1.00	0.96	0.93	0.90	0.87	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.72
16,000	1.00	0.95	0.93	0.89	0.86	0.84	0.82	0.79	0.77	0.75	0.74	0.72	0.71
18,000	1.00	0.95	0.93	0.89	0.85	0.83	0.80	0.78	0.76	0.74	0.72	0.71	0.69
20,000	1.00	0.95	0.92	0.88	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.69	0.67
22,000	1.00	0.95	0.92	0.87	0.84	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65
50,000	1.00	0.92	0.89	0.82	0.77	0.73	0.70	0.66	0.62	0.59	0.57	0.55	0.52

TABLE 3-5. HOURLY RATE ELEMENT

UNIT NO	AVERAGE CONDITIONS						TOTAL RATE	SEVERE CONDITIONS						TOTAL RATE
	DEPR	CFC	FUEL	FOG	TIRE WEAR	RPR		DEPR	CFC	FUEL	FOG	TIRE WEAR	RPR	
1015	4.51	2.15	9.76	2.34	0.23	0.03	5.08							24.10
1020	5.05	2.40	4.33	1.04	0.23	0.03	5.68							13.76
1035	0.76	0.45	3.43	1.10	0.02	0.00	1.00							5.76
1040	0.92	0.54	1.29	0.36	0.02	0.00	1.20							4.33
1045	0.94	0.55	4.80	1.54	0.02	0.00	1.22							9.07
1050	1.00	0.58	2.00	0.56	0.02	0.00	1.30							5.46
1055	1.03	0.60	4.80	1.54	0.02	0.00	1.33							9.32
1060	1.16	0.68	2.11	0.59	0.02	0.00	1.51							6.07
1065	1.06	0.62	4.80	1.54	0.02	0.00	1.38							9.42
1070	1.25	0.73	2.70	0.76	0.02	0.00	1.63							7.09
1075	1.88	1.08	3.44	0.96	0.03	0.00	2.44							9.83
1080	2.27	1.35	4.78	1.34	0.15	0.02	2.98							12.89
1085	2.96	1.74	5.95	1.67	0.15	0.02	3.87							16.36
1090	3.55	2.09	7.36	2.06	0.17	0.03	4.64							19.90
1095	4.14	2.43	8.92	2.50	0.17	0.03	5.40							23.59
1100	4.71	2.76	10.18	2.85	0.17	0.03	6.15							26.85
1105	5.18	3.02	10.57	2.96	0.17	0.03	6.75							28.68
1110	5.81	3.39	11.51	3.22	0.17	0.03	7.57							31.70
1115	6.95	4.04	15.66	4.38	0.17	0.03	9.05							40.28
1120	7.85	4.57	17.85	5.00	0.21	0.03	10.22							45.73
1135	0.30	0.06	0.00	0.06	0.00	0.00	0.73							1.15
1140	0.55	0.12	0.00	0.06	0.00	0.00	1.32							2.05
1145	0.56	0.12	0.00	0.06	0.00	0.00	1.34							2.08
1150	0.61	0.13	0.00	0.13	0.00	0.00	1.47							2.34
1155	0.83	0.17	0.00	0.13	0.00	0.00	1.99							3.12
1160	2.34	0.50	0.00	0.27	0.05	0.01	5.65							8.82
1165	2.79	0.62	0.00	0.40	0.14	0.02	6.80							10.77
1170	3.44	0.76	0.00	0.50	0.14	0.02	8.36							13.22
1180	0.18	0.04	0.00	0.06	0.00	0.00	0.44							0.72
1185	0.40	0.08	0.00	0.11	0.00	0.00	0.96							1.55
1190	0.19	0.04	0.00	0.06	0.00	0.00	0.45							0.74
1195	0.20	0.04	0.00	0.06	0.00	0.00	0.48							0.78
1200	0.22	0.05	0.00	0.06	0.00	0.00	0.52							0.85
1205	0.73	0.15	0.00	0.13	0.00	0.00	1.75							2.76
1215	0.39	0.08	0.00	0.15	0.00	0.00	1.57							2.19
1220	0.25	0.05	0.00	0.13	0.00	0.00	1.01							1.44
1225	0.23	0.05	0.00	0.10	0.00	0.00	0.91							1.29
1230	0.21	0.04	0.00	0.08	0.00	0.00	0.82							1.15
1235	0.16	0.03	0.00	0.06	0.00	0.00	0.65							0.90
1245	2.53	1.18	3.09	0.99	0.00	0.00	3.44							11.23
1250	2.59	1.20	3.09	0.99	0.00	0.00	3.53							11.40
1255	2.78	1.29	3.09	0.99	0.00	0.00	3.78							11.93
1260	3.13	1.45	3.09	0.99	0.00	0.00	4.25							12.91
1270	7.13	3.39	2.74	0.77	0.37	0.06	10.32							24.78
1275	11.70	5.60	3.72	1.04	0.81	0.12	16.95							39.94
1280	13.16	6.27	5.09	1.42	0.81	0.12	19.05							45.92
1285	15.95	7.41	5.09	1.42	0.00	0.00	22.97							52.85
1295	3.82	1.85	1.17	0.33	0.35	0.05	5.55							13.12
1300	6.40	3.04	1.72	0.48	0.35	0.05	9.26							21.30
1305	8.56	4.08	2.19	0.61	0.52	0.08	12.40							28.44
1310	10.29	4.94	3.72	1.04	0.81	0.12	14.92							35.84
1315	12.22	5.87	3.60	1.01	0.99	0.15	17.72							41.56
1320	15.80	7.61	5.79	1.62	1.38	0.21	22.93							55.34
1325	11.75	5.45	3.52	0.99	0.00	0.00	16.91							38.62
1330	14.11	6.55	4.89	1.37	0.00	0.00	20.31							47.23

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	
1340	0.38	0.15	0.00	1.00	0.02	0.00	0.47	2.02								
1345	0.44	0.17	0.00	1.11	0.02	0.00	0.55	2.29								
1355	1.05	0.40	0.55	1.77	0.03	0.00	1.31	5.11								
1365	0.50	0.26	0.00	0.18	0.02	0.00	0.67	1.63								
1370	0.65	0.33	2.06	0.49	0.02	0.00	0.86	4.41								
1375	0.25	0.13	0.00	0.18	0.00	0.00	0.33	0.89								
1380	0.44	0.23	0.00	0.12	0.00	0.00	0.59	1.38								
1390	0.98	0.45	7.18	2.30	0.00	0.00	1.37	12.28								
1395	1.04	0.49	7.18	2.30	0.04	0.01	1.47	12.53								
1405	0.90	0.38	0.00	0.00	0.00	0.00	0.93	2.21	1.13	0.39	0.00	0.00	0.00	0.00	1.33	2.85
1410	0.97	0.41	0.00	0.00	0.00	0.00	1.01	2.39	1.22	0.42	0.00	0.00	0.00	0.00	1.44	3.08
1415	1.41	0.59	0.00	0.00	0.00	0.00	1.46	3.46	1.77	0.61	0.00	0.00	0.00	0.00	2.08	4.46
1420	1.66	0.69	0.00	0.00	0.00	0.00	1.71	4.05	2.07	0.71	0.00	0.00	0.00	0.00	2.45	5.23
1425	2.14	0.89	0.00	0.00	0.00	0.00	2.21	5.24	2.67	0.92	0.00	0.00	0.00	0.00	3.15	6.74
1430	2.28	0.95	0.00	0.00	0.00	0.00	2.35	5.58	2.85	0.97	0.00	0.00	0.00	0.00	3.36	7.18
1435	2.48	1.04	0.00	0.00	0.00	0.00	2.56	6.08	3.10	1.06	0.00	0.00	0.00	0.00	3.65	7.81
1440	2.75	1.15	0.00	0.00	0.00	0.00	2.84	6.74	3.43	1.18	0.00	0.00	0.00	0.00	4.05	8.66
1445	2.98	1.25	0.00	0.00	0.00	0.00	3.08	7.31	3.73	1.28	0.00	0.00	0.00	0.00	4.40	9.41
1450	3.19	1.33	0.00	0.00	0.00	0.00	3.29	7.81	3.98	1.36	0.00	0.00	0.00	0.00	4.70	10.04
1455	3.52	1.47	0.00	0.00	0.00	0.00	3.64	8.63	4.41	1.51	0.00	0.00	0.00	0.00	5.20	11.12
1460	3.67	1.54	0.00	0.00	0.00	0.00	3.79	9.00	4.59	1.57	0.00	0.00	0.00	0.00	5.41	11.57
1465	3.78	1.58	0.00	0.00	0.00	0.00	3.90	9.26	4.73	1.62	0.00	0.00	0.00	0.00	5.58	11.93
1470	3.98	1.66	0.00	0.00	0.00	0.00	4.11	9.75	4.97	1.70	0.00	0.00	0.00	0.00	5.87	12.54
1475	4.14	1.73	0.00	0.00	0.00	0.00	4.27	10.14	5.17	1.77	0.00	0.00	0.00	0.00	6.10	13.04
1485	0.86	0.36	0.00	0.00	0.00	0.00	0.89	2.11	1.08	0.37	0.00	0.00	0.00	0.00	1.27	2.72
1490	1.20	0.50	0.00	0.00	0.00	0.00	1.24	2.94	1.50	0.51	0.00	0.00	0.00	0.00	1.77	3.78
1495	1.76	0.74	0.00	0.00	0.00	0.00	1.82	4.32	2.20	0.76	0.00	0.00	0.00	0.00	2.60	5.56
1500	1.91	0.80	0.00	0.00	0.00	0.00	1.98	4.69	2.39	0.82	0.00	0.00	0.00	0.00	2.82	6.03
1505	2.41	1.01	0.00	0.00	0.00	0.00	2.48	5.90	3.01	1.03	0.00	0.00	0.00	0.00	3.55	7.59
1510	2.65	1.11	0.00	0.00	0.00	0.00	2.74	6.50	3.31	1.13	0.00	0.00	0.00	0.00	3.91	8.35
1515	3.04	1.27	0.00	0.00	0.00	0.00	3.14	7.45	3.80	1.30	0.00	0.00	0.00	0.00	4.49	9.59
1520	3.29	1.37	0.00	0.00	0.00	0.00	3.39	8.05	4.11	1.41	0.00	0.00	0.00	0.00	4.85	10.37
1525	3.54	1.48	0.00	0.00	0.00	0.00	3.66	8.68	4.43	1.52	0.00	0.00	0.00	0.00	5.22	11.17
1530	3.80	1.59	0.00	0.00	0.00	0.00	3.93	9.32	4.75	1.63	0.00	0.00	0.00	0.00	5.61	11.99
1535	4.02	1.68	0.00	0.00	0.00	0.00	4.16	9.86	5.03	1.72	0.00	0.00	0.00	0.00	5.94	12.69
1540	4.24	1.77	0.00	0.00	0.00	0.00	4.37	10.38	5.30	1.81	0.00	0.00	0.00	0.00	6.25	13.36
1545	4.47	1.87	0.00	0.00	0.00	0.00	4.62	10.96	5.59	1.92	0.00	0.00	0.00	0.00	6.60	14.11
1550	4.67	1.96	0.00	0.00	0.00	0.00	4.83	11.46	5.84	2.00	0.00	0.00	0.00	0.00	6.90	14.74
1555	4.87	2.04	0.00	0.00	0.00	0.00	5.03	11.94	6.09	2.09	0.00	0.00	0.00	0.00	7.19	15.37
1565	1.36	0.57	0.00	0.00	0.00	0.00	1.41	3.34	1.70	0.58	0.00	0.00	0.00	0.00	2.01	4.29
1570	1.39	0.58	0.00	0.00	0.00	0.00	1.44	3.41	1.74	0.60	0.00	0.00	0.00	0.00	2.06	4.40
1575	2.02	0.84	0.00	0.00	0.00	0.00	2.08	4.94	2.52	0.86	0.00	0.00	0.00	0.00	2.97	6.35
1580	2.48	1.04	0.00	0.00	0.00	0.00	2.56	6.08	3.10	1.06	0.00	0.00	0.00	0.00	3.66	7.82
1585	2.80	1.17	0.00	0.00	0.00	0.00	2.89	6.86	3.50	1.20	0.00	0.00	0.00	0.00	4.13	8.83
1590	3.05	1.28	0.00	0.00	0.00	0.00	3.15	7.48	3.82	1.31	0.00	0.00	0.00	0.00	4.50	9.63
1595	3.30	1.38	0.00	0.00	0.00	0.00	3.41	8.09	4.12	1.41	0.00	0.00	0.00	0.00	4.87	10.40
1600	3.51	1.47	0.00	0.00	0.00	0.00	3.63	8.61	4.39	1.50	0.00	0.00	0.00	0.00	5.18	11.07
1605	3.67	1.53	0.00	0.00	0.00	0.00	3.79	8.99	4.58	1.57	0.00	0.00	0.00	0.00	5.41	11.56
1610	3.99	1.67	0.00	0.00	0.00	0.00	4.12	9.78	4.98	1.71	0.00	0.00	0.00	0.00	5.88	12.57
1615	4.24	1.77	0.00	0.00	0.00	0.00	4.38	10.39	5.30	1.82	0.00	0.00	0.00	0.00	6.25	13.37
1620	4.47	1.87	0.00	0.00	0.00	0.00	4.62	10.96	5.59	1.92	0.00	0.00	0.00	0.00	6.60	14.11
1625	4.73	1.98	0.00	0.00	0.00	0.00	4.88	11.59	5.91	2.03	0.00	0.00	0.00	0.00	6.98	14.92
1630	4.92	2.06	0.00	0.00	0.00	0.00	5.08	12.06	6.15	2.11	0.00	0.00	0.00	0.00	7.26	15.52
1635	5.17	2.16	0.00	0.00	0.00	0.00	5.34	12.67	6.46	2.21	0.00	0.00	0.00	0.00	7.63	16.30
1645	0.13	0.06	0.00	0.00	0.00	0.00	0.14	0.33								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE
1650	0.16	0.07	0.00	0.00	0.00	0.00	0.18	0.41							
1655	0.21	0.10	0.00	0.00	0.00	0.00	0.23	0.54							
1660	0.30	0.14	0.00	0.00	0.00	0.00	0.33	0.77							
1665	0.37	0.17	0.00	0.00	0.00	0.00	0.41	0.95							
1675	0.53	0.24	0.00	0.00	0.00	0.00	0.58	1.35							
1680	0.55	0.25	0.00	0.00	0.00	0.00	0.60	1.40							
1685	0.57	0.26	0.00	0.00	0.00	0.00	0.63	1.46							
1690	0.76	0.35	0.00	0.00	0.00	0.00	0.84	1.95							
1695	0.80	0.37	0.00	0.00	0.00	0.00	0.88	2.05							
1700	1.15	0.53	0.00	0.00	0.00	0.00	1.26	2.94							
1705	1.37	0.63	0.00	0.00	0.00	0.00	1.51	3.51							
1715	0.60	0.28	0.00	0.00	0.00	0.00	0.66	1.54							
1720	0.67	0.31	0.00	0.00	0.00	0.00	0.74	1.72							
1725	0.78	0.36	0.00	0.00	0.00	0.00	0.86	2.00							
1730	0.87	0.40	0.00	0.00	0.00	0.00	0.96	2.23							
1735	1.02	0.47	0.00	0.00	0.00	0.00	1.13	2.62							
1750	0.31	0.13	0.00	0.00	0.00	0.00	0.32	0.76	0.38	0.13	0.00	0.00	0.00	0.45	0.96
1755	0.36	0.15	0.00	0.00	0.00	0.00	0.37	0.88	0.45	0.16	0.00	0.00	0.00	0.53	1.14
1760	0.45	0.19	0.00	0.00	0.00	0.00	0.46	1.10	0.56	0.19	0.00	0.00	0.00	0.66	1.41
1765	0.53	0.22	0.00	0.00	0.00	0.00	0.54	1.29	0.66	0.23	0.00	0.00	0.00	0.78	1.67
1770	0.62	0.26	0.00	0.00	0.00	0.00	0.64	1.52	0.77	0.27	0.00	0.00	0.00	0.91	1.95
1775	0.76	0.32	0.00	0.00	0.00	0.00	0.79	1.87	0.95	0.33	0.00	0.00	0.00	1.13	2.41
1780	0.84	0.35	0.00	0.00	0.00	0.00	0.87	2.06	1.05	0.36	0.00	0.00	0.00	1.24	2.65
1785	1.03	0.43	0.00	0.00	0.00	0.00	1.07	2.53	1.29	0.44	0.00	0.00	0.00	1.52	3.25
1790	1.10	0.46	0.00	0.00	0.00	0.00	1.13	2.69	1.37	0.47	0.00	0.00	0.00	1.62	3.46
1795	1.32	0.55	0.00	0.00	0.00	0.00	1.37	3.24	1.65	0.57	0.00	0.00	0.00	1.95	4.17
1800	1.43	0.60	0.00	0.00	0.00	0.00	1.48	3.51	1.79	0.61	0.00	0.00	0.00	2.11	4.51
1805	1.57	0.66	0.00	0.00	0.00	0.00	1.62	3.85	1.96	0.67	0.00	0.00	0.00	2.31	4.94
1810	1.74	0.73	0.00	0.00	0.00	0.00	1.80	4.27	2.17	0.74	0.00	0.00	0.00	2.57	5.48
1815	2.01	0.84	0.00	0.00	0.00	0.00	2.07	4.92	2.51	0.86	0.00	0.00	0.00	2.96	6.33
1820	2.18	0.91	0.00	0.00	0.00	0.00	2.25	5.34	2.73	0.93	0.00	0.00	0.00	3.22	6.88
1825	2.68	1.12	0.00	0.00	0.00	0.00	2.77	6.57	3.35	1.15	0.00	0.00	0.00	3.95	8.45
1830	3.08	1.29	0.00	0.00	0.00	0.00	3.18	7.55	3.85	1.32	0.00	0.00	0.00	4.54	9.71
1840	0.36	0.15	0.00	0.00	0.00	0.00	0.37	0.88	0.44	0.15	0.00	0.00	0.00	0.52	1.11
1845	0.44	0.18	0.00	0.00	0.00	0.00	0.45	1.07	0.54	0.19	0.00	0.00	0.00	0.64	1.37
1850	0.54	0.23	0.00	0.00	0.00	0.00	0.56	1.33	0.68	0.23	0.00	0.00	0.00	0.80	1.71
1855	0.65	0.27	0.00	0.00	0.00	0.00	0.67	1.59	0.81	0.28	0.00	0.00	0.00	0.95	2.04
1860	0.75	0.31	0.00	0.00	0.00	0.00	0.77	1.83	0.93	0.32	0.00	0.00	0.00	1.10	2.35
1865	0.89	0.37	0.00	0.00	0.00	0.00	0.92	2.18	1.11	0.38	0.00	0.00	0.00	1.31	2.80
1870	0.98	0.41	0.00	0.00	0.00	0.00	1.02	2.41	1.23	0.42	0.00	0.00	0.00	1.45	3.10
1875	1.19	0.50	0.00	0.00	0.00	0.00	1.22	2.91	1.48	0.51	0.00	0.00	0.00	1.75	3.74
1880	1.27	0.53	0.00	0.00	0.00	0.00	1.31	3.11	1.58	0.54	0.00	0.00	0.00	1.87	3.99
1885	1.62	0.68	0.00	0.00	0.00	0.00	1.68	3.98	2.03	0.69	0.00	0.00	0.00	2.39	5.11
1890	1.58	0.70	0.00	0.00	0.00	0.00	1.73	4.11	2.10	0.72	0.00	0.00	0.00	2.47	5.29
1895	1.91	0.80	0.00	0.00	0.00	0.00	1.98	4.69	2.39	0.82	0.00	0.00	0.00	2.82	6.03
1900	2.11	0.88	0.00	0.00	0.00	0.00	2.18	5.17	2.63	0.90	0.00	0.00	0.00	3.11	6.64
1905	2.53	1.06	0.00	0.00	0.00	0.00	2.61	6.20	3.16	1.08	0.00	0.00	0.00	3.73	7.97
1910	2.69	1.13	0.00	0.00	0.00	0.00	2.78	6.60	3.36	1.15	0.00	0.00	0.00	3.97	8.48
1915	3.43	1.43	0.00	0.00	0.00	0.00	3.54	8.40	4.28	1.47	0.00	0.00	0.00	5.06	10.81
1920	3.82	1.60	0.00	0.00	0.00	0.00	3.94	9.36	4.77	1.63	0.00	0.00	0.00	5.63	12.03
1930	1.42	0.59	0.00	0.00	0.00	0.00	1.47	3.48	1.78	0.61	0.00	0.00	0.00	2.10	4.49
1935	1.48	0.62	0.00	0.00	0.00	0.00	1.53	3.63	1.85	0.63	0.00	0.00	0.00	2.18	4.66
1940	1.66	0.69	0.00	0.00	0.00	0.00	1.71	4.06	2.07	0.71	0.00	0.00	0.00	2.44	5.22
1945	2.22	0.93	0.00	0.00	0.00	0.00	2.29	5.44	2.77	0.95	0.00	0.00	0.00	3.27	6.99
1950	2.48	1.04	0.00	0.00	0.00	0.00	2.56	6.08	3.10	1.06	0.00	0.00	0.00	3.65	7.81

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
1955	2.56	1.07	0.00	0.00	0.00	0.00	2.64	6.27	3.20	1.10	0.00	0.00	0.00	0.00	3.77	8.07
1960	2.74	1.15	0.00	0.00	0.00	0.00	2.83	6.72	3.42	1.17	0.00	0.00	0.00	0.00	4.04	8.63
1965	3.49	1.46	0.00	0.00	0.00	0.00	3.60	8.55	4.36	1.49	0.00	0.00	0.00	0.00	5.14	10.99
1970	3.58	1.50	0.00	0.00	0.00	0.00	3.70	8.78	4.48	1.53	0.00	0.00	0.00	0.00	5.29	11.30
1975	4.56	1.91	0.00	0.00	0.00	0.00	4.71	11.18	5.70	1.95	0.00	0.00	0.00	0.00	6.73	14.38
1980	4.70	1.96	0.00	0.00	0.00	0.00	4.85	11.51	5.87	2.01	0.00	0.00	0.00	0.00	6.93	14.81
1985	5.58	2.34	0.00	0.00	0.00	0.00	5.77	13.69	6.98	2.39	0.00	0.00	0.00	0.00	8.24	17.61
1990	5.90	2.47	0.00	0.00	0.00	0.00	6.10	14.47	7.38	2.53	0.00	0.00	0.00	0.00	8.71	18.62
2000	0.84	0.35	0.00	0.00	0.00	0.00	0.87	2.06	1.05	0.36	0.00	0.00	0.00	0.00	1.24	2.65
2005	1.08	0.45	0.00	0.00	0.00	0.00	1.11	2.64	1.35	0.46	0.00	0.00	0.00	0.00	1.59	3.40
2010	1.48	0.62	0.00	0.00	0.00	0.00	1.52	3.62	1.84	0.63	0.00	0.00	0.00	0.00	2.18	4.65
2015	1.95	0.82	0.00	0.00	0.00	0.00	2.02	4.79	2.44	0.84	0.00	0.00	0.00	0.00	2.88	6.16
2020	2.92	1.22	0.00	0.00	0.00	0.00	3.01	7.15	3.65	1.25	0.00	0.00	0.00	0.00	4.30	9.20
2025	3.33	1.39	0.00	0.00	0.00	0.00	3.44	8.16	4.16	1.42	0.00	0.00	0.00	0.00	4.91	10.49
2030	4.03	1.69	0.00	0.00	0.00	0.00	4.16	9.88	5.04	1.73	0.00	0.00	0.00	0.00	5.95	12.72
2035	4.90	2.05	0.00	0.00	0.00	0.00	5.06	12.01	6.13	2.10	0.00	0.00	0.00	0.00	7.23	15.46
2040	5.95	2.49	0.00	0.00	0.00	0.00	6.14	14.58	7.43	2.55	0.00	0.00	0.00	0.00	8.77	18.75
2045	6.90	2.89	0.00	0.00	0.00	0.00	7.13	16.92	8.63	2.96	0.00	0.00	0.00	0.00	10.19	21.78
2055	0.22	0.07	0.28	0.07	0.00	0.00	0.43	1.07								
2060	0.22	0.07	0.28	0.07	0.00	0.00	0.43	1.07								
2065	0.40	0.12	0.38	0.09	0.00	0.00	0.77	1.76								
2070	0.31	0.09	0.47	0.11	0.00	0.00	0.61	1.59								
2075	0.40	0.12	0.57	0.14	0.00	0.00	0.77	2.00								
2080	0.18	0.05	0.38	0.09	0.00	0.00	0.34	1.04								
2085	0.25	0.07	0.66	0.16	0.00	0.00	0.48	1.62								
2090	0.25	0.07	0.38	0.09	0.00	0.00	0.47	1.26								
2095	0.31	0.09	0.38	0.09	0.00	0.00	0.59	1.46								
2100	0.22	0.07	0.38	0.09	0.00	0.00	0.43	1.19								
2105	0.42	0.12	0.27	0.07	0.00	0.00	0.81	1.69								
2110	0.76	0.22	0.27	0.07	0.00	0.00	1.46	2.78								
2115	1.13	0.33	0.38	0.09	0.00	0.00	2.17	4.10								
2120	0.97	0.29	0.27	0.07	0.00	0.00	1.87	3.47								
2125	1.21	0.36	0.22	0.05	0.00	0.00	2.32	4.16								
2130	1.68	0.49	0.44	0.10	0.00	0.00	3.23	5.94								
2135	2.12	0.62	0.71	0.17	0.00	0.00	4.08	7.70								
2140	0.46	0.14	0.85	0.20	0.00	0.00	0.89	2.54								
2145	0.48	0.14	0.38	0.09	0.00	0.00	0.93	2.02								
2150	1.62	0.48	0.60	0.14	0.00	0.00	3.12	5.96								
2155	1.49	0.44	0.44	0.10	0.00	0.00	2.87	5.34								
2160	1.68	0.49	0.44	0.10	0.00	0.00	3.23	5.94								
2170	0.24	0.07	0.37	0.12	0.00	0.00	0.30	1.10								
2180	0.20	0.06	0.52	0.17	0.00	0.00	0.25	1.20								
2185	0.78	0.23	1.18	0.38	0.00	0.00	0.97	3.54								
2190	1.00	0.29	1.18	0.38	0.00	0.00	1.25	4.10								
2200	0.07	0.03	0.10	0.05	0.02	0.00	0.10	0.37								
2205	0.08	0.03	0.10	0.05	0.02	0.00	0.10	0.38								
2210	0.27	0.08	0.52	0.17	0.02	0.00	0.34	1.40								
2215	0.21	0.07	0.52	0.17	0.02	0.00	0.27	1.25								
2225	10.66	4.95	5.56	1.56	0.00	0.00	15.34	38.07								
2230	18.80	8.73	8.14	2.28	0.00	0.00	27.07	65.02								
2235	33.10	15.37	9.78	2.74	0.00	0.00	47.65	108.64								
2245	2.19	1.03	4.46	1.43	0.04	0.01	3.16	12.32								
2250	10.04	4.66	3.91	1.10	0.00	0.00	14.45	34.16								
2260	2.65	0.92	0.69	0.19	0.07	0.01	3.49	8.02								
2265	3.04	1.06	1.15	0.32	0.07	0.01	4.00	9.65								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
2270	0.86	0.30	0.00	0.19	0.04	0.01	1.13	2.53								
2275	1.70	0.59	0.00	0.31	0.04	0.01	2.24	4.89								
2285	4.80	1.65	3.58	1.00	0.02	0.00	6.31	17.36								
2295	5.70	1.95	6.34	1.78	0.02	0.00	7.49	23.28								
2300	15.48	5.34	12.11	3.39	0.27	0.04	20.37	57.00								
2310	4.87	1.67	3.86	1.08	0.02	0.00	6.39	17.89								
2315	7.53	2.61	8.77	2.45	0.15	0.02	9.91	31.44								
2320	7.74	2.68	8.77	2.45	0.15	0.02	10.19	32.00								
2325	10.33	3.55	10.21	2.86	0.07	0.01	13.58	40.61								
2330	13.27	4.55	17.30	4.85	0.07	0.01	17.44	57.49								
2335	15.74	5.49	10.09	2.83	0.66	0.10	20.75	55.66								
2340	22.71	7.88	10.09	2.83	0.68	0.10	29.90	74.19								
2345	27.86	9.68	13.79	3.86	0.93	0.14	36.69	92.95								
2355	0.17	0.06	0.76	0.24	0.00	0.00	0.23	1.46								
2360	0.21	0.08	1.14	0.36	0.00	0.00	0.29	2.08								
2365	0.21	0.08	1.32	0.42	0.00	0.00	0.29	2.32								
2370	0.46	0.17	1.32	0.42	0.00	0.00	0.65	3.02								
2375	0.59	0.22	1.70	0.55	0.00	0.00	0.82	3.88								
2380	0.66	0.25	2.84	0.91	0.00	0.00	0.93	5.59								
2385	0.97	0.36	3.31	1.06	0.00	0.00	1.36	7.06								
2390	1.30	0.49	6.15	1.97	0.00	0.00	1.82	11.73								
2400	13.49	7.35	2.87	0.92	0.00	0.00	14.70	39.33	16.18	7.45	3.64	1.16	0.00	0.00	20.16	48.59
2405	14.97	10.04	3.52	0.70	0.00	0.00	18.65	47.88	17.27	10.13	4.46	0.89	0.00	0.00	24.20	56.95
2410	15.06	10.10	2.82	0.56	0.00	0.00	15.24	43.78	17.37	10.20	3.64	0.73	0.00	0.00	18.94	50.88
2420	16.43	11.02	2.82	0.56	0.00	0.00	16.63	47.46	18.95	11.12	3.64	0.73	0.00	0.00	20.66	55.10
2430	17.15	11.51	3.09	0.62	0.00	0.00	17.36	49.73	19.79	11.61	3.99	0.80	0.00	0.00	21.57	57.76
2440	20.49	13.75	5.19	1.04	0.00	0.00	25.53	66.00	23.65	13.87	6.58	1.32	0.00	0.00	33.14	78.56
2445	20.06	13.46	4.15	0.83	0.00	0.00	20.30	58.80	23.15	13.58	5.36	1.07	0.00	0.00	25.23	68.39
2455	17.72	14.13	4.15	0.91	0.00	0.00	20.70	57.61	19.94	14.22	5.36	1.18	0.00	0.00	24.84	65.54
2465	21.72	17.32	4.15	0.91	0.00	0.00	25.37	69.47	24.44	17.43	5.36	1.18	0.00	0.00	30.45	78.86
2475	29.66	23.65	7.09	1.56	0.00	0.00	34.64	96.60	33.36	23.80	9.16	2.02	0.00	0.00	41.56	109.90
2485	31.01	24.73	7.09	1.56	0.00	0.00	36.21	100.60	34.88	24.88	9.16	2.02	0.00	0.00	43.45	114.39
2490	29.85	23.80	8.87	1.95	0.00	0.00	41.83	106.30	33.58	23.95	11.23	2.47	0.00	0.00	52.29	123.52
2500	33.57	26.77	7.09	1.56	0.00	0.00	39.21	108.20	37.77	26.93	9.16	2.02	0.00	0.00	47.05	122.93
2510	31.75	28.00	7.09	1.70	0.00	0.00	42.03	110.57	35.28	28.14	9.16	2.20	0.00	0.00	49.45	124.23
2520	33.38	29.43	7.09	1.70	0.00	0.00	44.18	115.78	37.09	29.57	9.16	2.20	0.00	0.00	51.97	129.99
2535	14.27	7.77	3.55	1.14	0.00	0.00	15.56	42.29	17.13	7.89	4.50	1.44	0.00	0.00	21.34	52.30
2540	11.67	7.83	2.84	0.57	0.00	0.00	11.81	34.72	13.46	7.90	3.67	0.73	0.00	0.00	14.68	40.44
2550	22.15	10.20	5.19	1.04	0.00	0.00	27.60	66.18	27.69	10.41	6.82	1.36	0.00	0.00	38.81	85.09
2555	16.45	11.04	4.45	0.89	0.00	0.00	20.49	53.32	18.98	11.14	5.64	1.13	0.00	0.00	26.60	63.49
2560	16.53	11.10	3.56	0.71	0.00	0.00	16.74	48.64	19.08	11.19	4.60	0.92	0.00	0.00	20.80	56.59
2570	31.53	14.52	6.42	1.28	0.00	0.00	39.28	93.03	39.42	14.82	8.43	1.69	0.00	0.00	55.24	119.60
2575	21.55	14.46	5.50	1.10	0.00	0.00	26.84	69.45	24.86	14.59	6.97	1.39	0.00	0.00	34.85	82.66
2585	37.60	20.48	7.39	1.63	0.00	0.00	52.69	119.79	45.12	20.77	9.71	2.14	0.00	0.00	70.26	148.00
2590	35.99	19.60	7.39	1.63	0.00	0.00	50.43	115.04	43.18	19.88	9.71	2.14	0.00	0.00	67.24	142.15
2595	24.79	19.77	6.33	1.39	0.00	0.00	34.74	87.02	27.89	19.89	8.02	1.77	0.00	0.00	43.43	101.00
2600	24.25	19.34	5.07	1.11	0.00	0.00	28.32	78.09	27.28	19.46	6.55	1.44	0.00	0.00	33.99	88.72
2610	30.52	24.34	6.01	1.32	0.00	0.00	35.65	97.84	34.34	24.49	7.76	1.71	0.00	0.00	42.78	111.08
2615	29.17	23.26	7.51	1.65	0.00	0.00	40.89	102.48	32.82	23.41	9.51	2.09	0.00	0.00	51.11	118.94
2625	45.30	24.67	8.87	1.95	0.00	0.00	63.49	144.28	54.36	25.03	11.66	2.55	0.00	0.00	84.65	178.25
2630	42.85	23.34	8.87	1.95	0.00	0.00	60.05	137.06	51.42	23.67	11.66	2.56	0.00	0.00	80.07	169.38
2635	27.09	21.60	7.60	1.67	0.00	0.00	37.96	95.92	30.48	21.73	9.63	2.12	0.00	0.00	47.46	111.42
2645	58.72	33.41	13.16	3.16	0.00	0.00	94.41	202.86	68.51	33.79	17.29	4.15	0.00	0.00	120.16	243.90
2650	31.75	28.00	11.28	2.71	0.00	0.00	49.44	123.18	35.28	28.13	14.29	3.43	0.00	0.00	60.43	141.56
2665	11.36	7.62	2.72	0.54	0.00	0.00	11.50	33.74	13.11	7.69	3.51	0.70	0.00	0.00	14.29	39.30

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	
2675	14.95	11.92	4.08	0.90	0.00	0.00	17.46	49.31	16.82	12.00	5.27	1.16	0.00	0.00	20.95	56.20
2685	20.53	16.37	4.23	0.93	0.00	0.00	23.98	66.04	23.09	16.47	5.46	1.20	0.00	0.00	28.77	74.99
2695	30.93	24.67	6.06	1.33	0.00	0.00	36.12	99.11	34.80	24.82	7.82	1.72	0.00	0.00	43.35	112.51
2710	21.34	17.02	8.87	1.95	0.00	0.00	29.91	79.09	24.01	17.12	11.23	2.47	0.00	0.00	37.39	92.22
2715	23.45	18.70	7.09	1.56	0.00	0.00	27.39	78.19	26.38	18.81	9.16	2.02	0.00	0.00	32.86	89.23
2730	27.71	22.10	7.42	1.63	0.00	0.00	32.36	91.22	31.17	22.23	9.58	2.11	0.00	0.00	38.83	103.92
2740	35.90	28.63	11.12	2.45	0.00	0.00	50.32	128.42	40.39	28.81	14.09	3.10	0.00	0.00	62.90	149.29
2745	34.69	30.59	8.90	2.14	0.00	0.00	45.92	122.24	38.55	30.74	11.49	2.76	0.00	0.00	54.03	137.57
2755	51.22	45.17	16.93	4.06	0.00	0.00	67.80	185.18	56.91	45.39	21.87	5.25	0.00	0.00	79.76	209.18
2760	50.69	44.69	21.17	5.08	0.00	0.00	78.93	200.56	56.32	44.91	26.81	6.43	0.00	0.00	96.47	230.94
2775	15.26	10.24	7.35	1.47	0.00	0.00	19.01	53.33	17.61	10.33	9.32	1.86	0.00	0.00	24.68	63.80
2780	15.09	10.13	5.88	1.18	0.00	0.00	15.27	47.55	17.41	10.22	7.60	1.52	0.00	0.00	18.98	55.73
2790	37.86	17.43	9.48	1.90	0.00	0.00	47.17	113.84	47.33	17.80	12.46	2.49	0.00	0.00	66.33	146.41
2795	21.74	14.59	8.13	1.63	0.00	0.00	27.08	73.17	25.08	14.72	10.29	2.06	0.00	0.00	35.16	87.31
2800	21.38	14.35	6.50	1.30	0.00	0.00	21.65	65.18	24.67	14.48	8.40	1.68	0.00	0.00	26.90	76.13
2810	20.59	16.42	9.39	2.07	0.00	0.00	28.85	77.32	23.16	16.52	11.90	2.62	0.00	0.00	36.06	90.26
2815	20.29	16.18	7.51	1.65	0.00	0.00	23.69	69.32	22.82	16.28	9.71	2.14	0.00	0.00	28.43	79.38
2825	51.06	27.81	12.91	2.84	0.00	0.00	71.56	166.18	61.27	28.21	16.96	3.73	0.00	0.00	95.41	205.58
2830	29.54	23.56	11.06	2.43	0.00	0.00	41.40	107.99	33.23	23.70	14.01	3.08	0.00	0.00	51.75	125.77
2835	30.74	24.51	8.85	1.95	0.00	0.00	35.90	101.95	34.58	24.66	11.43	2.51	0.00	0.00	43.08	116.26
2845	28.43	25.06	14.09	3.38	0.00	0.00	44.26	115.22	31.58	25.19	17.85	4.28	0.00	0.00	54.10	133.00
2850	33.27	26.53	11.27	2.48	0.00	0.00	38.85	112.40	37.43	26.69	14.56	3.20	0.00	0.00	46.62	128.50
2865	16.75	11.24	4.33	0.87	0.00	0.00	20.86	54.05	19.32	11.34	5.48	1.10	0.00	0.00	27.08	64.32
2870	14.38	11.47	3.46	0.76	0.00	0.00	16.80	46.87	16.18	11.54	4.47	0.98	0.00	0.00	20.16	53.33
2880	20.92	14.04	6.12	1.22	0.00	0.00	26.07	68.37	24.14	14.17	7.75	1.55	0.00	0.00	33.83	81.44
2885	18.12	14.45	4.89	1.08	0.00	0.00	21.16	59.70	20.39	14.54	6.32	1.39	0.00	0.00	25.40	68.04
2890	21.01	16.75	7.29	1.60	0.00	0.00	29.44	76.09	23.63	16.85	9.24	2.03	0.00	0.00	36.80	88.55
2895	22.17	17.68	5.83	1.28	0.00	0.00	25.89	72.85	24.94	17.78	7.54	1.66	0.00	0.00	31.06	82.98
2900	58.69	51.75	9.34	2.24	0.00	0.00	77.69	199.71	65.21	52.01	12.07	2.90	0.00	0.00	91.40	223.59
2910	5.84	3.93	4.38	1.32	0.94	0.14	6.01	22.56								
2915	6.28	4.21	4.50	1.35	0.94	0.14	6.46	23.88								
2920	6.98	4.72	4.50	1.35	1.23	0.18	7.20	26.16								
2925	7.67	5.16	4.50	1.35	1.27	0.19	7.90	28.04								
2930	10.24	6.87	6.11	1.83	1.12	0.17	10.55	36.89								
2935	14.05	9.52	6.65	2.00	2.71	0.41	14.49	49.83								
2940	16.65	11.35	6.65	2.00	3.56	0.53	17.19	57.93								
2945	20.66	13.98	8.14	2.44	3.83	0.58	21.30	70.93								
2950	26.47	18.04	9.00	2.70	5.64	0.85	27.33	90.03								
2955	50.01	34.05	20.04	6.01	10.47	1.57	51.61	173.76								
2965	5.99	4.02	4.46	1.34	0.88	0.13	6.17	22.99								
2970	6.41	4.28	4.74	1.42	0.88	0.13	6.60	24.46								
2975	9.88	6.67	7.05	2.11	1.73	0.26	10.18	37.88								
2985	6.50	4.36	4.89	1.47	0.95	0.14	6.69	25.00								
2990	7.10	4.74	4.89	1.47	0.95	0.14	7.31	26.60								
2995	7.55	5.03	5.01	1.50	0.95	0.14	7.77	27.95								
3000	7.59	5.06	5.01	1.50	0.95	0.14	7.81	28.06								
3005	9.41	6.27	6.07	1.82	1.22	0.18	9.68	34.65								
3010	9.69	6.46	6.07	1.82	1.22	0.18	9.97	35.41								
3015	10.03	6.68	6.07	1.82	1.22	0.18	10.31	36.31								
3020	13.14	8.94	7.91	2.37	2.71	0.41	13.55	49.03								
3025	13.54	9.25	7.91	2.37	3.03	0.45	13.98	50.53								
3030	14.07	9.59	7.91	2.37	3.03	0.45	14.52	51.94								
3035	18.13	12.35	9.20	2.76	3.83	0.58	18.71	65.56								
3045	5.29	3.49	4.62	1.39	0.45	0.07	5.44	20.75								
3050	5.42	3.59	4.62	1.39	0.55	0.08	5.57	21.22								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE	
3055	5.63	3.73	4.62	1.39	0.55	0.08	5.79	21.79								
3060	6.44	4.31	4.62	1.39	0.95	0.14	6.63	24.48								
3065	10.62	7.20	6.89	2.07	2.03	0.30	10.96	40.07								
3070	11.54	7.91	6.89	2.07	2.71	0.41	11.93	43.46								
3075	14.41	9.76	7.36	2.21	2.71	0.41	14.86	51.72								
3085	9.73	7.19	6.39	1.66	0.86	0.13	8.57	34.53	10.95	7.24	8.21	2.13	1.04	0.16	10.44	40.17
3090	16.91	12.42	9.18	2.39	1.13	0.17	14.88	57.08	19.03	12.50	11.86	3.08	1.37	0.21	18.13	66.18
3100	11.23	6.93	6.73	2.42	0.56	0.08	8.23	36.18	12.96	7.00	8.86	3.19	0.69	0.10	10.44	43.24
3105	11.21	8.29	7.95	2.07	1.06	0.16	9.87	40.61	12.61	8.35	10.45	2.72	1.30	0.19	12.03	47.65
3110	14.01	10.31	8.34	2.17	1.08	0.16	12.33	48.40	15.76	10.38	10.97	2.85	1.32	0.20	15.03	56.51
3115	18.40	15.21	9.33	2.43	2.77	0.42	18.94	67.50	20.45	15.29	12.03	3.13	3.42	0.51	22.55	77.38
3120	28.67	23.38	9.62	2.50	2.77	0.42	29.45	96.81	31.86	23.51	12.37	3.21	3.42	0.51	35.06	109.94
3125	28.71	28.44	14.84	3.86	3.19	0.48	35.96	115.48	31.59	28.56	19.17	4.98	3.94	0.59	42.03	130.86
3135	10.33	6.40	8.45	3.04	0.66	0.10	7.58	36.56	11.92	6.47	11.12	4.00	0.82	0.12	9.62	44.07
3140	9.79	7.18	8.45	2.20	0.66	0.10	8.61	36.99	11.01	7.23	11.12	2.89	0.82	0.12	10.49	43.68
3145	14.41	10.60	9.32	2.42	1.05	0.16	12.68	50.64	16.21	10.67	12.26	3.19	1.27	0.19	15.45	59.24
3155	11.07	6.84	8.22	2.96	0.59	0.09	8.11	37.88	12.77	6.91	10.81	3.89	0.72	0.11	10.30	45.51
3160	11.65	8.60	9.55	2.48	1.03	0.15	10.26	43.72	13.11	8.66	12.57	3.27	1.26	0.19	12.50	51.56
3165	12.63	9.31	9.32	2.42	1.03	0.15	11.12	45.98	14.21	9.37	12.26	3.19	1.26	0.19	13.55	54.03
3170	14.19	11.64	12.60	3.28	1.73	0.26	14.59	58.29	15.77	11.70	16.58	4.31	2.14	0.32	17.37	68.19
3180	19.28	14.26	5.97	1.55	1.85	0.28	16.98	60.17	21.69	14.36	7.64	1.99	2.28	0.34	20.69	68.99
3185	17.69	14.45	5.97	1.55	1.85	0.28	18.17	59.96	19.66	14.53	7.64	1.99	2.28	0.34	21.64	68.08
3190	21.87	17.78	9.76	2.54	1.85	0.28	22.45	76.53	24.30	17.87	12.63	3.28	2.28	0.34	26.72	87.42
3195	23.45	19.12	10.50	2.73	2.25	0.34	24.08	82.47	26.05	19.22	13.49	3.51	2.78	0.42	28.67	94.14
3200	28.84	28.36	12.65	3.29	2.25	0.34	36.06	111.79	31.72	28.47	16.33	4.24	2.78	0.42	42.14	126.10
3205	40.30	39.97	13.58	3.53	4.66	0.70	50.48	153.22	44.33	40.13	17.41	4.53	5.75	0.86	59.00	172.01
3215	16.75	12.44	5.78	1.50	1.85	0.28	14.76	53.36	18.84	12.52	7.38	1.92	2.28	0.34	17.99	61.27
3220	22.57	18.37	8.42	2.19	2.02	0.30	23.17	77.04	25.08	18.47	10.79	2.81	2.49	0.37	27.59	87.60
3225	22.58	22.31	8.66	2.25	2.25	0.34	28.26	86.65	24.84	22.40	11.10	2.89	2.78	0.42	33.03	97.46
3235	20.65	16.84	9.89	2.57	2.02	0.30	21.20	73.47	22.94	16.93	12.76	3.32	2.49	0.37	25.24	84.05
3240	21.47	21.26	10.40	2.70	2.30	0.35	26.89	85.37	23.62	21.35	13.42	3.49	2.82	0.42	31.42	96.54
3250	14.13	8.72	4.42	1.59	0.76	0.11	10.35	40.08	16.30	8.81	5.64	2.03	0.95	0.14	13.14	47.01
3255	13.11	9.62	4.66	1.21	0.89	0.13	11.53	41.15	14.75	9.69	5.94	1.55	1.10	0.16	14.06	47.25
3260	14.66	10.79	4.93	1.28	1.16	0.17	12.90	45.89	16.49	10.87	6.28	1.63	1.43	0.21	15.72	52.63
3265	18.80	13.91	6.74	1.75	1.85	0.28	16.56	59.89	21.15	14.01	8.65	2.25	2.28	0.34	20.18	68.86
3270	21.19	17.32	8.43	2.19	2.25	0.34	21.77	73.49	23.54	17.41	10.76	2.80	2.78	0.42	25.91	83.52
3275	23.80	23.49	10.38	2.70	2.25	0.34	29.78	92.74	26.18	23.58	13.34	3.47	2.78	0.42	34.81	104.58
3280	50.81	49.85	17.03	4.43	3.47	0.52	63.50	189.61	55.89	50.05	21.99	5.72	4.28	0.64	74.22	212.79
3290	10.76	10.62	7.34	8.74	0.00	0.00	15.42	52.88								
3295	0.47	0.47	0.00	0.00	0.00	0.00	0.68	1.62								
3300	1.75	1.72	0.00	0.00	0.00	0.00	2.50	5.97								
3305	13.52	13.34	12.85	11.50	0.00	0.00	19.39	70.60								
3310	0.47	0.47	0.00	0.00	0.00	0.00	0.68	1.62								
3315	1.75	1.72	0.00	0.00	0.00	0.00	2.50	5.97								
3320	16.55	16.33	12.85	11.50	0.00	0.00	23.72	80.95								
3325	0.60	0.59	0.00	0.00	0.00	0.00	0.86	2.05								
3330	1.82	1.79	0.00	0.00	0.00	0.00	2.60	6.21								
3335	19.17	18.91	20.20	15.17	0.00	0.00	27.47	100.92								
3340	0.64	0.63	0.00	0.00	0.00	0.00	0.92	2.19								
3345	3.43	3.39	0.00	0.00	0.00	0.00	4.92	11.74								
3350	20.28	20.01	20.20	15.17	0.00	0.00	29.07	104.73								
3355	0.60	0.59	0.00	0.00	0.00	0.00	0.86	2.05								
3360	3.59	3.55	0.00	0.00	0.00	0.00	5.15	12.29								
3370	5.75	2.63	0.00	0.79	0.00	0.00	7.89	17.06								
3375	5.44	2.49	0.00	0.79	0.00	0.00	7.46	16.18								

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	
3380	5.98	2.73	0.00	0.79	0.00	0.00	8.20	17.70								
3385	7.11	3.25	0.00	0.84	0.00	0.00	9.76	20.96								
3390	8.04	3.68	0.00	0.89	0.00	0.00	11.03	23.64								
3400	6.41	2.93	0.00	0.79	0.00	0.00	8.79	18.92								
3405	6.98	3.19	0.00	0.84	0.00	0.00	9.58	20.59								
3410	9.64	4.41	4.84	1.16	0.00	0.00	13.22	33.27								
3420	3.17	1.45	0.00	0.50	0.00	0.00	4.34	9.46								
3425	5.59	2.56	0.00	0.80	0.00	0.00	7.67	16.62								
3430	6.60	3.02	0.00	0.80	0.00	0.00	9.05	19.47								
3435	8.16	3.73	0.00	0.90	0.00	0.00	11.20	23.99								
3440	17.44	7.97	7.99	1.92	0.00	0.00	23.92	59.24								
3450	1.43	0.65	0.00	0.31	0.00	0.00	1.96	4.35								
3455	0.92	0.42	0.00	0.31	0.00	0.00	1.26	2.91								
3460	0.14	0.06	0.00	0.25	0.00	0.00	0.19	0.64								
3470	2.42	1.11	2.13	0.51	0.00	0.00	3.33	9.50								
3475	1.66	0.76	0.97	0.23	0.00	0.00	2.28	5.90								
3485	1.37	0.62	1.01	0.16	0.00	0.00	1.87	5.03								
3490	2.09	0.95	2.61	0.42	0.00	0.00	2.86	8.93								
3495	2.48	1.14	1.94	0.46	0.00	0.00	3.41	9.43								
3500	2.85	1.30	2.61	0.63	0.00	0.00	3.91	11.30								
3505	3.43	1.57	2.90	0.70	0.00	0.00	4.70	13.30								
3515	1.44	0.66	1.52	0.24	0.00	0.00	1.98	5.84								
3520	2.23	1.02	2.37	0.57	0.00	0.00	3.06	9.25								
3530	13.23	8.82	10.17	3.86	0.00	0.00	18.15	54.23								
3535	17.14	11.59	14.72	5.59	1.39	0.21	23.58	74.22								
3540	15.96	10.76	21.06	8.00	0.99	0.15	21.94	78.86								
3550	17.55	11.86	17.61	6.69	1.25	0.19	24.14	79.29								
3555	25.47	17.23	16.22	6.16	1.99	0.30	35.04	102.41								
3560	28.86	19.49	16.94	6.44	1.99	0.30	39.69	113.71								
3565	21.33	14.22	19.85	7.54	0.00	0.00	29.26	92.20								
3570	24.75	16.50	19.85	7.54	0.00	0.00	33.96	102.60								
3575	25.67	22.48	25.37	8.12	0.00	0.00	35.21	116.85								
3580	47.16	41.30	124.10	62.05	0.00	0.00	32.35	306.96								
3600	1.32	0.62	2.20	0.99	0.06	0.01	1.45	6.65								
3605	1.33	0.63	2.20	0.99	0.06	0.01	1.45	6.67								
3610	1.40	0.66	2.20	0.99	0.08	0.01	1.53	6.87								
3615	1.93	0.91	3.92	1.76	0.09	0.01	2.12	10.74								
3620	1.98	0.93	3.92	1.76	0.09	0.01	2.16	10.85								
3625	2.18	1.03	5.75	2.59	0.09	0.01	2.39	14.04								
3630	2.69	1.27	6.49	2.92	0.14	0.02	2.94	16.47								
3635	2.82	1.33	6.49	2.92	0.12	0.02	3.09	16.79								
3640	3.01	1.40	6.49	2.92	0.09	0.01	3.28	17.20								
3645	1.28	0.59	2.54	0.61	0.03	0.00	1.39	6.44								
3650	1.65	0.79	3.29	0.79	0.12	0.02	1.81	8.47								
3655	1.65	0.81	3.29	0.79	0.22	0.03	1.81	8.60								
3660	2.34	1.11	4.32	1.04	0.15	0.02	2.57	11.55								
3665	2.37	1.13	4.32	1.04	0.15	0.02	2.60	11.63								
3670	2.47	1.17	4.32	1.04	0.15	0.02	2.70	11.87								
3675	3.54	1.68	2.58	0.62	0.23	0.03	3.88	12.56								
3680	3.83	1.81	2.74	0.66	0.23	0.03	4.19	13.49								
3685	4.97	2.40	4.89	1.17	0.50	0.07	5.46	19.46								
3690	5.44	2.61	4.89	1.17	0.50	0.07	5.97	20.65								
3695	5.60	2.69	4.89	1.17	0.50	0.08	6.15	21.08								
3700	6.24	3.02	4.89	1.17	0.65	0.10	6.86	22.93								
3705	2.21	1.07	2.66	0.64	0.21	0.03	2.43	9.25								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRES WEAR	TIRES RPR	REPR	TOTAL RATE
3710	2.27	1.09	2.66	0.64	0.21	0.03	2.49	9.39								
3715	2.76	1.32	2.66	0.64	0.21	0.03	3.03	10.65								
3720	2.78	1.37	2.66	0.64	0.39	0.06	3.07	10.97								
3730	1.27	0.62	4.32	1.04	0.14	0.02	1.40	8.81								
3735	1.86	0.89	5.49	1.32	0.15	0.02	2.04	11.77								
3740	3.71	1.75	7.96	1.91	0.19	0.03	4.06	19.61								
3745	4.96	2.40	8.72	2.09	0.51	0.08	5.45	24.21								
3750	5.79	2.78	8.72	2.09	0.51	0.08	6.36	26.33								
3755	5.79	2.80	8.72	2.09	0.59	0.09	6.37	26.45								
3760	6.29	3.01	8.72	2.09	0.50	0.08	6.90	27.59								
3765	12.82	6.13	13.04	3.13	1.04	0.16	14.07	50.39								
3780	1.81	0.62	5.79	1.39	0.00	0.00	1.61	11.22	2.06	0.63	7.62	1.83	0.00	0.00	2.15	14.29
3785	2.36	0.81	7.32	1.76	0.00	0.00	2.11	14.36	2.70	0.83	9.63	2.31	0.00	0.00	2.82	18.29
3790	2.55	0.88	8.61	2.07	0.00	0.00	2.28	16.39	2.91	0.89	11.33	2.72	0.00	0.00	3.04	20.89
3795	2.74	0.94	11.35	2.72	0.00	0.00	2.45	20.20	3.13	0.96	14.93	3.58	0.00	0.00	3.26	25.86
3800	3.13	1.07	14.48	3.48	0.00	0.00	2.80	24.96	3.58	1.09	19.05	4.57	0.00	0.00	3.73	32.02
3805	3.72	1.28	14.48	3.48	0.00	0.00	3.33	26.29	4.26	1.30	19.05	4.57	0.00	0.00	4.43	33.61
3810	4.15	1.42	17.61	4.23	0.00	0.00	3.71	31.12	4.74	1.45	23.17	5.56	0.00	0.00	4.94	39.86
3815	5.01	1.72	19.57	4.70	0.00	0.00	4.48	35.48	5.73	1.75	25.75	6.18	0.00	0.00	5.97	45.38
3820	6.78	2.33	25.44	6.11	0.00	0.00	6.06	46.72	7.75	2.37	33.47	8.03	0.00	0.00	8.08	59.70
3825	9.05	3.11	33.07	7.94	0.00	0.00	8.08	61.25	10.34	3.16	43.52	10.44	0.00	0.00	10.77	78.23
3830	12.32	4.23	48.92	11.74	0.00	0.00	11.00	88.21	14.08	4.30	64.37	15.45	0.00	0.00	14.67	112.87
3835	16.13	5.54	56.75	13.62	0.00	0.00	14.40	106.44	18.43	5.63	74.67	17.92	0.00	0.00	19.20	135.85
3845	0.09	0.03	0.34	0.08	0.00	0.00	0.08	0.62	0.10	0.03	0.45	0.11	0.00	0.00	0.11	0.80
3850	0.14	0.05	0.55	0.13	0.00	0.00	0.12	0.99	0.16	0.05	0.72	0.17	0.00	0.00	0.17	1.27
3855	0.18	0.06	0.82	0.20	0.00	0.00	0.16	1.42	0.21	0.06	1.07	0.26	0.00	0.00	0.21	1.81
3870	0.16	0.05	0.41	0.10	0.00	0.00	0.14	0.86	0.18	0.06	0.54	0.13	0.00	0.00	0.19	1.10
3875	0.36	0.12	0.96	0.23	0.00	0.00	0.32	1.99	0.41	0.12	1.25	0.30	0.00	0.00	0.43	2.51
3880	0.39	0.13	1.37	0.33	0.00	0.00	0.35	2.57	0.45	0.14	1.79	0.43	0.00	0.00	0.47	3.28
3885	0.41	0.14	0.23	0.06	0.00	0.00	0.37	1.21	0.47	0.14	0.31	0.07	0.00	0.00	0.49	1.48
3890	0.55	0.19	0.47	0.11	0.00	0.00	0.49	1.81	0.63	0.19	0.62	0.15	0.00	0.00	0.66	2.25
3895	0.79	0.27	0.86	0.21	0.00	0.00	0.71	2.84	0.90	0.28	1.13	0.27	0.00	0.00	0.94	3.52
3900	0.82	0.28	1.06	0.25	0.00	0.00	0.73	3.14	0.94	0.29	1.39	0.33	0.00	0.00	0.97	3.92
3905	1.21	0.42	2.47	0.59	0.00	0.00	1.08	5.77	1.39	0.42	3.24	0.78	0.00	0.00	1.44	7.27
3910	1.60	0.55	3.41	0.82	0.00	0.00	1.43	7.81	1.83	0.56	4.48	1.08	0.00	0.00	1.91	9.86
3915	1.84	0.63	3.99	0.96	0.00	0.00	1.64	9.06	2.10	0.64	5.25	1.26	0.00	0.00	2.19	11.44
3920	2.19	0.75	6.34	1.52	0.00	0.00	1.95	12.75	2.50	0.76	8.34	2.00	0.00	0.00	2.61	16.21
3925	2.29	0.79	6.34	1.52	0.00	0.00	2.05	12.99	2.62	0.80	8.34	2.00	0.00	0.00	2.73	16.49
3930	2.67	0.92	8.22	1.97	0.00	0.00	2.38	16.16	3.05	0.93	10.81	2.60	0.00	0.00	3.18	20.57
3935	3.17	1.09	10.80	2.59	0.00	0.00	2.83	20.48	3.62	1.10	14.21	3.41	0.00	0.00	3.77	26.11
3945	0.10	0.03	0.34	0.08	0.00	0.00	0.09	0.64	0.11	0.03	0.45	0.11	0.00	0.00	0.12	0.82
3950	0.11	0.04	0.48	0.12	0.00	0.00	0.10	0.85	0.12	0.04	0.63	0.15	0.00	0.00	0.13	1.07
3955	0.15	0.05	0.55	0.13	0.00	0.00	0.14	1.02	0.17	0.05	0.72	0.17	0.00	0.00	0.18	1.29
3960	0.19	0.07	0.69	0.16	0.00	0.00	0.17	1.28	0.22	0.07	0.89	0.21	0.00	0.00	0.23	1.62
3965	0.20	0.07	1.10	0.26	0.00	0.00	0.18	1.81	0.23	0.07	1.43	0.34	0.00	0.00	0.24	2.31
3970	0.19	0.07	1.10	0.26	0.00	0.00	0.17	1.79	0.22	0.07	1.43	0.34	0.00	0.00	0.23	2.29
3985	6.50	4.05	4.51	1.53	0.45	0.07	6.62	23.73	7.80	4.10	5.92	2.01	0.61	0.09	9.27	29.80
3990	7.48	4.64	4.87	1.65	0.45	0.07	7.61	26.77	8.97	4.70	6.40	2.17	0.61	0.09	10.65	33.59
3995	8.02	4.97	4.87	1.65	0.50	0.07	8.16	28.24	9.62	5.04	6.40	2.17	0.67	0.10	11.42	35.42
4000	8.13	5.06	5.41	1.84	0.58	0.09	8.28	29.39	9.76	5.13	7.11	2.42	0.78	0.12	11.59	36.91
4005	11.22	7.10	6.49	2.21	1.26	0.19	11.48	39.95	13.47	7.19	8.53	2.90	1.71	0.26	16.07	50.13
4010	16.06	10.19	9.01	3.06	1.97	0.30	16.45	57.04	19.28	10.32	11.84	4.03	2.67	0.40	23.03	71.57
4020	6.21	3.89	4.87	1.65	0.55	0.08	6.34	23.59	7.46	3.94	6.40	2.17	0.74	0.11	8.88	29.70
4025	7.39	4.62	5.48	1.86	0.63	0.09	7.54	27.61	8.87	4.68	7.20	2.45	0.85	0.13	10.55	34.73
4030	7.61	4.76	6.49	2.21	0.63	0.09	7.77	29.56	9.14	4.82	8.53	2.90	0.85	0.13	10.87	37.24

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	
4035	8.38	5.22	7.57	2.57	0.63	0.09	8.54	33.00	10.05	5.29	9.95	3.38	0.85	0.13	11.95	41.60
4040	5.84	3.66	4.87	1.65	0.55	0.08	5.96	22.61	7.00	3.71	6.40	2.17	0.74	0.11	8.34	28.47
4045	6.41	4.03	5.48	1.86	0.63	0.09	6.55	25.05	7.70	4.09	7.20	2.45	0.85	0.13	9.17	31.59
4050	6.94	4.35	6.49	2.21	0.63	0.09	7.09	27.80	8.33	4.41	8.53	2.90	0.85	0.13	9.92	35.07
4055	7.89	4.93	7.57	2.57	0.63	0.09	8.05	31.73	9.47	4.99	9.95	3.38	0.85	0.13	11.26	40.03
4060	8.81	5.63	7.57	2.57	1.26	0.19	9.04	35.07	10.57	5.70	9.95	3.38	1.71	0.26	12.65	44.22
4070	3.50	2.18	2.45	0.83	0.25	0.04	3.57	12.82	4.20	2.21	3.22	1.10	0.34	0.05	4.99	16.11
4075	5.40	3.39	4.69	1.59	0.50	0.07	5.51	21.15	6.48	3.43	6.16	2.09	0.67	0.10	7.72	26.65
4080	5.79	3.64	5.23	1.78	0.58	0.09	5.92	23.03	6.95	3.69	6.87	2.34	0.78	0.12	8.28	29.03
4085	6.11	3.90	5.77	1.96	0.84	0.13	6.27	24.98	7.33	3.95	7.58	2.58	1.14	0.17	8.77	31.52
4095	2.94	1.82	4.31	0.86	0.18	0.03	2.99	13.13	3.53	1.85	5.59	1.12	0.24	0.04	4.19	16.56
4100	6.22	3.87	5.23	1.78	0.45	0.07	6.33	23.95	7.46	3.92	6.87	2.34	0.61	0.09	8.87	30.16
4105	8.32	5.17	6.31	2.14	0.58	0.09	8.47	31.08	9.98	5.24	8.29	2.82	0.78	0.12	11.86	39.09
4110	8.63	5.36	7.10	2.41	0.58	0.09	8.79	32.96	10.35	5.43	9.33	3.17	0.78	0.12	12.30	41.48
4120	0.49	0.22	0.00	0.10	0.00	0.00	0.61	1.42								
4125	0.79	0.36	0.00	0.19	0.00	0.00	0.98	2.32								
4130	0.96	0.44	0.00	0.30	0.00	0.00	1.19	2.89								
4135	2.47	1.14	0.00	0.41	0.00	0.00	3.08	7.10								
4145	5.79	2.67	3.91	0.94	0.00	0.00	7.21	20.52								
4150	7.84	3.61	3.91	0.94	0.00	0.00	9.75	26.05								
4155	12.06	5.55	5.09	1.22	0.00	0.00	14.99	38.91								
4160	13.39	6.16	5.87	1.41	0.00	0.00	16.66	43.49								
4180	13.24	6.10	5.77	1.15	0.00	0.00	16.50	42.76	16.55	6.23	7.58	1.52	0.00	0.00	23.20	55.08
4185	18.92	8.71	8.47	1.69	0.00	0.00	23.57	61.36	23.65	8.90	11.13	2.23	0.00	0.00	33.15	79.06
4190	22.86	10.53	11.10	2.22	0.00	0.00	28.48	75.19	28.58	10.75	14.59	2.92	0.00	0.00	40.05	96.89
4195	39.75	21.65	22.21	4.89	0.00	0.00	55.70	144.20	47.70	21.96	29.19	6.42	0.00	0.00	74.27	179.54
4205	17.23	7.15	6.34	2.41	0.00	0.00	20.10	53.23	22.97	7.38	8.34	3.17	0.00	0.00	30.62	72.48
4210	20.29	9.34	7.39	1.48	0.00	0.00	25.27	63.77	25.36	9.54	9.71	1.94	0.00	0.00	35.54	82.09
4215	25.57	11.77	8.94	1.79	0.00	0.00	31.85	79.92	31.96	12.02	11.75	2.35	0.00	0.00	44.80	102.88
4220	35.67	19.43	14.13	3.11	0.00	0.00	49.99	122.33	42.80	19.70	18.57	4.09	0.00	0.00	66.65	151.81
4230	10.20	4.24	4.15	1.58	0.00	0.00	11.90	32.07	13.60	4.37	5.45	2.07	0.00	0.00	18.13	43.62
4235	12.53	5.20	5.95	2.26	0.00	0.00	14.62	40.56	16.71	5.37	7.82	2.97	0.00	0.00	22.28	55.15
4240	12.45	5.73	7.21	1.44	0.00	0.00	15.51	42.34	15.56	5.85	9.48	1.90	0.00	0.00	21.81	54.60
4250	11.21	4.65	3.79	1.44	0.00	0.00	13.07	34.16	14.95	4.80	4.97	1.89	0.00	0.00	19.92	46.53
4255	15.04	6.24	4.87	1.85	0.00	0.00	17.54	45.54	20.05	6.44	6.40	2.43	0.00	0.00	26.73	62.05
4260	23.54	10.84	7.03	1.41	0.00	0.00	29.32	72.14	29.42	11.07	9.24	1.85	0.00	0.00	41.23	92.31
4265	36.60	16.85	11.72	2.34	0.00	0.00	45.59	113.10	45.75	17.20	15.40	3.08	0.00	0.00	64.11	145.54
4280	15.02	6.24	4.15	1.58	0.00	0.00	17.52	44.51	20.03	6.43	5.45	2.07	0.00	0.00	26.70	60.58
4285	15.73	6.53	5.23	1.99	0.00	0.00	18.34	47.82	20.97	6.73	6.87	2.61	0.00	0.00	27.95	65.13
4290	18.77	7.80	5.23	1.99	0.00	0.00	21.90	55.69	25.03	8.04	6.87	2.61	0.00	0.00	33.37	75.92
4295	21.64	9.96	9.81	1.96	0.00	0.00	26.96	70.33	27.05	10.17	12.89	2.58	0.00	0.00	37.91	90.60
4310	12.28	5.65	6.49	1.30	0.00	0.00	15.29	41.01	15.34	5.77	8.53	1.71	0.00	0.00	21.51	52.36
4315	22.04	10.15	10.45	2.09	0.00	0.00	27.45	72.18	27.55	10.36	13.74	2.75	0.00	0.00	38.61	93.01
4320	25.81	14.06	14.06	3.09	0.00	0.00	36.17	93.19	30.97	14.26	18.48	4.07	0.00	0.00	48.23	116.01
4330	7.09	2.95	2.70	1.03	0.00	0.00	8.27	22.04	9.46	3.04	3.55	1.35	0.00	0.00	12.61	30.01
4335	10.09	4.19	4.51	1.71	0.00	0.00	11.76	32.26	13.45	4.32	5.92	2.25	0.00	0.00	17.92	43.86
4340	12.97	5.39	5.59	2.12	0.00	0.00	15.13	41.20	17.29	5.55	7.34	2.79	0.00	0.00	23.05	56.02
4345	18.24	8.40	7.57	1.51	0.00	0.00	22.72	58.44	22.80	8.57	9.95	1.99	0.00	0.00	31.95	75.26
4350	20.55	9.46	9.37	1.87	0.00	0.00	25.61	66.86	25.69	9.66	12.32	2.46	0.00	0.00	36.01	86.14
4360	11.32	4.70	3.89	1.48	0.00	0.00	13.20	34.59	15.09	4.85	5.12	1.94	0.00	0.00	20.12	47.12
4365	12.84	5.91	5.16	1.03	0.00	0.00	16.00	40.94	16.05	6.04	6.78	1.36	0.00	0.00	22.50	52.73
4370	15.39	7.08	7.57	1.51	0.00	0.00	19.17	50.72	19.23	7.23	9.95	1.99	0.00	0.00	26.96	65.36
4375	22.40	10.31	8.65	1.73	0.00	0.00	27.90	70.99	28.00	10.53	11.37	2.27	0.00	0.00	39.24	91.41
4380	27.89	12.84	11.07	2.21	0.00	0.00	34.75	88.76	34.87	13.11	14.55	2.91	0.00	0.00	48.86	114.30
4385	29.87	16.27	11.97	2.63	0.00	0.00	41.86	102.60	35.84	16.50	15.73	3.46	0.00	0.00	55.81	127.34

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	
4390	37.12	20.22	15.14	3.33	0.00	0.00	52.02	127.83	44.54	20.51	19.90	4.38	0.00	0.00	69.36	158.69
4395	41.36	22.53	16.73	3.68	0.00	0.00	57.97	142.27	49.63	22.85	21.98	4.84	0.00	0.00	77.29	176.59
4400	54.94	31.26	23.94	5.74	0.00	0.00	88.33	204.21	64.10	31.62	31.46	7.55	0.00	0.00	112.43	247.16
4405	64.12	36.48	29.99	7.20	0.00	0.00	103.09	240.98	74.81	36.90	39.42	9.46	0.00	0.00	131.21	291.80
4415	7.17	2.98	3.24	1.23	0.00	0.00	8.36	22.98	9.55	3.07	4.26	1.62	0.00	0.00	12.74	31.24
4420	9.43	4.34	3.79	0.76	0.00	0.00	11.74	30.06	11.78	4.43	4.97	0.99	0.00	0.00	16.51	38.68
4425	12.10	5.57	4.90	0.98	0.00	0.00	15.07	38.62	15.12	5.69	6.44	1.29	0.00	0.00	21.19	49.73
4430	14.89	6.86	6.49	1.30	0.00	0.00	18.55	48.09	18.61	7.00	8.53	1.71	0.00	0.00	26.09	61.94
4435	35.46	16.32	14.78	2.96	0.00	0.00	44.17	113.59	44.32	16.67	19.43	3.89	0.00	0.00	62.12	146.43
4445	12.09	5.56	5.48	1.10	0.00	0.00	15.06	39.29	15.11	5.68	7.20	1.44	0.00	0.00	21.18	50.61
4450	19.49	8.97	8.22	1.64	0.00	0.00	24.29	62.51	24.37	9.16	10.80	2.16	0.00	0.00	34.15	80.64
4455	24.17	11.13	10.96	2.19	0.00	0.00	30.11	78.56	30.22	11.36	14.40	2.88	0.00	0.00	42.35	101.21
4465	10.39	6.42	7.86	2.87	0.56	0.08	7.61	35.79	11.98	6.48	10.31	3.77	0.69	0.10	9.66	42.99
4470	12.55	7.77	6.97	2.51	0.76	0.11	9.20	39.87	14.48	7.84	8.98	3.23	0.95	0.14	11.68	47.30
4475	13.63	10.02	12.57	3.27	1.02	0.15	11.99	52.65	15.33	10.09	16.26	4.23	1.26	0.19	14.61	61.97
4485	1.55	0.71	0.00	0.11	0.00	0.00	1.86	4.23	1.94	0.72	0.00	0.11	0.00	0.00	2.61	5.38
4490	2.05	0.93	0.00	0.13	0.00	0.00	2.45	5.56	2.56	0.95	0.00	0.13	0.00	0.00	3.45	7.09
4495	3.03	1.38	0.00	0.17	0.00	0.00	3.63	8.21	3.79	1.41	0.00	0.17	0.00	0.00	5.11	10.48
4500	1.55	0.71	0.00	0.24	0.00	0.00	1.86	4.36	1.94	0.72	0.00	0.24	0.00	0.00	2.61	5.51
4510	1.27	0.55	0.77	0.19	0.07	0.01	3.20	6.06								
4520	0.99	0.43	0.31	0.07	0.07	0.01	2.51	4.39								
4525	1.33	0.57	0.62	0.15	0.07	0.01	3.34	6.09								
4530	1.57	0.67	0.77	0.19	0.07	0.01	3.95	7.23								
4540	2.14	1.18	1.10	0.31	0.84	0.13	3.27	8.97	2.68	1.20	1.44	0.40	1.31	0.20	4.55	11.78
4550	0.43	0.22	0.00	0.00	0.00	0.00	0.65	1.30	0.54	0.22	0.00	0.00	0.00	0.00	0.90	1.66
4555	0.53	0.27	0.00	0.00	0.00	0.00	0.79	1.59	0.66	0.27	0.00	0.00	0.00	0.00	1.09	2.02
4560	0.10	0.05	0.00	0.00	0.00	0.00	0.15	0.30	0.13	0.05	0.00	0.00	0.00	0.00	0.21	0.39
4565	0.50	0.26	0.00	0.00	0.00	0.00	0.76	1.52	0.63	0.26	0.00	0.00	0.00	0.00	1.05	1.94
4570	0.41	0.21	0.00	0.00	0.00	0.00	0.62	1.24	0.51	0.21	0.00	0.00	0.00	0.00	0.86	1.58
4575	0.51	0.26	0.00	0.00	0.00	0.00	0.75	1.53	0.63	0.26	0.00	0.00	0.00	0.00	1.05	1.94
4580	0.73	0.37	0.00	0.00	0.00	0.00	1.09	2.19	0.91	0.38	0.00	0.00	0.00	0.00	1.52	2.81
4585	0.07	0.04	0.00	0.00	0.00	0.00	0.11	0.22	0.09	0.04	0.00	0.00	0.00	0.00	0.15	0.28
4590	2.31	1.28	1.64	0.46	1.02	0.15	3.54	10.40	2.89	1.30	2.16	0.61	1.61	0.24	4.91	13.72
4600	0.51	0.26	0.00	0.00	0.00	0.00	0.77	1.54	0.64	0.27	0.00	0.00	0.00	0.00	1.06	1.97
4605	0.56	0.28	0.00	0.00	0.00	0.00	0.84	1.68	0.70	0.29	0.00	0.00	0.00	0.00	1.16	2.15
4610	0.10	0.05	0.00	0.00	0.00	0.00	0.15	0.30	0.13	0.05	0.00	0.00	0.00	0.00	0.21	0.39
4615	0.50	0.26	0.00	0.00	0.00	0.00	0.76	1.52	0.63	0.26	0.00	0.00	0.00	0.00	1.05	1.94
4620	0.47	0.24	0.00	0.00	0.00	0.00	0.70	1.41	0.59	0.24	0.00	0.00	0.00	0.00	0.98	1.81
4625	0.66	0.33	0.00	0.00	0.00	0.00	0.98	1.97	0.82	0.34	0.00	0.00	0.00	0.00	1.36	2.52
4630	0.82	0.42	0.00	0.00	0.00	0.00	1.23	2.47	1.02	0.43	0.00	0.00	0.00	0.00	1.70	3.15
4635	0.07	0.04	0.00	0.00	0.00	0.00	0.11	0.22	0.09	0.04	0.00	0.00	0.00	0.00	0.15	0.28
4640	2.62	1.47	2.19	0.61	1.36	0.20	4.03	12.48	3.28	1.50	2.88	0.81	2.13	0.32	5.60	16.52
4650	0.54	0.28	0.00	0.00	0.00	0.00	0.81	1.63	0.68	0.28	0.00	0.00	0.00	0.00	1.13	2.09
4655	0.60	0.30	0.00	0.00	0.00	0.00	0.89	1.79	0.75	0.31	0.00	0.00	0.00	0.00	1.24	2.30
4660	0.10	0.05	0.00	0.00	0.00	0.00	0.15	0.30	0.13	0.05	0.00	0.00	0.00	0.00	0.21	0.39
4665	0.50	0.26	0.00	0.00	0.00	0.00	0.76	1.52	0.63	0.26	0.00	0.00	0.00	0.00	1.05	1.94
4670	0.55	0.28	0.00	0.00	0.00	0.00	0.82	1.65	0.68	0.28	0.00	0.00	0.00	0.00	1.14	2.10
4675	0.79	0.40	0.00	0.00	0.00	0.00	1.18	2.37	0.98	0.41	0.00	0.00	0.00	0.00	1.63	3.02
4680	1.01	0.51	0.00	0.00	0.00	0.00	1.51	3.03	1.26	0.52	0.00	0.00	0.00	0.00	2.09	3.87
4685	0.07	0.04	0.00	0.00	0.00	0.00	0.11	0.22	0.09	0.04	0.00	0.00	0.00	0.00	0.15	0.28
4690	3.36	1.89	3.29	0.92	1.88	0.28	5.16	16.78	4.19	1.93	4.33	1.21	2.96	0.44	7.17	22.23
4700	0.63	0.32	0.00	0.00	0.00	0.00	0.94	1.89	0.79	0.33	0.00	0.00	0.00	0.00	1.31	2.43
4705	0.81	0.41	0.00	0.00	0.00	0.00	1.21	2.43	1.01	0.42	0.00	0.00	0.00	0.00	1.68	3.11
4710	0.10	0.05	0.00	0.00	0.00	0.00	0.15	0.30	0.13	0.05	0.00	0.00	0.00	0.00	0.21	0.39
4715	0.50	0.26	0.00	0.00	0.00	0.00	0.76	1.52	0.63	0.26	0.00	0.00	0.00	0.00	1.05	1.94

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	
4720	0.71	0.36	0.00	0.00	0.00	0.00	1.06	2.13	0.88	0.37	0.00	0.00	0.00	0.00	1.47	2.72
4725	0.91	0.46	0.00	0.00	0.00	0.00	1.36	2.73	1.14	0.47	0.00	0.00	0.00	0.00	1.89	3.50
4730	1.39	0.71	0.00	0.00	0.00	0.00	2.09	4.19	1.74	0.72	0.00	0.00	0.00	0.00	2.90	5.36
4735	0.07	0.04	0.00	0.00	0.00	0.00	0.11	0.22	0.09	0.04	0.00	0.00	0.00	0.00	0.15	0.28
4740	6.14	3.29	5.01	1.40	1.45	0.22	9.32	26.83	7.68	3.35	6.59	1.85	2.23	0.33	12.94	34.97
4750	0.90	0.46	0.00	0.00	0.00	0.00	1.35	2.71	1.13	0.47	0.00	0.00	0.00	0.00	1.87	3.47
4755	0.10	0.05	0.00	0.00	0.00	0.00	0.15	0.30	0.13	0.05	0.00	0.00	0.00	0.00	0.21	0.39
4760	0.54	0.27	0.00	0.00	0.00	0.00	0.80	1.61	0.67	0.28	0.00	0.00	0.00	0.00	1.11	2.06
4765	0.84	0.43	0.00	0.00	0.00	0.00	1.26	2.53	1.05	0.44	0.00	0.00	0.00	0.00	1.75	3.24
4770	1.23	0.63	0.00	0.00	0.00	0.00	1.85	3.71	1.54	0.64	0.00	0.00	0.00	0.00	2.57	4.75
4775	1.72	0.88	0.00	0.00	0.00	0.00	2.58	5.18	2.15	0.89	0.00	0.00	0.00	0.00	3.58	6.62
4780	0.07	0.04	0.00	0.00	0.00	0.00	0.11	0.22	0.09	0.04	0.00	0.00	0.00	0.00	0.15	0.28
4785	10.20	5.71	4.89	1.37	5.39	0.81	15.66	44.03	12.75	5.81	6.44	1.80	8.54	1.28	21.75	58.37
4790	11.43	6.34	7.24	2.03	5.50	0.82	17.51	50.87	14.29	6.46	9.53	2.67	8.72	1.31	24.32	67.30
4795	11.51	6.55	7.24	2.03	7.60	1.14	17.76	53.83	14.39	6.67	9.53	2.67	12.14	1.82	24.67	71.89
4800	13.20	7.52	11.35	3.18	8.99	1.35	20.38	65.97	16.50	7.67	14.93	4.18	14.38	2.16	28.30	88.12
4805	12.80	7.03	7.24	2.03	5.39	0.81	19.56	54.86	16.00	7.16	9.53	2.67	8.54	1.28	27.16	72.34
4810	13.57	7.43	7.24	2.03	5.50	0.82	20.71	57.30	16.96	7.57	9.53	2.67	8.72	1.31	28.76	75.52
4815	15.18	8.42	11.35	3.18	7.60	1.14	23.26	70.13	18.98	8.58	14.93	4.18	12.14	1.82	32.30	92.93
4820	16.70	9.30	11.35	3.18	8.99	1.35	25.61	76.48	20.87	9.48	14.93	4.18	14.38	2.16	35.57	101.57
4830	1.09	0.55	0.00	0.00	0.00	0.00	1.63	3.27	1.36	0.56	0.00	0.00	0.00	0.00	2.26	4.18
4835	1.44	0.73	0.00	0.00	0.00	0.00	2.15	4.32	1.80	0.75	0.00	0.00	0.00	0.00	2.99	5.54
4840	1.64	0.83	0.00	0.00	0.00	0.00	2.45	4.92	2.05	0.85	0.00	0.00	0.00	0.00	3.41	6.31
4845	1.64	0.84	0.00	0.00	0.00	0.00	2.46	4.94	2.05	0.85	0.00	0.00	0.00	0.00	3.42	6.32
4855	3.41	1.55	1.65	0.63	0.00	0.00	6.37	13.61	4.26	1.58	2.17	0.82	0.00	0.00	8.28	17.11
4860	4.56	2.07	2.66	1.01	0.00	0.00	8.53	18.83	5.70	2.12	3.50	1.33	0.00	0.00	11.09	23.74
4865	5.98	2.72	3.29	1.25	0.00	0.00	11.18	24.42	7.48	2.78	4.34	1.65	0.00	0.00	14.54	30.79
4870	7.99	3.63	4.65	1.77	0.00	0.00	14.93	32.97	9.99	3.71	6.12	2.32	0.00	0.00	19.42	41.56
4875	9.45	4.30	5.91	2.25	0.00	0.00	17.66	39.57	11.81	4.39	7.79	2.96	0.00	0.00	22.96	49.91
4885	3.60	1.64	2.74	1.04	0.00	0.00	6.73	15.75	4.50	1.67	3.62	1.37	0.00	0.00	8.74	19.90
4890	7.05	3.20	3.38	1.28	0.00	0.00	13.17	28.08	8.81	3.27	4.45	1.69	0.00	0.00	17.12	35.34
4895	8.81	4.00	4.65	1.77	0.00	0.00	16.47	35.70	11.01	4.09	6.12	2.32	0.00	0.00	21.41	44.95
4900	11.51	5.23	6.33	2.41	0.00	0.00	21.52	47.00	14.39	5.35	8.34	3.17	0.00	0.00	27.98	59.23
4905	16.27	7.39	8.87	3.37	0.00	0.00	30.40	66.30	20.33	7.55	11.68	4.44	0.00	0.00	39.52	83.52
4915	3.68	1.67	2.66	1.01	0.00	0.00	6.89	15.91	4.60	1.71	3.50	1.33	0.00	0.00	8.95	20.09
4920	4.47	2.03	3.29	1.25	0.00	0.00	8.35	19.39	5.58	2.07	4.34	1.65	0.00	0.00	10.85	24.49
4925	5.20	2.36	3.67	1.40	0.00	0.00	9.71	22.34	6.49	2.41	4.84	1.84	0.00	0.00	12.62	28.20
4930	6.85	3.11	5.15	1.96	0.00	0.00	12.80	29.87	8.56	3.18	6.79	2.58	0.00	0.00	16.64	37.75
4935	9.15	4.16	6.33	2.41	0.00	0.00	17.10	39.15	11.44	4.25	8.34	3.17	0.00	0.00	22.23	49.43
4940	13.02	5.92	9.42	3.58	0.00	0.00	24.33	56.27	16.27	6.04	12.40	4.71	0.00	0.00	31.63	71.05
4950	4.29	1.95	2.74	1.04	0.00	0.00	8.02	18.04	5.36	1.99	3.62	1.37	0.00	0.00	10.42	22.76
4955	5.33	2.42	3.29	1.25	0.00	0.00	9.97	22.26	6.67	2.48	4.34	1.65	0.00	0.00	12.96	28.10
4960	8.25	3.75	5.49	2.09	0.00	0.00	15.43	35.01	10.32	3.83	7.23	2.75	0.00	0.00	20.06	44.19
4965	12.07	5.49	8.02	3.05	0.00	0.00	22.56	51.19	15.09	5.61	10.57	4.02	0.00	0.00	29.33	64.62
4975	3.24	1.47	1.77	0.67	0.00	0.00	6.06	13.21	4.05	1.50	2.34	0.89	0.00	0.00	7.87	16.65
4980	4.30	1.95	2.83	1.08	0.00	0.00	8.04	18.20	5.37	2.00	3.73	1.42	0.00	0.00	10.45	22.97
4985	5.29	2.41	3.29	1.25	0.00	0.00	9.89	22.13	6.61	2.46	4.34	1.65	0.00	0.00	12.86	27.92
4990	7.79	3.54	4.65	1.77	0.00	0.00	14.57	32.32	9.74	3.62	6.12	2.32	0.00	0.00	18.94	40.74
4995	8.92	4.06	5.49	2.09	0.00	0.00	16.68	37.24	11.16	4.14	7.23	2.75	0.00	0.00	21.68	46.96
5000	12.83	5.83	8.45	3.21	0.00	0.00	23.99	54.31	16.04	5.96	11.12	4.23	0.00	0.00	31.18	68.53
5010	3.83	1.74	2.79	1.06	0.00	0.00	7.16	16.58	4.79	1.78	3.67	1.39	0.00	0.00	9.31	20.94
5015	5.32	2.42	3.80	1.44	0.00	0.00	9.94	22.92	6.65	2.47	5.01	1.90	0.00	0.00	12.93	28.96
5020	6.77	3.08	4.65	1.77	0.00	0.00	12.66	28.93	8.46	3.14	6.12	2.32	0.00	0.00	16.45	36.49
5025	8.44	3.84	5.70	2.17	0.00	0.00	15.77	35.92	10.55	3.92	7.51	2.85	0.00	0.00	20.50	45.33
5030	12.19	5.54	8.45	3.21	0.00	0.00	22.78	52.17	15.23	5.66	11.12	4.23	0.00	0.00	29.61	65.85

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
5035	23.84	10.84	14.78	5.62	0.00	0.00	44.57	99.65	29.80	11.07	19.47	7.40	0.00	0.00	57.93	125.67
5045	0.64	0.34	1.10	0.35	0.10	0.01	0.74	3.28	0.81	0.34	1.43	0.46	0.18	0.03	0.99	4.24
5050	0.78	0.40	0.59	0.25	0.10	0.01	0.89	3.02	0.97	0.41	0.77	0.32	0.18	0.03	1.19	3.87
5055	0.89	0.46	1.58	0.51	0.08	0.01	1.01	4.54	1.11	0.47	2.06	0.66	0.16	0.02	1.36	5.84
5060	1.00	0.51	0.86	0.36	0.08	0.01	1.14	3.96	1.25	0.52	1.13	0.48	0.16	0.02	1.53	5.09
5065	1.18	0.61	1.10	0.46	0.09	0.01	1.35	4.80	1.47	0.62	1.44	0.61	0.17	0.03	1.80	6.14
5070	1.09	0.56	2.20	0.70	0.09	0.01	1.24	5.89	1.36	0.57	2.86	0.92	0.17	0.03	1.66	7.57
5075	1.26	0.64	2.33	0.75	0.09	0.01	1.43	6.51	1.57	0.66	3.04	0.97	0.17	0.03	1.92	8.36
5080	1.35	0.69	1.41	0.59	0.09	0.01	1.54	5.68	1.68	0.70	1.85	0.78	0.17	0.03	2.06	7.27
5085	1.69	0.89	2.11	0.89	0.31	0.05	1.94	7.88	2.11	0.91	2.78	1.17	0.59	0.09	2.60	10.25
5090	2.99	1.64	3.05	1.28	1.01	0.15	3.47	13.59	3.74	1.67	4.02	1.69	1.93	0.29	4.65	17.99
5100	1.89	0.98	1.45	0.61	0.20	0.03	2.17	7.33	2.37	1.00	1.91	0.80	0.38	0.06	2.90	9.42
5105	3.45	1.79	2.15	0.90	0.35	0.05	3.95	12.64	4.32	1.82	2.83	1.19	0.66	0.10	5.29	16.21
5110	4.50	2.38	3.25	1.36	0.83	0.12	5.18	17.62	5.63	2.42	4.27	1.80	1.58	0.24	6.93	22.87
5115	5.78	3.05	4.03	1.69	1.02	0.15	6.65	22.37	7.23	3.11	5.30	2.23	1.94	0.29	8.91	29.01
5120	6.04	3.27	4.31	1.81	1.70	0.25	6.99	24.37	7.55	3.33	5.66	2.38	3.24	0.49	9.37	32.02
5125	7.52	3.92	5.17	2.17	1.02	0.15	8.63	28.58	9.41	4.00	6.80	2.85	1.94	0.29	11.55	36.85
5130	9.81	5.28	7.24	3.04	2.58	0.39	11.34	39.68	12.26	5.38	9.53	4.00	4.92	0.74	15.18	52.01
5140	3.70	1.96	2.54	1.07	0.75	0.11	4.26	14.39	4.62	2.00	3.35	1.41	1.43	0.21	5.70	18.72
5145	5.23	2.74	3.13	1.32	0.83	0.12	6.00	19.37	6.53	2.80	4.12	1.73	1.58	0.24	8.04	25.04
5150	5.97	3.14	3.91	1.64	1.02	0.15	6.86	22.69	7.46	3.20	5.15	2.16	1.94	0.29	9.19	29.39
5155	9.42	4.97	6.07	2.55	1.70	0.25	10.83	35.79	11.77	5.06	7.98	3.35	3.24	0.49	14.51	46.40
5160	12.74	6.77	7.83	3.29	2.70	0.41	14.68	48.42	15.92	6.90	10.30	4.33	5.16	0.77	19.65	63.03
5165	15.92	8.39	10.57	3.17	5.65	0.85	16.10	60.65	19.10	8.53	13.90	4.17	10.78	1.62	20.70	78.80
5170	22.45	12.12	14.68	4.40	7.67	1.15	22.80	85.27	26.94	12.32	19.31	5.79	14.64	2.20	29.31	110.51
5175	44.57	24.67	27.01	8.10	19.31	2.90	45.45	172.01	53.48	25.06	35.53	10.66	36.87	5.53	58.44	225.57
5185	4.55	2.39	3.33	1.40	0.75	0.11	5.22	17.75	5.68	2.44	4.38	1.84	1.43	0.21	7.00	22.98
5190	5.34	2.80	4.31	1.81	0.83	0.12	6.13	21.34	6.67	2.85	5.66	2.38	1.58	0.24	8.21	27.59
5195	6.19	3.25	4.74	1.99	1.02	0.15	7.11	24.45	7.74	3.32	6.23	2.62	1.94	0.29	9.53	31.67
5200	8.84	4.71	6.03	2.53	1.95	0.29	10.20	34.55	11.05	4.80	7.93	3.33	3.72	0.56	13.65	45.04
5205	11.81	6.35	7.95	3.34	3.11	0.47	13.65	46.68	14.76	6.48	10.45	4.39	5.94	0.89	18.28	61.19
5210	14.97	7.93	10.92	3.28	5.65	0.85	15.16	58.76	17.97	8.06	14.37	4.31	10.78	1.62	19.49	76.60
5215	21.86	11.59	14.09	4.23	5.94	0.89	22.14	80.74	26.24	11.77	18.54	5.56	11.34	1.70	28.46	103.61
5220	39.99	21.74	23.95	7.19	14.65	2.20	40.66	150.38	47.99	22.09	31.52	9.46	27.97	4.20	52.28	195.51
5230	4.04	2.13	3.13	1.32	0.70	0.10	4.65	16.07	5.05	2.17	4.12	1.73	1.33	0.20	6.22	20.82
5235	5.20	2.71	4.31	1.81	0.70	0.10	5.96	20.79	6.49	2.76	5.66	2.38	1.33	0.20	7.98	26.80
5240	5.64	2.98	4.97	2.09	1.02	0.15	6.49	23.34	7.06	3.03	6.54	2.75	1.94	0.29	8.69	30.30
5245	7.77	4.18	6.42	2.70	2.05	0.31	8.98	32.41	9.71	4.26	8.45	3.55	3.91	0.59	12.03	42.50
5250	11.87	6.38	8.73	3.67	3.11	0.47	13.72	47.95	14.83	6.51	11.48	4.82	5.94	0.89	18.37	62.84
5255	16.69	9.05	13.11	3.93	5.94	0.89	16.96	66.57	20.03	9.19	17.25	5.18	11.34	1.70	21.81	86.50
5265	1.87	1.00	1.88	0.79	0.43	0.06	2.16	8.19	2.34	1.02	2.47	1.04	0.81	0.12	2.89	10.69
5270	2.38	1.26	2.43	1.02	0.43	0.07	2.74	10.33	2.98	1.28	3.19	1.34	0.82	0.12	3.67	13.40
5275	4.70	2.47	3.44	1.45	0.75	0.11	5.40	18.32	5.87	2.51	4.53	1.90	1.43	0.21	7.23	23.63
5280	5.64	2.97	4.19	1.76	1.02	0.15	6.48	22.21	7.05	3.03	5.51	2.31	1.94	0.29	8.68	28.81
5285	7.91	4.20	5.32	2.24	1.70	0.25	9.11	30.73	9.88	4.29	7.00	2.94	3.24	0.49	12.20	40.04
5295	3.95	2.09	3.13	1.32	0.75	0.11	4.55	15.90	4.94	2.13	4.12	1.73	1.43	0.21	6.09	20.65
5300	4.88	2.57	3.91	1.64	0.83	0.12	5.61	19.56	6.11	2.62	5.15	2.16	1.58	0.24	7.52	25.38
5305	5.69	3.00	4.70	1.97	1.02	0.15	6.55	23.08	7.12	3.06	6.18	2.60	1.94	0.29	8.77	29.96
5310	8.16	4.33	6.07	2.55	1.70	0.25	9.40	32.46	10.20	4.42	7.98	3.35	3.24	0.49	12.59	42.27
5315	11.11	5.98	7.40	3.11	2.96	0.44	12.85	43.85	13.89	6.10	9.73	4.09	5.66	0.85	17.21	57.53
5320	15.33	8.45	8.18	3.44	5.65	0.85	17.84	59.74	19.16	8.62	10.76	4.52	10.78	1.62	23.89	73.35
5325	21.49	11.40	16.24	4.87	5.94	0.89	21.76	82.59	25.79	11.59	21.37	6.41	11.34	1.70	27.98	106.18
5330	39.95	21.29	23.09	6.93	11.64	1.75	40.48	145.13	47.94	21.62	30.38	9.12	22.22	3.33	52.05	186.66
5340	1.74	0.92	1.68	0.71	0.32	0.05	2.01	7.43	2.18	0.94	2.21	0.93	0.59	0.09	2.69	9.63
5345	4.72	2.48	3.33	1.40	0.75	0.11	5.42	18.21	5.90	2.52	4.38	1.84	1.43	0.21	7.26	23.54

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
5350	5.76	3.00	4.11	1.73	0.70	0.10	6.60	22.00	7.20	3.05	5.41	2.27	1.33	0.20	8.84	28.30
5355	8.11	4.29	5.68	2.38	1.53	0.23	9.33	31.55	10.14	4.37	7.47	3.14	2.92	0.44	12.50	40.98
5360	13.59	7.25	10.18	3.05	5.65	0.85	13.78	54.35	16.31	7.37	13.39	4.02	10.78	1.62	17.71	71.20
5370	4.86	2.58	4.07	1.71	1.02	0.15	5.60	19.99	6.07	2.63	5.36	2.25	1.94	0.29	7.50	26.04
5375	6.66	3.58	6.18	2.60	1.70	0.25	7.70	28.67	8.33	3.65	8.14	3.42	3.24	0.49	10.31	37.58
5380	7.15	3.83	6.46	2.71	1.78	0.27	8.26	30.46	8.93	3.91	8.50	3.57	3.39	0.51	11.06	39.87
5385	9.65	5.21	8.49	3.57	2.70	0.41	11.16	41.19	12.06	5.31	11.18	4.69	5.16	0.77	14.95	54.12
5390	12.35	6.59	11.94	3.58	5.12	0.77	12.52	52.87	14.82	6.69	15.71	4.71	9.77	1.47	16.10	69.27
5395	18.78	10.33	14.99	4.50	7.67	1.15	19.13	76.55	22.53	10.49	19.72	5.92	14.64	2.20	24.59	100.09
5405	4.83	2.56	4.03	1.69	1.02	0.15	5.56	19.84	6.03	2.61	5.30	2.23	1.94	0.29	7.45	25.85
5410	5.55	2.93	4.42	1.86	1.02	0.15	6.38	22.31	6.94	2.99	5.82	2.44	1.94	0.29	8.55	28.97
5415	7.71	4.12	5.64	2.37	1.78	0.27	8.90	30.79	9.64	4.20	7.42	3.11	3.39	0.51	11.92	40.19
5420	10.66	5.72	8.22	3.45	2.64	0.40	12.31	43.40	13.33	5.83	10.81	4.54	5.05	0.76	16.49	56.81
5425	14.97	7.93	12.02	3.60	5.65	0.85	15.16	60.18	17.97	8.06	15.81	4.74	10.78	1.62	19.49	78.47
5430	21.79	11.55	15.19	4.56	5.94	0.89	22.07	81.99	26.15	11.74	19.98	5.99	11.34	1.70	28.37	105.27
5440	4.37	2.33	3.64	1.53	1.02	0.15	5.04	18.08	5.46	2.38	4.79	2.01	1.94	0.29	6.75	23.62
5445	5.59	2.95	8.17	2.61	1.02	0.15	6.43	26.92	6.99	3.01	10.64	3.41	1.94	0.29	8.62	34.90
5450	7.30	3.90	6.26	2.63	1.70	0.25	8.42	30.46	9.12	3.97	8.24	3.46	3.24	0.49	11.28	39.80
5455	10.73	5.81	7.95	3.34	3.11	0.47	12.42	43.83	13.41	5.92	10.45	4.39	5.94	0.89	16.63	57.63
5460	14.66	7.81	11.15	3.35	6.02	0.90	14.85	58.74	17.59	7.94	14.68	4.40	11.49	1.72	19.10	76.92
5465	19.21	10.28	15.66	4.70	5.94	0.89	19.48	76.16	23.05	10.45	20.60	6.18	11.34	1.70	25.04	98.36
5475	3.02	1.58	1.84	0.59	0.34	0.05	3.96	11.38	3.77	1.61	2.42	0.77	0.48	0.07	5.26	14.38
5480	3.57	1.84	2.15	0.69	0.27	0.04	4.66	13.22	4.46	1.88	2.83	0.91	0.38	0.06	6.19	16.71
5485	5.46	2.84	3.13	1.00	0.53	0.08	7.15	20.19	6.82	2.89	4.12	1.32	0.75	0.11	9.49	25.50
5490	6.41	3.35	4.34	1.39	0.71	0.11	8.41	24.72	8.02	3.42	5.72	1.83	0.99	0.15	11.17	31.30
5500	3.02	1.58	2.27	0.73	0.38	0.06	3.97	12.01	3.78	1.62	2.99	0.96	0.53	0.08	5.27	15.23
5505	3.59	1.88	2.43	0.78	0.42	0.06	4.71	13.87	4.49	1.91	3.19	1.02	0.60	0.09	6.25	17.55
5510	4.15	2.18	2.74	0.88	0.53	0.08	5.44	16.00	5.18	2.22	3.60	1.15	0.75	0.11	7.23	20.24
5515	4.77	2.49	3.13	1.00	0.53	0.08	6.25	18.25	5.96	2.54	4.12	1.32	0.75	0.11	8.30	23.10
5520	5.68	3.00	3.91	1.25	0.83	0.13	7.47	22.27	7.10	3.06	5.15	1.65	1.17	0.18	9.92	28.23
5530	4.50	2.04	1.65	0.63	0.00	0.00	8.40	17.22	5.62	2.09	2.17	0.82	0.00	0.00	10.92	21.62
5535	5.35	2.43	2.24	0.85	0.00	0.00	10.00	20.87	6.69	2.49	2.95	1.12	0.00	0.00	13.01	26.26
5545	4.65	2.11	2.74	1.04	0.00	0.00	8.69	19.23	5.81	2.16	3.62	1.37	0.00	0.00	11.30	24.26
5555	0.54	0.21	0.00	0.50	0.00	0.00	0.95	2.20								
5560	1.13	0.44	0.00	1.03	0.00	0.00	1.97	4.57								
5565	2.19	0.86	0.00	1.96	0.00	0.00	3.81	8.82								
5570	0.57	0.23	0.00	0.25	0.00	0.00	1.00	2.05								
5575	0.90	0.35	0.00	0.36	0.00	0.00	1.56	3.17								
5585	1.57	0.62	0.00	0.25	0.00	0.00	2.73	5.17								
5590	2.37	0.93	0.00	0.33	0.00	0.00	4.12	7.75								
5600	2.01	0.79	0.00	0.27	0.00	0.00	3.50	6.57								
5605	2.64	1.04	0.00	0.49	0.00	0.00	4.60	8.77								
5610	3.14	1.23	0.00	0.78	0.00	0.00	5.46	10.61								
5620	3.96	1.56	0.00	0.06	0.00	0.00	6.89	12.47								
5625	4.42	1.74	0.00	0.06	0.00	0.00	7.70	13.92								
5630	7.27	2.86	0.00	0.06	0.00	0.00	12.65	22.84								
5635	7.73	3.04	0.00	0.06	0.00	0.00	13.46	24.29								
5645	4.06	1.60	0.00	0.43	0.00	0.00	7.07	13.16								
5650	4.66	1.83	0.00	0.49	0.00	0.00	8.11	15.09								
5655	5.39	2.12	0.00	0.59	0.00	0.00	9.39	17.49								
5660	5.91	2.33	0.00	0.73	0.00	0.00	10.29	19.26								
5665	6.63	2.61	0.00	0.63	0.00	0.00	11.55	21.42								
5670	7.88	3.10	0.00	0.93	0.00	0.00	13.71	25.62								
5675	9.27	3.65	0.00	0.93	0.00	0.00	16.13	29.98								
5680	12.40	4.88	0.00	1.14	0.00	0.00	21.59	40.01								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	DEPR	CFC	AVERAGE CONDITIONS						SEVERE CONDITIONS						TOTAL RATE	
			FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
5685	18.18	7.16	0.00	1.25	0.00	0.00	31.65	58.24								
5695	3.18	1.25	0.00	0.49	0.00	0.00	5.54	10.46								
5700	3.64	1.43	0.00	0.64	0.00	0.00	6.33	12.04								
5705	4.84	1.91	0.00	0.64	0.00	0.00	8.42	15.81								
5710	1.20	0.47	0.00	0.25	0.00	0.00	2.09	4.01								
5715	1.53	0.60	0.00	0.33	0.00	0.00	2.66	5.12								
5720	1.92	0.76	0.00	0.43	0.00	0.00	3.34	6.45								
5730	5.19	2.04	0.00	0.66	0.00	0.00	9.04	16.93								
5735	5.93	2.33	0.00	0.78	0.00	0.00	10.31	19.35								
5740	6.38	2.51	0.00	0.93	0.00	0.00	11.10	20.92								
5745	7.82	3.08	0.00	1.09	0.00	0.00	13.61	25.60								
5750	9.62	3.79	0.00	1.14	0.00	0.00	16.75	31.30								
5755	13.85	5.45	0.00	1.35	0.00	0.00	24.10	44.75								
5765	6.92	2.72	2.31	0.74	0.00	0.00	12.04	24.73								
5770	13.00	5.12	6.11	1.95	0.00	0.00	22.63	48.81								
5775	18.99	7.48	11.55	3.69	0.00	0.00	33.05	74.76								
5780	20.44	8.05	21.53	6.89	0.00	0.00	35.57	92.48								
5785	25.84	10.17	25.44	8.14	0.00	0.00	44.97	114.56								
5795	7.86	4.66	2.27	0.91	0.00	0.00	9.40	25.10								
5800	12.62	7.49	4.33	1.73	0.00	0.00	15.10	41.27								
5805	17.46	10.36	4.33	1.73	0.00	0.00	20.89	54.77								
5810	18.08	10.73	6.49	2.60	0.00	0.00	21.64	59.54								
5815	25.25	14.98	8.87	3.55	0.00	0.00	30.21	82.86								
5825	1.35	0.46	0.00	0.15	0.00	0.00	1.77	3.73								
5830	0.50	0.17	0.00	0.10	0.00	0.00	0.66	1.43								
5835	1.99	0.68	0.00	0.31	0.00	0.00	2.62	5.60								
5840	0.86	0.30	0.00	0.05	0.00	0.00	1.14	2.35								
5850	0.51	0.26	0.95	0.30	0.00	0.00	0.68	2.70								
5855	0.65	0.33	1.42	0.45	0.00	0.00	0.86	3.71								
5865	0.04	0.02	0.19	0.06	0.00	0.00	0.05	0.36								
5870	0.05	0.02	0.28	0.09	0.00	0.00	0.06	0.50								
5875	0.09	0.04	0.76	0.24	0.00	0.00	0.11	1.24								
5885	0.68	0.35	4.07	1.30	0.00	0.00	0.91	7.31								
5890	0.39	0.20	1.64	0.62	0.00	0.00	0.52	3.37								
5895	0.90	0.46	7.48	2.39	0.00	0.00	1.20	12.43								
5900	1.30	0.66	3.28	1.24	0.00	0.00	1.73	8.21								
5905	1.67	0.85	3.82	1.45	0.00	0.00	2.22	10.01								
5910	1.77	0.90	3.71	1.41	0.00	0.00	2.36	10.15								
5920	0.07	0.04	0.47	0.15	0.00	0.00	0.10	0.83								
5925	0.10	0.05	0.76	0.24	0.00	0.00	0.13	1.28								
5930	0.21	0.11	1.51	0.48	0.00	0.00	0.28	2.59								
5940	0.09	0.05	0.28	0.09	0.00	0.00	0.12	0.63								
5945	0.10	0.05	0.28	0.09	0.00	0.00	0.14	0.66								
5955	0.13	0.06	0.24	0.11	0.00	0.00	0.08	0.62								
5960	0.18	0.09	0.61	0.28	0.00	0.00	0.12	1.28								
5965	0.64	0.32	3.06	1.38	0.00	0.00	0.42	5.82								
5970	0.83	0.42	7.34	3.30	0.00	0.00	0.55	12.44								
5980	0.10	0.05	0.24	0.11	0.00	0.00	0.07	0.57								
5985	0.13	0.06	0.49	0.22	0.00	0.00	0.08	0.98								
5995	2.60	0.97	0.00	0.10	0.00	0.00	3.11	6.78								
6000	0.21	0.08	0.00	0.00	0.00	0.00	0.25	0.54								
6005	1.93	0.72	0.00	0.08	0.00	0.00	2.31	5.04								
6010	0.09	0.03	0.00	0.00	0.00	0.00	0.11	0.23								
6015	2.24	0.83	0.00	0.10	0.00	0.00	2.69	5.86								
6020	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	
6025	1.61	0.60	0.00	0.08	0.00	0.00	1.92	4.21	2.14	0.62	0.00	0.08	0.00	0.00	2.88	5.72
6030	0.13	0.05	0.00	0.00	0.00	0.00	0.15	0.33	0.17	0.05	0.00	0.00	0.00	0.00	0.23	0.45
6035	0.93	0.35	0.00	0.08	0.00	0.00	1.12	2.48	1.24	0.36	0.00	0.08	0.00	0.00	1.67	3.35
6040	0.05	0.02	0.00	0.00	0.00	0.00	0.06	0.13	0.07	0.02	0.00	0.00	0.00	0.00	0.09	0.18
6045	2.50	0.93	0.00	0.08	0.00	0.00	2.99	6.50	3.34	0.96	0.00	0.08	0.00	0.00	4.49	8.87
6050	0.20	0.08	0.00	0.00	0.00	0.00	0.24	0.52	0.27	0.08	0.00	0.00	0.00	0.00	0.36	0.71
6055	2.22	0.82	0.00	0.08	0.00	0.00	2.66	5.78	2.96	0.85	0.00	0.08	0.00	0.00	3.98	7.87
6060	0.27	0.10	0.00	0.00	0.00	0.00	0.32	0.69	0.36	0.10	0.00	0.00	0.00	0.00	0.49	0.95
6065	0.77	0.35	0.00	0.08	0.00	0.00	0.93	2.13	0.97	0.36	0.00	0.08	0.00	0.00	1.30	2.71
6075	5.46	2.03	0.00	0.22	0.00	0.00	6.53	14.24	7.28	2.10	0.00	0.22	0.00	0.00	9.80	19.40
6080	0.40	0.15	0.00	0.00	0.00	0.00	0.48	1.03	0.53	0.15	0.00	0.00	0.00	0.00	0.71	1.39
6085	5.79	2.15	0.00	0.21	0.00	0.00	6.93	15.08	7.72	2.23	0.00	0.21	0.00	0.00	10.39	20.55
6090	4.61	1.71	0.00	0.16	0.00	0.00	5.51	11.99	6.14	1.77	0.00	0.16	0.00	0.00	8.27	16.34
6095	0.36	0.13	0.00	0.00	0.00	0.00	0.43	0.92	0.48	0.14	0.00	0.00	0.00	0.00	0.64	1.26
6100	4.29	1.59	0.00	0.16	0.00	0.00	5.14	11.18	5.72	1.65	0.00	0.16	0.00	0.00	7.70	15.23
6105	3.10	1.15	0.00	0.10	0.00	0.00	3.71	8.06	4.13	1.19	0.00	0.10	0.00	0.00	5.56	10.98
6110	0.20	0.07	0.00	0.00	0.00	0.00	0.24	0.51	0.27	0.08	0.00	0.00	0.00	0.00	0.36	0.71
6115	3.02	1.12	0.00	0.10	0.00	0.00	3.61	7.85	4.02	1.16	0.00	0.10	0.00	0.00	5.41	10.69
6120	1.73	0.64	0.00	0.08	0.00	0.00	2.07	4.52	2.31	0.67	0.00	0.08	0.00	0.00	3.11	6.17
6125	0.10	0.04	0.00	0.00	0.00	0.00	0.12	0.26	0.14	0.04	0.00	0.00	0.00	0.00	0.36	
6130	1.08	0.40	0.00	0.08	0.00	0.00	1.29	2.85	1.44	0.42	0.00	0.08	0.00	0.00	1.94	3.88
6135	0.05	0.02	0.00	0.00	0.00	0.00	0.06	0.13	0.07	0.02	0.00	0.00	0.00	0.00	0.09	0.18
6140	0.67	0.25	0.00	0.08	0.00	0.00	0.80	1.80	0.89	0.26	0.00	0.08	0.00	0.00	1.20	2.43
6145	0.03	0.01	0.00	0.00	0.00	0.00	0.03	0.07	0.04	0.01	0.00	0.00	0.00	0.00	0.05	0.10
6150	0.28	0.11	0.00	0.08	0.00	0.00	0.34	0.81	0.38	0.11	0.00	0.08	0.00	0.00	0.51	1.08
6155	0.02	0.01	0.00	0.00	0.00	0.00	0.02	0.05	0.02	0.01	0.00	0.00	0.00	0.00	0.03	0.06
6165	5.88	2.18	0.00	0.28	0.00	0.00	7.03	15.37	7.34	2.26	0.00	0.28	0.00	0.00	10.55	20.93
6170	4.65	1.73	0.00	0.20	0.00	0.00	5.56	12.14	6.20	1.79	0.00	0.20	0.00	0.00	8.34	16.53
6175	3.47	1.29	0.00	0.10	0.00	0.00	4.15	9.01	4.63	1.33	0.00	0.10	0.00	0.00	6.23	12.29
6180	2.18	0.81	0.00	0.09	0.00	0.00	2.61	5.69	2.91	0.84	0.00	0.09	0.00	0.00	3.91	7.75
6190	3.15	1.50	3.33	0.80	0.18	0.03	4.11	13.10								
6195	3.50	1.67	3.33	0.80	0.18	0.03	4.57	14.08								
6200	4.04	1.93	3.33	0.80	0.22	0.03	5.27	15.62								
6205	6.34	3.09	4.89	1.17	0.68	0.10	8.32	24.59								
6215	2.73	1.31	2.97	0.71	0.18	0.03	3.57	11.50								
6220	2.95	1.41	2.97	0.71	0.18	0.03	3.86	12.11								
6225	3.03	1.45	3.05	0.73	0.18	0.03	3.96	12.43								
6230	2.89	1.39	7.34	1.76	0.22	0.03	3.79	17.42								
6235	3.23	1.55	2.97	0.71	0.22	0.03	4.22	12.93								
6240	3.01	1.45	7.34	1.76	0.26	0.04	3.94	17.80								
6245	3.34	1.61	2.97	0.71	0.26	0.04	4.38	13.31								
6250	7.19	3.53	4.58	1.10	0.90	0.13	9.45	26.88								
6260	2.98	1.42	2.66	0.64	0.18	0.03	3.89	11.80								
6265	3.70	1.77	2.66	0.64	0.22	0.03	4.84	13.86								
6270	7.48	3.65	5.09	1.22	0.82	0.12	9.82	28.20								
6275	8.57	4.38	5.09	1.22	2.08	0.31	11.37	33.02								
6285	3.87	2.44	0.00	0.20	1.92	0.29	5.42	14.14								
6290	5.40	2.88	0.00	0.22	1.50	0.22	7.24	17.46								
6300	5.01	2.94	0.00	0.37	1.82	0.27	6.88	17.29								
6305	5.32	3.31	0.00	0.42	2.49	0.37	7.41	19.32								
6310	7.84	4.48	0.00	0.63	2.49	0.37	10.69	26.50								
6320	0.68	0.37	0.00	0.05	0.21	0.03	0.92	2.26								
6330	1.13	0.53	0.00	0.14	0.00	0.00	1.46	3.26								
6335	1.44	0.67	0.00	0.14	0.00	0.00	1.87	4.12								
6340	1.49	0.69	0.00	0.14	0.00	0.00	1.94	4.26								

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE
6345	2.23	1.04	0.00	0.14	0.00	0.00	2.90	6.31							
6350	3.40	1.59	0.00	0.14	0.00	0.00	4.43	9.56							
6355	5.03	2.35	0.00	0.14	0.00	0.00	6.55	14.07							
6360	3.35	1.57	0.00	0.15	0.00	0.00	4.36	9.43							
6365	3.88	1.81	0.00	0.14	0.00	0.00	5.05	10.88							
6370	5.93	2.77	0.00	0.14	0.00	0.00	7.71	16.55							
6380	0.50	0.23	0.00	0.15	0.00	0.00	0.65	1.53							
6385	1.01	0.47	0.00	0.15	0.00	0.00	1.31	2.94							
6395	12.88	6.01	8.22	1.97	0.00	0.00	16.74	45.82							
6400	19.27	8.99	12.13	2.91	0.00	0.00	25.05	68.35							
6405	20.35	9.50	12.13	2.91	0.00	0.00	26.46	71.35							
6415	20.53	9.58	12.92	3.10	0.00	0.00	26.69	72.82							
6425	2.17	1.01	2.04	0.49	0.00	0.00	2.83	8.54							
6430	2.60	1.21	2.04	0.49	0.00	0.00	3.38	9.72							
6435	3.96	1.85	3.33	0.80	0.00	0.00	5.15	15.09							
6440	4.16	1.94	3.33	0.80	0.00	0.00	5.41	15.64							
6445	4.34	2.03	3.33	0.80	0.00	0.00	5.65	16.15							
6450	4.55	2.12	3.33	0.80	0.00	0.00	5.92	16.72							
6460	4.36	2.04	7.34	1.76	0.00	0.00	5.67	21.17							
6465	4.67	2.18	3.33	0.80	0.00	0.00	6.07	17.05							
6470	4.64	2.16	7.34	1.76	0.00	0.00	6.03	21.93							
6475	4.95	2.31	3.33	0.80	0.00	0.00	6.43	17.82							
6480	2.13	0.99	3.71	0.89	0.00	0.00	2.77	10.49							
6485	2.91	1.36	7.34	1.76	0.00	0.00	3.78	17.15							
6490	3.22	1.50	3.33	0.80	0.00	0.00	4.18	13.03							
6495	3.53	1.65	7.34	1.76	0.00	0.00	4.60	18.88							
6500	3.84	1.79	3.33	0.80	0.00	0.00	5.00	14.76							
6505	3.83	1.79	7.34	1.76	0.00	0.00	4.98	19.70							
6510	4.14	1.93	3.33	0.80	0.00	0.00	5.38	15.58							
6520	1.33	0.51	1.70	0.55	0.00	0.00	2.16	6.25							
6525	1.62	0.62	1.70	0.55	0.00	0.00	2.63	7.12							
6530	3.48	1.33	2.35	0.75	0.00	0.00	5.66	13.57							
6535	3.81	1.45	2.35	0.75	0.00	0.00	6.20	14.56							
6540	5.36	2.04	5.19	1.66	0.00	0.00	8.70	22.95							
6545	5.64	2.15	5.19	1.66	0.00	0.00	9.17	23.81							
6555	3.72	1.42	2.67	0.86	0.00	0.00	6.05	14.72							
6560	4.06	1.55	2.67	0.86	0.00	0.00	6.59	15.73							
6565	6.56	2.50	4.20	1.35	0.00	0.00	10.66	25.27							
6570	7.11	2.71	4.20	1.35	0.00	0.00	11.56	26.93							
6580	2.54	0.97	2.13	0.68	0.00	0.00	4.12	10.44							
6585	3.11	1.19	2.13	0.68	0.00	0.00	5.06	12.17							
6595	1.92	0.73	1.64	0.52	0.00	0.00	3.12	7.93							
6600	1.75	0.67	1.64	0.52	0.00	0.00	2.84	7.42							
6610	8.05	3.07	4.09	1.31	0.00	0.00	13.09	29.61							
6615	6.16	2.35	2.73	0.87	0.00	0.00	10.01	22.12							
6630	5.95	2.30	3.99	1.28	0.19	0.03	9.70	23.44							
6635	6.67	2.65	4.64	1.48	0.65	0.10	10.94	27.13							
6640	7.88	3.03	4.64	1.48	0.18	0.03	12.83	30.07							
6645	8.69	3.41	6.82	2.18	0.55	0.08	14.21	35.94							
6650	8.13	3.18	6.82	2.18	0.48	0.07	13.29	34.15							
6655	8.77	3.43	6.82	2.18	0.48	0.07	14.33	36.08							
6660	10.10	3.93	6.82	2.18	0.48	0.07	16.50	40.08							
6665	9.02	3.52	6.82	2.18	0.48	0.07	14.73	36.82							
6670	9.77	3.81	6.82	2.18	0.48	0.07	15.96	39.09							
6680	8.72	3.32	6.82	2.18	0.00	0.00	14.17	35.21							

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS						TOTAL RATE	SEVERE CONDITIONS						TOTAL RATE				
	DEPR	CFC	FUEL	FOG	TIKE	TIKE	REPR	WEAR	RPR	FUEL	FOG	TIKE	TIKE	REPR				
6685	6.98	2.74	4.64	1.48	0.48	0.07	11.42			27.81								
6690	7.41	2.91	6.55	2.10	0.48	0.07	12.12			31.64								
6695	8.47	3.31	6.55	2.10	0.48	0.07	13.84			34.82								
6705	9.01	3.52	6.28	2.01	0.48	0.07	14.72			36.09								
6710	13.14	5.18	11.08	3.55	0.98	0.15	21.52			55.60								
6720	5.54	2.13	3.82	1.22	0.10	0.01	9.02			21.84								
6725	5.52	2.14	3.82	1.22	0.20	0.03	9.00			21.93								
6730	7.38	2.84	4.37	1.40	0.14	0.02	12.02			28.17								
6735	6.36	2.46	4.37	1.40	0.20	0.03	10.37			25.19								
6740	6.02	2.41	3.82	1.22	0.65	0.10	9.89			24.11								
6745	8.24	3.21	4.80	1.54	0.42	0.06	13.46			31.73								
6750	9.57	3.73	6.50	2.08	0.44	0.07	15.63			38.02								
6755	7.64	3.00	6.82	2.18	0.48	0.07	12.50			32.69								
6760	11.21	4.37	6.50	2.08	0.55	0.08	18.31			43.10								
6765	9.72	3.80	6.50	2.08	0.55	0.08	15.89			38.62								
6770	8.25	3.27	6.82	2.18	0.72	0.11	13.53			34.88								
6780	6.19	2.47	3.71	1.19	0.65	0.10	10.16			24.47								
6785	5.64	2.18	3.71	1.19	0.18	0.03	9.20			22.13								
6790	6.62	2.55	4.37	1.40	0.18	0.03	10.78			25.93								
6795	7.07	2.81	4.09	1.31	0.65	0.10	11.60			27.63								
6800	7.22	2.78	4.37	1.40	0.18	0.03	11.77			27.75								
6805	9.43	3.68	6.00	1.92	0.48	0.07	15.40			36.98								
6810	7.82	3.07	5.84	1.87	0.48	0.07	12.79			31.94								
6815	8.47	3.31	5.84	1.87	0.48	0.07	13.84			33.88								
6820	10.80	4.20	6.00	1.92	0.48	0.07	17.64			41.11								
6830	1.14	0.43	0.87	0.28	0.00	0.00	1.85			4.57								
6835	2.99	1.14	1.86	0.59	0.00	0.00	4.86			11.44								
6840	7.07	2.70	3.88	1.24	0.00	0.00	11.49			26.38								
6845	9.51	3.63	6.82	2.18	0.00	0.00	15.46			37.60								
6850	11.46	4.37	8.46	2.71	0.00	0.00	18.62			45.62								
6855	13.82	5.27	9.88	3.16	0.00	0.00	22.47			54.60								
6860	16.04	6.12	9.88	3.16	0.00	0.00	26.08			61.28								
6870	1.09	0.42	0.87	0.28	0.00	0.00	1.77			4.43								
6875	2.49	0.95	1.91	0.61	0.00	0.00	4.05			10.01								
6880	6.50	2.48	3.82	1.22	0.00	0.00	10.57			24.59								
6885	8.59	3.31	6.28	2.01	0.00	0.00	14.13			34.42								
6890	11.53	4.40	6.50	2.08	0.00	0.00	18.74			43.25								
6900	1.12	0.43	1.32	0.42	0.00	0.00	1.82			5.11								
6905	5.79	2.21	2.84	0.91	0.00	0.00	9.41			21.16								
6910	8.67	3.30	4.37	1.40	0.00	0.00	14.09			31.83								
6915	10.94	4.17	8.52	2.73	0.00	0.00	17.79			44.15								
6920	19.31	7.36	14.30	4.58	0.00	0.00	31.39			76.94								
6930	9.48	4.72	6.03	2.41	2.77	0.42	11.38			37.21	11.85	4.82	7.88	3.15	4.61	0.69	15.17	48.17
6935	16.54	7.56	10.04	3.21	5.77	0.87	16.10			60.09	20.67	7.74	13.13	4.20	9.59	1.44	21.67	78.44
6940	21.09	9.56	11.90	3.81	6.62	0.99	18.93			72.90	26.36	9.78	15.64	5.00	11.00	1.65	25.63	95.06
6945	23.45	10.62	13.26	4.24	7.28	1.09	22.80			82.74	29.31	10.87	17.33	5.55	12.10	1.81	30.69	107.66
6950	24.41	10.95	17.15	4.46	8.78	1.32	23.70			90.77	30.52	11.21	22.25	5.78	15.25	2.29	31.90	119.20
6955	26.03	11.63	17.15	4.46	8.78	1.32	25.25			94.62	32.54	11.90	22.25	5.78	15.25	2.29	33.98	123.99
6960	32.35	14.63	16.22	5.19	9.85	1.48	29.02			108.74	40.44	14.97	21.32	6.82	16.36	2.45	34.30	141.66
6965	37.22	16.67	18.08	5.78	9.85	1.48	36.11			125.19	46.52	17.06	23.64	7.56	16.36	2.45	48.61	162.20
6970	40.30	17.96	26.68	6.94	13.06	1.96	39.07			145.97	50.37	18.38	34.61	9.00	22.69	3.40	52.50	191.04
6975	42.15	18.73	26.68	6.94	13.06	1.96	40.85			150.37	52.69	19.17	34.61	9.00	22.69	3.40	54.99	196.55
6980	46.07	20.64	26.68	6.94	16.21	2.43	44.70			163.67	57.59	21.12	34.61	9.00	28.16	4.22	60.17	214.87
6985	42.23	19.16	19.83	6.34	13.36	2.00	37.91			140.83	52.79	19.60	26.06	8.34	22.19	3.33	51.33	183.64
6990	52.28	23.36	36.20	9.41	17.72	2.66	50.71			192.34	65.35	23.91	46.97	12.21	30.78	4.62	68.26	252.10

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS								SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE
7005	14.38	6.49	9.20	2.94	4.27	0.64	13.97	51.89	17.98	6.64	12.03	3.85	7.09	1.06	18.81	67.46
7010	18.88	8.58	11.72	3.75	6.15	0.92	16.95	66.95	23.60	8.78	15.40	4.93	10.21	1.53	22.95	87.40
7015	21.49	9.63	13.06	4.18	5.76	0.86	20.86	75.84	26.87	9.86	17.07	5.46	9.56	1.43	28.08	98.33
7020	23.22	10.36	18.90	4.91	7.64	1.15	22.52	88.70	29.03	10.60	24.52	6.38	13.27	1.99	30.31	116.10
7025	27.87	12.35	18.90	4.91	8.22	1.23	27.00	100.48	34.84	12.64	24.52	6.38	14.28	2.14	36.34	131.14
7035	9.91	4.87	5.02	2.01	2.41	0.36	11.86	36.44	12.39	4.98	6.57	2.63	4.01	0.60	15.81	46.99
7040	20.15	9.17	11.75	3.76	6.62	0.99	18.10	70.54	25.19	9.38	15.45	4.94	11.00	1.65	24.51	92.12
7045	23.94	10.75	19.47	5.06	8.78	1.32	23.24	92.56	29.92	11.00	25.26	6.57	15.25	2.29	31.28	121.57
7050	22.73	10.25	13.10	4.19	6.62	0.99	22.08	79.96	28.41	10.49	17.12	5.48	11.00	1.65	29.72	103.87
7060	10.16	4.99	7.03	2.81	2.41	0.36	12.16	39.92	12.71	5.10	9.19	3.68	4.01	0.60	16.21	51.50
7065	14.47	6.53	10.04	3.21	4.27	0.64	14.06	53.22	18.09	6.68	13.13	4.20	7.09	1.06	18.93	69.18
7075	20.68	9.39	12.45	3.98	6.62	0.99	20.11	74.22	25.85	9.61	16.28	5.21	11.00	1.65	27.07	96.67
7080	32.62	14.91	17.12	5.48	11.35	1.70	29.32	112.50	40.78	15.26	22.51	7.20	18.85	2.83	39.70	147.13
7085	21.41	9.60	10.98	2.85	7.66	1.15	20.78	74.43	26.76	9.82	14.24	3.70	13.30	2.00	27.97	97.79
7090	36.23	16.22	23.59	6.13	12.69	1.90	35.15	131.91	45.28	16.60	30.60	7.96	22.05	3.31	47.32	173.12
7095	42.61	19.09	27.32	7.10	15.05	2.26	41.34	154.77	53.26	19.54	35.45	9.22	26.14	3.92	55.66	203.19
7110	4.62	2.82	0.00	0.13	1.52	0.23	5.22	14.54	5.55	2.86	0.00	0.13	1.98	0.30	6.71	17.53
7115	5.82	3.70	0.00	0.13	2.72	0.41	6.63	19.41	6.98	3.76	0.00	0.13	3.56	0.53	8.53	23.49
7125	2.30	1.44	0.00	0.08	0.93	0.14	2.61	7.50	2.76	1.46	0.00	0.08	1.22	0.18	3.36	9.06
7135	7.65	3.62	6.11	1.71	0.81	0.12	9.07	29.09	9.56	3.69	7.98	2.24	1.38	0.21	12.86	37.92
7140	12.15	5.81	12.21	3.42	1.99	0.30	14.46	50.34	15.19	5.94	15.97	4.47	3.42	0.51	20.48	65.98
7150	11.32	5.29	13.46	3.77	0.45	0.07	13.40	47.76	14.15	5.40	17.60	4.93	0.74	0.11	18.98	61.91
7160	2.98	1.49	2.74	0.99	0.00	0.00	5.22	13.42	3.72	1.52	3.62	1.30	0.00	0.00	7.12	17.28
7165	0.75	0.34	0.00	0.08	0.00	0.00	0.89	2.06	0.93	0.35	0.00	0.08	0.00	0.00	1.26	2.62
7170	4.34	2.18	3.38	1.22	0.00	0.00	7.62	18.74	5.43	2.22	4.45	1.60	0.00	0.00	10.39	24.09
7175	0.89	0.40	0.00	0.08	0.00	0.00	1.06	2.43	1.11	0.41	0.00	0.08	0.00	0.00	1.49	3.09
7180	0.70	0.32	0.00	0.08	0.00	0.00	0.84	1.94	0.87	0.32	0.00	0.08	0.00	0.00	1.18	2.45
7185	6.66	3.34	4.43	1.60	0.00	0.00	11.70	27.73	8.33	3.40	5.84	2.10	0.00	0.00	15.95	35.62
7190	1.18	0.54	0.00	0.08	0.00	0.00	1.41	3.21	1.48	0.55	0.00	0.08	0.00	0.00	1.99	4.10
7195	0.94	0.43	0.00	0.08	0.00	0.00	1.12	2.57	1.17	0.44	0.00	0.08	0.00	0.00	1.58	3.27
7200	1.29	0.59	0.00	0.08	0.00	0.00	1.54	3.50	1.61	0.60	0.00	0.08	0.00	0.00	2.17	4.46
7205	9.30	4.66	5.91	2.13	0.00	0.00	16.32	38.32	11.62	4.75	7.79	2.80	0.00	0.00	22.25	49.21
7210	1.24	0.56	0.00	0.08	0.00	0.00	1.48	3.36	1.55	0.58	0.00	0.08	0.00	0.00	2.09	4.30
7215	1.39	0.63	0.00	0.08	0.00	0.00	1.66	3.76	1.73	0.64	0.00	0.08	0.00	0.00	2.33	4.78
7220	1.40	0.64	0.00	0.08	0.00	0.00	1.68	3.80	1.75	0.65	0.00	0.08	0.00	0.00	2.36	4.84
7225	12.97	6.50	8.45	3.04	0.00	0.00	22.76	53.72	16.21	6.62	11.12	4.00	0.00	0.00	31.03	68.98
7230	1.84	0.84	0.00	0.08	0.00	0.00	2.20	4.96	2.30	0.86	0.00	0.08	0.00	0.00	3.10	6.34
7235	2.02	0.92	0.00	0.08	0.00	0.00	2.41	5.43	2.52	0.94	0.00	0.08	0.00	0.00	3.39	6.93
7240	1.60	0.73	0.00	0.08	0.00	0.00	1.92	4.33	2.00	0.74	0.00	0.08	0.00	0.00	2.70	5.52
7245	1.63	0.74	0.00	0.10	0.00	0.00	1.95	4.42	2.04	0.76	0.00	0.10	0.00	0.00	2.74	5.64
7250	21.23	9.65	14.15	3.96	0.00	0.00	28.57	77.56	26.53	9.86	18.63	5.22	0.00	0.00	39.68	99.92
7255	2.71	1.23	0.00	0.12	0.00	0.00	3.24	7.30	3.38	1.26	0.00	0.12	0.00	0.00	4.55	9.31
7260	2.98	1.36	0.00	0.13	0.00	0.00	3.57	8.04	3.73	1.38	0.00	0.13	0.00	0.00	5.02	10.26
7265	2.69	1.22	0.00	0.13	0.00	0.00	3.22	7.26	3.37	1.25	0.00	0.13	0.00	0.00	4.53	9.28
7270	0.08	0.04	0.00	0.05	0.00	0.00	0.10	0.27	0.10	0.04	0.00	0.05	0.00	0.00	0.13	0.32
7275	2.11	0.96	0.00	0.15	0.00	0.00	2.53	5.75	2.64	0.98	0.00	0.15	0.00	0.00	3.55	7.32
7280	25.09	12.26	19.43	4.66	0.00	0.00	31.78	93.22	30.11	12.46	25.59	6.14	0.00	0.00	42.37	116.57
7285	3.71	1.69	0.00	0.18	0.00	0.00	4.44	10.02	4.64	1.72	0.00	0.18	0.00	0.00	6.24	12.78
7290	3.92	1.78	0.00	0.19	0.00	0.00	4.69	10.58	4.90	1.82	0.00	0.19	0.00	0.00	6.60	13.51
7295	3.27	1.49	0.00	0.16	0.00	0.00	3.91	8.83	4.09	1.52	0.00	0.16	0.00	0.00	5.50	11.27
7300	0.96	0.44	0.00	0.12	0.00	0.00	1.15	2.67	1.20	0.45	0.00	0.12	0.00	0.00	1.62	3.39
7305	0.11	0.05	0.00	0.08	0.00	0.00	0.13	0.37	0.13	0.05	0.00	0.03	0.00	0.00	0.18	0.44
7310	2.29	1.04	0.00	0.20	0.00	0.00	2.74	6.27	2.86	1.06	0.00	0.20	0.00	0.00	3.85	7.47
7315	42.13	20.59	29.56	7.09	0.00	0.00	53.35	152.72	50.56	20.92	38.93	9.34	0.00	0.00	71.14	192.89
7320	5.60	2.55	0.00	0.28	0.00	0.00	6.70	15.13	7.00	2.60	0.00	0.28	0.00	0.00	9.42	19.30

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	
7325	6.14	2.79	0.00	0.29	0.00	0.00	7.35	16.57	7.68	2.85	0.00	0.29	0.00	0.00	10.33	21.15
7330	0.12	0.06	0.00	0.08	0.00	0.00	0.15	0.41	0.15	0.06	0.00	0.08	0.00	0.00	0.21	0.50
7335	4.17	1.90	0.00	0.20	0.00	0.00	4.99	11.26	5.21	1.94	0.00	0.20	0.00	0.00	7.02	14.37
7345	3.66	1.83	2.66	0.96	0.00	0.00	6.42	15.53	4.57	1.87	3.50	1.26	0.00	0.00	8.75	19.95
7350	4.31	2.16	3.29	1.19	0.00	0.00	7.56	18.51	5.38	2.20	4.34	1.56	0.00	0.00	10.31	23.79
7355	4.60	2.31	3.72	1.34	0.00	0.00	8.08	20.05	5.75	2.35	4.89	1.76	0.00	0.00	11.02	25.77
7360	0.76	0.35	0.00	0.08	0.00	0.00	0.91	2.10	0.95	0.35	0.00	0.08	0.00	0.00	1.28	2.66
7365	0.76	0.35	0.00	0.05	0.00	0.00	0.91	2.07	0.95	0.35	0.00	0.05	0.00	0.00	1.28	2.53
7370	6.34	3.18	5.15	1.85	0.00	0.00	11.13	27.65	7.92	3.24	6.79	2.44	0.00	0.00	15.17	35.56
7375	0.85	0.39	0.00	0.08	0.00	0.00	1.01	2.33	1.06	0.39	0.00	0.08	0.00	0.00	1.43	2.96
7380	1.03	0.47	0.00	0.05	0.00	0.00	1.24	2.79	1.29	0.48	0.00	0.05	0.00	0.00	1.74	3.56
7385	8.19	4.11	6.33	2.28	0.00	0.00	14.38	35.29	10.24	4.19	8.34	3.00	0.00	0.00	19.61	45.38
7390	1.30	0.59	0.00	0.08	0.00	0.00	1.55	3.52	1.62	0.60	0.00	0.08	0.00	0.00	2.18	4.48
7395	1.29	0.59	0.00	0.05	0.00	0.00	1.55	3.48	1.62	0.60	0.00	0.05	0.00	0.00	2.18	4.45
7400	12.36	6.19	9.42	3.39	0.00	0.00	21.70	53.06	15.45	6.32	12.40	4.47	0.00	0.00	29.59	68.23
7405	1.39	0.63	0.00	0.08	0.00	0.00	1.66	3.76	1.74	0.64	0.00	0.08	0.00	0.00	2.34	4.80
7410	1.46	0.66	0.00	0.08	0.00	0.00	1.74	3.94	1.82	0.68	0.00	0.08	0.00	0.00	2.45	5.03
7415	1.97	0.89	0.00	0.05	0.00	0.00	2.35	5.26	2.46	0.91	0.00	0.05	0.00	0.00	3.31	6.73
7420	20.22	9.19	12.67	3.55	0.00	0.00	27.21	72.84	25.27	9.39	16.69	4.67	0.00	0.00	37.79	93.81
7425	2.75	1.25	0.00	0.12	0.00	0.00	3.29	7.41	3.44	1.28	0.00	0.12	0.00	0.00	4.63	9.47
7430	2.78	1.26	0.00	0.10	0.00	0.00	3.33	7.47	3.48	1.29	0.00	0.10	0.00	0.00	4.68	9.55
7435	25.82	12.62	19.21	4.61	0.00	0.00	32.70	94.96	30.99	12.82	25.31	6.07	0.00	0.00	43.60	118.79
7440	4.19	1.90	0.00	0.22	0.00	0.00	5.01	11.32	5.23	1.94	0.00	0.22	0.00	0.00	7.05	14.44
7445	4.28	1.94	0.00	0.25	0.00	0.00	5.12	11.59	5.35	1.99	0.00	0.25	0.00	0.00	7.20	14.79
7450	2.66	1.21	0.00	0.12	0.00	0.00	3.18	7.17	3.32	1.24	0.00	0.12	0.00	0.00	4.47	9.15
7455	34.66	16.93	22.17	5.32	0.00	0.00	43.88	122.96	41.59	17.20	29.20	7.01	0.00	0.00	58.51	153.51
7460	4.79	2.18	0.00	0.26	0.00	0.00	5.73	12.96	5.99	2.22	0.00	0.26	0.00	0.00	8.06	16.53
7465	5.48	2.49	0.00	0.25	0.00	0.00	6.55	14.77	6.85	2.54	0.00	0.25	0.00	0.00	9.21	18.85
7470	3.06	1.39	0.00	0.12	0.00	0.00	3.66	8.23	3.83	1.42	0.00	0.12	0.00	0.00	5.15	10.52
7480	3.84	1.93	2.74	0.99	0.00	0.00	6.74	16.24	4.80	1.96	3.62	1.30	0.00	0.00	9.20	20.88
7485	4.90	2.46	3.29	1.19	0.00	0.00	8.61	20.45	6.13	2.51	4.34	1.56	0.00	0.00	11.74	26.28
7490	7.11	3.56	4.65	1.67	0.00	0.00	12.47	29.46	8.88	3.63	6.12	2.20	0.00	0.00	17.01	37.34
7495	9.04	4.53	5.91	2.13	0.00	0.00	15.86	37.47	11.30	4.62	7.79	2.80	0.00	0.00	21.63	48.14
7500	1.06	0.48	0.00	0.05	0.00	0.00	1.27	2.86	1.32	0.49	0.00	0.05	0.00	0.00	1.78	3.54
7505	1.19	0.54	0.00	0.05	0.00	0.00	1.43	3.21	1.49	0.55	0.00	0.05	0.00	0.00	2.01	4.10
7510	13.90	6.97	8.87	3.19	0.00	0.00	24.41	57.34	17.38	7.10	11.68	4.20	0.00	0.00	33.28	73.64
7515	1.86	0.85	0.00	0.05	0.00	0.00	2.23	4.99	2.32	0.86	0.00	0.05	0.00	0.00	3.13	6.36
7520	1.28	0.58	0.00	0.05	0.00	0.00	1.53	3.44	1.60	0.59	0.00	0.05	0.00	0.00	2.15	4.39
7525	19.07	6.67	13.09	3.67	0.00	0.00	25.66	70.16	23.83	8.85	17.24	4.83	0.00	0.00	35.64	90.39
7530	2.32	1.05	0.00	0.10	0.00	0.00	2.77	6.24	2.90	1.08	0.00	0.10	0.00	0.00	3.90	7.98
7535	1.93	0.88	0.00	0.12	0.00	0.00	2.31	5.24	2.41	0.90	0.00	0.12	0.00	0.00	3.25	6.68
7540	0.80	0.36	0.00	0.08	0.00	0.00	0.95	2.19	1.00	0.37	0.00	0.08	0.00	0.00	1.34	2.79
7545	0.47	0.21	0.00	0.13	0.00	0.00	0.56	1.37	0.58	0.22	0.00	0.13	0.00	0.00	0.79	1.72
7550	0.08	0.04	0.00	0.08	0.00	0.00	0.10	0.30	0.10	0.04	0.00	0.08	0.00	0.00	0.13	0.35
7560	2.72	1.36	1.77	0.64	0.00	0.00	4.77	11.26	3.40	1.39	2.34	0.84	0.00	0.00	6.51	14.48
7565	3.75	1.88	2.74	0.99	0.00	0.00	6.58	15.94	4.69	1.91	3.62	1.30	0.00	0.00	8.97	20.49
7570	4.48	2.24	3.04	1.09	0.00	0.00	7.86	18.71	5.60	2.29	4.00	1.44	0.00	0.00	10.72	24.05
7575	8.51	4.27	4.65	1.67	0.00	0.00	14.94	34.04	10.64	4.35	6.12	2.20	0.00	0.00	20.38	43.69
7580	11.23	5.63	6.12	2.20	0.00	0.00	19.71	44.89	14.03	5.74	8.06	2.90	0.00	0.00	26.87	57.50
7590	3.15	1.58	2.79	1.00	0.00	0.00	5.52	14.04	3.93	1.61	3.67	1.32	0.00	0.00	7.53	18.05
7595	0.54	0.25	0.00	0.05	0.00	0.00	0.65	1.49	0.68	0.25	0.00	0.05	0.00	0.00	0.91	1.89
7600	4.72	2.37	3.80	1.37	0.00	0.00	8.29	20.55	5.90	2.41	5.01	1.80	0.00	0.00	11.30	26.42
7605	0.59	0.27	0.00	0.05	0.00	0.00	0.71	1.62	0.74	0.27	0.00	0.05	0.00	0.00	0.99	2.05
7610	6.85	3.43	4.98	1.79	0.00	0.00	12.02	29.07	8.56	3.50	6.56	2.36	0.00	0.00	16.39	37.37
7615	0.66	0.30	0.00	0.05	0.00	0.00	0.79	1.90	0.83	0.31	0.00	0.05	0.00	0.00	1.11	2.30

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							TOTAL RATE	
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	
7620	9.65	4.83	6.97	2.51	0.00	0.00	16.93	40.89	12.06	4.93	9.18	3.30	0.00	0.00	23.09	52.56
7625	0.87	0.39	0.00	0.05	0.00	0.00	1.04	2.35	1.08	0.40	0.00	0.05	0.00	0.00	1.46	2.99
7630	12.75	6.39	9.29	3.34	0.00	0.00	22.38	54.15	15.94	6.51	12.24	4.41	0.00	0.00	30.52	69.62
7635	1.36	0.62	0.00	0.08	0.00	0.00	1.63	3.69	1.70	0.63	0.00	0.08	0.00	0.00	2.29	4.70
7640	1.45	0.66	0.00	0.10	0.00	0.00	1.73	3.94	1.81	0.67	0.00	0.10	0.00	0.00	2.44	5.02
7645	18.62	8.47	13.51	3.78	0.00	0.00	25.06	69.44	23.27	8.65	17.80	4.98	0.00	0.00	34.80	89.50
7650	1.87	0.85	0.00	0.14	0.00	0.00	2.24	5.10	2.34	0.87	0.00	0.14	0.00	0.00	3.14	6.49
7655	1.97	0.90	0.00	0.14	0.00	0.00	2.36	5.37	2.46	0.91	0.00	0.14	0.00	0.00	3.31	6.82
7660	24.83	11.29	17.31	4.85	0.00	0.00	33.42	91.70	31.04	11.53	22.80	6.39	0.00	0.00	46.42	118.18
7665	2.55	1.16	0.00	0.20	0.00	0.00	3.05	6.96	3.18	1.18	0.00	0.20	0.00	0.00	4.28	8.84
7670	2.32	1.06	0.00	0.18	0.00	0.00	2.78	6.34	2.90	1.08	0.00	0.18	0.00	0.00	3.91	8.07
7675	38.89	19.00	26.18	6.28	0.00	0.00	49.24	139.59	46.66	19.31	34.48	8.28	0.00	0.00	65.66	174.39
7680	5.94	2.70	0.00	0.24	0.00	0.00	7.10	15.98	7.42	2.76	0.00	0.24	0.00	0.00	9.99	20.41
7685	5.58	2.54	0.00	0.21	0.00	0.00	6.67	15.00	6.97	2.59	0.00	0.21	0.00	0.00	9.38	19.15
7690	5.22	2.37	0.00	0.19	0.00	0.00	6.24	14.02	6.52	2.42	0.00	0.19	0.00	0.00	8.78	17.91
7700	12.38	6.20	8.66	3.12	0.00	0.00	21.72	52.08	15.47	6.32	11.40	4.10	0.00	0.00	29.62	66.91
7705	1.32	0.60	0.00	0.05	0.00	0.00	1.57	3.54	1.64	0.61	0.00	0.05	0.00	0.00	2.21	4.51
7710	1.48	0.67	0.00	0.05	0.00	0.00	1.77	3.97	1.85	0.69	0.00	0.05	0.00	0.00	2.48	5.07
7715	1.51	0.69	0.00	0.05	0.00	0.00	1.81	4.06	1.89	0.70	0.00	0.05	0.00	0.00	2.54	5.18
7720	15.38	6.99	10.98	3.07	0.00	0.00	20.70	57.12	19.22	7.14	14.46	4.05	0.00	0.00	28.74	73.61
7725	1.87	0.85	0.00	0.05	0.00	0.00	2.23	5.00	2.33	0.87	0.00	0.05	0.00	0.00	3.14	6.39
7730	2.45	1.11	0.00	0.05	0.00	0.00	2.93	6.54	3.06	1.14	0.00	0.05	0.00	0.00	4.12	8.37
7735	2.04	0.93	0.00	0.05	0.00	0.00	2.45	5.47	2.56	0.95	0.00	0.05	0.00	0.00	3.44	7.00
7740	20.52	9.33	14.78	4.14	0.00	0.00	27.62	76.39	25.65	9.53	19.47	5.45	0.00	0.00	38.36	98.46
7745	2.44	1.11	0.00	0.12	0.00	0.00	2.92	6.59	3.05	1.13	0.00	0.12	0.00	0.00	4.10	8.40
7750	2.67	1.22	0.00	0.13	0.00	0.00	3.20	7.22	3.34	1.24	0.00	0.13	0.00	0.00	4.50	9.21
7755	2.34	1.06	0.00	0.11	0.00	0.00	2.80	6.31	2.92	1.09	0.00	0.11	0.00	0.00	3.93	8.05
7760	0.10	0.05	0.00	0.05	0.00	0.00	0.12	0.32	0.12	0.05	0.00	0.05	0.00	0.00	0.17	0.39
7765	0.62	0.28	0.00	0.11	0.00	0.00	0.74	1.75	0.77	0.29	0.00	0.11	0.00	0.00	1.04	2.21
7775	12.26	6.01	8.22	2.30	2.46	0.37	11.98	43.60	15.32	6.13	10.81	3.03	5.16	0.77	16.22	57.44
7780	16.99	8.66	12.13	3.40	6.12	0.92	16.75	64.97	21.24	8.84	15.96	4.47	12.82	1.92	22.69	87.94
7785	24.85	12.83	17.61	4.93	7.32	1.10	24.58	93.22	31.07	13.10	23.17	6.49	15.34	2.30	33.28	124.75
7795	19.28	9.83	11.82	3.31	6.90	1.04	19.01	71.19	24.10	10.03	15.55	4.35	14.46	2.17	25.75	96.41
7800	32.43	16.64	22.39	6.27	8.92	1.34	32.03	120.02	40.54	16.99	29.46	8.25	18.68	2.80	43.37	160.09
7810	1.10	0.54	1.68	0.47	0.22	0.03	1.07	5.11	1.37	0.55	2.21	0.62	0.45	0.07	1.45	6.72
7815	1.40	0.69	2.43	0.68	0.24	0.04	1.37	6.85	1.76	0.70	3.19	0.89	0.49	0.07	1.86	8.95
7825	0.26	0.13	0.62	0.17	0.04	0.01	0.36	1.59	0.32	0.13	0.80	0.23	0.05	0.01	0.50	2.04
7830	1.09	0.51	1.24	0.35	0.05	0.01	1.53	4.78	1.37	0.52	1.61	0.45	0.07	0.01	2.13	6.16
7835	1.51	0.71	1.92	0.54	0.07	0.01	2.12	6.88	1.89	0.72	2.50	0.70	0.10	0.02	2.94	8.87
7840	2.76	1.31	2.50	0.70	0.21	0.03	3.87	11.38	3.45	1.34	3.30	0.92	0.30	0.05	5.38	14.74
7845	5.66	2.67	4.11	1.15	0.34	0.05	7.94	21.92	7.07	2.72	5.41	1.51	0.49	0.07	11.02	28.29
7860	1.86	0.87	0.94	0.26	0.07	0.01	2.60	6.61	2.32	0.89	1.24	0.35	0.10	0.02	3.51	8.53
7865	3.63	1.71	1.72	0.48	0.21	0.03	5.09	12.87	4.53	1.74	2.27	0.63	0.30	0.05	7.07	16.59
7870	4.02	1.89	2.15	0.60	0.21	0.03	5.63	14.53	5.02	1.93	2.83	0.79	0.30	0.05	7.82	18.74
7875	6.54	3.01	4.42	1.24	0.00	0.00	9.12	24.33	8.17	3.07	5.82	1.63	0.00	0.00	12.67	31.36
7880	12.78	5.87	6.85	1.92	0.00	0.00	17.83	45.25	15.97	6.00	9.01	2.52	0.00	0.00	24.77	58.27
7890	10.55	4.85	3.91	1.10	0.00	0.00	14.73	35.14	13.19	4.95	5.15	1.44	0.00	0.00	20.45	45.18
7895	15.38	7.07	6.26	1.75	0.00	0.00	21.46	51.92	19.22	7.22	8.24	2.31	0.00	0.00	29.80	65.79
7900	19.56	8.99	6.26	1.75	0.00	0.00	27.30	63.86	24.45	9.19	8.24	2.31	0.00	0.00	37.92	32.11
7910	8.49	3.30	2.62	0.73	0.00	0.00	11.84	27.58	10.61	3.98	3.45	0.97	0.00	0.00	15.45	35.46
7915	9.24	4.25	2.62	0.73	0.00	0.00	12.90	29.74	11.55	4.34	3.45	0.97	0.00	0.00	17.91	38.22
7920	9.52	4.38	2.62	0.73	0.00	0.00	13.29	30.54	11.90	4.47	3.45	0.97	0.00	0.00	18.45	39.24
7925	17.89	8.23	5.87	1.64	0.00	0.00	24.97	58.60	22.37	8.40	7.72	2.16	0.00	0.00	34.68	75.33
7930	22.22	10.22	6.85	1.92	0.00	0.00	31.01	72.22	27.77	10.43	9.01	2.52	0.00	0.00	43.07	92.80
7945	1.01	0.34	2.14	0.60	0.13	0.02	1.24	5.48	1.21	0.35	2.85	0.80	0.16	0.02	1.70	7.09

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	
7950	1.26	0.43	2.14	0.60	0.15	0.02	1.55	6.15	1.51	0.44	2.85	0.80	0.20	0.03	2.12	7.95
7955	1.10	0.38	2.14	0.60	0.17	0.03	1.36	5.78	1.32	0.39	2.85	0.80	0.21	0.03	1.86	7.46
7960	1.30	0.44	2.14	0.60	0.20	0.03	1.61	6.32	1.57	0.46	2.85	0.80	0.26	0.04	2.20	8.18
7965	1.15	0.40	2.14	0.60	0.27	0.04	1.43	6.03	1.38	0.41	2.85	0.80	0.34	0.05	1.96	7.79
7970	1.48	0.68	5.61	1.68	0.45	0.07	1.58	11.55	1.97	0.70	7.21	2.16	0.57	0.09	2.46	15.16
7975	2.08	0.94	3.34	0.87	0.45	0.07	2.21	9.96	2.77	0.97	4.34	1.13	0.57	0.09	3.44	13.31
7980	1.72	0.79	6.44	1.93	0.45	0.07	1.84	13.24	2.30	0.81	8.28	2.49	0.57	0.09	2.86	17.40
7985	2.37	1.06	3.34	0.87	0.45	0.07	2.51	10.67	3.16	1.09	4.34	1.13	0.57	0.09	3.91	14.29
7990	1.89	0.87	6.44	1.93	0.52	0.08	2.02	13.75	2.53	0.90	8.28	2.49	0.66	0.10	3.14	18.10
7995	2.36	1.11	3.34	0.87	0.89	0.13	2.54	11.24	3.15	1.15	4.34	1.13	1.14	0.17	3.95	15.03
8000	3.17	1.31	12.06	3.86	0.91	0.14	3.14	24.59	4.23	1.36	15.54	4.97	1.17	0.18	4.88	32.33
8005	4.37	1.79	5.41	1.51	1.11	0.17	4.32	18.68	5.83	1.85	7.03	1.97	1.44	0.22	6.71	25.05
8010	4.57	1.88	5.41	1.51	1.15	0.17	4.52	19.21	6.10	1.94	7.03	1.97	1.48	0.22	7.03	25.77
8015	4.30	1.77	5.41	1.51	1.15	0.17	4.26	18.57	5.74	1.83	7.03	1.97	1.48	0.22	6.62	24.89
8020	5.07	2.06	5.41	1.51	1.15	0.17	5.00	20.37	6.76	2.14	7.03	1.97	1.48	0.22	7.78	27.38
8025	6.66	2.72	7.39	2.07	1.56	0.23	6.57	27.20	8.88	2.81	9.60	2.69	2.02	0.30	10.22	36.52
8030	7.06	2.89	7.39	2.07	1.67	0.25	6.97	28.30	9.42	2.98	9.60	2.69	2.15	0.32	10.84	38.00
8035	6.68	2.74	7.39	2.07	1.67	0.25	6.59	27.39	8.90	2.83	9.60	2.69	2.15	0.32	10.26	36.75
8040	6.62	2.68	8.84	2.47	1.39	0.21	6.52	28.73	8.83	2.77	11.49	3.22	1.80	0.27	10.15	38.53
8050	1.01	0.35	2.57	0.72	0.14	0.02	1.25	6.06	1.22	0.35	3.43	0.96	0.18	0.03	1.71	7.88
8055	1.32	0.45	2.57	0.72	0.14	0.02	1.62	6.84	1.58	0.46	3.43	0.96	0.18	0.03	2.22	8.86
8060	1.45	0.49	2.57	0.72	0.16	0.02	1.78	7.19	1.74	0.50	3.43	0.96	0.21	0.03	2.45	9.32
8065	1.21	0.41	2.57	0.72	0.14	0.02	1.49	6.56	1.45	0.42	3.43	0.96	0.18	0.03	2.04	8.51
8070	1.42	0.48	2.57	0.72	0.17	0.03	1.74	7.13	1.70	0.49	3.43	0.96	0.22	0.03	2.38	9.21
8075	1.33	0.46	2.50	0.70	0.28	0.04	1.65	6.96	1.60	0.48	3.33	0.93	0.35	0.05	2.27	9.01
8080	1.35	0.63	5.86	1.76	0.45	0.07	1.45	11.57	1.80	0.65	7.53	2.26	0.57	0.09	2.25	15.15
8085	1.48	0.68	5.86	1.76	0.45	0.07	1.58	11.88	1.97	0.70	7.53	2.26	0.57	0.09	2.46	15.58
8090	2.14	0.96	3.40	0.88	0.45	0.07	2.27	10.17	2.85	0.99	4.42	1.15	0.57	0.09	3.53	13.60
8095	1.56	0.73	6.52	1.95	0.52	0.08	1.68	13.04	2.09	0.75	8.38	2.51	0.66	0.10	2.61	17.10
8100	3.19	1.43	4.63	1.21	0.65	0.10	3.39	14.60	4.26	1.48	6.03	1.57	0.83	0.12	5.27	19.56
8105	2.97	1.26	11.19	3.58	1.14	0.17	2.96	23.27	3.96	1.31	14.42	4.62	1.47	0.22	4.60	30.60
8110	3.62	1.51	6.33	1.77	1.14	0.17	3.59	18.13	4.82	1.56	8.23	2.31	1.47	0.22	5.58	24.19
8115	4.23	1.72	7.26	2.03	0.90	0.13	4.17	20.44	5.64	1.78	9.44	2.64	1.15	0.17	6.49	27.30
8120	4.74	1.94	6.49	1.82	1.14	0.17	4.68	20.98	6.32	2.00	8.44	2.36	1.47	0.22	7.28	28.09
8125	4.38	1.97	4.74	1.23	0.89	0.13	4.64	17.98	5.84	2.03	6.16	1.60	1.12	0.17	7.22	24.14
8130	5.56	2.25	9.27	2.60	1.14	0.17	5.48	26.47	7.41	2.33	12.05	3.37	1.47	0.22	8.52	35.37
8135	5.64	2.33	9.49	2.66	1.48	0.22	5.58	27.40	7.52	2.40	12.33	3.45	1.88	0.28	8.68	36.54
8140	6.63	2.72	9.49	2.66	1.64	0.25	6.55	29.94	8.84	2.81	12.33	3.45	2.09	0.31	10.19	40.02
8150	1.60	0.72	3.19	0.83	0.33	0.05	1.70	8.42	2.13	0.74	4.15	1.08	0.41	0.06	2.64	11.21
8155	1.43	0.65	5.35	1.61	0.33	0.05	1.52	10.94	1.91	0.67	6.88	2.06	0.41	0.06	2.36	14.35
8160	2.08	0.92	3.40	0.88	0.33	0.05	2.20	9.86	2.78	0.95	4.42	1.15	0.41	0.06	3.43	13.20
8165	2.63	1.17	3.71	0.96	0.45	0.07	2.78	11.77	3.50	1.20	4.32	1.25	0.57	0.09	4.32	15.75
8170	4.37	1.80	6.49	1.82	1.14	0.17	4.32	20.11	5.83	1.86	8.44	2.36	1.47	0.22	6.72	26.90
8175	5.86	2.36	7.11	1.99	1.14	0.17	5.77	24.40	7.82	2.44	9.24	2.59	1.47	0.22	8.98	32.76
8180	6.18	2.48	9.27	2.60	1.14	0.17	6.07	27.91	8.23	2.57	12.05	3.37	1.47	0.22	9.45	37.36
8185	6.01	2.42	6.49	1.82	1.14	0.17	5.91	23.96	8.01	2.50	8.44	2.36	1.47	0.22	9.20	32.20
8190	6.29	2.53	7.11	1.99	1.14	0.17	6.19	25.42	8.39	2.61	9.24	2.59	1.47	0.22	9.53	34.15
8200	6.59	2.66	9.27	2.60	1.27	0.19	6.49	29.07	8.79	2.75	12.05	3.37	1.63	0.25	10.09	38.93
8205	6.55	2.68	9.27	2.60	1.27	0.19	6.54	29.20	8.86	2.77	12.05	3.37	1.63	0.25	10.17	39.10
8210	7.17	2.88	8.34	2.34	1.27	0.19	7.05	29.24	9.56	2.97	10.85	3.04	1.63	0.25	10.96	39.26
8220	7.27	2.94	7.57	2.12	1.60	0.24	7.16	28.90	9.69	3.04	9.84	2.76	2.10	0.31	11.14	38.88
8225	6.42	2.59	9.27	2.60	1.27	0.19	6.32	28.66	8.56	2.68	12.05	3.37	1.63	0.25	9.83	38.37
8230	6.18	2.50	9.27	2.60	1.27	0.19	6.09	23.10	8.25	2.59	12.05	3.37	1.63	0.25	9.47	37.61
8235	6.96	2.80	10.81	3.03	1.27	0.19	6.35	31.91	9.28	2.89	14.06	3.94	1.63	0.25	10.65	42.70
8245	2.68	1.01	0.00	0.10	0.00	0.00	2.92	6.71	-	-	-	-	-	-	-	-

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS								
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE	
8250	3.21	1.21	0.00	0.10	0.00	0.00	3.50	8.02								
8255	4.99	1.87	0.00	0.10	0.00	0.00	5.43	12.39								
8260	6.15	2.31	0.00	0.10	0.00	0.00	6.70	15.26								
8265	6.84	2.57	0.00	0.10	0.00	0.00	7.44	16.95								
8275	0.65	0.24	0.00	0.09	0.00	0.00	0.71	1.69	0.86	0.25	0.00	0.09	0.00	0.00	1.08	2.28
8280	1.03	0.39	0.00	0.09	0.00	0.00	1.12	2.63	1.37	0.40	0.00	0.09	0.00	0.00	1.70	3.56
8285	1.04	0.39	0.00	0.09	0.00	0.00	1.13	2.65	1.39	0.40	0.00	0.09	0.00	0.00	1.72	3.60
8290	1.05	0.40	0.00	0.09	0.00	0.00	1.15	2.69	1.41	0.41	0.00	0.09	0.00	0.00	1.75	3.66
8300	0.21	0.08	0.00	0.00	0.00	0.00	0.23	0.52								
8305	0.22	0.08	0.00	0.00	0.00	0.00	0.24	0.54								
8310	0.24	0.09	0.00	0.00	0.00	0.00	0.26	0.59								
8315	0.28	0.11	0.00	0.00	0.00	0.00	0.31	0.70								
8320	0.31	0.12	0.00	0.00	0.00	0.00	0.34	0.77								
8325	0.29	0.11	0.00	0.00	0.00	0.00	0.32	0.72								
8335	0.24	0.09	0.00	0.09	0.00	0.00	0.26	0.68								
8340	0.28	0.11	0.00	0.09	0.00	0.00	0.31	0.79								
8345	0.78	0.29	0.00	0.09	0.00	0.00	0.85	2.01								
8350	0.88	0.33	0.00	0.09	0.00	0.00	0.96	2.26								
8360	2.77	1.04	0.00	0.13	0.00	0.00	3.01	6.95								
8365	2.81	1.06	0.00	0.13	0.00	0.00	3.06	7.06								
8370	2.84	1.07	0.00	0.13	0.00	0.00	3.09	7.13								
8375	2.89	1.08	0.00	0.13	0.00	0.00	3.14	7.24								
8385	1.24	0.47	0.00	0.00	0.00	0.00	1.35	3.06								
8390	1.31	0.49	0.00	0.00	0.00	0.00	1.42	3.22								
8395	1.39	0.52	0.00	0.00	0.00	0.00	1.51	3.42								
8405	2.13	0.98	0.00	0.09	0.56	0.08	1.89	5.73	2.66	1.00	0.00	0.09	0.68	0.10	2.76	7.29
8410	2.56	1.16	0.00	0.09	0.56	0.08	2.27	6.72	3.20	1.19	0.00	0.09	0.68	0.10	3.32	8.58
8415	2.60	1.18	0.00	0.09	0.56	0.08	2.31	6.82	3.25	1.21	0.00	0.09	0.68	0.10	3.37	8.70
8420	3.04	1.40	0.00	0.09	0.80	0.12	2.71	8.16	3.80	1.43	0.00	0.09	0.96	0.14	3.95	10.37
8425	3.67	1.64	0.00	0.09	0.68	0.10	3.25	9.43	4.59	1.68	0.00	0.09	0.82	0.12	4.74	12.04
8430	7.28	3.43	0.00	0.09	2.39	0.36	6.50	20.05	9.10	3.51	0.00	0.09	2.88	0.43	9.48	25.49
8435	8.00	3.80	0.00	0.09	2.81	0.42	7.16	22.28	10.00	3.89	0.00	0.09	3.39	0.51	10.84	28.32
8445	2.88	1.30	0.00	0.09	0.56	0.08	2.56	7.47	3.61	1.33	0.00	0.09	0.68	0.10	3.73	9.54
8455	1.30	0.85	0.00	0.09	0.51	0.08	1.22	4.05								
8460	1.45	0.94	0.00	0.09	0.55	0.08	1.36	4.47								
8465	1.60	1.03	0.00	0.09	0.56	0.08	1.49	4.85								
8470	1.80	1.19	0.00	0.13	0.76	0.11	1.69	5.68								
8475	1.87	1.24	0.00	0.13	0.82	0.12	1.76	5.94								
8480	2.19	1.43	0.00	0.13	0.84	0.13	2.05	6.77								
8485	2.28	1.54	0.00	0.13	1.15	0.17	2.17	7.44								
8490	2.86	1.87	0.00	0.13	1.15	0.17	2.68	8.86								
8495	2.97	1.93	0.00	0.13	1.15	0.17	2.78	9.13								
8500	3.44	2.19	0.00	0.17	1.12	0.17	3.20	10.29								
8505	3.65	2.37	0.00	0.17	1.37	0.21	3.41	11.18								
8510	4.04	2.62	0.00	0.17	1.53	0.23	3.78	12.37								
8515	4.53	3.04	0.00	0.17	2.18	0.33	4.29	14.54								
8520	1.06	0.73	0.00	0.09	0.56	0.08	1.01	3.53								
8530	1.02	0.70	0.00	0.09	0.56	0.08	0.97	3.42								
8540	1.28	0.85	0.00	0.11	0.56	0.08	1.21	4.09								
8545	1.29	0.86	0.00	0.11	0.56	0.08	1.22	4.12								
8555	0.66	0.46	0.00	0.10	0.38	0.06	0.63	2.29								
8560	0.74	0.52	0.00	0.10	0.47	0.07	0.71	2.61								
8565	0.80	0.57	0.00	0.10	0.51	0.08	0.77	2.83								
8575	2.10	1.19	2.47	0.69	0.20	0.03	1.65	8.33								
8580	2.14	1.27	2.47	0.69	0.41	0.06	1.70	8.74								

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		
8585	2.25	1.32	2.47	0.69	0.41	0.06	1.78	8.98									
8595	19.31	10.09	11.12	3.78	5.70	0.85	16.96	67.81	23.18	10.25	14.37	4.89	9.50	1.42	23.75	87.36	
8600	26.76	14.18	16.07	5.46	9.81	1.47	23.56	97.31	32.11	14.40	20.75	7.06	16.35	2.45	32.98	126.10	
8605	36.34	19.77	21.51	7.31	13.11	1.97	32.13	132.14	43.61	20.09	27.78	9.44	21.86	3.28	44.98	171.04	
8610	16.92	8.92	11.12	3.78	5.70	0.85	14.88	62.17	20.31	9.06	14.37	4.89	9.50	1.42	20.84	80.39	
8615	24.49	13.32	16.07	5.46	12.37	1.86	21.65	95.22	29.39	13.54	20.75	7.06	20.62	3.09	30.31	124.76	
8620	31.01	17.49	21.51	7.31	15.51	2.33	27.58	122.74	37.21	17.77	27.78	9.44	25.85	3.88	38.62	160.55	
8630	15.64	8.17	6.30	2.14	3.73	0.56	13.74	50.28	18.77	8.30	8.14	2.77	6.00	0.90	19.23	64.11	
8635	16.46	8.90	6.43	2.19	6.29	0.94	14.54	55.75	19.76	9.05	8.30	2.82	10.12	1.52	20.36	71.93	
8640	26.87	14.45	11.12	3.78	9.66	1.45	23.71	91.04	32.24	14.68	14.37	4.89	15.53	2.33	33.19	117.23	
8650	13.00	6.81	5.29	1.80	2.87	0.43	11.42	41.62	15.60	6.92	6.83	2.32	4.79	0.72	15.99	53.17	
8655	20.69	10.77	11.12	3.78	5.70	0.85	18.16	71.07	24.83	10.94	14.37	4.89	9.50	1.42	25.42	91.37	
8660	26.74	14.17	15.03	5.11	9.81	1.47	23.54	95.87	32.09	14.40	19.41	6.60	16.35	2.45	32.95	124.25	
8665	35.04	18.94	15.97	5.43	11.76	1.76	30.94	119.84	42.04	19.24	20.63	7.01	19.60	2.94	43.32	154.78	
8670	35.79	19.50	18.66	6.35	13.11	1.97	31.65	127.03	42.95	19.81	24.11	8.20	21.86	3.28	44.31	164.52	
8685	11.67	6.06	5.31	1.81	3.13	0.47	10.24	38.69	14.00	6.16	6.86	2.33	5.22	0.78	14.33	49.68	
8690	16.84	8.80	7.94	2.70	4.91	0.74	14.79	56.72	20.21	8.93	10.25	3.48	8.19	1.23	20.71	73.00	
8695	20.06	10.83	12.19	4.14	9.34	1.40	17.71	75.67	24.07	11.01	15.74	5.35	15.57	2.33	24.80	98.87	
8700	27.07	14.60	15.43	5.24	12.37	1.86	23.90	100.47	32.49	14.83	19.92	6.77	20.62	3.09	33.45	131.17	
8705	39.88	21.52	20.76	7.06	13.11	1.97	35.21	139.51	47.86	21.86	26.82	9.12	21.86	3.28	49.29	180.09	
8710	58.37	31.47	26.99	9.18	19.03	2.86	51.52	199.42	70.04	31.97	34.87	11.85	31.73	4.76	72.13	257.35	
8720	20.53	10.69	10.38	3.53	5.70	0.85	18.02	69.70	24.64	10.86	13.41	4.56	9.50	1.42	25.23	89.62	
8725	28.90	15.23	14.24	4.84	9.81	1.47	25.42	99.91	34.58	15.47	18.39	6.25	16.35	2.45	35.58	129.17	
8730	30.64	16.35	15.87	5.40	12.37	1.86	27.00	109.49	36.77	16.61	20.50	6.97	20.62	3.09	37.80	142.36	
8735	34.47	18.54	16.78	5.71	10.94	1.64	30.42	118.50	41.36	18.83	21.68	7.37	18.24	2.74	42.58	152.80	
8740	38.30	20.74	20.22	6.88	13.11	1.97	33.83	135.05	45.96	21.07	26.12	8.88	21.86	3.28	47.37	174.54	
8745	45.68	25.22	25.96	8.83	19.03	2.86	40.48	168.06	54.81	25.62	33.53	11.40	31.73	4.76	56.68	218.53	
8755	8.59	4.99	5.87	1.88	1.75	0.26	8.07	31.41	10.31	5.06	7.72	2.47	2.35	0.35	10.49	38.75	
8760	14.74	8.80	12.92	4.13	4.42	0.66	13.93	59.60	17.58	8.92	16.99	5.44	5.96	0.89	18.11	73.99	
8765	20.31	12.21	17.61	5.64	6.58	0.99	19.23	82.57	24.37	12.39	23.17	7.42	8.86	1.33	25.00	102.54	
8770	20.85	12.51	17.61	5.64	6.58	0.99	19.73	83.91	25.02	12.69	23.17	7.42	8.86	1.33	25.65	104.14	
8775	25.10	15.08	21.53	6.89	8.09	1.21	23.76	101.66	30.11	15.30	28.32	9.06	10.89	1.63	30.88	126.19	
8780	25.51	15.31	21.53	6.89	8.09	1.21	24.14	102.68	30.51	15.53	28.32	9.06	10.89	1.63	31.38	127.42	
8790	14.77	8.82	12.92	4.13	4.42	0.66	13.96	59.68	17.72	8.94	16.99	5.44	5.96	0.89	18.15	74.09	
8795	20.05	12.07	17.61	5.64	6.58	0.99	18.99	81.93	24.06	12.24	23.17	7.42	8.86	1.33	24.69	101.77	
8800	20.35	12.23	17.61	5.64	6.58	0.99	19.27	82.67	24.42	12.41	23.17	7.42	8.86	1.33	25.05	102.66	
8805	26.15	15.66	21.53	6.89	8.09	1.21	24.74	104.27	31.38	15.88	28.32	9.06	10.89	1.63	32.16	129.32	
8810	26.58	15.89	21.53	6.89	8.09	1.21	25.13	105.32	31.89	16.12	28.32	9.06	10.89	1.63	32.67	130.58	
8820	17.24	9.24	12.92	4.13	6.12	0.92	15.21	65.78	20.69	9.38	16.99	5.44	5.96	10.22	1.53	21.29	85.54
8825	24.97	13.60	17.61	5.64	9.86	1.48	22.08	95.24	29.96	13.82	23.17	7.42	15.96	2.39	30.91	123.63	
8830	39.40	21.68	25.44	8.14	17.93	2.69	34.90	150.18	47.28	22.02	33.47	10.71	29.39	4.41	48.86	196.14	
8840	16.19	8.72	10.84	3.47	5.99	0.90	14.29	60.40	19.43	8.86	14.27	4.56	9.91	1.49	20.01	78.53	
8845	27.29	14.70	17.85	5.71	7.63	1.15	24.08	98.41	32.75	14.93	23.48	7.51	12.62	1.89	33.72	126.90	
8855	17.89	9.56	12.92	4.13	6.12	0.92	15.77	67.31	21.47	9.71	16.99	5.44	10.22	1.53	22.08	87.44	
8860	25.82	13.70	17.61	5.64	8.21	1.23	22.73	94.94	30.98	13.92	23.17	7.42	13.75	2.06	31.82	123.12	
8870	4.54	1.33	5.25	1.47	0.04	0.01	7.77	20.41									
8875	6.90	2.02	9.23	2.58	0.04	0.01	11.81	32.59									
8885	1.11	0.60	0.00	0.01	0.00	0.00	0.86	2.58									
8890	1.29	0.70	0.00	0.01	0.00	0.00	1.00	3.00									
8895	1.50	0.81	0.00	0.01	0.00	0.00	1.16	3.48									
8905	1.88	1.07	0.55	0.14	0.20	0.03	1.48	5.35									
8910	2.15	1.22	0.55	0.14	0.20	0.03	1.69	5.98									
8915	2.39	1.35	0.55	0.14	0.20	0.03	1.88	6.54									
8925	0.23	0.10	1.63	0.49	0.00	0.00	0.15	2.60									
8930	0.28	0.12	2.04	0.61	0.00	0.00	0.18	3.23									

TABLE 3-5. HOURLY RATE ELEMENTS (CONTINUED)

UNIT NO	AVERAGE CONDITIONS							SEVERE CONDITIONS							
	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	REPR	TOTAL RATE	DEPR	CFC	FUEL	FOG	TIRE WEAR	TIRE RPR	TOTAL RATE
8940	0.41	0.20	3.29	0.79	0.02	0.00	0.53	5.24							
8945	0.44	0.21	3.29	0.79	0.02	0.00	0.56	5.31							
8950	0.48	0.23	5.48	1.31	0.02	0.00	0.61	8.13							
8955	0.61	0.29	5.81	1.40	0.02	0.00	0.78	8.91							
8965	0.57	0.27	1.31	0.31	0.02	0.00	0.73	3.21							
8970	0.61	0.29	1.84	0.44	0.02	0.00	0.78	3.98							
8975	0.68	0.33	1.84	0.44	0.05	0.01	0.86	4.21							
8980	0.74	0.35	3.10	0.74	0.05	0.01	0.94	5.93							
8990	0.23	0.10	0.82	0.24	0.00	0.00	0.16	1.55							
8995	0.24	0.10	1.63	0.49	0.00	0.00	0.16	2.62							
9005	0.11	0.04	1.55	0.47	0.00	0.00	0.07	2.24							
9010	0.14	0.06	1.96	0.59	0.00	0.00	0.09	2.84							
9015	0.37	0.15	2.45	0.73	0.00	0.00	0.25	3.95							
9020	0.65	0.27	3.43	1.03	0.00	0.00	0.43	5.81							
9030	0.05	0.02	1.55	0.47	0.00	0.00	0.03	2.12							
9035	0.16	0.07	1.96	0.59	0.00	0.00	0.11	2.89							

APPENDIX A

REFERENCES

1. Haver, J. A. and F. W. Stubbs, Jr., Handbook of Heavy Construction, 2nd ed, McGraw-Hill Company, New York, 1971.
2. Nichols, H. L., Jr., Moving the Earth, 3rd ed, North Castle Books, Greenwich, Connecticut, 1976.
3. Application Manual for Hydraulic Excavators and Shovels, 1st ed, Koehring Company, Milwaukee, Wisconsin, 1981.
4. Bulletin B-502, Goodyear Tire and Rubber Company, Akron, Ohio, June 1985.
5. Caterpillar Performance Handbook, 14th ed, Caterpillar Tractor Company, Peoria, Illinois, 1983.
6. Earthmoving Principles, International Harvester, Pay Line Division, Schaumburg, Illinois, 1975.
7. Euclid Hauler Handbook, 14th ed, Euclid, Inc., Cleveland, Ohio, 1981.
8. "FAR 31.105 Construction and Architect-Engineer Contracts", Federal Acquisition Regulation, Government Printing Office, Washington, D.C., April 1985.
9. "FAR 31.205-10 Cost of Money", Federal Acquisition Regulation, Government Printing Office, Washington, D.C., April 1984.
10. "FAR 31.205-24 Maintenance and Repair Costs", Federal Acquisition Regulation, Government Printing Office, Washington, D.C., April 1984.
11. Fundamentals of Earthmoving, Caterpillar Tractor Company, Peoria, Illinois, 1975.
12. Green Guide for Off-Highway Trucks and Trailers, Dataquest, Inc., Palo Alto, California, 1984, 1985.
13. Green Guide Volume I, Dataquest, Inc., Palo Alto, California, 1984, 1985.
14. Green Guide Volume II, Dataquest, Inc., Palo Alto, California, 1984, 1985.

APPENDIX A

REFERENCES (Cont'd)

15. Means 1985 Labor Rates for the Construction Industry, 11th ed., R. S. Means Company, Inc., Kingston, Massachusetts, 1984.
16. Operating Cost Guide, Power Crane and Shovel Association, Milwaukee, Wisconsin, 1976.
17. Owning and Operating Costs, Fiat-Allis Construction Machinery, Inc., Springfield, Illinois, 1983.
18. "Part 414 - Cost Accounting Standard - Cost of Money as an Element of the Cost of Facilities Capital", Defense Procurement Circular (DPC) #76-2, Government Printing Office, Washington, D.C., August 1976.
19. Producer Prices and Price Indexes, U. S. Department of Labor, Bureau of Labor Statistics, Government Printing Office, Washington, D.C., 1974 through 1985.
20. Production and Cost Estimating of Material Movement with Earthmoving Equipment, General Motors Corp., Terex Division, Hudson, Ohio, 1975.

APPENDIX B

AREA FACTORS

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

Sales or Import Tax Rate:	6.00 %
Working Hours Per Year:	1,410 Hrs/Yr
Labor Adjustment Factor (LAF):	1.190
Electricity Cost Per Kilowatt-Hour:	\$ 0.136 /Kw-Hr
Gasoline Cost Per Gallon:	\$ 1.040 /Gal.
Diesel Cost Per Gallon (Off-Road Use):	\$ 1.030 /Gal.
Diesel Cost Per Gallon (On-Road Use):	\$ 1.030 /Gal.
Freight Rates:	0 thru 24,000 lbs. \$16.250 /Cwt. over 24,000 thru 30,000 lbs. \$14.300 /Cwt. over 30,000 thru 44,000 lbs. \$11.850 /Cwt. over 44,000 thru 60,000 lbs. \$ 9.450 /Cwt. over 60,000 thru 70,000 lbs. \$ 7.700 /Cwt. over 70,000 thru 80,000 lbs. \$ 7.250 /Cwt. over 80,000 thru 9999,900 lbs. \$ 6.850 /Cwt.

APPENDIX C

GUIDE FOR SELECTING OPERATING CONDITIONS

EQUIPMENT TYPE	AVERAGE	SEVERE
Cranes, Crawler	Lift less than rated capacity, intermittent duty.	Continuous lift near rated capacity, excessive swing, abrasive materials, sloped surfaces.
Truck		
Depreciation Period	10,000 - 15,000 Hrs.	8,000 - 14,000 Hrs.
Shovels	Gravels, silts, well broken rock, lift less than rated capacity.	Extremely abrasive tough materials, lifting near rated capacity, impact breakout.
Depreciation Period	6,000 - 14,000 Hrs.	5,000 - 12,000 Hrs.
Draglines	Gravels, silts, pull and lift less than rated capacity.	Highly abrasive materials, impact breakout, continuous load near rated capacity.
Depreciation Period	9,000 - 15,000 Hrs.	8,000 - 14,000 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	6,000 - 11,000 Hrs.	5,000 - 9,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
Tractors, Crawler Type	Production dozing in clays, sands, gravels and talus rock. Push-loading scrapers, borrow pit ripping, most landclearing and skidding applications. Medium impact conditions.	Heavy rock ripping. Tandem ripping. Pushloading and dozing in hard rock. Continuous high impact conditions.
Depreciation Period	8,000 - 9,000 Hrs.	6,000 - 8,000 Hrs.
Tractors, Wheel-Type	Production dozing, pushloading in clays, sands, silts, loose gravels. Shovel cleanup.	Production dozing in rock. Push-loading in rocky, bouldery borrow pits. High impact conditions.
Depreciation Period	8,000 Hrs.	6,000 Hrs.
Scrapers, Self-Propelled	Varying loading and haul road conditions. Long and short hauls. Adverse and favorable grades. Some impact. Typical road-building use on a variety of jobs.	High impact condition, such as loading ripped rock. Continuous high total resistance conditions. Rough haul roads.
Depreciation Period	8,000 Hrs.	6,000 Hrs.
Trucks, Off Highway	Varying loading and haul road conditions. Typical road-building use on a variety of jobs.	Consistently poor haul road conditions. Oversized loading equipment.
Depreciation Period	9,000 Hrs.	8,000 Hrs.

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
Trucks, Highway	Varying loading and road conditions. Typical construction use on a variety of jobs.	Consistently poor road conditions. Oversized loading equipment.
Depreciation Period	5,000 - 6,000 Hrs.	4,000 - 5,000 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	8,000 - 9,000 Hrs.	6,000 - 8,000 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	8,000 Hrs.	6,000 Hrs.

EP 1110-1-8
(Vol. 12)
1 Jun 86

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

EQUIPMENT TYPE	AVERAGE	SEVERE
Motor Graders	Haul road maintenance. Road construction, ditching. Loose fill spreading. Land- forming, landleveling. Summer road mainten- ance with medium to heavy winter snow removal. Elevating grader use.	Maintenance of hard packed roads with embedded rock. Heavy fill spread- ing. Ripping- scarifying of asphalt or con- crete. Continuous high load factor. High impact.
Depreciation Period	9,000 Hrs.	8,000 Hrs.

APPENDIX D
EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS

TABLE LEGEND

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

TABLE LEGEND

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

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
15	AGGREGATE SPREADERS	A	10	20	50 .000	.051	.030		0 .000	.000	.000		0	24	24	97	69	99	70
30	AIR COMPRESSORS	A	10	30	65 .000	.066	.038		0 .000	.000	.000		45	32	28	0	0	90	70
45	AIR TOOLS, SANDBLASTERS, ETC	A	4	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	90	150
60	ASPHALT DISTRIBUTORS	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	71	57	79	85
65	ASPHALT AND CONCRETE PAVERS	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	83	66	92	90
70	ASPHALT KETTLES AND RECYCLERS	A	8	20	65 .000	.066	.038		0 .000	.000	.000		0	32	28	76	60	84	80
	BACKHOE (SEE KEY NO. 570-601)																		
75	BROOMS	A	10	25	65 .000	.066	.000		0 .000	.000	.000		0	24	28	81	65	90	80
80	BRUSH CHIPPERS	A	10	20	45 .000	.046	.027		0 .000	.000	.000		0	32	28	0	0	90	90
90	BUCKETS, CLAMSHELL & DRAGLINE	A	10	15	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	70
90		S	8	15	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
95	BUCKETS, CONCRETE	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	70
105	CONCRETE OR GROUT PUMP	A	8	15	95 .000	.097	.056		0 .000	.000	.000		45	32	28	81	65	90	90
120	CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS	A	8	20	0 .000	.000	.000		0 .000	.000	.000		45	32	28	0	0	90	80
125	CONCRETE FINISHERS & BUGGIES	A	6	20	70 .700	.071	.041		0 .000	.000	.000		50	32	28	0	0	90	80
130	CONCRETE SAWS	A	8	20	90 .900	.091	.053		0 .000	.000	.000		45	32	38	0	0	90	90
135	CONCRETE VIBRATORS	A	4	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	250
140	COMPACTORS, MANUALLY OPERATED	A	6	20	90 .000	.091	.053		0 .000	.000	.000		0	24	24	0	0	85	120
	CRANE, CRAWLER TYPE																		
150	0 THRU 25 TON	A	13	20	40 .000	.041	.024		0 .000	.000	.000		0	32	32	0	0	0	55
150		S	11	20	52 .000	.053	.031		0 .000	.000	.000		0	32	32	0	0	0	60
165	OVER 25 TON THRU 50 TON	A	15	20	40 .000	.041	.024		0 .000	.000	.000		0	20	20	0	0	0	65
165		S	13	20	52 .000	.053	.031		0 .000	.000	.000		0	20	20	0	0	0	70
170	OVER 50 TON THRU 150 TON	A	18	20	40 .000	.041	.024		0 .000	.000	.000		0	22	22	0	0	0	75
170		S	16	20	52 .000	.053	.031		0 .000	.000	.000		0	22	22	0	0	0	80
180	OVER 150 TON	A	20	20	40 .000	.041	.024		0 .000	.000	.000		0	24	24	0	0	0	85
180		S	18	20	52 .000	.053	.031		0 .000	.000	.000		0	24	24	0	0	0	90
	DRAGLINE & CLAMSHELL,CRAWLER																		
185	0 THRU 1 CY	A	12	20	50 .000	.051	.030		0 .000	.000	.000		0	32	32	0	0	0	70
185		S	10	20	65 .000	.066	.038		0 .000	.000	.000		0	32	32	0	0	0	80
190	OVER 1 CY THRU 2-1/2 CY	A	15	20	50 .000	.051	.030		0 .000	.000	.000		0	20	20	0	0	0	80
190		S	13	20	65 .000	.066	.038		0 .000	.000	.000		0	20	20	0	0	0	90
195	OVER 2-1/2 CY THRU 5 CY	A	18	20	50 .000	.051	.030		0 .000	.000	.000		0	22	22	0	0	0	90
195		S	15	20	65 .000	.066	.038		0 .000	.000	.000		0	22	22	0	0	0	100

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
196	OVER 5 CY	A	20	20	50 .000	.051	.030		0 .000	.000	.000		0	24	24	0	0	0	100
196		S	18	20	65 .000	.056	.038		0 .000	.000	.000		0	24	24	0	0	0	110
200	CRANES, HYDRAULIC, SELF-PROPELLED	A	16	15	65 .000	.056	.038		0 .000	.000	.000		0	32	30	89	71	90	70
205	CRANES, TOWER	A	18	30	65 .900	.066	.038		10 .900	.010	.006		50	30	26	0	0	0	80
	CRANES & HYD. EXC., TRK MTD																		
210	UNDER 26 T. (THRU 1 CY)	A	15	15	65 .000	.056	.038		10 .000	.010	.006		0	38	36	97	78	0	50
210		S	13	15	85 .000	.086	.050		13 .000	.013	.007		0	38	36	86	61	0	55
225	26 THRU 65 T (1 TH 2-1/2 CY)	A	18	15	65 .000	.056	.038		10 .000	.010	.006		0	30	26	97	78	0	60
225		S	16	15	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	65
230	66 THRU 125 T	A	20	15	65 .000	.056	.038		10 .000	.010	.006		0	30	26	97	78	0	70
230		S	18	15	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	75
240	OVER 125 T	A	22	20	65 .000	.056	.038		10 .000	.010	.006		0	30	26	97	78	0	80
240		S	20	20	85 .000	.086	.050		13 .000	.013	.007		0	30	26	86	61	0	85
255	DRILL, AUGER	A	10	20	50 .000	.051	.030		0 .000	.000	.000		0	32	28	67	57	0	90
270	DRILL, BLAST HOLE	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	90
300	DRILL, CORE	A	10	20	80 .000	.081	.047		0 .000	.000	.000		0	16	24	0	0	0	90
315	DRILL, ROTARY TO 11" DIA. HOLE	A	15	20	80 .000	.081	.047		10 .000	.010	.006		0	38	38	62	44	0	90
330	DRILL, ROTARY OVER 11" DIA.	A	20	20	80 .000	.081	.047		10 .000	.010	.006		0	32	32	62	44	0	90
345	DRILL, ROTARY OVER 11" DIA., ELECTRIC	A	20	20	70 .700	.000	.000		10 .900	.000	.000		50	0	0	0	0	0	45
375	FORK LIFTS	A	10	20	65 .900	.056	.038		0 .000	.000	.000		45	24	24	87	78	90	70
390	GRADERS	A	12	25	60 .000	.051	.035		0 .000	.000	.000		0	20	34	89	71	0	60
390		S	10	25	78 .000	.079	.046		0 .000	.000	.000		0	20	34	71	51	0	70
420	GENERATORS	A	8	15	65 .000	.056	.038		0 .000	.000	.000		0	24	24	0	0	90	60
420		S	7	15	85 .000	.086	.050		0 .000	.000	.000		0	24	24	0	0	90	70
435	HOIST	A	10	20	65 .000	.056	.038		0 .000	.000	.000		0	24	24	0	0	0	80
	HYD. EXCAVATOR (SEE KEY NO. 570-601)																		
440	LIGHT PLANTS	A	8	25	85 .000	.086	.050		0 .000	.000	.000		0	24	24	0	0	90	150
450	LOADER, BELT	A	10	25	65 .000	.056	.038		0 .000	.000	.000		0	28	28	26	0	99	90
450		S	8	25	85 .000	.086	.050		0 .000	.000	.000		0	28	28	16	0	96	100
460	LOADER, FRONT END & LOADER F/E WITH BACKHOE.CRAWLER TYPE	A	10	20	70 .000	.071	.041		0 .000	.000	.000		0	32	38	0	0	0	125
460	LOADER, WHEEL TYPE	S	8	20	91 .000	.092	.054		0 .000	.000	.000		0	32	38	0	0	0	130
465	0 THRU 225 HP	A	10	25	65 .000	.056	.038		0 .000	.000	.000		0	32	42	70	42	0	70
465		S	8	25	85 .000	.086	.050		0 .000	.000	.000		0	32	42	41	22	0	75

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
470	OVER 225 HP	A	12	15	65 .000 .066 .038	0 .000 .000 .000	0	32	30	70	42	0	70						
470		S	10	15	85 .000 .086 .050	0 .000 .000 .000	0	32	30	41	22	0	75						
475	LOADER, FRONT END WITH BACKHOE, WHEEL TYPE	A	10	25	65 .000 .066 .038	0 .000 .000 .000	0	32	32	72	50	0	80						
475		S	8	25	85 .000 .086 .050	0 .000 .000 .000	0	32	32	57	35	0	85						
480	PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR	A	6	35	65 .000 .066 .038	0 .000 .000 .000	0	32	32	0	0	0	90						
485	PIPELAYERS	A	12	25	35 .000 .000 .021	0 .000 .000 .000	0	0	40	0	0	0	75						
485	PUMP, GROUT (SEE KEY NO. 105)	S	10	25	45 .000 .000 .027	0 .000 .000 .000	0	0	40	0	0	0	85						
495	PUMP, WATER, ENGINE DRIVE	A	10	25	90 .000 .091 .053	0 .000 .000 .000	0	32	38	0	0	0	80						
500	PUMP, WATER, ELECTRIC DRIVE	A	10	25	90 .900 .000 .000	0 .000 .000 .000	45	0	0	0	0	0	40						
510	RIPPERS	A	8	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	80						
510		S	6	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	0	0	0	90						
525	ROLLERS, EXCEPT VIB. ROLLERS	A	10	20	65 .000 .066 .038	65 .000 .066 .038	0	24	24	76	60	84	80						
530	ROLLERS, VIBRATORY	A	8	20	90 .000 .091 .053	90 .000 .091 .053	0	32	32	76	60	84	100						
540	SCRAPERS, STANDARD	A	10	15	60 .000 .000 .035	60 .000 .000 .035	0	0	32	59	33	65	60						
540		S	8	15	78 .000 .000 .046	78 .000 .000 .046	0	0	32	39	19	43	65						
542	SCRAPERS, TANDEM POWERED	A	10	15	62 .000 .000 .037	62 .000 .000 .037	0	0	26	59	33	65	65						
542		S	8	15	81 .000 .000 .048	81 .000 .000 .048	0	0	26	39	19	43	70						
	SCRAPERS, ELEVATING																		
545	O THRU 200 HP	A	10	20	66 .000 .000 .039	66 .000 .000 .039	0	0	40	59	33	65	75						
545		S	8	20	86 .000 .000 .051	86 .000 .000 .051	0	0	40	39	19	43	80						
550	OVER 200 HP	A	10	15	66 .000 .000 .039	66 .000 .000 .039	0	0	32	59	33	65	65						
550		S	8	15	86 .000 .000 .051	86 .000 .000 .051	0	0	32	39	19	43	70						
555	SCRAPERS, TRACTOR DRAWN	A	12	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	65	0	72	70						
555		S	10	20	0 .000 .000 .000	0 .000 .000 .000	0	0	0	50	0	55	75						
560	SOIL STABILIZERS	A	10	20	66 .000 .000 .039	66 .000 .000 .039	0	0	28	59	33	65	75						
560		S	8	20	86 .000 .000 .051	86 .000 .000 .051	0	0	28	39	19	43	85						
	SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED																		
570	O. THRU 1 CY	A	8	25	60 .000 .061 .035	0 .000 .000 .000	0	38	38	0	0	0	70						
570		S	6	25	78 .000 .079 .046	0 .000 .000 .000	0	38	38	0	0	0	80						
585	OVER 1 CY THRU 2-1/2 CY	A	10	20	60 .000 .061 .035	0 .000 .000 .000	0	20	20	0	0	0	80						
585		S	8	20	78 .000 .079 .046	0 .000 .000 .000	0	20	20	0	0	0	90						
595	OVER 2-1/2 CY THRU 5 CY	A	12	20	60 .000 .061 .035	0 .000 .000 .000	0	22	22	0	0	0	90						
595		S	10	20	78 .000 .079 .046	0 .000 .000 .000	0	22	22	0	0	0	100						

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
600	OVER 5 CY	A	14	15	60 .000	.061	.035		0 .000	.000	.000		0	24	24	0	0	0	110
600		S	12	15	78 .000	.079	.046		0 .000	.000	.000		0	24	24	0	0	0	120
601	OVER 2-1/2 CY ELECTRIC	A	18	20	50 .500	.000	.000		0 .000	.000	.000		25	0	0	0	0	0	70
601		S	16	20	65 .650	.000	.000		0 .000	.000	.000		25	0	0	0	0	0	80
	TRACTOR, CRAWLER TYPE																		
615	O THRU 225 HP	A	10	25	70 .000	.000	.041		0 .000	.000	.000		0	0	36	0	0	0	110
615		S	8	25	91 .000	.000	.054		0 .000	.000	.000		0	0	36	0	0	0	120
620	226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS)	A	10	20	70 .000	.000	.041		0 .000	.000	.000		0	0	28	0	0	0	90
620		S	8	20	91 .000	.000	.054		0 .000	.000	.000		0	0	28	0	0	0	100
625	OVER 425 HP	A	12	15	70 .000	.000	.041		0 .000	.000	.000		0	0	24	0	0	0	90
625		S	10	15	91 .000	.000	.054		0 .000	.000	.000		0	0	24	0	0	0	100
630	TRACTOR, BLADES, PUSH BLOCKS,	A	10	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
630	PUSH PLATES & CLEARING BLADES	S	8	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	90
645	TRACTOR, WHEEL TYPE	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	24	28	73	44	0	60
645		S	8	20	85 .000	.036	.050		0 .000	.000	.000		0	24	28	38	21	0	65
650	TRENCHER	A	10	20	65 .000	.066	.038		0 .000	.000	.000		0	28	28	91	68	0	90
650		S	8	20	85 .000	.036	.050		0 .000	.000	.000		0	28	28	77	48	0	100
655	TRAILERS, BOTTOM DUMP AND END DUMP	A	10	15	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	55	60
655		S	8	15	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	54	70
660	TRAILERS, FLATBED, LO-BOY AND TILT	A	10	30	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	65	50
	TRUCK ACCESSORIES FOR CHASSIS MOUNTING																		
670	DUMP BODIES	A	8	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	70
670		S	6	20	0 .000	.000	.000		0 .000	.000	.000		0	0	0	0	0	0	80
675	ALL OTHER ACCESSORIES	A	8	20	65 .000	.066	.000		0 .000	.000	.000		0	32	32	0	0	0	70
	TRUCK, HIGHWAY																		
690	O THRU 10,000 GVW	A	6	25	15 .000	.015	.009		0 .000	.000	.000		0	28	24	41	29	0	70
690		S	5	25	20 .000	.020	.012		0 .000	.000	.000		0	28	24	36	22	0	80
695	OVER 10,000 THRU 30,000 GVW	A	8	25	35 .000	.035	.020		0 .000	.000	.000		0	30	26	49	39	0	60
695		S	6	25	46 .000	.045	.026		0 .000	.000	.000		0	30	26	42	30	0	70
705	OVER 30,000 GVW	A	8	20	50 .000	.052	.030		0 .000	.000	.000		0	32	28	51	38	57	60
705		S	6	20	65 .000	.067	.039		0 .000	.000	.000		0	32	28	43	29	48	70
720	TRUCK, OFF-HIGHWAY	A	12	15	40 .000	.000	.024		0 .000	.000	.000		0	0	34	59	36	65	60
720		S	10	15	52 .000	.000	.031		0 .000	.000	.000		0	0	34	39	21	43	70
765	WAGON, BOTTOM & REAR DUMP	A	12	15	65 .000	.066	.038		0 .000	.000	.000		0	24	32	59	39	65	60
765		S	10	15	85 .000	.086	.050		0 .000	.000	.000		0	24	32	39	22	43	70
780	WAGON, WATER	A	12	20	65 .000	.066	.038		0 .000	.000	.000		0	24	32	73	55	81	60
780		S	10	20	85 .000	.086	.050		0 .000	.000	.000		0	24	32	56	40	52	65

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

KEY NO.	TYPE OF EQUIPMENT	C	LFE	SLV	EQUIPMENT POWER				CARRIER POWER				FOG			TIRES			RPR
					HP	E	G	D	HP	E	G	D	E	G	D	F	D	T	
785	WATER BLASTER	A	6	20	95	.000	.097	.056	0	.000	.000	.000	0	24	28	0	0	90	110
795	WATER TANKS	A	12	20	65	.000	.066	.038	0	.000	.000	.000	0	24	28	77	73	90	50
810	WELDERS	A	8	30	80	.000	.081	.047	0	.000	.000	.000	0	24	24	0	0	90	70
811	WELDERS ELECTRIC POWER	A	8	25	60	.600	.000	.000	0	.000	.000	.000	30	0	0	0	0	90	40

APPENDIX E

ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

*1967 = 1000

CATEGORY	YEAR PURCHASE NEW												
	1986 1985 1984 1983				1982 1981 1980 1979				1978 1977 1976 1975 1974				
	AGE IN YEARS		5	6	7	8	9	10	11	12			
Air Equipment	1785	1733	1683	1695	1668	1563	1630	1521	1354	1295	1186	1165	1028
Asphalt & Concrete Paving Equipment	2766	2685	2611	2583	2620	2461	2296	2111	1941	1815	1686	1610	1451
Buckets	4732	4639	4527	4471	4541	4313	3879	3280	2963	2738	2520	2175	1838
Cranes, Draglines & Clamshells - Crawler & Truck Mounted	3463	3395	3339	3282	3213	3009	2782	2512	2301	2138	2010	1843	1522
Drills	2858	2830	2803	2836	2810	2602	2265	1993	1858	1699	1638	1559	1373
Generators	3581	3511	3400	3314	3236	3160	2817	2390	2301	2128	2053	1839	1456
Graders, Motor	3813	3738	3645	3643	3561	3276	2992	2687	2492	2259	2109	1956	1604
Loaders, Track	3807	3769	3791	3792	3655	3349	3061	2750	2482	2247	2053	1916	1573
Loaders, Wheel	4013	3973	3944	3873	3788	3441	2938	2606	2375	2156	2002	1907	1584
Pile Driving Equipment	3698	3625	3570	3519	3439	3208	2894	2562	2329	2135	1989	1852	1523
Rollers	4212	4089	3926	3744	3431	3199	2913	2653	2396	2139	1983	1872	1556
Scrapers and Soil Stabilizers	3813	3738	3645	3643	3561	3276	2992	2687	2492	2259	2109	1956	1604
Shovels, Backhoes & Hydraulic Excavators	3463	3395	3339	3282	3213	3009	2782	2512	2301	2138	2010	1843	1522
Tractors, Crawler & Attachments	3807	3769	3791	3792	3655	3349	3061	2750	2482	2247	2053	1916	1573
Tractors, Wheel	3894	3818	3656	3557	3530	3256	2927	2578	2319	2125	1956	1813	1498
Trenchers	4580	4490	4431	4360	4097	3618	3153	2772	2580	2300	1804	1633	1527
Trucks, Highway	3268	3142	3055	2934	2824	2638	2324	2108	1934	1775	1646	1524	1362
Trucks & Wagons - Off Highway	3900	3824	3786	3744	3662	3363	2964	2588	2364	2196	2081	1965	1568
All Other Equipment	3698	3625	3570	3519	3439	3208	2894	2562	2329	2135	1980	1852	1523
All Tires & Tubes	2401	2377	2421	2453	2552	2506	2369	2055	1792	1694	1615	1485	1334

APPENDIX F

TIRE LIFE AND TIRE WEAR FACTORS

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

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

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

EP 1110-1-8
(Vol. 12)
1 Jun 86

TABLE F-1. Maximum Tire Life.

Bias Ply Tires:

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

Radial Ply Tires:

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

APPENDIX G
EQUIPMENT EXTRAS

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

(1) Crane, Crawler-Mounted.

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

(2) Dragline and Clamshell, Crawler-Mounted.

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

(3) Backhoe and Shovel, Crawler-Mounted.

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

(4) Truck Crane Less than 25 Ton.

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

(5) Truck Crane 25 Ton and Larger.

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

(6) Excavators, Hydraulic.

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

(7) Grader.

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

(8) Belt Loader.

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

(9) Loader 1-1/2 C.Y. and Larger.

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

(10) Scraper.

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

(11) Tractor, Crawler.

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

(12) Tractor, Wheel Dozer.

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

(13) Trucks, Off-Highway.

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