

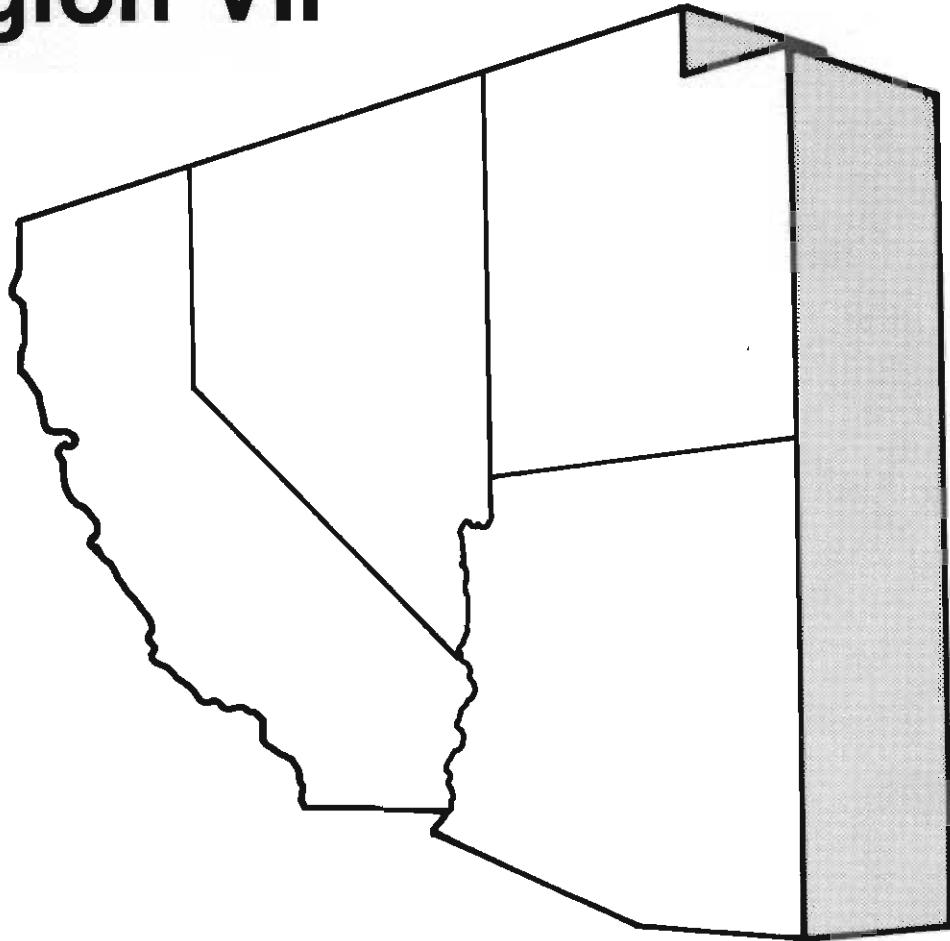


US Army Corps
of Engineers
Office of the Chief
of Engineers

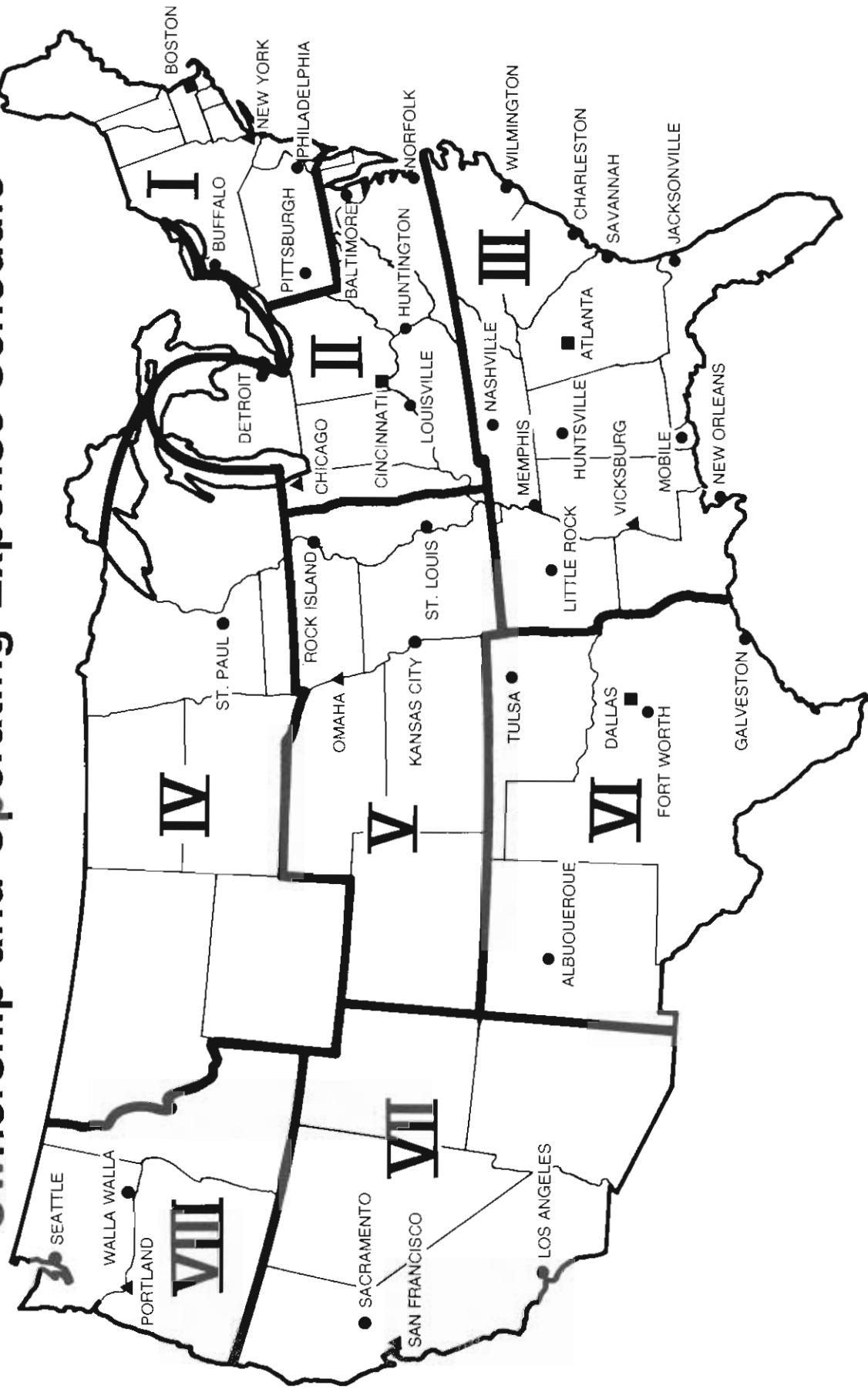
EP 1110-1-8
Volume 7
June 1981

Construction Equipment Ownership and Operating Expense Schedule

Region VII



Regions for the Construction Equipment Ownership and Operating Expense Schedule



DAEN-CWE-BA
DAEN-MPE-S

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

EP 1110-1-8
Volume 7

Pamphlet
No. 1110-1-8

15 June 1981

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP
AND OPERATING EXPENSE SCHEDULE

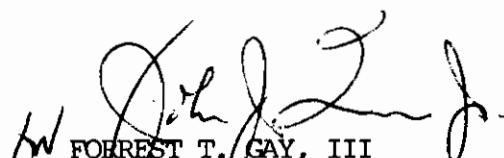
1. Purpose. This pamphlet establishes predetermined equipment ownership and operating expense rates for use in preparation of estimates and in pricing negotiated procurements requiring independent Government estimates.

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

Arizona
California
Nevada
Utah

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 1979. 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:


FORREST T. GAY, III
Colonel, Corps of Engineers
Chief of Staff

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

DAEN-CWE-BA
DAEN-MPE-S

EP 1110-1-8
(Vol. 7)

Engineer Pamphlet
No. 1110-1-8

15 June 1981

Engineering and Design
CONSTRUCTION EQUIPMENT OWNERSHIP
AND OPERATING EXPENSE SCHEDULE

Table of Contents

| | <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 Costs----- | | 3-87 |
| Table 3-3. Equipment Age Adjustment Factors for Standby Costs----- | | 3-91 |
| Table 3-4. Shift Adjustment Factors for Ownership Costs----- | | 3-95 |

EP 1110-1-8
(Vol. 7)
15 Jun 81

| | <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.

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 VII, which includes the following states:

Arizona
California
Nevada
Utah

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 1979. The percentages for marine equipment provide an allowance for ownership expenses only. This pamphlet will be updated annually or more frequently if necessary.

1-5. Use. This pamphlet shall be used as the basis for estimating equipment costs for all construction contracts (including dredging) and modifications requiring an independent Government estimate. This pamphlet shall also be used in pricing of contract modifications over \$25,000 when:

a. Cost or pricing data is not required.

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

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

CHAPTER 2

METHODOLOGY

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

2-2. Construction Equipment.

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

b. Operating Conditions.

(1) Equipment rates have been computed for both "Average" and "Severe" working conditions. "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 for Selecting Operating Conditions" in APPENDIX C. Difficult conditions are those lying midway between average and severe. Evaluation of operating conditions for equipment not listed in APPENDIX C will be consistent with the examples shown in the "guide."

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

17.5 percent. Freight and sales tax are added to the discounted price to arrive at the predetermined "equipment cost."

(1) Depreciation.

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

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

(c) Tire cost was considered to be an operating expense and was subtracted from the "equipment cost" before computing depreciation. The tire cost is that cost at the time the equipment was purchased new.

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

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

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

(a) The cost of facilities capital (CFC) as defined in DAR 15-205.50 and CAS 414 is included in the use rates. This

cost was computed by multiplying the cost of money rate (14.625%) determined by the Secretary of the Treasury pursuant to P.L. 92-41 (85 Stat. 97) by the average value of equipment and prorating the result over the annual operating hours. This cost of money rate was discounted to 11.6% to avoid duplication when applying markups for overhead and profit.

$$CFC/hr = \frac{[(N-1)(1+S)+2]}{2N} \frac{(\text{Equipment Cost})}{(\text{Work Hrs per Year})} (11.6\%)$$

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

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

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

d. Operating Cost.

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

(2) Fuel Consumption Cost.

(a) The fuel consumption in gallons per BHP-hour is listed in TABLE 3-1 for both "Average" and "Severe" conditions. The fuel consumption rate for "Severe Conditions" is 30 percent greater than the "Average Conditions" rate. Fuel consumption is computed by using the following formula:

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

where:

(1) BHP as used herein is the net brake HP of the engine at the flywheel under the following conditions: (1) at sea level; and (2) 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 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.

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

(3) Filters, Oil and Grease Costs (FOG). "FOG" costs are computed as either a percentage of the hourly fuel costs (see APPENDIX D) or, if the equipment has no engine, a reasonable hourly cost is included. Labor and equipment costs for fueling, greasing, and servicing are included in the rate. The "FOG" allowance for cranes, draglines, backhoes, and shovels (except self-propelled hydraulic cranes) has been reduced to allow for servicing normally performed by the oiler assigned to the piece of equipment.

(4) Maintenance and Repair Costs.

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

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

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

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

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

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

(5) Hourly Tire Cost.

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

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

(c) The useful tire life was determined from the method and tables in the manual prepared by Terex Division of General Motors "Production and Cost Estimating of Material Movement with Earthmoving Equipment," with the exception that the maximum tire life 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 3-3.

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.

FOR ILLUSTRATION PURPOSES ONLY
Local reproduction authorized - blank masters available from local FMO

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

1. REQUIRED DATA

a. Unit Number 2740

(1) Equipment Description Lorain Truck Crane 50-Ton
(2) Model and Series MC-550A w/160' Boom
(3) Year Purchased 1979 (4) Year Purchased New 1979
(5) Equipment Horsepower 115 (6) Carrier Horsepower 246
(7) Fuel Type Diesel/Diesel (8) Shipping Weight 111,100 Lbs.
(9) Tire Size: Front-10x20-18 M Drive-10x20-18 M Trailing- N/A

b. Key Number from APPENDIX D 225

(1) Condition Average
(2) Salvage Value % 20% (3) Life 18,000 Hrs.
(4) Equipment Fuel Factor .038 (5) Carrier Fuel Factor .006
(6) FOG Factor: Gas N/A Diesel .26 Electric N/A
(7) Tire Wear Factor: Front .95 Drive .90 Trailing N/A
(8) Repairs Cost Factor .60

2. EQUIPMENT COST

a. List Price When New (including extras) = \$ 267,037.00

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

$$= (\$ 267,037.00) \times .075 = (-) \$ 20,027.78$$

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

$$= (\text{111 Cwt.}) \times (\$ 5.91) = (+) \$ 6,566.01$$

b. Subtotal: Summation of Part a. (Use actual cost when available) = \$ 253,575.23

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

$$= (\$ 253,575.23) \times (.04) = (+) \$ 10,143.01$$

c. Equipment Cost: Summation of Part b. (Use actual cost when available) = \$ 263,718.24

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

3. LIFE (N)

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

$$= (\underline{18,000} \text{ Hrs}) + (\underline{1700} \text{ Hrs/Yr}) \quad \underline{10.57} \text{ yrs.}$$

4. ECONOMIC ADJUSTMENT FACTOR (EAF)

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

$$= (\underline{3044}) + (\underline{2512}) \quad = \underline{1212} (\text{EAF})$$

5. SALVAGE VALUE FACTOR (S)

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

$$= (\underline{.20}) \times (\underline{1212}) \quad = \underline{.242} (\text{S})$$

6. OWNERSHIP COSTS

a. Depreciation:

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

$$=[(\underline{\$ 263,718}) \times [1.0 - (\underline{.242})] - (\underline{\$ 5,698})] + (\underline{18,000} \text{ Hr}) = \underline{\$ 10.79/\text{Hr.}}$$

b. Cost of Facilities Capital (CFC):

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

$$=[[(\underline{10.57} \text{ yrs}) - 1.0] \times [(\underline{.242}) + 1.0] + 2.0] + [(\underline{10.57} \text{ yrs}) \times 2.0] = \underline{.6568}$$

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

$$=(\underline{\$ 263,718}) \times (\underline{.6568}) \times (\underline{.16}) + (\underline{1,700} \text{ Hrs/Yr}) = \underline{\$ 11.82/\text{Hr.}}$$

c. Total Hourly Ownership: (Sum 6-a + 6-b-(2)) = \$ 22.61/Hr.

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

7. OPERATING COSTS

a. Fuel Costs:

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

$$=(\underline{1.038}) \times (\underline{115} \text{ HP}) \times (\$ \underline{1.07} / \text{Gal}) = \$ \underline{4.68} / \text{Hr.}$$

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

$$=(\underline{.006}) \times (\underline{246} \text{ HP}) \times (\$ \underline{1.19} / \text{Gal}) = \$ \underline{1.76} / \text{Hr.}$$

(3) Total Fuel Costs: (Sum 7-a-(1), 7-a-(2)) = \$ 6.44 / Hr.

b. FOG Costs:

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

$$=(\underline{.26}) \times (\$ \underline{4.68} / \text{Hr}) = \$ \underline{1.22} / \text{Hrs.}$$

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

$$=(\underline{.26}) \times (\$ \underline{1.76} / \text{Hr}) = \$ \underline{.46} / \text{Hr.}$$

(3) Total FOG Costs: (Sum 7-b-(1), 7-b-(2)) = \$ 1.68 / Hr.

c. Repairs Cost:

(1) Repair Factor:

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

$$=(\underline{.60}) \times (\underline{1.212}) \times (\underline{1.08}) = \underline{.785}$$

(2) Hourly Repairs:

Equipment Life
 [(Cost From) - (Tire Cost)] x (Repair Factor) + (From)
 2-c When New From 7-c-(1) 1-b-(3)

$$=[(\$ \underline{263,718}) - (\$ \underline{5,698})] \times (\underline{.785}) + (\underline{18,000} \text{ Hr}) = \$ \underline{11.25} / \text{Hr.}$$

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

d. Tire Wear Costs:

Front F-Tire Max Tire
(1) Front Tires: $1.5 \times (\text{Tires}) \div [1.8 \times (\text{Ftr Frm}) \times (\text{Life Frm})]$
Cost 1-b-(7) Tbl F-1
 $= 1.5 \times (\$ 2,423) \div [1.8 \times (.95) \times (5,000 \text{ Hr})] = \$.43 / \text{Hr.}$

Drive D-Tire Max Tire
(2) Drive Tires: $1.5 \times (\text{Tires}) \div [1.8 \times (\text{Ftr Frm}) \times (\text{Life Frm})]$
Cost 1-b-(7) Tbl F-1
 $= 1.5 \times (\$ 4,845) \div [1.8 \times (.90) \times (5,000 \text{ Hr})] = \$.90 / \text{Hr.}$

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

(4) Total Tire Wear Cost: (Sum 7-d-(1) thru (3)) $= \$ 1.33 / \text{Hr.}$

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

$$= (\$ 1.33) \times 0.15 = \$ 20 / \text{Hr.}$$

f. Total Operating Costs: (Sum 7-a thru 7-e) $= \$ 20.90 / \text{Hr.}$

8. TOTAL HOURLY RATES

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

(Ownership Costs Frm 6-c) + (Operating Costs Frm 7-f)
 $= (\$ 22.61 / \text{Hr}) + (\$ 20.90 / \text{Hr}) = \$ 43.51 / \text{Hr.}$

b. Hourly Rate for Other Work Shifts:

(Depreciation) + [(CFC Frm) $\times 40 \div (\text{Work Hrs})$] + (Operating Costs)
From 6-a 6-b-(2) Per Week Frm 7-f
 $= (\$ 10.79 / \text{Hr}) + [(\$ 11.82 / \text{Hr}) \times 40 \div (60 \text{ Hr/Wk})] + (\$ 20.90 / \text{Hr}) = \$ 39.57 / \text{Hr.}$

c. Hourly Standby Rate:

(Depreciation) $\times 0.25$ + (CFC Frm)
From 6-a 6-b-(2)
 $= (\$ 10.79 / \text{Hr}) \times 0.25 + (\$ 11.82 / \text{Hr}) = \$ 14.52 / \text{Hr.}$

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 and 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 is computed using the straight-line method and the annual rate is determined by dividing the depreciable value by the expected normal life of the equipment in years. When the actual age of a piece of equipment exceeds the normal life, one year shall be added to the actual age and the depreciation shall be recomputed. The depreciable value is the acquisition cost, plus any capital improvements, less estimated salvage. Costs for drydocking and major repairs, which occur periodically, are considered a part of operating costs and will be allocated on an equal annual basis over the years between such occurrences, in accordance with paragraph 15-205.20 of DAR.

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

$$CFC = \frac{[(N-1)(1+S) + 2]}{2N} (11.6\%)$$

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 and 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, but if an hourly or daily basis is used, the monthly cost should be divided by the actual number of hours or days the contractor is working. If actual time cannot be determined the monthly cost should be divided by 720 hours or 30 days. The number of months' use per year is of such a variable nature that it is established for each contract by including this factor in the clauses of the contract.

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

TABLE 2-1 ANNUAL OWNERSHIP EXPENSE FACTORS FOR MARINE EQUIPMENT

| <u>TYPE OF EQUIPMENT</u> | LIFE (YRS) | SALVAGE VALUE FACTOR | PERCENT | | |
|--|---------------|----------------------------|-----------------------------|------|-------|
| | | | ANNUAL DEPRE- CIATION | CFC | TOTAL |
| Hydraulic dredge, including hydraulic dredges used as Boosters: | | | | | |
| 10-inch thru 14-inch | 20 | .05 | 4.75 | 6.37 | 11.12 |
| 16-inch thru 20-inch | 25 | .10 | 3.60 | 6.59 | 10.19 |
| 24-inch and over | 30 | .10 | 3.00 | 6.55 | 9.55 |
| Booster & Barge: | | | | | |
| 10-inch thru 14-inch | 20 | .05 | 4.75 | 6.37 | 11.12 |
| 16-inch thru 20-inch | 25 | .10 | 3.60 | 6.59 | 10.19 |
| 24-inch and over | 30 | .10 | 3.00 | 6.55 | 9.55 |
| Dredge, Hopper | 30 | .10 | 3.00 | 6.55 | 9.55 |
| Dredge, clamshell/ dragline | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Dredge, Dipper/Hyd Excav | 25 | .05 | 3.80 | 6.31 | 10.11 |
| Bucket Dredge | 30 | .10 | 3.00 | 6.55 | 9.55 |
| Dump Scows | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Barges: | | | | | |
| Fuel | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Water | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Equipment or Work | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Derrick | 20 | .10 | 4.50 | 6.64 | 11.14 |
| Anchor | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Drill Boat or Barge | 20 | .10 | 4.50 | 6.64 | 11.14 |
| Mooring Barge | 20 | .05 | 4.75 | 6.37 | 11.12 |
| Tugs | 20 | .10 | 4.50 | 6.64 | 11.14 |
| Tenders | 20 | .10 | 4.50 | 6.64 | 11.14 |
| Launches | 12 | .05 | 7.92 | 6.55 | 14.47 |
| Shore Pipeline (Average) | 3 | 0 | 33.3 | 7.73 | 41.03 |
| Floating Line: | | | | | |
| Pontoons | 15 | 0 | 6.7 | 6.19 | 12.89 |
| Pipeline/Joints (Avg) | 10 | 0 | 10.0 | 6.38 | 16.38 |

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 2710 is the identifying number of this piece of equipment in the input and output computer listings. The number 5530 is the model number of the equipment (American Model 5530 Truck Crane). The crane is rated at 75 tons and is equipped with a 170-foot boom. The crane has a 115-horsepower engine, the carrier has a 238-horsepower engine and both engines are diesel. The cost column reflects the pre-determined "equipment cost," used to compute the rates.

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

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

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

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

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

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

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

h. Rate Adjustment Tables. The rate adjustment tables (TABLES 3-2, 3-3 and 3-4) should be used to adjust the hourly rates in TABLE 3-1 when the actual age of the equipment and working hours are to be considered. These tables may be used whenever information is available to indicate that the contractor's equipment is not the same age as the equipment listed in this pamphlet or when the hours worked have exceeded 40 hours per week. The rate adjustment tables have been developed from the equations used to calculate ownership and standby costs and it has been determined that they provide

reasonable adjustment factors to allow a short-cut method for computing an hourly use rate when actual conditions are considered. When cost or pricing data is available the rate adjustment tables may be used in lieu of a step-by-step rate computation for each item of equipment, provided that the equipment is equivalent in size, capacity, horsepower, etc. to the item listed in the pamphlet.



TABLE 3-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

CATEGORY INDEX

| | <u>Page</u> |
|--|-------------|
| Aggregate Spreaders..... | 3-9 |
| Air Compressors - Portable..... | 3-9 |
| Air Tools - Jackhammers, Backfill Tampers, Sandblast Equip. and Concrete Vibrators..... | 3-10 |
| Asphalt Distributor..... | 3-12 |
| Asphalt Finishers..... | 3-12 |
| Brooms - Towed & Self-Propelled..... | 3-12 |
| Brush Chippers..... | 3-13 |
| Buckets Clamshell..... | 3-13 |
| Concrete..... | 3-15 |
| Dragline..... | 3-16 |
| Compactors - Manually Operated..... | 3-19 |
| Concrete Hauler (See Transit Mixers) | |
| Concrete Buggies..... | 3-19 |
| Concrete Pavers..... | 3-19 |
| Concrete Placers and Pumps..... | 3-20 |
| Cranes, Shovels, Backhoes & Draglines - Crawler Type..... | 3-21 |
| Cranes - Hydraulic Self-Propelled..... | 3-28 |
| Truck Mounted..... | 3-29 |
| Cranes - Truck Mounted..... | 3-30 |
| Dozers (See tractor, Crawler) | |
| Drills Blast Hole (Trac Drills)..... | 3-32 |
| Core-Air-Column Mounted..... | 3-32 |
| Core-Skid Mounted..... | 3-33 |
| Rotary..... | 3-33 |
| Fork Lifts..... | 3-34 |
| Generator Electric Plants - Skid Mounted..... | 3-35 |
| Graders - Motor..... | 3-36 |
| Hoists..... | 3-37 |
| Hydraulic Excavators Crawler Mounted..... | 3-38 |
| Truck Mounted..... | 3-41 |
| 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..... | 3-42 |
| Loaders - Front End Track Type..... | 3-45 |
| Loaders - Front End Wheel Type..... | 3-47 |
| Loader/Backhoe - Industrial Type Tractor..... | 3-50 |
| Loader/Backhoe - Crawler Type Tractor..... | 3-50 |
| Loader/Backhoe Attachments..... | 3-51 |
| Pile Extractors..... | 3-51 |
| Pile Hammers | |
| Diesel..... | 3-51 |
| Air or Steam | |
| Single Acting..... | 3-52 |
| Double Acting..... | 3-52 |
| Vibratory..... | 3-53 |
| Pipelayers..... | 3-53 |
| Pumps - Grout..... | 3-54 |
| Pumps - Water..... | 3-54 |
| Ripper & Hydr. Bank Sloper..... | 3-56 |
| Roller | |
| Rubber Tired, Self-Propelled..... | 3-59 |
| Rubber Tired, Towed..... | 3-59 |
| Sheeps Foot, Double Drum..... | 3-60 |
| Smooth Wheel, Self-Propelled..... | 3-61 |
| Vibratory, Towed..... | 3-62 |
| Vibratory, Self-Propelled..... | 3-62 |
| Sandblast Equipment (See Air Tools) | |
| Scrapers - Self-Propelled..... | 3-63 |
| Scrapers - Tractor Drawn..... | 3-65 |
| Tampers (See Compactors, Manually Operated) | |
| Tractor - Crawlers (Blades, Push Plates & Push Blocks are separate)..... | 3-66 |
| Tractor - Wheel Type Dozers..... | 3-71 |
| Tractor - Farm Type..... | 3-71 |
| Trencher-Chain Type..... | 3-71 |
| Trencher-Wheel Type..... | 3-72 |
| Trucks - Highway (Chassis Only) | 3-72 |

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

CATEGORY INDEX (Continued)

| | <u>Page</u> |
|------------------------------------|-------------|
| Truck Accessories (Add to Chassis) | |
| Dump Bodies (5 - 12 C.Y.)..... | 3-75 |
| Flatbeds..... | 3-76 |
| Hoists..... | 3-76 |
| Crane - Hydraulic..... | 3-77 |
| Trailers | |
| Bottom Dump..... | 3-75 |
| End Dump..... | 3-76 |
| Flatbed..... | 3-78 |
| Lowboy (Flatbed)..... | 3-78 |
| Tilt..... | 3-79 |
| Transit Mixers..... | 3-79 |
| Water Tank..... | 3-79 |
| Trucks - Off-Highway..... | 3-80 |
| Trucks - Water, Tractor Drawn..... | 3-82 |
| Wagons | |
| Bottom Dump..... | 3-82 |
| Rear Dump..... | 3-83 |
| Water Blaster..... | 3-83 |
| Water Tanks..... | 3-84 |
| Welders..... | 3-84 |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | |
|---|---|----------|--------------------|--------|---------------------|---------------|------|--------------|------|-----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | |
| AGGREGATE SPREADER ***** | | | | | | | | | | | | |
| TOWED | | | | | | | | | | | | |
| 1005 | WALES HANDY SPREADER SPREADS TO 2' DEPTH AND UP TO 10' WIDE | 4,891 | 1.17 | | 0.32 | 0.59 | 0.00 | | | 19 | | |
| 1010 | HI-WAY MOD R-1 SPREADS TO 3.5' DEPTH AND UP TO 12' WIDE | 6,362 | 1.50 | | 0.42 | 0.76 | 0.00 | | | 23 | | |
| SELF PROPELLED | | | | | | | | | | | | |
| 1020 | ETNYRE TO 8' DEPTH & 13' WIDE | 187 HP 6 | 32,011 | 23.04 | | 2.08 | 3.85 | 12.68 | | 155 | | |
| 1025 | ETNYRE TO 8' DEPTH & 13' WIDE | 123 HP D | 35,642 | 13.03 | | 2.32 | 4.29 | 3.95 | | 160 | | |
| AIR COMPRESSORS PORTABLE ***** (HOSE NOT INCLUDED) | | | | | | | | | | | | |
| ROTARY SCREW | | | | | | | | | | | | |
| 1040 | SIZE 85 CFM QUIET 100 PSI | 47 HP 6 | 6,863 | 7.04 | | 0.45 | 0.81 | 4.13 | | 17 | | |
| 1045 | SIZE 85 CFM QUIET 100 PSI | 38 HP D | 9,694 | 4.24 | | 0.64 | 1.15 | 1.55 | | 20 | | |
| 1050 | SIZE 100 CFM QUIET 100 PSI | 50 HP 6 | 9,146 | 7.92 | | 0.60 | 1.09 | 4.39 | | 20 | | |
| 1055 | SIZE 100 CFM QUIET 100 PSI | 42 HP D | 10,964 | 4.74 | | 0.72 | 1.30 | 1.71 | | 23 | | |
| 1060 | SIZE 125 CFM QUIET 100 PSI | 56 HP 6 | 10,454 | 8.92 | | 0.69 | 1.24 | 4.92 | | 24 | | |
| 1065 | SIZE 125 CFM QUIET 100 PSI | 47 HP D | 12,254 | 5.31 | | 0.81 | 1.46 | 1.91 | | 26 | | |
| 1070 | SIZE 150 CFM QUIET 100 PSI | 69 HP 6 | 12,952 | 11.01 | | 0.85 | 1.53 | 6.06 | | 26 | | |
| 1075 | SIZE 150 CFM QUIET 100 PSI | 70 HP D | 15,197 | 7.19 | | 1.00 | 1.80 | 2.85 | | 28 | | |
| 1080 | SIZE 185 CFM QUIET 100 PSI | 69 HP 6 | 14,053 | 11.27 | | 0.93 | 1.67 | 6.06 | | 27 | | |
| 1085 | SIZE 185 CFM QUIET 100 PSI | 70 HP D | 16,548 | 7.51 | | 1.09 | 1.97 | 2.85 | | 29 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CNT | | | |
|--|-----------------------------|----------|--------------------|----------|---------------|---------------------|------------|-------|------------|-----|--|--|--|
| | | | CONDITION | STAND-BY | AVERAGE COND. | SEVERE COND. | OWNER-SHIP | FUEL | OWNER-SHIP | | | | |
| AIR COMPRESSORS PORTABLE (CONT'D) | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | |
| (HOSE NOT INCLUDED) | | | | | | | | | | | | | |
| ROTARY SCREW (CONT'D) | | | | | | | | | | | | | |
| 1090 | SIZE 340 CFM QUIET 100 PSI | 103 HP D | 32,153 | 12.85 | | 2.12 | 3.82 | 4.19 | | 55 | | | |
| 1095 | SIZE 450 CFM QUIET 100 PSI | 152 HP D | 42,636 | 17.85 | | 2.81 | 5.07 | 6.18 | | 80 | | | |
| 1100 | SIZE 600 CFM QUIET 100 PSI | 196 HP D | 59,704 | 24.12 | | 3.94 | 7.10 | 7.97 | | 111 | | | |
| 1105 | SIZE 750 CFM QUIET 100 PSI | 228 HP D | 69,297 | 28.01 | | 4.56 | 8.23 | 9.27 | | 120 | | | |
| 1110 | SIZE 825 CFM QUIET 100 PSI | 250 HP D | 74,496 | 30.37 | | 4.91 | 8.85 | 10.16 | | 127 | | | |
| 1115 | SIZE 900 CFM QUIET 100 PSI | 280 HP D | 82,380 | 33.77 | | 5.43 | 9.79 | 11.38 | | 148 | | | |
| 1120 | SIZE 1000 CFM QUIET 100 PSI | 283 HP D | 93,792 | 36.58 | | 6.18 | 11.14 | 11.51 | | 165 | | | |
| 1125 | SIZE 1200 CFM QUIET 100 PSI | 325 HP D | 113,366 | 43.34 | | 7.47 | 13.48 | 13.21 | | 192 | | | |
| 1130 | SIZE 1600 CFM QUIET 100 PSI | 456 HP D | 134,452 | 55.07 | | 8.87 | 15.99 | 18.54 | | 223 | | | |
| AIR TOOLS | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | |
| (HOSE NOT INCLUDED) | | | | | | | | | | | | | |
| GARDNER DENVER | | | | | | | | | | | | | |
| 1140 | TAMPER T23 | 20CFM A | 859 | 0.48 | | 0.09 | 0.21 | 0.00 | | 1 | | | |
| 1145 | SPADER SP27E | 32CFM A | 865 | 0.49 | | 0.09 | 0.22 | 0.00 | | 1 | | | |
| 1150 | SINKER DRILL S48 | 88CFM A | 1,782 | 1.00 | | 0.18 | 0.43 | 0.00 | | 1 | | | |
| 1155 | SINKER DRILL S58 | 98CFM A | 1,894 | 1.06 | | 0.19 | 0.46 | 0.00 | | 1 | | | |
| 1160 | PAVING BREAKER B37 | 41CFM A | 888 | 0.50 | | 0.09 | 0.22 | 0.00 | | 1 | | | |
| 1165 | PAVING BREAKER B67C | 46CFM A | 951 | 0.53 | | 0.10 | 0.23 | 0.00 | | 1 | | | |
| 1170 | PAVING BREAKER B87C | 50CFM A | 1,034 | 0.59 | | 0.11 | 0.26 | 0.00 | | 1 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | | | |
|----------------------------------|---|----------|--------------------|----------|---------------------|--------|--------------|------|-----|--|--|--|--|--|
| | | | CONDITION | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | | |
| | | | | | AVERAGE | SEVERE | OWNER-SHIP | FUEL | | | | | | |
| AIR TOOLS (CONT'D) | | | | | | | | | | | | | | |
| ***** (HOSE NOT INCLUDED) | | | | | | | | | | | | | | |
| GARDNER DENVER (CONT'D) | | | | | | | | | | | | | | |
| 1175 | FEED LEG DRILL FL83-54° TRAVEL RETRACTABLE | 103CFM A | 3,478 | 1.96 | | 0.36 | 0.86 | 0.00 | 1 | | | | | |
| 1180 | FEED LEG DRILL FL53-48° TRAVEL RETRACTABLE | 88CFM A | 2,977 | 1.67 | | 0.30 | 0.73 | 0.00 | 1 | | | | | |
| SANDBLASTERS CLEenco | | | | | | | | | | | | | | |
| 1190 | SCW-1028P SANDBLASTER 1/2" HOSE INCLUDES ACCESSORIES AND 50' HOSE | 85CFM A | 1,228 | 0.75 | | 0.13 | 0.30 | 0.00 | 2 | | | | | |
| 1195 | SCW-1440P SANDBLASTER 3/4" HOSE INCLUDES ACCESSORIES AND 50' HOSE | 85CFM A | 2,189 | 1.29 | | 0.23 | 0.54 | 0.00 | 5 | | | | | |
| 1200 | SCWB-1648P SANDBLASTER 1" HOSE INCLUDES ACCESSORIES AND 50' HOSE | 125CFM A | 2,266 | 1.33 | | 0.23 | 0.55 | 0.00 | 6 | | | | | |
| 1205 | SCWB-2452P SANDBLASTER 1-1/4" HOSE INCLUDES ACCESSORIES AND 50' HOSE | 210CFM A | 2,375 | 1.39 | | 0.24 | 0.58 | 0.00 | 6 | | | | | |
| 1210 | SCH-3079P SANDBLASTER 1-1/4" HOSE INCLUDES ACCESSORIES AND 50' HOSE | 210CFM A | 2,604 | 1.53 | | 0.27 | 0.64 | 0.00 | 9 | | | | | |
| CONCRETE VIBRATORS (DART) | | | | | | | | | | | | | | |
| 1220 | CONCRETE VIBRATOR MOD A-600SH 6" | 120CFM A | 2,169 | 2.25 | | 0.22 | 0.53 | 0.00 | 1 | | | | | |
| 1225 | CONCRETE VIBRATOR MOD A-450SH 4.5" | 98CFM A | 1,851 | 1.92 | | 0.19 | 0.45 | 0.00 | 1 | | | | | |
| 1230 | CONCRETE VIBRATOR MOD A-35012 3.5" | 74CFM A | 1,655 | 1.72 | | 0.17 | 0.41 | 0.00 | 1 | | | | | |
| 1235 | CONCRETE VIBRATOR MOD A-30012 3" | 50CFM A | 1,476 | 1.53 | | 0.15 | 0.36 | 0.00 | 1 | | | | | |
| 1240 | CONCRETE VIBRATOR MOD A-25010 2.5" | 44CFM A | 1,201 | 1.24 | | 0.12 | 0.29 | 0.00 | 1 | | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CNT | |
|--|--|----------|--------------------|----------|---------------------|--------|--------------|------|-----|--|
| | | | CONDITION | STAND BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | | | AVERAGE | SEVERE | OWNER-SHIP | FUEL | | |
| ASPHALT DISTRIBUTOR-ROSCO ***** (NO CHASSIS) | | | | | | | | | | |
| 1250 | MOD RES 1000 GAL. TRUCK MOUNTED 18,000 TO 24,000 GVW REQUIRED | 50 HP G | 18.335 | 9.88 | | 1.22 | 2.10 | 4.39 | 72 | |
| 1255 | MOD RES 1500 GAL. TRUCK MOUNTED 24,000 TO 32,000 GVW REQUIRED | 50 HP G | 19.021 | 10.04 | | 1.26 | 2.18 | 4.39 | 75 | |
| 1260 | MOD RES 2000 GAL. TRUCK MOUNTED 32,000 GVW REQUIRED | 50 HP G | 20.423 | 10.35 | | 1.35 | 2.34 | 4.39 | 87 | |
| 1265 | MOD RES 3000 GAL. TRUCK MOUNTED 42,000 GVW REQUIRED | 50 HP G | 23.096 | 10.99 | | 1.51 | 2.58 | 4.39 | 109 | |
| ASPHALT FINISHERS-BARBER GREENE ***** | | | | | | | | | | |
| 1275 | MOD SB111 8'-12' WIDE (PNEUMATIC) | 70 HP D | 69.953 | 20.51 | | 4.58 | 8.54 | 2.85 | 155 | |
| 1280 | MOD SB131 10'-12' WIDE (P'MATIC) W/VIB SCREED,AUTO. FEEDERS AND GR CONTROL | 95 HP D | 101.585 | 29.71 | | 6.64 | 12.35 | 3.86 | 245 | |
| 1285 | MOD SB140 10'-12' WIDE (P'MATIC) OPTIONS SAME AS MOD SB131 | 130 HP D | 116.223 | 35.42 | | 7.58 | 14.04 | 5.29 | 314 | |
| 1290 | MOD SA150 10'-12' WIDE (CRAWLER) OPTIONS SAME AS MOD SB131 | 130 HP D | 139.968 | 40.08 | | 9.20 | 17.21 | 5.29 | 370 | |
| BROOMS M-B ***** | | | | | | | | | | |
| 1300 | MOD 53T HYD 7 FT. TOWED MECH/DRIVE W/SPRINKLER | | 5.033 | 1.38 | | 0.34 | 0.62 | 0.00 | 24 | |
| 1305 | MOD 53-M 7 FT. TOWED MOTOR/DRIVEN W/SPRINKLER | 25 HP G | 6.440 | 4.28 | | 0.42 | 0.78 | 2.19 | 30 | |
| 1310 | MOD MT 7 FT. TRACTOR/MOUNTED PTO/DRIVE W/SPRINKLER/ | | 2.296 | 0.71 | | 0.15 | 0.28 | 0.00 | 10 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | |
|---|--|--------|--------------------|--------|---------------------|---------------|-------|--------------|------|-----|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | |
| BROOMS M-B (CONT'D) ***** | | | | | | | | | | |
| 1315 | MOD HT 7 FT. TRACTOR/MOUNTED HYD/DRIVE W/SPRINKLER | 3,832 | 1.04 | | 0.25 | 0.47 | 0.00 | | | 14 |
| BRUSH CHIPPERS - FITCHBERG ***** | | | | | | | | | | |
| 1325 | MOD TWC-612 CAP. TO 6" DIA. LOG 151 HP G | 5,162 | 18.75 | | 0.34 | 0.63 | 13.25 | | | 37 |
| 1330 | MOD TWC-915 CAP. TO 9" DIA. LOG 165 HP G | 6,310 | 20.65 | | 0.42 | 0.77 | 14.48 | | | 40 |
| BUCKETS-CLAMSHELL ***** | | | | | | | | | | |
| GENERAL PURPOSE - SQUARE NOSE ESCO MODEL G | | | | | | | | | | |
| 1340 | 1.0 C.Y. | 8,161 | 1.93 | 2.87 | 0.54 | 0.99 | 0.00 | 1.55 | 0.00 | 43 |
| 1345 | 1.5 C.Y. | 12,010 | 2.83 | 4.21 | 0.79 | 1.45 | 0.00 | 2.27 | 0.00 | 65 |
| 1350 | 2.0 C.Y. | 13,578 | 3.20 | 4.76 | 0.89 | 1.64 | 0.00 | 2.57 | 0.00 | 72 |
| 1355 | 2.5 C.Y. | 17,697 | 4.17 | 6.20 | 1.17 | 2.14 | 0.00 | 3.34 | 0.00 | 94 |
| 1360 | 3.0 C.Y. | 18,741 | 4.42 | 6.56 | 1.24 | 2.27 | 0.00 | 3.54 | 0.00 | 99 |
| 1365 | 3.5 C.Y. | 19,225 | 4.53 | 6.73 | 1.26 | 2.32 | 0.00 | 3.63 | 0.00 | 110 |
| 1370 | 4.0 C.Y. | 21,158 | 4.98 | 7.41 | 1.39 | 2.55 | 0.00 | 4.00 | 0.00 | 120 |
| 1375 | 4.5 C.Y. | 22,887 | 5.40 | 8.02 | 1.51 | 2.77 | 0.00 | 4.33 | 0.00 | 132 |
| 1380 | 5.0 C.Y. | 24,807 | 5.85 | 8.69 | 1.64 | 3.00 | 0.00 | 4.69 | 0.00 | 146 |
| 1385 | 5.5 C.Y. | 26,774 | 6.31 | 9.38 | 1.76 | 3.24 | 0.00 | 5.06 | 0.00 | 158 |
| 1390 | 6.0 C.Y. | 27,732 | 6.54 | 9.73 | 1.83 | 3.36 | 0.00 | 5.25 | 0.00 | 166 |
| 1395 | 6.5 C.Y. | 29,978 | 7.06 | 10.50 | 1.97 | 3.62 | 0.00 | 5.66 | 0.00 | 177 |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | CNT | | | | | | |
|---|-----------|--------|--------------------|---------|---------------|---------------------|--------|-----------|------|-----|--|--|--|--|--|
| | | | CONDITION | STANDBY | AVERAGE COND. | SEVERE COND. | | | | | | | | | |
| | | | | | | AVERAGE | SEVERE | OWNERSHIP | | | | | | | |
| BUCKETS-CLAMSHELL (CONT'D) | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | |
| GENERAL PURPOSE - SQUARE NOSE CONT'D | | | | | | | | | | | | | | | |
| ESCO MODEL 6 | | | | | | | | | | | | | | | |
| 1400 | 7.0 C.Y. | 30,885 | 7.28 | 10.81 | 2.04 | 3.74 | 0.00 | 5.83 | 0.00 | 185 | | | | | |
| HEAVY DUTY - SQUARE NOSE | | | | | | | | | | | | | | | |
| ESCO MODEL HD | | | | | | | | | | | | | | | |
| 1410 | 1.0 C.Y. | 9,886 | 2.33 | 3.47 | 0.65 | 1.20 | 0.00 | 1.87 | 0.00 | 49 | | | | | |
| 1415 | 1.5 C.Y. | 14,388 | 3.39 | 5.04 | 0.95 | 1.74 | 0.00 | 2.72 | 0.00 | 74 | | | | | |
| 1420 | 2.0 C.Y. | 15,534 | 3.66 | 5.45 | 1.03 | 1.88 | 0.00 | 2.94 | 0.00 | 82 | | | | | |
| 1425 | 2.5 C.Y. | 19,737 | 4.66 | 6.92 | 1.30 | 2.39 | 0.00 | 3.73 | 0.00 | 104 | | | | | |
| 1430 | 3.0 C.Y. | 21,590 | 5.09 | 7.54 | 1.42 | 2.61 | 0.00 | 4.08 | 0.00 | 115 | | | | | |
| 1435 | 3.5 C.Y. | 23,305 | 5.49 | 8.17 | 1.54 | 2.82 | 0.00 | 4.41 | 0.00 | 126 | | | | | |
| 1440 | 4.0 C.Y. | 25,054 | 5.91 | 8.78 | 1.65 | 3.03 | 0.00 | 4.74 | 0.00 | 137 | | | | | |
| 1445 | 4.5 C.Y. | 26,895 | 6.34 | 9.42 | 1.77 | 3.25 | 0.00 | 5.08 | 0.00 | 147 | | | | | |
| 1450 | 5.0 C.Y. | 29,605 | 6.97 | 10.38 | 1.94 | 3.57 | 0.00 | 5.60 | 0.00 | 163 | | | | | |
| 1455 | 5.5 C.Y. | 31,234 | 7.35 | 10.95 | 2.05 | 3.77 | 0.00 | 5.91 | 0.00 | 172 | | | | | |
| 1460 | 6.0 C.Y. | 33,042 | 7.79 | 11.57 | 2.18 | 4.00 | 0.00 | 6.24 | 0.00 | 182 | | | | | |
| 1465 | 6.5 C.Y. | 34,458 | 8.11 | 12.07 | 2.26 | 4.16 | 0.00 | 6.51 | 0.00 | 193 | | | | | |
| 1470 | 7.0 C.Y. | 35,807 | 8.44 | 12.55 | 2.36 | 4.33 | 0.00 | 6.77 | 0.00 | 193 | | | | | |
| EXTRA HEAVY DUTY - SQUARE NOSE | | | | | | | | | | | | | | | |
| ESCO MODEL X | | | | | | | | | | | | | | | |
| 1480 | 1.0 C.Y. | 11,310 | 2.67 | 3.97 | 0.75 | 1.37 | 0.00 | 2.14 | 0.00 | 58 | | | | | |
| 1485 | 1.5 C.Y. | 16,797 | 3.96 | 5.88 | 1.11 | 2.03 | 0.00 | 3.17 | 0.00 | 85 | | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|---|-----------|--------|--------------------|--------|----------|---------------------|------|--------------|------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| BUCKETS-CLAMSHELL (CONT'D) \$ | | | | | | | | | | | | | | |
| EXTRA HEAVY DUTY - SQUARE NOSE CONT'D ESCO MODEL X | | | | | | | | | | | | | | |
| 1490 | 2.0 C.Y. | 20.317 | 4.78 | 7.12 | 1.33 | 2.45 | 0.00 | 3.84 | 0.00 | 103 | | | | |
| 1495 | 2.5 C.Y. | 22.715 | 5.36 | 7.97 | 1.50 | 2.75 | 0.00 | 4.30 | 0.00 | 121 | | | | |
| 1500 | 3.0 C.Y. | 24.680 | 5.81 | 8.65 | 1.62 | 2.98 | 0.00 | 4.67 | 0.00 | 135 | | | | |
| 1505 | 3.5 C.Y. | 25.989 | 6.12 | 9.11 | 1.71 | 3.14 | 0.00 | 4.92 | 0.00 | 149 | | | | |
| 1510 | 4.0 C.Y. | 27.529 | 6.49 | 9.65 | 1.82 | 3.33 | 0.00 | 5.21 | 0.00 | 158 | | | | |
| 1515 | 4.5 C.Y. | 28.845 | 6.80 | 10.11 | 1.90 | 3.49 | 0.00 | 5.45 | 0.00 | 168 | | | | |
| 1520 | 5.0 C.Y. | 30.938 | 7.29 | 10.84 | 2.04 | 3.74 | 0.00 | 5.85 | 0.00 | 181 | | | | |
| 1525 | 5.5 C.Y. | 32.762 | 7.72 | 11.48 | 2.15 | 3.96 | 0.00 | 6.19 | 0.00 | 193 | | | | |
| 1530 | 6.0 C.Y. | 34.440 | 8.11 | 12.07 | 2.26 | 4.16 | 0.00 | 6.51 | 0.00 | 203 | | | | |
| 1535 | 6.5 C.Y. | 37.314 | 8.79 | 13.07 | 2.46 | 4.51 | 0.00 | 7.05 | 0.00 | 220 | | | | |
| 1540 | 7.0 C.Y. | 38.453 | 9.05 | 13.48 | 2.53 | 4.64 | 0.00 | 7.27 | 0.00 | 230 | | | | |
| BUCKETS-CONCRETE-GAR-BRD \$ | | | | | | | | | | | | | | |
| GENERAL PURPOSE - MANUAL | | | | | | | | | | | | | | |
| 1550 | 1.0 C.Y. | 1.110 | 0.26 | | 0.07 | 0.13 | 0.00 | | | 6 | | | | |
| 1555 | 1.5 C.Y. | 1.390 | 0.33 | | 0.10 | 0.17 | 0.00 | | | 8 | | | | |
| 1560 | 2.0 C.Y. | 1.809 | 0.43 | | 0.12 | 0.22 | 0.00 | | | 11 | | | | |
| 1565 | 3.0 C.Y. | 2.613 | 0.61 | | 0.17 | 0.31 | 0.00 | | | 19 | | | | |
| 1570 | 4.0 C.Y. | 3.295 | 0.78 | | 0.22 | 0.40 | 0.00 | | | 23 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|---|----------------------|--------|--------------------|--------|----------|---------------------|------|--------------|------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| BUCKETS-CONCRETE-GAR-BRO (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| GENERAL PURPOSE - LOW SLUMP - AIR | | | | | | | | | | | | | | |
| 1580 | 1.0 C.Y. | 4,716 | 1.11 | | 0.31 | 0.57 | 0.00 | | | 19 | | | | |
| 1585 | 1.5 C.Y. | 4,950 | 1.16 | | 0.32 | 0.59 | 0.00 | | | 21 | | | | |
| 1590 | 2.0 C.Y. | 5,171 | 1.22 | | 0.35 | 0.63 | 0.00 | | | 23 | | | | |
| 1595 | 3.0 C.Y. | 7,118 | 1.68 | | 0.47 | 0.86 | 0.00 | | | 42 | | | | |
| 1600 | 4.0 C.Y. | 7,458 | 1.76 | | 0.49 | 0.90 | 0.00 | | | 52 | | | | |
| 1605 | 6.0 C.Y. DBL. CONPT. | 10,785 | 2.54 | | 0.71 | 1.30 | 0.00 | | | 72 | | | | |
| 1610 | 8.0 C.Y. DBL. CONPT. | 12,810 | 3.02 | | 0.85 | 1.55 | 0.00 | | | 80 | | | | |
| LAYDOWN - HEAVY DUTY - CLAM GATE TYPE | | | | | | | | | | | | | | |
| 1620 | 1.0 C.Y. | 4,323 | 1.03 | | 0.29 | 0.53 | 0.00 | | | 17 | | | | |
| 1625 | 2.0 C.Y. | 4,801 | 1.13 | | 0.32 | 0.58 | 0.00 | | | 21 | | | | |
| 1630 | 3.0 C. | 5,510 | 1.29 | | 0.36 | 0.66 | 0.00 | | | 27 | | | | |
| 1635 | 4.0 C.Y. | 6,601 | 1.55 | | 0.43 | 0.79 | 0.00 | | | 60 | | | | |
| BUCKETS-DRAGLINE | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| LIGHT WEIGHT - PERFORATED HENDRIX MODEL LS | | | | | | | | | | | | | | |
| 1650 | 1.0 C.Y. | 2,592 | 0.61 | 0.92 | 0.17 | 0.31 | 0.00 | 0.50 | 0.00 | 18 | | | | |
| 1655 | 1.5 C.Y. | 3,193 | 0.75 | 1.12 | 0.21 | 0.38 | 0.00 | 0.60 | 0.00 | 26 | | | | |
| 1660 | 2.0 C.Y. | 3,773 | 0.89 | 1.33 | 0.25 | 0.46 | 0.00 | 0.72 | 0.00 | 32 | | | | |
| 1665 | 2.5 C.Y. | 4,421 | 1.04 | 1.55 | 0.29 | 0.53 | 0.00 | 0.84 | 0.00 | 36 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | |
|---|-----------|--------|--------------------|--------|---------------------|---------------|------|--------------|------|-----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | |
| BUCKETS-DRAGLINE (CONT'D) | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | |
| LIGHT WEIGHT - PERFORATED (CONT'D) | | | | | | | | | | | | |
| HENDRIX MODEL LS | | | | | | | | | | | | |
| 1670 | 3.0 C.Y. | 5,411 | 1.28 | 1.90 | 0.36 | 0.66 | 0.00 | 1.03 | 0.00 | 41 | | |
| 1675 | 3.5 C.Y. | 6,010 | 1.42 | 2.11 | 0.40 | 0.73 | 0.00 | 1.14 | 0.00 | 47 | | |
| 1680 | 4.0 C.Y. | 7,372 | 1.74 | 2.59 | 0.49 | 0.89 | 0.00 | 1.40 | 0.00 | 64 | | |
| 1685 | 4.5 C.Y. | 7,820 | 1.84 | 2.74 | 0.51 | 0.94 | 0.00 | 1.48 | 0.00 | 67 | | |
| 1690 | 5.0 C.Y. | 9,454 | 2.23 | 3.32 | 0.62 | 1.14 | 0.00 | 1.79 | 0.00 | 83 | | |
| 1695 | 6.0 C.Y. | 10,257 | 2.42 | 3.60 | 0.68 | 1.24 | 0.00 | 1.94 | 0.00 | 90 | | |
| 1700 | 7.0 C.Y. | 11,232 | 2.64 | 3.93 | 0.74 | 1.35 | 0.00 | 2.12 | 0.00 | 101 | | |
| 1705 | 8.0 C.Y. | 12,455 | 2.93 | 4.36 | 0.82 | 1.50 | 0.00 | 2.35 | 0.00 | 112 | | |
| 1710 | 10.0 C.Y. | 15,624 | 3.68 | 5.47 | 1.03 | 1.89 | 0.00 | 2.95 | 0.00 | 139 | | |
| 1715 | 12.0 C.Y. | 19,176 | 4.52 | 6.72 | 1.26 | 2.32 | 0.00 | 3.63 | 0.00 | 166 | | |
| 1720 | 14.0 C.Y. | 22,050 | 5.20 | 7.72 | 1.46 | 2.67 | 0.00 | 4.16 | 0.00 | 191 | | |
| MEDIUM WEIGHT - HENDRIX MODEL TS | | | | | | | | | | | | |
| 1730 | 1.0 C.Y. | 3,119 | 0.74 | 1.10 | 0.21 | 0.38 | 0.00 | 0.60 | 0.00 | 19 | | |
| 1735 | 1.5 C.Y. | 3,869 | 0.90 | 1.36 | 0.25 | 0.46 | 0.00 | 0.74 | 0.00 | 28 | | |
| 1740 | 2.0 C.Y. | 4,629 | 1.09 | 1.62 | 0.31 | 0.56 | 0.00 | 0.87 | 0.00 | 36 | | |
| 1745 | 2.5 C.Y. | 5,336 | 1.25 | 1.87 | 0.35 | 0.64 | 0.00 | 1.01 | 0.00 | 41 | | |
| 1750 | 3.0 C.Y. | 6,374 | 1.50 | 2.24 | 0.42 | 0.77 | 0.00 | 1.21 | 0.00 | 49 | | |
| 1755 | 3.5 C.Y. | 7,042 | 1.66 | 2.48 | 0.46 | 0.85 | 0.00 | 1.34 | 0.00 | 54 | | |
| 1760 | 4.0 C.Y. | 8,483 | 1.99 | 2.98 | 0.56 | 1.02 | 0.00 | 1.61 | 0.00 | 70 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CUT | | | | |
|---|-----------|--------|--------------------|--------|----------|---------------------|------|--------------|------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| BUCKETS-DRAGLINE (CONT'D) | | | | | | | | | | | | | | |
| \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ | | | | | | | | | | | | | | |
| MEDIUM WT. - HENDRIX MODEL TS CONT'D | | | | | | | | | | | | | | |
| 1765 | 4.5 C.Y. | 9.060 | 2.14 | 3.17 | 0.60 | 1.10 | 0.00 | 1.71 | 0.00 | 72 | | | | |
| 1770 | 5.0 C.Y. | 11.619 | 2.73 | 4.08 | 0.76 | 1.40 | 0.00 | 2.20 | 0.00 | 93 | | | | |
| 1775 | 6.0 C.Y. | 12.003 | 2.83 | 4.21 | 0.79 | 1.45 | 0.00 | 2.27 | 0.00 | 96 | | | | |
| 1780 | 7.0 C.Y. | 13.710 | 3.23 | 4.81 | 0.90 | 1.66 | 0.00 | 2.60 | 0.00 | 111 | | | | |
| 1785 | 8.0 C.Y. | 15.096 | 3.56 | 5.30 | 1.00 | 1.83 | 0.00 | 2.86 | 0.00 | 122 | | | | |
| 1790 | 10.0 C.Y. | 19.265 | 4.53 | 6.75 | 1.26 | 2.32 | 0.00 | 3.64 | 0.00 | 159 | | | | |
| 1795 | 12.0 C.Y. | 24.548 | 5.78 | 8.60 | 1.61 | 2.96 | 0.00 | 4.64 | 0.00 | 202 | | | | |
| 1800 | 14.0 C.Y. | 27.337 | 6.45 | 9.58 | 1.80 | 3.31 | 0.00 | 5.17 | 0.00 | 225 | | | | |
| HEAVY WEIGHT - HENDRIX MODEL MH-S | | | | | | | | | | | | | | |
| 1810 | 2.75 C.Y. | 10.013 | 2.40 | 3.56 | 0.67 | 1.23 | 0.00 | 1.92 | 0.00 | 69 | | | | |
| 1815 | 3.0 C.Y. | 10.588 | 2.50 | 3.71 | 0.70 | 1.28 | 0.00 | 2.00 | 0.00 | 72 | | | | |
| 1820 | 3.5 C.Y. | 11.858 | 2.79 | 4.16 | 0.78 | 1.43 | 0.00 | 2.25 | 0.00 | 81 | | | | |
| 1825 | 4.0 C.Y. | 15.863 | 3.73 | 5.56 | 1.04 | 1.91 | 0.00 | 3.00 | 0.00 | 110 | | | | |
| 1830 | 4.5 C.Y. | 17.736 | 4.18 | 6.22 | 1.17 | 2.14 | 0.00 | 3.36 | 0.00 | 123 | | | | |
| 1835 | 5.0 C.Y. | 18.314 | 4.31 | 6.42 | 1.21 | 2.21 | 0.00 | 3.46 | 0.00 | 127 | | | | |
| 1840 | 6.0 C.Y. | 19.611 | 4.62 | 6.88 | 1.29 | 2.37 | 0.00 | 3.71 | 0.00 | 136 | | | | |
| 1845 | 7.0 C.Y. | 24.617 | 5.81 | 8.62 | 1.62 | 2.98 | 0.00 | 4.65 | 0.00 | 173 | | | | |
| 1850 | 8.0 C.Y. | 25.545 | 6.02 | 8.94 | 1.68 | 3.09 | 0.00 | 4.82 | 0.00 | 180 | | | | |
| 1855 | 10.0 C.Y. | 33.490 | 7.89 | 11.73 | 2.21 | 4.05 | 0.00 | 6.32 | 0.00 | 242 | | | | |
| 1860 | 12.0 C.Y. | 37.974 | 8.95 | 13.31 | 2.50 | 4.59 | 0.00 | 7.18 | 0.00 | 275 | | | | |

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) \$888888888888888888888888 | | | | | | | | | |
| 1865 | HEAVY WT - HENDRIX MODEL MH-S CONT'D 14.0 C.Y. | 41,285 | 9.73 | 14.46 | 2.72 | 4.99 | 0.00 | 7.80 | 0.00 | 299 |
| | COMPACTORS MANUALLY OPERATED \$888888888888888888888888 | | | | | | | | | |
| 1875 | UR-12 I-R RAMMER | 3 HP 6 | 1,434 | 1.00 | | 0.12 | 0.25 | 0.36 | | 1 |
| 1880 | GVR100 WACKER RAMMER | 3 HP 6 | 1,364 | 0.98 | | 0.11 | 0.24 | 0.36 | | 1 |
| 1885 | GVR220Y WACKER RAMMER | 5 HP 6 | 2,305 | 1.65 | | 0.18 | 0.40 | 0.61 | | 2 |
| 1890 | UPG160B WACKER VIBRO PLATE | 4 HP 6 | 1,061 | 1.01 | | 0.09 | 0.19 | 0.48 | | 2 |
| 1895 | UPG600 WACKER VIBRO PLATE | 9 HP 6 | 3,249 | 2.61 | | 0.26 | 0.57 | 1.09 | | 6 |
| | CONCRETE BUGGIES - REMINGTON \$888888888888888888888888 | | | | | | | | | |
| 1905 | 10 CF WALK-BEHIND | 8 HP 6 | 2,009 | 1.46 | | 0.13 | 0.24 | 0.76 | | 6 |
| | CONCRETE PAVERS \$888888888888888888888888 | | | | | | | | | |
| | CMI | | | | | | | | | |
| 1915 | MOB SUPER 200 16' WIDE SLIPFORM UNIT, 0-25 FT/MIN, CRAWLER MTD. | 165 HP D | 107,550 | 34.18 | | 7.06 | 13.22 | 6.71 | | 296 |
| 1920 | MOB SUBURBAN 24' WIDE SLIPFORM UNIT, 0-60 FT/MIN, CRAWLER MTD. | 250 HP D | 191,873 | 58.68 | | 12.61 | 23.60 | 10.16 | | 720 |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|--|--|----------|--------------------|--------|----------|---------------------|-------|--------------|------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| CONCRETE PAVERS (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| GOMACO | | | | | | | | | | | | | | |
| 1930 | MOD C-650 24' WIDE FORM PAVER W/4' FINISHING CYLINDERS | 50 HP 6 | 18,248 | 10.17 | | 1.19 | 2.22 | 4.39 | | 91 | | | | |
| 1935 | MOD HW-165 16'-6" WIDE SLIPFORM UNIT, AUTO VIBRATORS, CRLR MTD | 100 HP D | 86,287 | 25.74 | | 5.67 | 10.61 | 4.07 | | 240 | | | | |
| CONCRETE PLACERS | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| ALIVA SHOTCRETE EQUIPMENT | | | | | | | | | | | | | | |
| 1945 | MOD 240 PLACE 1 TO 5 CY/HR | 275CFM A | 9,032 | 2.22 | | 0.59 | 1.10 | 0.00 | | 7 | | | | |
| 1950 | MOD 250 PLACE 5.5 TO 10 CY/HR | 450CFM A | 16,561 | 3.96 | | 1.09 | 2.02 | 0.00 | | 13 | | | | |
| 1955 | MOD 260 PLACE 5 TO 22 CY/HR | 675CFM A | 23,693 | 5.60 | | 1.58 | 2.89 | 0.00 | | 19 | | | | |
| CONCRETE PUMPS - CHALLENGE-COOK | | | | | | | | | | | | | | |
| 1965 | MOD 700 1" AGG 70 CY/HR 128 HP D REQUIRES 15,000 GVW TRUCK | 128 HP D | 42,396 | 22.27 | | 3.04 | 6.02 | 7.67 | | 84 | | | | |
| 1970 | MOD TITAN4000 TR'L MT'D 100 CY/HR 240 HP D | 240 HP D | 67,962 | 38.36 | | 4.86 | 9.64 | 14.38 | | 134 | | | | |
| 1975 | HYDRAULIC BOOM 60' VERT 52'RAD REQUIRES 20,000 GVW TRUCK FOR BOOM ONLY OR 43,000 GVW WITH PUMP | | 30,831 | 9.25 | | 2.20 | 4.37 | 0.00 | | 59 | | | | |

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 | | | | | | | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | |
| | CRAWLER TYPE-AMERICAN | | | | | | | | | | |
| | MOD 4120 DRAGLINE 1 CY 93 HP D 13'-8" CRAWLERS W/28" SHOES | | | | | | | | | | |
| 1985 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 129,045 | 27.47 | 39.95 | 7.98 | 14.09 | 2.99 | 21.86 | 3.88 | 609 | |
| | MOD 597-C 1.25 CY T/C 129 HP D 14'-7" CRAWLERS W/32" SHOES | | | | | | | | | | |
| 1990 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 185,583 | 35.62 | 50.97 | 10.75 | 17.78 | 4.14 | 27.81 | 5.38 | 814 | |
| 1995 | CRANE 35-T W/70' BOOM | 184,962 | 31.31 | 44.87 | 10.72 | 17.72 | 3.31 | 27.72 | 4.28 | 803 | |
| | MOD 599-C LIFTING CRANE T/C 129 HP D 16'-0" CRAWLERS W/32" SHOES | | | | | | | | | | |
| 2005 | CRANE 40-T W/80' BOOM | 185,131 | 31.34 | 44.90 | 10.73 | 17.74 | 3.31 | 27.74 | 4.28 | 962 | |
| | MOD 5299 LIFTING CRANE T/C 129 HP D 17'-6" CRAWLERS W/32" SHOES | | | | | | | | | | |
| 2015 | CRANE 50-T W/80' BOOM | 212,413 | 35.39 | 50.78 | 12.31 | 20.36 | 3.31 | 31.83 | 4.28 | 1088 | |
| | MOD 797-C 2 CY T/C 205 HP D 17'-6" CRAWLERS W/33" SHOES | | | | | | | | | | |
| 2025 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 248,525 | 48.92 | 69.84 | 14.40 | 23.81 | 6.58 | 37.23 | 8.55 | 1278 | |
| 2030 | CRANE 40-T W/80' BOOM | 244,834 | 42.49 | 60.73 | 14.18 | 23.46 | 5.26 | 36.69 | 6.80 | 1262 | |
| | MOD 7250 STEEL ERECTOR T/C 205 HP D 17'-6" CRAWLERS W/33" SHOES | | | | | | | | | | |
| 2040 | CRANE 60-T W/80' BOOM | 264,949 | 42.72 | 60.74 | 14.67 | 23.03 | 5.26 | 36.47 | 6.80 | 1421 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|--|---------|--------------------|--------|----------|---------------------|------|--------------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D \$ | | | | | | | | | | |
| | CRAMLER TYPE-AMERICAN (CONT'D) | | | | | | | | | | |
| | MOD 7260 LIFTING CRANE T/C 205 HP D 19'-6" CRAWLERS W/38" SHOES | | | | | | | | | | |
| 2050 | CRANE 100T W/200' BOOM | 341,181 | 53.22 | 73.91 | 18.88 | 29.65 | 5.26 | 46.96 | 6.80 | 1886 | |
| | MOD 999-C STEEL ERECTOR T/C 289 HP D 23'-9" CRAWLERS W/44" SHOES | | | | | | | | | | |
| 2060 | CRANE 110-T W/200' BOOM | 447,064 | 70.37 | 100.28 | 24.75 | 38.86 | 7.42 | 61.53 | 9.59 | 2792 | |
| | MOD 9260 4.5 CY T/C 289 HP D 23'-9" CRAWLERS W/38" SHOES | | | | | | | | | | |
| 2070 | CRANE 125T W/270' BOOM | 473,662 | 74.04 | 105.57 | 26.22 | 41.17 | 7.42 | 65.19 | 9.59 | 3025 | |
| 2075 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 452,534 | 79.90 | 113.53 | 25.05 | 39.34 | 9.28 | 62.28 | 12.06 | 2619 | |
| | MOD 9270 LIFT CR TAPERED TIP T/C 289 HP D 23'-9" CRAWLERS W/44" SHOES | | | | | | | | | | |
| 2085 | CRANE 150T W/280' BOOM | 519,407 | 80.34 | 114.67 | 28.75 | 45.14 | 7.42 | 71.49 | 9.59 | 3400 | |
| | MOD 9299 LIFTING CRANE T/C 289 HP D 24'-11" CRAWLERS W/50" SHOES | | | | | | | | | | |
| 2095 | CRANE 165T W/290' BOOM | 546,631 | 82.46 | 117.12 | 29.55 | 45.08 | 7.42 | 72.02 | 9.59 | 3580 | |
| | MOD 9310 LIFTING CRANE T/C 289 HP D 28'-2" CRAWLERS W/50" SHOES | | | | | | | | | | |
| 2105 | CRANE 225T W/320' BOOM | 639,498 | 94.98 | 135.10 | 34.57 | 52.74 | 7.42 | 84.26 | 9.59 | 3990 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CMT | |
|----------|--|---------|--------------------|--------|----------|---------------------|------|--------------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D \$ | | | | | | | | | | |
| | CRAWLER TYPE-BUCYRUS ERIE | | | | | | | | | | |
| | MOD 25-B SER-3 HVY DUTY 1 CY 115 HP D 13'-11" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2120 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 148.448 | 31.89 | 46.34 | 9.18 | 16.21 | 3.69 | 25.14 | 4.80 | 671 | |
| 2125 | CRANE 28-T W/50' BOOM | 147.077 | 25.27 | 36.16 | 8.52 | 14.09 | 2.95 | 22.04 | 3.81 | 674 | |
| | MOD 30-B SER 4 HVY DUTY 1.5 CY 144 HP D 14'-9" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2135 | BACKHOE | 210.863 | 47.41 | 67.55 | 12.72 | 21.94 | 5.39 | 34.09 | 7.09 | 787 | |
| 2140 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 202.445 | 38.98 | 55.77 | 11.73 | 19.40 | 4.62 | 30.34 | 6.01 | 833 | |
| 2145 | CRANE 35-T W/60' BOOM | 199.539 | 33.94 | 48.60 | 11.56 | 19.12 | 3.70 | 29.90 | 4.78 | 831 | |
| | MOD 38-B SER 2 HVY DUTY 2 CY T/C 178 HP D 17'-5" CRAWLERS W/36" SHOES | | | | | | | | | | |
| 2155 | SHOVEL | 296.456 | 65.58 | 93.53 | 17.89 | 30.85 | 6.67 | 47.92 | 8.76 | 1298 | |
| 2160 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 279.722 | 53.07 | 76.02 | 16.21 | 26.81 | 5.71 | 41.91 | 7.43 | 1226 | |
| | MOD 61-B SER 2 3.25 CY T/C 205 HP D 15'-11" CRAWLERS W/33" SHOES | | | | | | | | | | |
| 2170 | SHOVEL | 420.160 | 82.29 | 116.11 | 23.94 | 38.86 | 7.68 | 61.00 | 10.09 | 1691 | |
| 2175 | BACKHOE | 402.997 | 79.29 | 111.86 | 22.96 | 37.27 | 7.68 | 58.51 | 10.09 | 1751 | |
| 2180 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 382.121 | 65.97 | 93.94 | 21.15 | 33.21 | 6.58 | 52.59 | 8.55 | 1523 | |
| 2185 | CRANE 51-T W/70' BOOM | 374.079 | 57.77 | 82.45 | 20.71 | 32.52 | 5.26 | 51.48 | 6.80 | 1536 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CMT | |
|----------|---|---------|--------------------|--------|---------------------|---------------|-------|--------------|-------|------|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | |
| | CRAWLER TYPE-BUCYRUS ERIE (CONT'D) | | | | | | | | | |
| | MOD 61-B SER-2 110-T 4 CY T/C 243 HP D 20'-6" CRAWLERS W/42" SHOES | | | | | | | | | |
| 2195 | CRANE 110T W/160' BOOM | 478,406 | 71.85 | 102.12 | 25.86 | 39.45 | 6.24 | 63.04 | 8.06 | 2182 |
| 2200 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 450,429 | 77.82 | 110.80 | 24.93 | 39.15 | 7.80 | 61.99 | 10.14 | 2010 |
| | MOD 71-B SER 3 4.25 CY T/C 246 HP D 16'-10" CRAWLERS W/36" SHOES | | | | | | | | | |
| 2210 | SHOVEL | 478,369 | 94.24 | 132.93 | 27.25 | 44.24 | 9.21 | 69.45 | 12.11 | 2196 |
| 2215 | BACKHOE | 453,410 | 89.89 | 126.74 | 25.83 | 41.93 | 9.21 | 65.83 | 12.11 | 2100 |
| 2220 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 428,618 | 74.62 | 106.17 | 23.72 | 37.25 | 7.90 | 58.99 | 10.27 | 1736 |
| | MOD 88-B SER 4 5.5 CY T/C 345 HP D 17'-10" CRAWLERS W/36" SHOES | | | | | | | | | |
| 2230 | SHOVEL | 670,511 | 128.04 | 179.29 | 37.12 | 58.28 | 13.67 | 92.28 | 17.97 | 2822 |
| 2235 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 568,434 | 97.90 | 138.33 | 30.72 | 46.87 | 11.72 | 74.90 | 15.23 | 2274 |
| | CRAWLER TYPE-LINK BELT (FMC) | | | | | | | | | |
| | MOD LS-98A LIFTING CRANE T/C 118 HP D 15'-1" CRAWLERS W/24" SHOES | | | | | | | | | |
| 2250 | CRANE 40-T W/50' BOOM | 153,047 | 26.26 | 37.55 | 8.87 | 14.67 | 3.03 | 22.93 | 3.91 | 772 |
| | MOD LS-118 LIFTING CRANE T/C 165 HP D 17'-0" CRAWLERS W/30" SHOES | | | | | | | | | |
| 2260 | CRANE 60-T W/80' BOOM | 220,400 | 37.66 | 53.90 | 12.77 | 21.12 | 4.24 | 33.02 | 5.47 | 1232 |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | CMT | | |
|---|-------------------------------------|---------|--------------------|--------|----------|---------------------|-------|--------------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D | | | | | | | | | | | |
| ***** | | | | | | | | | | | |
| CRAWLER TYPE-LINK BELT (CONT'D) | | | | | | | | | | | |
| MOD LS-338 LIFTING CRANE T/C 208 HP D 20'-0" CRAWLERS W/38" SHOES | | | | | | | | | | | |
| 2270 | CRANE 100-T W/200' BOOM | 351,991 | 53.75 | 76.27 | 19.02 | 29.02 | 5.34 | 46.38 | 6.90 | 1912 | |
| MOD LS-518 LIFTING CRANE T/C 230 HP D 24'-4" CRAWLERS W/44" SHOES | | | | | | | | | | | |
| 2280 | CRANE 150-T W/250' BOOM | 513,795 | 76.24 | 108.45 | 27.78 | 42.37 | 5.91 | 67.70 | 7.63 | 2912 | |
| CRAWLER TYPE-MANITOWOC | | | | | | | | | | | |
| MOD 3900 VICON 3.5 CY T/C 334 HP D 20'-4" CRAWLERS W/38" SHOES | | | | | | | | | | | |
| 2295 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 357,267 | 67.09 | 94.84 | 19.78 | 31.06 | 10.72 | 49.17 | 13.94 | 2306 | |
| 2300 | CRANE 100T W/240' BOOM | 366,251 | 60.60 | 85.94 | 20.28 | 31.84 | 8.58 | 50.40 | 11.08 | 2354 | |
| MOD 3900W VICON SER2 4 CY T/C 334 HP D 24'-0" CRAWLERS W/48" SHOES | | | | | | | | | | | |
| 2310 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 429,065 | 78.02 | 110.60 | 23.75 | 37.29 | 10.72 | 59.05 | 13.94 | 2763 | |
| 2315 | CRANE 140T W/250' BOOM | 437,051 | 70.35 | 100.04 | 24.19 | 37.99 | 8.58 | 60.16 | 11.08 | 2815 | |
| MOD 4100W VICON SER2 5 CY T/C 345 HP D 26'-6" CRAWLERS W/48" SHOES | | | | | | | | | | | |
| 2325 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 608,299 | 105.73 | 150.46 | 33.67 | 52.87 | 11.07 | 83.71 | 14.40 | 3788 | |
| 2330 | CRANE 200T W/260' BOOM | 619,192 | 93.93 | 133.35 | 33.48 | 51.07 | 8.86 | 81.58 | 11.44 | 3929 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|---|---------|--------------------|--------|----------|---------------------|-------|------------|-------|------|--|
| | | | CONDITION | | STAND-BY | ADJUSTABLE ELEMENTS | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | |
| | CRAWLER TYPE-MANITOWOC (CONT'D) | | | | | | | | | | |
| | MOD 4600 VICON SERIES 3 7CY T/C 685 HP D 26'-1" CRAWLERS W/60" SHOES | | | | | | | | | | |
| 2340 | CRANE 240T W/260' BOOM | 887.195 | 140.36 | 198.53 | 47.95 | 73.16 | 17.59 | 116.89 | 22.72 | 5095 | |
| 2345 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 916.904 | 161.56 | 227.87 | 49.56 | 75.61 | 21.99 | 120.80 | 28.59 | 5083 | |
| | CRAWLER TYPE-NORTHWEST | | | | | | | | | | |
| | MOD 28-D 3/4 CY 148 HP D 11'-11" CRAWLERS W/28" SHOES | | | | | | | | | | |
| 2360 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 116.314 | 27.19 | 39.17 | 7.20 | 12.70 | 4.75 | 19.70 | 6.18 | 484 | |
| 2365 | CRANE 15-T W/30' BOOM | 114.698 | 22.18 | 31.84 | 6.92 | 11.93 | 3.80 | 18.54 | 4.91 | 474 | |
| | MOD-41 1 CY 148 HP D 15'-0" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2375 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 152.469 | 33.90 | 49.07 | 9.43 | 16.65 | 4.75 | 25.82 | 6.18 | 737 | |
| 2380 | CRANE 20-T W/40' BOOM | 150.107 | 27.66 | 39.88 | 9.06 | 15.62 | 3.80 | 24.27 | 4.91 | 720 | |
| | MOD 6 1.5 CY T/C 238 HP D 14'-8" CRAWLERS W/33" SHOES | | | | | | | | | | |
| 2390 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 202.902 | 42.62 | 60.51 | 11.75 | 19.44 | 7.64 | 30.41 | 9.93 | 1001 | |
| 2395 | CRANE 30-T W/45' BOOM | 203.903 | 37.42 | 53.20 | 11.82 | 19.54 | 6.11 | 30.55 | 7.89 | 1001 | |
| | MOD 80-D 2.5 CY T/C 238 HP D 15'-10" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2405 | SHOVEL | 308.335 | 70.53 | 100.35 | 18.60 | 32.08 | 8.91 | 49.85 | 11.71 | 1550 | |
| 2410 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 270.471 | 53.82 | 76.75 | 15.68 | 25.92 | 7.64 | 40.52 | 9.93 | 1380 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CNT | |
|----------|---|---------|--------------------|--------|----------|---------------------|-------|--------------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D ***** | | | | | | | | | | |
| | CRAWLER TYPE-NORTHWEST (CONT'D) | | | | | | | | | | |
| | MOD 80-D 2.5 CY T/C 238 HP D 15'-10" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2415 | CRANE 40-T W/50' BOOM | 267.227 | 46.81 | 66.84 | 15.49 | 25.61 | 6.11 | 40.04 | 7.89 | 1320 | |
| | MOD 95-WT 4.0 CY T/C 263 HP D 19'-0" CRAWLERS W/38" SHOES | | | | | | | | | | |
| 2425 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 344.052 | 62.37 | 88.44 | 19.04 | 29.90 | 8.44 | 47.35 | 10.97 | 1580 | |
| 2430 | CRANE 60-T W/50' BOOM | 340.965 | 54.95 | 78.14 | 18.87 | 29.63 | 6.75 | 46.93 | 8.72 | 1565 | |
| | MOD 180-D SERIES 2 5 CY T/C 357 HP D 18'-1" CRAWLERS W/36" SHOES | | | | | | | | | | |
| 2440 | SHOVEL | 558.015 | 113.02 | 159.12 | 31.79 | 51.60 | 13.37 | 81.01 | 17.57 | 2571 | |
| 2445 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 513.970 | 91.82 | 130.36 | 28.45 | 44.67 | 11.46 | 70.74 | 14.90 | 2365 | |
| 2450 | CRANE 98-T W/170' BOOM | 535.759 | 84.66 | 120.58 | 29.66 | 46.57 | 9.17 | 73.74 | 11.84 | 2464 | |
| | MOD 190-D SERIES 2 6.5 CY T/C 357 HP D 21'-1" CRAWLERS W/54" SHOES | | | | | | | | | | |
| 2460 | SHOVEL | 646.355 | 123.65 | 173.13 | 35.77 | 56.18 | 13.37 | 88.96 | 17.57 | 2825 | |
| 2465 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 552.234 | 95.20 | 134.51 | 29.85 | 45.54 | 11.46 | 72.76 | 14.90 | 2555 | |
| 2470 | CRANE 100-T W/170' BOOM | 577.918 | 90.47 | 128.96 | 31.99 | 50.24 | 9.17 | 79.54 | 11.84 | 2865 | |

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 | FUEL | | |
| | | | AVERAGE | SEVERE | | | | | | | |
| | CRANE-SHOVEL-BACKHOE-DRAGLINE CONT'D \$ | | | | | | | | | | |
| | CRANER TYPE-P & H | | | | | | | | | | |
| | MOD 535 1.25 CY T/C 158 HP D 15'-8" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2485 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 199,152 | 38.96 | 55.66 | 11.54 | 19.08 | 5.07 | 29.84 | 6.59 | 870 | |
| 2490 | CRANE 35-T W/50' BOOM | 192,913 | 33.37 | 47.70 | 11.18 | 18.48 | 4.06 | 28.90 | 5.24 | 870 | |
| | MOD 550 1.75 CY T/C 158 HP D 18'-0" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2500 | DRAGLINE (LESS BUCKET) | 221,173 | 42.61 | 60.96 | 12.81 | 21.19 | 5.07 | 33.14 | 6.59 | 1002 | |
| 2505 | CRANE 50-T W/80' BOOM | 215,629 | 36.74 | 52.60 | 12.49 | 20.66 | 4.06 | 32.31 | 5.24 | 1002 | |
| | MOD 670WLC 2 CY T/C 198 HP D 18'-6" CRAWLERS W/30" SHOES | | | | | | | | | | |
| 2515 | DRAGLINE OR CLAMSHELL (LESS BUCKET) | 259,949 | 50.55 | 72.25 | 15.06 | 24.91 | 6.36 | 38.95 | 8.26 | 1344 | |
| 2520 | CRANE 70-T W/150' BOOM | 265,829 | 42.64 | 60.65 | 14.72 | 23.11 | 5.08 | 36.59 | 6.57 | 1466 | |
| | CRANES-HYDRAULIC-SELF PROPELLED \$ | | | | | | | | | | |
| | GROVE | | | | | | | | | | |
| 2535 | MOD RT48 8 TON 123 HP G | 77,693 | 25.91 | | 4.48 | 6.96 | 10.80 | | | 326 | |
| 2540 | MOD RT49 10 TON 123 HP G | 78,960 | 26.11 | | 4.55 | 7.08 | 10.80 | | | 336 | |
| 2545 | MOD RT515 15 TON 115 HP D | 94,693 | 20.33 | | 5.45 | 8.44 | 4.68 | | | 415 | |
| 2550 | MOD RT518 18 TON 115 HP D | 94,743 | 20.67 | | 5.41 | 8.29 | 4.68 | | | 450 | |
| 2555 | MOD RT522 22 TON 115 HP D | 108,828 | 22.75 | | 6.23 | 9.57 | 4.68 | | | 495 | |
| 2560 | MOD RT625 25 TON 156 HP D | 135,987 | 29.14 | | 7.78 | 11.94 | 6.34 | | | 545 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CNT | | | | |
|---|-----------|--------------------|--------------------|---------|---------------------|---------------|-------|--------------|------|-------|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | |
| CRANES-HYD.-SELF PROPELLED CONT'D) | | | | | | | | | | | | | |
| GROVE (CONT'D) | | | | | | | | | | | | | |
| 2565 | MOD RT65S | 35 TON 173 HP D | 188,799 | 38.10 | | 10.80 | 16.60 | 7.03 | | 673 | | | |
| Hyster | | | | | | | | | | | | | |
| 2575 | MOD K300B | 15 TON 127 HP D | 102,995 | 22.18 | | 5.93 | 9.18 | 5.16 | | 438 | | | |
| 2580 | MOD K360B | 18 TON 127 HP D | 104,915 | 22.46 | | 6.04 | 9.35 | 5.16 | | 440 | | | |
| 2585 | MOD K400B | 20 TON 127 HP D | 112,895 | 23.64 | | 6.49 | 10.07 | 5.16 | | 466 | | | |
| PETTIBONE | | | | | | | | | | | | | |
| 2595 | MOD 25 | 12.5 TON 120 HP D | 92,088 | 20.24 | | 5.29 | 8.18 | 4.88 | | 440 | | | |
| 2600 | MOD 36 | 18 TON 120 HP D | 107,330 | 22.62 | | 6.16 | 9.51 | 4.88 | | 460 | | | |
| 2605 | MOD 70 | 35 TON 188 HP D | 162,796 | 34.96 | | 9.31 | 14.29 | 7.64 | | 770 | | | |
| 2610 | MOD 100SC | 50 TON 188 HP D | 232,112 | 45.20 | | 13.32 | 20.56 | 7.64 | | 1050 | | | |
| CRANES-HYDRAULIC-TRUCK MOUNTED | | | | | | | | | | | | | |
| (HP & FUEL LISTED EQUIP/CARRIER) | | | | | | | | | | | | | |
| BUCYRUS ERIE | | | | | | | | | | | | | |
| 2620 | 30-XC | 30 TON W/80' BOOM | 130/210 HP D/D | 186,821 | 33.43 | 47.03 | 10.30 | 16.07 | 6.79 | 25.53 | | | |
| 2625 | 60-XC | 60-TON W/136' BOOM | 197/238 HP D/D | 290,735 | 50.78 | 71.70 | 16.04 | 25.07 | 9.71 | 39.79 | | | |
| GROVE | | | | | | | | | | | | | |
| 2635 | TMS185 | 18 TON W/106' BOOM | 172 HP D | 149,534 | 30.03 | 42.49 | 8.63 | 14.17 | 6.99 | 22.22 | | | |
| 2640 | TMS300 | 35 TON W/136' BOOM | 203 HP D | 164,706 | 32.54 | 45.62 | 9.06 | 14.10 | 8.25 | 22.43 | | | |
| | | | | | | | | | | 705 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CUT | |
|----------|---|---------|--------------------|--------|----------|---------------------|-------|--------------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | CRANES-HYDRAULIC-TRUCK MOUNTED CONT'D \$ (HP & FUEL LISTED EQUIP/CARRIER) | | | | | | | | | | |
| | GROVE (CONT'D) | | | | | | | | | | |
| 2645 | TMS475 50 TON W/142' BOOM 203 HP D | 199,735 | 37.08 | 52.25 | 11.00 | 17.15 | 8.25 | 27.26 | 10.64 | 773 | |
| 2650 | TM875 80 TON W/146' BOOM 212/302 HP D/B | 301,976 | 53.74 | 75.17 | 16.22 | 24.48 | 10.78 | 39.32 | 13.63 | 1175 | |
| | LINK BELT (FMC) | | | | | | | | | | |
| 2660 | HTC-25 25-T W/95' BOOM 216 HP D | 147,463 | 30.81 | 43.00 | 8.12 | 12.66 | 8.78 | 20.12 | 11.32 | 462 | |
| 2665 | HTC-35 35-T W/108' BOOM 216 HP D | 173,694 | 34.31 | 48.08 | 9.57 | 14.91 | 8.78 | 23.69 | 11.32 | 628 | |
| 2670 | HTC-50 50-T W/122' BOOM 244 HP D | 211,769 | 40.70 | 57.19 | 11.67 | 18.22 | 9.92 | 28.94 | 12.79 | 727 | |
| | PETTIBONE | | | | | | | | | | |
| 2680 | 50TKLSPC 25 TON W/95' BOOM 210 HP D | 146,096 | 31.77 | 44.62 | 8.40 | 13.72 | 8.54 | 21.58 | 11.01 | 520 | |
| 2685 | 60TKLSPC 30 TON W/101' BOOM 202 HP D | 172,498 | 33.60 | 47.13 | 9.49 | 14.75 | 8.21 | 23.48 | 10.59 | 673 | |
| 2690 | 100TKLSPC50 TON W/111' BOOM 244 HP D | 215,417 | 41.38 | 58.11 | 11.87 | 18.48 | 9.92 | 29.37 | 12.79 | 820 | |
| 2695 | 160TKLSPC80 TON W/153' BOOM 365 HP D | 318,382 | 61.04 | 85.25 | 17.10 | 25.81 | 14.84 | 41.46 | 19.14 | 1395 | |
| | CRANES-TRUCK MOUNTED \$ (HP & FUEL LISTED EQUIP/CARRIER) | | | | | | | | | | |
| | AMERICAN | | | | | | | | | | |
| 2705 | 5530 75-T W/170' BOOM 115/238 HP D/D | 280,147 | 44.95 | 63.48 | 15.07 | 22.82 | 6.38 | 36.60 | 8.01 | 1245 | |
| 2710 | 7530 125T W/200' BOOM 203/350 HP D/D | 390,687 | 64.85 | 91.32 | 21.03 | 31.87 | 10.75 | 51.09 | 13.56 | 1696 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|---|--------------|----------------------------|--------------------|--------|----------|---------------------|-------|--------------|--------|-------|------|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| CRANES-TRUCK MOUNTED (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| (HP & FUEL LISTED EQUIP/CARRIER) | | | | | | | | | | | | | | |
| LINK BELT (FMC) | | | | | | | | | | | | | | |
| 2720 | HC108C 50-T | W/150' BOOM 117/238 HP D/D | 268.892 | 44.19 | 62.70 | 14.80 | 23.05 | 6.46 | 36.66 | 8.12 | 1197 | | | |
| 2725 | HC218A 100-T | W/220' BOOM 165/318 HP D/D | 368.674 | 59.20 | 82.97 | 19.46 | 28.76 | 8.98 | 46.52 | 11.30 | 1566 | | | |
| 2730 | HC238A 140-T | W/230' BOOM 171/318 HP D/D | 443.378 | 69.06 | 97.11 | 23.42 | 34.63 | 9.22 | 55.98 | 11.61 | 2068 | | | |
| LORAIN | | | | | | | | | | | | | | |
| 2740 | MC550A 50-T | W/160' BOOM 115/246 HP D/D | 263.718 | 43.48 | 61.66 | 14.52 | 22.60 | 6.43 | 35.94 | 8.08 | 1111 | | | |
| 2745 | MC670A 70-T | W/170' BOOM 150/270 HP D/D | 315.152 | 51.51 | 72.64 | 16.96 | 25.70 | 8.03 | 41.21 | 10.11 | 1243 | | | |
| 2750 | MC680 80-T | W/190' BOOM 167/270 HP D/D | 322.019 | 53.27 | 75.05 | 17.34 | 26.27 | 8.72 | 42.12 | 11.00 | 1373 | | | |
| 2755 | MC790 90-T | W/220' BOOM 210/270 HP D/D | 387.017 | 64.03 | 90.26 | 20.83 | 31.56 | 10.47 | 50.60 | 13.26 | 1594 | | | |
| 2760 | MCB150 150T | W/250' BOOM 246/365 HP D/D | 532.318 | 85.34 | 119.65 | 28.09 | 41.45 | 12.61 | 67.08 | 15.94 | 2625 | | | |
| P & H | | | | | | | | | | | | | | |
| 2770 | 325TC 25-T | W/110' BOOM 79/190 HP D/D | 164.054 | 29.23 | 41.60 | 9.44 | 15.46 | 4.57 | 24.29 | 5.72 | 645 | | | |
| 2775 | 430ATC 35-T | W/150' BOOM 95/210 HP D/D | 184.311 | 31.56 | 44.54 | 10.14 | 15.77 | 5.36 | 25.09 | 6.73 | 763 | | | |
| 2780 | 440TC 40-T | W/170' BOOM 95/236 HP D/D | 196.921 | 33.56 | 47.37 | 10.83 | 16.84 | 5.55 | 26.79 | 6.95 | 964 | | | |
| 2785 | 650ATC 50-T | W/150' BOOM 135/236 HP D/D | 274.125 | 45.78 | 64.85 | 15.10 | 23.51 | 7.17 | 37.37 | 9.04 | 1178 | | | |
| 2790 | 670TC 70-T | W/180' BOOM 135/255 HP D/D | 293.621 | 47.85 | 67.48 | 15.80 | 23.93 | 7.31 | 38.37 | 9.20 | 1340 | | | |
| 2795 | 790TC 90-T | W/200' BOOM 160/350 HP D/D | 341.209 | 56.30 | 79.26 | 18.35 | 27.78 | 9.00 | 44.57 | 11.30 | 1736 | | | |
| 2800 | 9125TC 140T | W/270' BOOM 210/350 HP D/D | 468.305 | 74.50 | 104.59 | 24.74 | 36.60 | 11.04 | 59.15 | 13.93 | 2529 | | | |
| 2805 | 6250TC 250T | W/320' BOOM 363/450 HP D/D | 928.921 | 142.14 | 200.62 | 49.11 | 72.74 | 17.97 | 117.49 | 22.78 | 4552 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|---|--------|--------------------|--------|----------|---------------------|------|------------|------|-----|--|
| | | | CONDITION | | STAND-BY | ADJUSTABLE ELEMENTS | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | DRILLS-BLAST HOLE-CRAWLER MTD ***** | | | | | | | | | | |
| | GARDNER DENVER | | | | | | | | | | |
| 2815 | AT3100B/PR123J 3.5" HOLE 12' FEED 600CFM A | 62.474 | 15.43 | | 4.11 | 7.62 | 0.00 | | | 91 | |
| 2820 | AT3100B/PR55 4" HOLE 12' FEED 750CFM A | 57.309 | 14.17 | | 3.77 | 6.99 | 0.00 | | | 93 | |
| 2825 | AT3100B/PR66 4.5" HOLE 12' FEED 900CFM A | 65.244 | 16.10 | | 4.29 | 7.96 | 0.00 | | | 95 | |
| 2830 | AT3700A/PR123J ANGLE DRILL 600CFM A 3.5" HOLE 12' FEED | 74.289 | 18.35 | | 4.88 | 9.06 | 0.00 | | | 137 | |
| 2835 | AT3700A/PR66 ANGLE DRILL 900CFM A 4.5" HOLE 12' FEED | 77.079 | 19.03 | | 5.07 | 9.40 | 0.00 | | | 143 | |
| | INGERSOLL-RAND | | | | | | | | | | |
| 2845 | CM350/VL140 5.5" HOLE 12' FEED 750CFM A | 59.654 | 14.73 | | 3.92 | 7.27 | 0.00 | | | 120 | |
| 2850 | ECM350/VL140 5.5" HOLE 12' FEED 750CFM A | 66.175 | 16.33 | | 4.35 | 8.07 | 0.00 | | | 129 | |
| 2855 | CM350/URD550 5.5" HOLE 12' FEED 900CFM A | 65.328 | 16.12 | | 4.30 | 7.97 | 0.00 | | | 121 | |
| 2860 | ECM350/URD550 5.5" HOLE 12' FEED 900CFM A | 71.852 | 17.72 | | 4.73 | 8.77 | 0.00 | | | 130 | |
| | JOY | | | | | | | | | | |
| 2870 | RAM VCR260 4.5" HOLE 12' FEED 750CFM A | 55.197 | 13.65 | | 3.63 | 6.73 | 0.00 | | | 126 | |
| 2875 | MUSTANG VCR280 5" HOLE 23' FEED 1200CFM A | 76.593 | 18.91 | | 5.04 | 9.34 | 0.00 | | | 185 | |
| | DRILLS-CORE-AIR-COLUMN MOUNTED ***** | | | | | | | | | | |
| 2885 | LONGYEAR 24 WOLVERINE AX 700' 450CFM A | 10.416 | 2.79 | | 0.69 | 1.27 | 0.00 | | | 12 | |
| 2890 | LONGYEAR 65D EX 600' 400CFM A | 6.851 | 1.91 | | 0.45 | 0.83 | 0.00 | | | 3 | |
| 2895 | 65D ROD PULLER 21" STROKE 400CFM A | 1.132 | 0.47 | | 0.07 | 0.13 | 0.00 | | | 1 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | |
|---------------------------------|---|----------|--------------------|--------|---------------------|---------------|-------|--------------|------|-----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | |
| DRILLS-CORE-SKID MOUNTED | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | |
| ACKER | | | | | | | | | | | | |
| 2905 | HILLBILLY MARK-III NX 1000' MAX | 46 HP D | 22,985 | 8.47 | | 1.51 | 2.80 | 2.31 | | 40 | | |
| 2910 | MOUNTAINEER NX 2000' MAX | 44 HP D | 25,379 | 8.92 | | 1.67 | 3.09 | 2.21 | | 45 | | |
| SPRAGUE AND HENWOOD | | | | | | | | | | | | |
| 2920 | MOD 37-H NX 400' MAX | 18 HP G | 10,518 | 4.81 | | 0.69 | 1.28 | 1.94 | | 18 | | |
| 2925 | MOD 40-CL NX 900' MAX | 45 HP D | 19,374 | 7.52 | | 1.27 | 2.36 | 2.26 | | 27 | | |
| LONGYEAR | | | | | | | | | | | | |
| 2935 | MOD 24 STD AX 675' MAX | 12 HP G | 8,245 | 3.51 | | 0.55 | 1.01 | 1.29 | | 19 | | |
| 2940 | MOD 34 NX 1000' MAX | 31 HP G | 18,678 | 8.42 | | 1.23 | 2.28 | 3.34 | | 38 | | |
| 2945 | MOD 34 NX 1000' MAX | 38 HP D | 20,901 | 7.46 | | 1.37 | 2.55 | 1.91 | | 39 | | |
| 2950 | MOD 38 NX 1800' MAX | 42 HP D | 22,846 | 8.18 | | 1.50 | 2.78 | 2.11 | | 41 | | |
| 2955 | MOD 44 NX 2500' MAX | 60 HP D | 30,225 | 11.11 | | 1.99 | 3.69 | 3.02 | | 56 | | |
| DRILLS-ROTARY | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | |
| CHICAGO PNEUMATIC | | | | | | | | | | | | |
| 2965 | MOD T-650 6-3/4" - W/TRUCK 50,000 G.V.W. | 218 HP D | 194,208 | 48.51 | | 11.24 | 18.40 | 10.96 | | 440 | | |
| JOY-ROBBINS | | | | | | | | | | | | |
| 2975 | RRT 50 TK MOUNTED 6-3/4" TO 9" | 304 HP D | 322,514 | 76.99 | | 18.65 | 30.53 | 15.29 | | 820 | | |
| 2980 | RRT 60 TK MTD 6-3/4" TO 9-7/8" | 325 HP D | 361,610 | 85.22 | | 20.93 | 34.28 | 16.34 | | 920 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | CWT | | | | |
|-------------------------------|----------------------------------|-------------|--------------------|--------|----------|---------------------|-------|--------------|------|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | | | | | |
| DRILLS-ROTARY (CONT'D) | | | | | | | | | | | | | |
| JOY-ROBBINS (CONT'D) | | | | | | | | | | | | | |
| 2985 | RRT 70 TK MTD 6-3/4" TO 10-5/8" | 350 HP D | 415,137 | 96.22 | | 24.03 | 39.38 | 17.60 | 1020 | | | | |
| 2990 | RR10S DM D9 6 -3/4" TO 9-7/8" | 320 HP D | 324,357 | 77.26 | | 18.83 | 30.99 | 16.09 | 1120 | | | | |
| 2995 | RR10HD DM D9 6-3/4" TO 10-5/8" | 500 HP D | 392,192 | 100.47 | | 22.77 | 37.47 | 25.14 | 1200 | | | | |
| 3000 | RR11 CRLR MTD 6-3/4" TO 12-1/4" | 575 HP E | 585,958 | 102.28 | | 31.76 | 48.23 | 24.15 | 1421 | | | | |
| 3005 | RR12 CRLR MTD 10-5/8" TO 12-1/2" | 600 HP E | 730,749 | 120.19 | | 39.61 | 60.15 | 25.20 | 1500 | | | | |
| 3010 | RR16 CRLR MTD 10-5/8" TO 15" | 1100 HP E | 831,257 | 163.02 | | 45.06 | 68.42 | 46.20 | 2200 | | | | |
| FORK LIFTS | | | | | | | | | | | | | |
| Hyster-Challenger | | | | | | | | | | | | | |
| 3020 | H30H 3000# @ 24" LC (LOAD CNTR) | 63 HP 6 | 19,252 | 11.58 | | 1.25 | 2.31 | 5.53 | 71 | | | | |
| 3025 | H60H 6000# @ 24" LC | 63 HP 6 | 21,933 | 12.23 | | 1.43 | 2.63 | 5.53 | 103 | | | | |
| 3030 | H110F 11000# @ 24" LC | 116 HP 6 | 33,535 | 20.84 | | 2.19 | 4.02 | 10.18 | 163 | | | | |
| 3035 | H150H 15000# @ 24" LC | 127 HP 6 | 46,968 | 25.37 | | 3.06 | 5.62 | 11.15 | 223 | | | | |
| 3040 | H200HS20000# @ 24" LC | PS 127 HP 6 | 53,587 | 26.99 | | 3.50 | 6.43 | 11.15 | 256 | | | | |
| 3045 | H250H 25000# @ 24" LC | PS 127 HP 6 | 55,895 | 27.57 | | 3.64 | 6.68 | 11.15 | 295 | | | | |
| 3050 | H300B 30000# @ 24" LC | PS 127 HP 6 | 61,866 | 29.02 | | 4.04 | 7.41 | 11.15 | 360 | | | | |
| 3055 | H460B 46000# @ 48" LC | PS 190 HP 6 | 118,898 | 49.91 | | 7.74 | 14.18 | 16.68 | 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 | FUEL | | | | | | |
| GENERATOR ELECT PLANTS ***** | | | | | | | | | | | | | | | |
| CATERPILLAR T = TURBOCHARGED TA = TURBOCHARGED AFTER COOLED | | | | | | | | | | | | | | | |
| SKID MOUNTED | | | | | | | | | | | | | | | |
| 3070 | MOD 3304 -T | 240/480V | 86 KW | 129 HP | D | 14,403 | 9.76 | 12.89 | 0.96 | 1.61 | 5.25 | 2.46 | 6.76 | 37 | |
| 3075 | MOD 3306 -T | 240/480V | 130 KW | 200 HP | D | 17,308 | 13.98 | 18.43 | 1.14 | 1.93 | 8.13 | 2.95 | 10.49 | 45 | |
| 3080 | MOD 3306 -TA | 240/480V | 150 KW | 220 HP | D | 19,723 | 15.55 | 20.47 | 1.31 | 2.20 | 8.95 | 3.36 | 11.53 | 46 | |
| 3085 | MOD 3406 -T | 240/480V | 175 KW | 270 HP | D | 20,825 | 18.30 | 24.08 | 1.38 | 2.32 | 10.98 | 3.55 | 14.16 | 64 | |
| 3090 | MOD 3406 -TA | 240/480V | 200 KW | 305 HP | D | 23,804 | 20.75 | 27.28 | 1.58 | 2.66 | 12.40 | 4.06 | 15.99 | 66 | |
| 3095 | MOD 3408 -T | 240/480V | 225 KW | 335 HP | D | 26,994 | 22.98 | 30.23 | 1.79 | 3.01 | 13.62 | 4.60 | 17.56 | 72 | |
| 3100 | MOD 3408 -TA | 240/480V | 250 KW | 375 HP | D | 30,311 | 25.74 | 33.86 | 2.01 | 3.38 | 15.25 | 5.16 | 19.66 | 75 | |
| 3105 | MOD D353E-TA | 240/480V | 335 KW | 435 HP | D | 47,825 | 32.72 | 43.23 | 3.17 | 5.34 | 17.69 | 8.14 | 22.81 | 96 | |
| 3110 | MOD 3412 -T | 240/480V | 300 KW | 425 HP | D | 41,998 | 30.91 | 40.76 | 2.79 | 4.69 | 17.28 | 7.15 | 22.28 | 92 | |
| 3115 | MOD 3412 -TA | 240/480V | 440 KW | 565 HP | D | 46,650 | 39.00 | 51.32 | 3.09 | 5.20 | 22.97 | 7.94 | 29.62 | 94 | |
| 3120 | MOD D348 -TA | 240/480V | 480 KW | 683 HP | D | 71,630 | 50.58 | 66.80 | 4.74 | 7.99 | 27.77 | 12.19 | 35.81 | 135 | |
| 3125 | MOD D398B-TA | 230/460V | 566 KW | 812 HP | D | 96,102 | 62.61 | 82.84 | 6.36 | 10.72 | 33.02 | 16.36 | 42.57 | 197 | |
| 3130 | MOD D399 -TA | 230/460V | 770 KW | 1074 HP | D | 123,681 | 82.04 | 108.49 | 8.19 | 13.79 | 43.67 | 21.05 | 56.31 | 278 | |
| ONAN | | | | | | | | | | | | | | | |
| SKID MOUNTED | | | | | | | | | | | | | | | |
| 3145 | | 120/240V | 15 KW | 27 HP | D | 5,026 | 2.49 | 3.34 | 0.34 | 0.56 | 1.10 | 0.86 | 1.42 | 14 | |
| 3150 | | 120/240V | 30 KW | 63 HP | D | 7,445 | 4.85 | 6.42 | 0.49 | 0.83 | 2.56 | 1.27 | 3.30 | 19 | |
| 3155 | | 120/240V | 45 KW | 87 HP | D | 9,843 | 6.60 | 8.73 | 0.65 | 1.09 | 3.54 | 1.68 | 4.56 | 25 | |

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 | | | | | | |
| GENERATOR ELECT PLANTS (CONT'D) | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | | | |
| OMAN (CONT'D) | | | | | | | | | | | | | | | |
| 3160 | 120/240V 60 KW 102 HP D | 11.298 | 7.70 | 10.17 | 0.75 | 1.26 | 4.15 | 1.93 | 5.35 | 26 | | | | | |
| 3165 | 120/240V 75 KW 162 HP D | 13.438 | 11.20 | 14.73 | 0.89 | 1.50 | 6.59 | 2.29 | 8.49 | 30 | | | | | |
| 3170 | 120/240V 90 KW 162 HP D | 14.071 | 11.34 | 14.92 | 0.93 | 1.57 | 6.59 | 2.39 | 8.49 | 30 | | | | | |
| 3175 | 120/240V 125 KW 210 HP D | 16.372 | 14.29 | 18.77 | 1.09 | 1.83 | 8.54 | 2.79 | 11.01 | 50 | | | | | |
| 3180 | 120/240V 150 KW 276 HP D | 19.435 | 18.29 | 24.02 | 1.28 | 2.16 | 11.22 | 3.31 | 14.47 | 65 | | | | | |
| GRADERS MOTOR | | | | | | | | | | | | | | | |
| XXXXXXXXXXXX | | | | | | | | | | | | | | | |
| AUSTIN WESTERN | | | | | | | | | | | | | | | |
| 3190 | PACER 301 POWER SHIFT 4X4 146 HP D | 83.933 | 22.91 | 32.63 | 5.18 | 8.67 | 5.47 | 13.73 | 7.19 | 245 | | | | | |
| 3195 | SUPER 301 POWER SHIFT 6X6 146 HP D | 91.156 | 24.49 | 35.11 | 5.61 | 9.33 | 5.47 | 14.81 | 7.19 | 273 | | | | | |
| 3200 | PACER 501 POWER SHIFT 4X4 187 HP D | 89.335 | 25.87 | 36.68 | 5.52 | 9.24 | 7.00 | 14.64 | 9.20 | 280 | | | | | |
| 3205 | SUPER 501 POWER SHIFT 6X6 187 HP D | 95.760 | 27.29 | 38.94 | 5.90 | 9.81 | 7.00 | 15.58 | 9.20 | 315 | | | | | |
| CATERPILLAR | | | | | | | | | | | | | | | |
| 3215 | MOD 120-6 POWER SHIFT ARTIC | 125 HP D | 69.535 | 19.00 | 26.91 | 4.31 | 7.24 | 4.68 | 11.45 | 6.15 | 258 | | | | |
| 3220 | MOD 130-G POWER SHIFT ARTIC | 135 HP D | 79.115 | 21.23 | 30.09 | 4.91 | 8.25 | 5.06 | 13.04 | 6.64 | 301 | | | | |
| 3225 | MOD 12-G POWER SHIFT ARTIC | 135 HP D | 85.806 | 22.57 | 32.07 | 5.31 | 8.91 | 5.06 | 14.10 | 6.64 | 311 | | | | |
| 3230 | MOD 140-G POWER SHIFT ARTIC | 150 HP D | 86.777 | 23.59 | 33.52 | 5.36 | 8.96 | 5.62 | 14.20 | 7.38 | 317 | | | | |
| 3235 | MOD 14-G POWER SHIFT ARTIC | 180 HP D | 119.180 | 31.25 | 44.68 | 7.34 | 12.23 | 6.74 | 19.42 | 8.86 | 433 | | | | |
| 3240 | MOD 16-G POWER SHIFT ARTIC | 250 HP D | 172.534 | 44.91 | 64.34 | 10.61 | 17.63 | 9.36 | 28.01 | 12.30 | 581 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CMT | | | | |
|-------------------------------|----------------------------------|----------|--------------------|--------|----------|---------------------|-------|--------------|-------|------|-----|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| GRADERS MOTOR (CONT'D) | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | |
| FIAT-ALLIS | | | | | | | | | | | | | | |
| 3250 | MOD-65 DIRECT DRIVE | 59 HP D | 38,426 | 10.13 | 14.48 | 2.37 | 3.94 | 2.21 | 4.26 | 2.90 | 125 | | | |
| 3255 | MOD-100C CONSTANT MESH | 135 HP D | 73,515 | 20.33 | 28.80 | 4.54 | 7.61 | 5.06 | 12.05 | 6.64 | 310 | | | |
| 3260 | MOD-150C POWER SHIFT | 135 HP D | 78,570 | 21.25 | 30.14 | 4.86 | 8.14 | 5.06 | 12.89 | 6.64 | 316 | | | |
| 3265 | MOD-200C POWER SHIFT | 160 HP D | 84,615 | 23.63 | 33.52 | 5.22 | 8.74 | 5.99 | 13.86 | 7.88 | 322 | | | |
| GALION | | | | | | | | | | | | | | |
| 3275 | MOD 503-L DIRECT DRIVE | 74 HP G | 29,386 | 12.45 | 17.06 | 1.82 | 3.06 | 6.00 | 4.84 | 7.78 | 102 | | | |
| 3280 | MOD T-500C POWER SHIFT | 150 HP D | 66,469 | 20.08 | 28.56 | 4.06 | 6.70 | 5.62 | 10.68 | 7.38 | 257 | | | |
| 3285 | MOD T-600C POWER SHIFT | 200 HP D | 81,502 | 25.24 | 35.73 | 5.00 | 8.29 | 7.49 | 13.19 | 9.84 | 300 | | | |
| WABCO | | | | | | | | | | | | | | |
| 3295 | MOD 444 POWER SHIFT | 134 HP D | 71,052 | 19.70 | 27.89 | 4.40 | 7.39 | 5.02 | 11.70 | 6.60 | 302 | | | |
| 3300 | MOD 555-B CONSTANT MESH | 160 HP D | 73,292 | 21.46 | 30.33 | 4.53 | 7.59 | 5.99 | 12.03 | 7.88 | 328 | | | |
| 3305 | MOD 777-B POWER SHIFT | 201 HP D | 86,174 | 26.15 | 37.04 | 5.30 | 8.79 | 7.53 | 13.97 | 9.89 | 355 | | | |
| HOISTS | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | |
| BENDIX-SKAGIT | | | | | | | | | | | | | | |
| 3315 | BU-1BW DOUBLE DRUM W/5/8" CABLE | 100 HP D | 45,895 | 16.22 | | 3.02 | 5.60 | 4.07 | | | 85 | | | |
| 3320 | G-70 DOUBLE DRUM W/7/8" CABLE | 100 HP D | 59,824 | 19.61 | | 3.93 | 7.30 | 4.07 | | | 126 | | | |
| 3325 | RB-80 DOUBLE DRUM W/1-1/8" CABLE | 130 HP D | 107,342 | 32.68 | | 7.05 | 13.09 | 5.29 | | | 240 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | | ADJUSTABLE ELEMENTS | | | | CNT | |
|----------|--|---------|--------------------|--------|----------|---------------|---------------------|--------------|-------|------|-----|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | |
| | HOISTS (CONT'D) ***** | | | | | | | | | | | |
| | GARDNER DENVER | | | | | | | | | | | |
| 3335 | HML SINGLE DRUM W/1/2" CABLE 350CFW A | 5,406 | 1.42 | | 0.35 | 0.66 | 0.00 | | | | 10 | |
| | HYDRAULIC EXCAVATOR-CRAWLER MOUNTED ***** | | | | | | | | | | | |
| | T/B = TELESCOPING BOOM | | | | | | | | | | | |
| | B/H = BACKHOE | | | | | | | | | | | |
| | AMERICAN | | | | | | | | | | | |
| 3345 | MOD 25A 1.38 CY B/H 182 HP D | 136,380 | 34.60 | 48.85 | 8.23 | 14.19 | 6.82 | 22.05 | 8.96 | 644 | | |
| 3350 | MOD 35A 2.00 CY B/H 250 HP D | 195,956 | 49.19 | 69.50 | 11.83 | 20.39 | 9.36 | 31.68 | 12.30 | 850 | | |
| 3355 | MOD 45A 3.50 CY B/H 420 HP D | 334,598 | 76.87 | 107.38 | 19.06 | 30.94 | 15.73 | 48.58 | 20.67 | 1620 | | |
| | BUCYRUS ERIE | | | | | | | | | | | |
| 3365 | MOD 300-H 1.00 CY B/H 176 HP D | 132,982 | 35.77 | 51.39 | 8.46 | 15.33 | 6.59 | 23.77 | 8.66 | 513 | | |
| 3370 | MOD 325-H 1.75 CY B/H 205 HP D | 181,924 | 44.47 | 62.96 | 10.98 | 18.93 | 7.68 | 29.41 | 10.09 | 715 | | |
| 3375 | MOD 350-H 2.50 CY B/H 248 HP D | 230,396 | 55.80 | 79.07 | 13.90 | 23.97 | 9.29 | 37.25 | 12.21 | 920 | | |
| | CATERPILLAR | | | | | | | | | | | |
| 3385 | MOD 225 1.00 CY B/H 125 HP D | 115,789 | 29.89 | 43.11 | 7.37 | 13.35 | 4.68 | 20.70 | 6.15 | 494 | | |
| 3390 | MOD 235 1.50 CY B/H 195 HP D | 191,795 | 45.95 | 65.16 | 11.58 | 19.96 | 7.30 | 31.01 | 9.60 | 832 | | |
| 3395 | MOD 245 2.50 CY B/H 325 HP D | 297,281 | 72.23 | 102.31 | 17.94 | 30.94 | 12.17 | 48.06 | 16.00 | 1290 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | | ADJUSTABLE ELEMENTS | | | | CNT | | | | |
|--|------------|---------|--------------------|--------|----------|---------------|---------------------|--------------|-------|-------|-------|-------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | | |
| HYDRAULIC EXCAVATOR-CRLR MNT'D CONT'D | | | | | | | | | | | | | | | |
| ***** T/B = TELESCOPING BOOM B/H = BACKHOE | | | | | | | | | | | | | | | |
| DROTT | | | | | | | | | | | | | | | |
| 3405 | MOD 40-D | 1.00 CY | B/H | 157 HP | D | 87.497 | 25.36 | 36.22 | 5.57 | 10.09 | 5.88 | 15.65 | 7.73 | 400 | |
| 3410 | MOD 50-D | 1.25 CY | B/H | 190 HP | D | 111.235 | 30.05 | 42.24 | 6.71 | 11.57 | 7.12 | 17.98 | 9.35 | 510 | |
| GRADALL | | | | | | | | | | | | | | | |
| 3420 | MOD G-660 | .50 CY | T/B | 115 HP | D | 118.369 | 30.00 | 43.33 | 7.53 | 13.64 | 4.31 | 21.16 | 5.66 | 459 | |
| 3425 | MOD G-880 | .75 CY | T/B | 160 HP | D | 142.090 | 36.97 | 53.30 | 9.04 | 16.38 | 5.99 | 25.40 | 7.88 | 549 | |
| 3430 | MOD G-1000 | 1.25 CY | T/B | 272 HP | D | 190.372 | 49.07 | 69.22 | 11.48 | 19.80 | 10.19 | 30.77 | 13.39 | 787 | |
| HOP TO | | | | | | | | | | | | | | | |
| 3440 | MOD 211 | 1.13 CY | B/H | 160 HP | D | 118.346 | 30.11 | 42.51 | 7.15 | 12.32 | 5.99 | 19.13 | 7.88 | 521 | |
| 3445 | MOD 311 | 1.88 CY | B/H | 235 HP | D | 164.646 | 42.44 | 59.86 | 9.94 | 17.14 | 8.80 | 26.62 | 11.57 | 743 | |
| 3450 | MOD 900B | 3.25 CY | B/H | 308 HP | D | 195.627 | 47.70 | 66.42 | 11.15 | 18.09 | 11.53 | 28.41 | 15.16 | 1009 | |
| 3455 | MOD 1900 | 5.00 CY | B/H | 616 HP | D | 401.442 | 97.19 | 135.34 | 22.87 | 37.13 | 23.07 | 58.28 | 30.32 | 1998 | |
| INSLEY | | | | | | | | | | | | | | | |
| 3465 | MOD H1500B | 1.50 CY | B/H | 240 HP | D | 172.821 | 44.25 | 62.44 | 10.43 | 17.98 | 8.99 | 27.94 | 11.81 | 801 | |
| 3470 | MOD H3500B | 3.00 CY | B/H | 355 HP | D | 239.142 | 57.35 | 79.93 | 13.62 | 22.11 | 13.29 | 34.72 | 17.47 | 1149 | |
| KOEMRING | | | | | | | | | | | | | | | |
| 3480 | MOD 866D | 1.75 CY | B/H | 325 HP | D | 257.786 | 64.54 | 91.23 | 15.56 | 26.82 | 12.17 | 41.68 | 16.00 | 1197 | |
| 3485 | MOD 1066D | 2.50 CY | B/H | 380 HP | D | 319.113 | 78.90 | 111.63 | 19.25 | 33.20 | 14.23 | 51.59 | 18.70 | 1524 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|--|---------|--------------------|--------|----------|---------------------|-------|--------------|-------|------|--|
| | | | CONDITION | | STAND BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | HYDRAULIC EXCAVATOR-CRLR MNTD CONT'D ***** T/B = TELESCOPING BOOM B/H = BACKHOE | | | | | | | | | | |
| | KOEHRING (CONT'D) | | | | | | | | | | |
| 3490 | MOD 1266D .50 CY B/H 760 HP D | 653.599 | 147.49 | 206.24 | 37.24 | 60.45 | 28.46 | 94.89 | 37.41 | 2600 | |
| | P & H | | | | | | | | | | |
| 3500 | MOD H-750 .75 CY B/H 105 HP D | 91.494 | 23.89 | 34.42 | 5.82 | 10.54 | 3.93 | 16.35 | 5.17 | 390 | |
| 3505 | MOD H-1250 1.00 CY B/H 190 HP D | 127.600 | 35.25 | 50.54 | 8.12 | 14.71 | 7.12 | 22.81 | 9.35 | 620 | |
| | SHIELD BANTAM | | | | | | | | | | |
| 3515 | MOD C166 .50 CY B/H 118 HP D | 73.378 | 20.65 | 29.58 | 4.66 | 8.45 | 4.42 | 13.12 | 5.81 | 321 | |
| | UNIT | | | | | | | | | | |
| 3525 | MOD H202C .75 CY B/H 152 HP D | 96.687 | 27.05 | 38.77 | 6.15 | 11.14 | 5.69 | 17.29 | 7.48 | 440 | |
| 3530 | MOD H342 1.25 CY B/H 228 HP D | 165.303 | 42.26 | 59.64 | 9.98 | 17.20 | 8.54 | 26.73 | 11.22 | 740 | |
| 3535 | MOD H471 1.75 CY B/H 304 HP D | 208.627 | 54.04 | 76.20 | 12.59 | 21.71 | 11.38 | 33.73 | 14.96 | 990 | |

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-TRUCK MOUNTED ***** (HP & FUEL LISTED EQUIP/CARRIER) T/B = TELESCOPING BOOM B/H = BACKHOE | | | | | | | | | | |
| | GRADALL | | | | | | | | | | |
| 3545 | MOD G-660 .50 CY T/B 115/180 HP D/G | 138,872 | 28.73 | 40.59 | 8.01 | 13.15 | 7.07 | 20.63 | 9.14 | 419 | |
| 3550 | MOD G-880 .75 CY T/B 160/210 HP D/D | 154,124 | 32.11 | 45.07 | 8.87 | 14.53 | 8.00 | 22.82 | 10.14 | 508 | |
| 3555 | MOD G-1000 1.25 CY T/B 272/228 HP D/B | 202,594 | 43.15 | 59.86 | 11.16 | 17.38 | 12.69 | 27.62 | 16.16 | 698 | |
| | LAND CLEARING EQUIPMENT ***** (ADD TO TRACTOR) | | | | | | | | | | |
| 3565 | FLECO LAND CLEARING RAKE FOR D-7 | 20,184 | 4.67 | 6.92 | 1.33 | 2.47 | 0.00 | 3.84 | 0.00 | 107 | |
| 3570 | FLECO LAND CLEARING RAKE FOR D-8 | 25,835 | 5.96 | 8.84 | 1.70 | 3.16 | 0.00 | 4.92 | 0.00 | 145 | |
| 3575 | FLECO LAND CLEARING RAKE FOR D-9 | 32,746 | 7.55 | 11.19 | 2.16 | 4.01 | 0.00 | 6.23 | 0.00 | 200 | |
| 3580 | FLECO CLAMP RAKE FOR CAT 977 (ADD TO 977 LOADER) | 10,255 | 2.39 | 3.55 | 0.67 | 1.25 | 0.00 | 1.96 | 0.00 | 23 | |
| | LIGHTING SETS-TRAILER MOUNTED ***** | | | | | | | | | | |
| | ALLHAND METALLIC VAPOR | | | | | | | | | | |
| 3590 | 30' TOWER 4/1000W LTS 5 KW 11 HP D | 9,863 | 3.00 | | 0.66 | 1.12 | 0.66 | | | 26 | |
| | OVER LOWE METALLIC VAPOR | | | | | | | | | | |
| 3600 | 38' TOWER 4/1000W LTS 6 KW 12 HP D | 8,974 | 2.87 | | 0.59 | 1.01 | 0.72 | | | 22 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|-------------------------------------|--------|--------------------|--------|----------|---------------------|------|--------------|------|-----|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | LOADERS-BELT XXXXXXXXXXXX | | | | | | | | | | |
| | KOLMAN | | | | | | | | | | |
| 3610 | 101XHD 24"X50' 355 T/HR 56 HP D | 25,638 | 9.53 | 13.71 | 1.67 | 2.78 | 2.28 | 4.50 | 2.94 | 113 | |
| | OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | |
| 3620 | PLATE FEEDER DOZER TRAP MODEL 45 | 3,775 | 0.89 | 1.33 | 0.25 | 0.43 | 0.00 | 0.69 | 0.00 | 37 | |
| 3625 | BELT FEEDER DOZER TRAP MODEL 65 | 5,383 | 1.26 | 1.89 | 0.36 | 0.61 | 0.00 | 0.98 | 0.00 | 36 | |
| 3630 | WING WALLS STATIONARY | 994 | 0.23 | 0.36 | 0.07 | 0.11 | 0.00 | 0.19 | 0.00 | 9 | |
| 3635 | TUNNEL EXTENSION W/WING WALLS | 5,278 | 1.24 | 1.85 | 0.35 | 0.60 | 0.00 | 0.96 | 0.00 | 61 | |
| 3640 | SINGLE DECK SCREEN SB-70 7'X42 | 3,904 | 0.91 | 1.38 | 0.26 | 0.44 | 0.00 | 0.72 | 0.00 | 19 | |
| 3645 | DOUBLE DECK SCREEN DC-70-42 7'X42 | 4,807 | 1.12 | 1.69 | 0.32 | 0.54 | 0.00 | 0.88 | 0.00 | 26 | |
| 3650 | TRIPLE DECK SCREEN TC-70-42 7'X42 | 6,081 | 1.43 | 2.14 | 0.41 | 0.69 | 0.00 | 1.11 | 0.00 | 34 | |
| 3655 | XHD CONVEYOR JACKLEG | 795 | 0.19 | 0.28 | 0.05 | 0.09 | 0.00 | 0.15 | 0.00 | 9 | |
| 3660 | 101XHD 30"X50' 615 T/HR 56 HP D | 26,637 | 9.92 | 14.34 | 1.73 | 2.88 | 2.28 | 4.66 | 2.94 | 122 | |
| | OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | |
| 3670 | PLATE FEEDER DOZER TRAP MODEL 45 | 4,673 | 1.10 | 1.65 | 0.31 | 0.53 | 0.00 | 0.86 | 0.00 | 42 | |
| 3675 | BELT FEEDER DOZER TRAP MODEL 65 | 5,655 | 1.33 | 1.98 | 0.38 | 0.64 | 0.00 | 1.03 | 0.00 | 40 | |
| 3680 | WING WALLS STATIONARY | 994 | 0.23 | 0.36 | 0.07 | 0.11 | 0.00 | 0.19 | 0.00 | 9 | |
| 3685 | TUNNEL EXTENSION W/WING WALLS | 5,278 | 1.24 | 1.85 | 0.35 | 0.60 | 0.00 | 0.96 | 0.00 | 61 | |
| 3690 | SINGLE DECK SCREEN SB-80 8'X48 | 4,390 | 1.02 | 1.54 | 0.29 | 0.49 | 0.00 | 0.80 | 0.00 | 23 | |
| 3695 | DOUBLE DECK SCREEN DC-80-48 8'X48 | 5,607 | 1.31 | 1.97 | 0.37 | 0.63 | 0.00 | 1.02 | 0.00 | 35 | |
| 3700 | TRIPLE DECK SCREEN TC-80-48 8'X48 | 6,891 | 1.62 | 2.41 | 0.46 | 0.78 | 0.00 | 1.25 | 0.00 | 43 | |
| 3705 | XHD CONVEYOR JACKLEG | 795 | 0.19 | 0.28 | 0.05 | 0.09 | 0.00 | 0.15 | 0.00 | 9 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CNT | | | | |
|-------------------------------------|-----------------------------------|---------|--------------------|--------|----------|---------------------|------|--------------|------|------|-----|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| LOADERS-BELT (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| KOLMAN (CONT'D) | | | | | | | | | | | | | | |
| 3710 | 101XHD 36'X50' 910 T/HR | 68 HP D | 32,909 | 12.15 | 17.57 | 2.13 | 3.55 | 2.76 | 5.75 | 3.57 | 173 | | | |
| OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | | | | | |
| 3720 | PLATE FEEDER DOZER TRAP MODEL 45 | | 5,009 | 1.17 | 1.75 | 0.33 | 0.56 | 0.00 | 0.91 | 0.00 | 45 | | | |
| 3725 | BELT FEEDER DOZER TRAP MODEL 65 | | 5,986 | 1.40 | 2.10 | 0.39 | 0.67 | 0.00 | 1.09 | 0.00 | 42 | | | |
| 3730 | WING WALLS STATIONARY | | 994 | 0.23 | 0.36 | 0.07 | 0.11 | 0.00 | 0.19 | 0.00 | 9 | | | |
| 3735 | TUNNEL EXTENSION W/WING WALLS | | 5,278 | 1.24 | 1.85 | 0.35 | 0.60 | 0.00 | 0.96 | 0.00 | 61 | | | |
| 3740 | SINGLE DECK SCREEN SB-90 9'X54 | | 4,968 | 1.16 | 1.75 | 0.33 | 0.56 | 0.00 | 0.91 | 0.00 | 28 | | | |
| 3745 | DOUBLE DECK SCREEN DC-90-54 9'X54 | | 6,301 | 1.47 | 2.20 | 0.42 | 0.71 | 0.00 | 1.14 | 0.00 | 43 | | | |
| 3750 | TRIPLE DECK SCREEN TC-90-54 9'X54 | | 8,367 | 1.96 | 2.93 | 0.55 | 0.94 | 0.00 | 1.52 | 0.00 | 54 | | | |
| 3755 | XHD CONVEYOR JACKLEG | | 795 | 0.19 | 0.28 | 0.05 | 0.09 | 0.00 | 0.15 | 0.00 | 9 | | | |
| 3760 | 101XHD 42'X50' 1260 T/HR | 84 HP D | 38,403 | 14.42 | 20.80 | 2.49 | 4.14 | 3.42 | 6.71 | 4.40 | 204 | | | |
| OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | | | | | |
| 3770 | PLATE FEEDER DOZER TRAP MODEL 45 | | 5,341 | 1.25 | 1.87 | 0.35 | 0.60 | 0.00 | 0.97 | 0.00 | 48 | | | |
| 3775 | BELT FEEDER DOZER TRAP MODEL 65 | | 6,862 | 1.61 | 2.41 | 0.46 | 0.78 | 0.00 | 1.25 | 0.00 | 45 | | | |
| 3780 | WING WALLS STATIONARY | | 994 | 0.23 | 0.36 | 0.07 | 0.11 | 0.00 | 0.19 | 0.00 | 9 | | | |
| 3785 | TUNNEL EXTENSION W/WING WALLS | | 5,278 | 1.24 | 1.85 | 0.35 | 0.60 | 0.00 | 0.96 | 0.00 | 61 | | | |
| 3790 | SINGLE DECK SCREEN SB-100 | | 6,218 | 1.45 | 2.18 | 0.41 | 0.70 | 0.00 | 1.13 | 0.00 | 37 | | | |
| 3795 | DOUBLE DECK SCREEN DC-100-60 10'X | | 7,793 | 1.83 | 2.73 | 0.51 | 0.88 | 0.00 | 1.42 | 0.00 | 55 | | | |
| 3800 | TRIPLE DECK SCREEN TC-100-60 10'X | | 9,753 | 2.28 | 3.41 | 0.64 | 1.10 | 0.00 | 1.77 | 0.00 | 68 | | | |
| 3805 | XHD CONVEYOR JACKLEG | | 795 | 0.19 | 0.28 | 0.05 | 0.09 | 0.00 | 0.15 | 0.00 | 9 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CNT | | | | |
|-------------------------------------|------------------------------------|---------|--------------------|--------|----------|---------------------|-------|--------------|-------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| LOADERS-BELT (CONT'D) | | | | | | | | | | | | | | |
| \$88888888888888888888 | | | | | | | | | | | | | | |
| KOLMAN (CONT'D) | | | | | | | | | | | | | | |
| 3810 | 101XHD 48'X50' 1700 T/HR 125 HP D | 69.332 | 23.96 | 34.61 | 4.51 | 7.55 | 5.08 | 12.20 | 6.55 | 287 | | | | |
| OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | | | | | |
| 3820 | PLATE FEEDER DOZER TRAP MODEL 45 | 8.280 | 1.95 | 2.91 | 0.55 | 0.94 | 0.00 | 1.51 | 0.00 | 51 | | | | |
| 3825 | WING WALLS STATIONARY | 994 | 0.23 | 0.36 | 0.07 | 0.11 | 0.00 | 0.19 | 0.00 | 9 | | | | |
| 3830 | TUNNEL EXTENSION W/WING WALLS | 5.881 | 1.38 | 2.06 | 0.39 | 0.67 | 0.00 | 1.07 | 0.00 | 66 | | | | |
| 3835 | SINGLE DECK SCREEN SB-120 12'X | 7.816 | 1.83 | 2.74 | 0.51 | 0.88 | 0.00 | 1.42 | 0.00 | 53 | | | | |
| 3840 | DOUBLE DECK SCREEN DC-120-72 12'X | 9.675 | 2.26 | 3.39 | 0.64 | 1.09 | 0.00 | 1.76 | 0.00 | 77 | | | | |
| 3845 | TRIPLE DECK SCREEN TC-120-60 12'X | 10.975 | 2.57 | 3.84 | 0.72 | 1.24 | 0.00 | 1.99 | 0.00 | 80 | | | | |
| 3850 | XHD CONVEYOR JACKLEG | 795 | 0.19 | 0.28 | 0.05 | 0.09 | 0.00 | 0.15 | 0.00 | 9 | | | | |
| 3855 | 303 48'X50' 2000 CY/HR 125 HP D | 113.870 | 34.52 | 50.33 | 7.45 | 12.55 | 5.08 | 20.21 | 6.55 | 627 | | | | |
| 3860 | 303 48'X60' 2000 CY/HR 185 HP D | 126.564 | 40.72 | 58.95 | 8.30 | 13.98 | 7.52 | 22.49 | 9.70 | 662 | | | | |
| 3865 | 303 60'X50' 3600 CY/HR 185 HP D | 130.768 | 41.80 | 60.60 | 8.57 | 14.43 | 7.52 | 23.24 | 9.70 | 682 | | | | |
| 3870 | 303 60'X60' 3600 CY/HR 290 HP D | 150.494 | 52.17 | 75.04 | 9.86 | 16.62 | 11.79 | 26.76 | 15.20 | 737 | | | | |
| OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | | | | | |
| 3880 | SINGLE DECK SCREEN SB-120 12'X | 8.671 | 2.03 | 3.04 | 0.58 | 0.98 | 0.00 | 1.58 | 0.00 | 53 | | | | |
| 3885 | DOUBLE DECK SCREEN DC-120-72 12'X | 10.714 | 2.51 | 3.76 | 0.71 | 1.21 | 0.00 | 1.95 | 0.00 | 77 | | | | |
| 3890 | TRIPLE DECK SCREEN TC-120-60 12'X | 12.164 | 2.85 | 4.26 | 0.80 | 1.37 | 0.00 | 2.21 | 0.00 | 80 | | | | |
| 3895 | SINGLE DECK VIBRATING GRIZZLE 72"W | 14.297 | 3.35 | 5.01 | 0.94 | 1.61 | 0.00 | 2.60 | 0.00 | 80 | | | | |
| 3900 | 404 48'X50' 2000 CY/HR 185 HP D | 143.340 | 45.00 | 65.44 | 9.39 | 15.82 | 7.52 | 25.47 | 9.70 | 607 | | | | |
| 3905 | 404 48'X60' 2000 CY/HR 185 HP D | 150.684 | 47.06 | 68.59 | 9.86 | 16.60 | 7.52 | 26.74 | 9.70 | 638 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|--|-----------|-------------------------------|--------------------|---------|----------|---------------|---------------------|--------------|-------|-------|-------|------|----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | | |
| LOADERS-BELT (CONT'D) | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | | |
| KOLMAN (CONT'D) | | | | | | | | | | | | | | | |
| 3910 | 404 | 60'X50' 3600 CY/HR | 290 HP D | 168.011 | 56.68 | 81.84 | 11.01 | 18.55 | 11.79 | 29.86 | 15.20 | 658 | | | |
| 3915 | 404 | 60'X60' 3600 CY/HR | 290 HP D | 183.886 | 60.83 | 88.13 | 12.04 | 20.28 | 11.79 | 32.66 | 15.20 | 709 | | | |
| OPTIONAL EQUIPMENT SELECT AS NEEDED | | | | | | | | | | | | | | | |
| 3925 | | SINGLE DECK SCREEN SB-120 | 12'X | | 8.671 | 2.03 | 3.04 | 0.58 | 0.98 | 0.00 | 1.58 | 0.00 | 53 | | |
| 3930 | | DOUBLE DECK SCREEN DC-120-72 | 12'X | | 10.714 | 2.51 | 3.76 | 0.71 | 1.21 | 0.00 | 1.95 | 0.00 | 77 | | |
| 3935 | | TRIPLE DECK SCREEN TC-120-60 | 12'X | | 12.164 | 2.85 | 4.26 | 0.80 | 1.37 | 0.00 | 2.21 | 0.00 | 80 | | |
| 3940 | | SINGLE DECK VIBRATING GRIZZLE | 72"W | | 14.297 | 3.35 | 5.01 | 0.94 | 1.61 | 0.00 | 2.60 | 0.00 | 80 | | |
| LOADERS - F.E. TRACK TYPE | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | | |
| CASE | | | | | | | | | | | | | | | |
| 3950 | 350 | 3/4 CY | 39 HP D | 28.466 | 9.86 | 14.07 | 1.87 | 3.35 | 1.71 | 5.30 | 2.25 | 125 | | | |
| 3955 | 450 | 1 CY | 53 HP D | 38.687 | 13.41 | 19.11 | 2.55 | 4.56 | 2.33 | 7.19 | 3.06 | 160 | | | |
| 3960 | 850B | 1-1/2 CY | 72 HP D | 51.462 | 17.94 | 25.55 | 3.39 | 6.07 | 3.16 | 9.57 | 4.16 | 220 | | | |
| 3965 | 1150B | 2 CY | 105 HP D | 66.845 | 23.99 | 34.11 | 4.41 | 7.88 | 4.61 | 12.43 | 6.07 | 290 | | | |
| CATERPILLAR | | | | | | | | | | | | | | | |
| 3975 | 931 | 1 CY | 62 HP D | 37.433 | 13.62 | 19.35 | 2.47 | 4.41 | 2.72 | 6.96 | 3.58 | 151 | | | |
| 3980 | 941B | 1-1/2 CY | 80 HP D | 53.249 | 18.89 | 26.87 | 3.51 | 6.28 | 3.51 | 9.90 | 4.62 | 257 | | | |
| 3985 | 951C | 1-3/4 CY | 95 HP D | 57.597 | 20.94 | 29.75 | 3.80 | 6.79 | 4.17 | 10.71 | 5.49 | 270 | | | |
| 3990 | 955L | 2-1/4 CY | 130 HP D | 78.294 | 28.53 | 40.49 | 5.17 | 9.24 | 5.70 | 14.55 | 7.51 | 355 | | | |
| 3995 | 977L | 3-1/4 CY | 190 HP D | 116.519 | 42.24 | 59.99 | 7.68 | 13.73 | 8.34 | 21.66 | 10.98 | 507 | | | |

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. TRACK TYPE (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| CATERPILLAR (CONT'D) | | | | | | | | | | | | | | |
| 4000 | 983 | 5 CY | 275 HP D | 177,485 | 63.47 | 90.23 | 11.71 | 20.93 | 12.06 | 32.99 | 15.89 | 783 | | |
| FIAT-ALLIS | | | | | | | | | | | | | | |
| 4010 | FL9 | 1-5/8 CY | 87 HP D | 49,490 | 18.33 | 26.00 | 3.27 | 5.84 | 3.82 | 9.21 | 5.03 | 272 | | |
| 4015 | FL10C | 1-7/8 CY | 122 HP D | 63,272 | 24.07 | 34.08 | 4.18 | 7.46 | 5.35 | 11.76 | 7.05 | 312 | | |
| 4020 | FL14C | 2-1/2 CY | 150 HP D | 79,197 | 29.97 | 42.44 | 5.22 | 9.34 | 6.58 | 14.72 | 8.67 | 436 | | |
| INTERNATIONAL | | | | | | | | | | | | | | |
| 4030 | 100-E | 1 CY | 65 HP D | 37,513 | 13.82 | 19.63 | 2.47 | 4.42 | 2.85 | 6.98 | 3.76 | 160 | | |
| 4035 | 125-E | 1-1/4 CY | 78 HP D | 44,802 | 16.54 | 23.46 | 2.96 | 5.28 | 3.42 | 8.33 | 4.51 | 198 | | |
| 4040 | 175-C | 2 CY | 134 HP D | 68,403 | 26.16 | 37.01 | 4.52 | 8.07 | 5.88 | 12.72 | 7.74 | 317 | | |
| 4045 | 250-C | 2-3/4 CY | 190 HP D | 100,413 | 38.00 | 53.80 | 6.62 | 11.84 | 8.34 | 18.67 | 10.98 | 443 | | |
| JOHN DEERE | | | | | | | | | | | | | | |
| 4055 | JD350-C | 3/4 CY | 42 HP D | 27,486 | 9.79 | 13.93 | 1.82 | 3.24 | 1.84 | 5.11 | 2.43 | 119 | | |
| 4060 | JD450-C | 1-1/4 CY | 65 HP D | 36,768 | 13.63 | 19.34 | 2.43 | 4.34 | 2.85 | 6.83 | 3.76 | 167 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CUT | | | | | |
|----------------------------------|-----------|-------------------|--------------------|----------|------------|---------------------|---------------|--------------|-------|-------|-------|------|--|--|--|
| | | | CONDITION | STAND-BY | AVERAGE | SEVERE | AVERAGE COND. | SEVERE COND. | | | | | | | |
| | | | | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | | | |
| LOADERS - F.E. WHEEL TYPE | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | | |
| BOBCAT | | | | | | | | | | | | | | | |
| 4070 | MUD 630 | 1/2 CY SKID-STEER | 30 HP D | 9,285 | 5.49 | 7.60 | 0.61 | 1.07 | 2.63 | 1.71 | 3.43 | 34 | | | |
| CASE | | | | | | | | | | | | | | | |
| 4080 | W-14 | 1-1/2 CY ARTIC | 83 HP D | 47,180 | 15.30 | 22.23 | 3.08 | 5.41 | 3.37 | 8.58 | 4.35 | 148 | | | |
| 4085 | W-18 | 2 CY ARTIC | 103 HP D | 58,068 | 18.95 | 27.58 | 3.78 | 6.64 | 4.19 | 10.55 | 5.40 | 199 | | | |
| 4090 | W-24 C | 2-1/2 CY ARTIC | 132 HP D | 80,224 | 26.22 | 38.92 | 5.19 | 9.02 | 5.37 | 14.38 | 6.92 | 236 | | | |
| 4095 | W-36 | 3-1/2 CY ARTIC | 185 HP D | 95,652 | 33.05 | 48.97 | 6.18 | 10.71 | 7.52 | 17.08 | 9.70 | 332 | | | |
| CATERPILLAR | | | | | | | | | | | | | | | |
| 4105 | 920 | 1-3/4 CY ARTIC | 80 HP D | 50,867 | 15.91 | 23.17 | 3.32 | 5.84 | 3.25 | 9.27 | 4.19 | 183 | | | |
| 4110 | 930 | 2-1/4 CY ARTIC | 100 HP D | 58,700 | 18.91 | 27.55 | 3.82 | 6.71 | 4.07 | 10.66 | 5.24 | 205 | | | |
| 4115 | 950 | 3 CY ARTIC | 130 HP D | 80,269 | 25.82 | 38.07 | 5.22 | 9.10 | 5.29 | 14.48 | 6.82 | 284 | | | |
| 4120 | 966-C | 4 CY ARTIC | 170 HP D | 104,981 | 34.17 | 50.79 | 6.79 | 11.80 | 6.91 | 18.80 | 8.91 | 374 | | | |
| 4125 | 980-C | 5-1/4 CY ARTIC | 270 HP D | 151,143 | 48.60 | 71.78 | 9.15 | 15.62 | 10.98 | 24.56 | 14.16 | 577 | | | |
| 4130 | 988-B | 7 CY ARTIC | 375 HP D | 227,842 | 72.07 | 107.24 | 13.77 | 23.46 | 15.25 | 36.93 | 19.66 | 888 | | | |
| 4135 | 992-C | 12-1/2 CY ARTIC | 690 HP D | 461,840 | 145.28 | 219.66 | 27.78 | 47.00 | 28.06 | 74.17 | 36.18 | 1908 | | | |
| CLARK | | | | | | | | | | | | | | | |
| 4145 | 35C | 1-1/4 CY | 74 HP D | 43,903 | 13.89 | 20.11 | 2.87 | 5.06 | 3.01 | 8.04 | 3.88 | 171 | | | |
| 4150 | 55-B | 2 CY ARTIC | 114 HP D | 62,078 | 20.38 | 29.54 | 4.05 | 7.12 | 4.64 | 11.30 | 5.98 | 247 | | | |
| 4155 | 75-B | 2-1/2 CY ARTIC | 142 HP D | 83,064 | 27.30 | 40.34 | 5.38 | 9.37 | 5.77 | 14.92 | 7.45 | 303 | | | |
| 4160 | 125B | 3-1/2 CY ARTIC | 212 HP D | 112,534 | 39.15 | 58.70 | 7.23 | 12.45 | 8.62 | 19.91 | 11.12 | 419 | | | |

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) | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | |
| CLARK (CONT'D) | | | | | | | | | | | | | | |
| 4165 | 175-B | 4-1/2 CY ARTIC | 273 HP D | 141,417 | 46.81 | 69.19 | 8.55 | 14.56 | 11.10 | 22.93 | 14.31 | 527 | | |
| 4170 | 275-B | 6-1/2 CY ARTIC | 344 HP D | 198,953 | 63.12 | 93.07 | 12.06 | 20.62 | 13.99 | 32.40 | 18.04 | 739 | | |
| 4175 | 475-B | 12 CY ARTIC | 632 HP D | 386,042 | 123.42 | 185.09 | 23.27 | 39.47 | 25.70 | 62.21 | 33.14 | 1544 | | |
| FIAT-ALLIS | | | | | | | | | | | | | | |
| 4185 | 345-B | 1-3/4 CY ARTIC | 80 HP D | 48,758 | 15.46 | 22.51 | 3.18 | 5.59 | 3.25 | 8.88 | 4.19 | 174 | | |
| 4190 | 545-B | 2 CY ARTIC | 102 HP D | 59,738 | 19.24 | 28.03 | 3.89 | 6.83 | 4.15 | 10.85 | 5.35 | 217 | | |
| 4195 | 605-B | 2-1/2 CY ARTIC | 108 HP D | 63,077 | 20.29 | 29.50 | 4.12 | 7.23 | 4.39 | 11.47 | 5.66 | 238 | | |
| 4200 | 645-B | 3 CY ARTIC | 151 HP D | 82,338 | 27.46 | 40.26 | 5.35 | 9.34 | 6.14 | 14.86 | 7.92 | 286 | | |
| 4205 | 745-C | 4 CY ARTIC | 202 HP D | 109,585 | 37.95 | 57.03 | 7.03 | 12.10 | 8.21 | 19.36 | 10.59 | 418 | | |
| 4210 | 945-B | 6 CY ARTIC | 335 HP D | 195,022 | 63.43 | 95.18 | 11.75 | 19.90 | 13.62 | 31.38 | 17.56 | 708 | | |
| INTERNATIONAL | | | | | | | | | | | | | | |
| 4220 | 515 | 1-3/4 CY | 95 HP D | 44,619 | 15.38 | 22.14 | 2.92 | 5.13 | 3.86 | 8.13 | 4.98 | 161 | | |
| 4225 | H-60E | 2-1/4 CY ARTIC | 104 HP D | 51,217 | 17.40 | 25.15 | 3.34 | 5.87 | 4.23 | 9.31 | 5.45 | 205 | | |
| 4230 | H-90E | 4-1/2 CY ARTIC | 239 HP D | 112,526 | 37.71 | 54.83 | 6.84 | 11.73 | 9.72 | 18.40 | 12.53 | 402 | | |
| 4235 | H-100-C | 5 CY ARTIC | 290 HP D | 125,019 | 44.22 | 65.13 | 7.55 | 12.83 | 11.79 | 20.21 | 15.20 | 487 | | |
| 4240 | 560 | 6-1/2 CY ARTIC | 380 HP D | 187,914 | 62.83 | 92.38 | 11.38 | 19.42 | 15.45 | 30.53 | 19.92 | 796 | | |
| 4245 | H-400-C | 11 CY ARTIC | 580 HP D | 335,452 | 107.88 | 160.53 | 20.26 | 34.48 | 23.58 | 54.29 | 30.41 | 1254 | | |

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) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| TEREX (GM) | | | | | | | | | | | | | | |
| 4255 | 72-31B | 3 CY ARTIC | 160 HP D | 79.034 | 27.27 | 39.88 | 5.13 | 8.95 | 6.51 | 14.24 | 8.39 | 277 | | |
| 4260 | 72-51B | 4 CY ARTIC | 231 HP D | 112.137 | 38.24 | 56.73 | 6.76 | 11.48 | 9.39 | 18.10 | 12.11 | 392 | | |
| 4265 | 72-61 | 5-1/2 CY ARTIC | 307 HP D | 146.627 | 50.45 | 74.98 | 8.84 | 14.99 | 12.48 | 23.62 | 16.10 | 562 | | |
| 4270 | 72-71B | 7-1/2 CY ARTIC | 388 HP D | 203.764 | 66.40 | 97.42 | 12.36 | 21.14 | 15.78 | 33.21 | 20.34 | 846 | | |
| 4275 | 72-81 | 9 CY ARTIC | 434 HP D | 308.587 | 92.13 | 136.33 | 18.73 | 32.07 | 17.65 | 50.36 | 22.75 | 1149 | | |
| YALE | | | | | | | | | | | | | | |
| 4285 | 1500-C | 1-3/4 CY ARTIC | 98 HP D | 45.532 | 15.71 | 22.65 | 2.97 | 5.23 | 3.98 | 8.30 | 5.14 | 166 | | |
| 4290 | 1700-C | 2 CY ARTIC | 136 HP G | 53.948 | 27.97 | 39.28 | 3.51 | 6.16 | 11.94 | 9.79 | 15.56 | 193 | | |
| 4295 | 1900-C | 2-1/4 CY ARTIC | 136 HP D | 56.792 | 20.55 | 29.60 | 3.70 | 6.49 | 5.53 | 10.31 | 7.13 | 203 | | |
| 4300 | 2000-C | 3 CY ARTIC | 165 HP D | 75.695 | 26.84 | 39.19 | 4.91 | 8.56 | 6.71 | 13.62 | 8.65 | 278 | | |
| 4305 | 2500-C | 3-3/4 CY ARTIC | 182 HP D | 96.692 | 33.87 | 51.00 | 6.20 | 10.64 | 7.40 | 17.03 | 9.54 | 369 | | |
| 4310 | 3000-C | 4-1/4 CY ARTIC | 255 HP D | 101.563 | 37.05 | 54.49 | 6.13 | 10.40 | 10.37 | 16.39 | 13.37 | 409 | | |
| 4315 | 5500-C | 5-1/2 CY ARTIC | 320 HP D | 143.785 | 49.38 | 72.13 | 8.71 | 14.90 | 13.01 | 23.41 | 16.78 | 590 | | |
| 4320 | 7500-C | 6-1/2 CY ARTIC | 400 HP D | 193.696 | 66.05 | 97.90 | 11.68 | 19.84 | 16.26 | 31.27 | 20.97 | 778 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CUT | | | | |
|--|---------------|--------------------------------------|--------------------|--------|----------|---------------------|------|--------------|------|------|------|-----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| LOADER-BACKHOE IND. TYPE TRACTOR ***** | | | | | | | | | | | | | | |
| CASE | | | | | | | | | | | | | | |
| 4330 | 580C LDR/BHDE | 7/8 CY FE BUCKET 24° B/H DIPPER | 55 HP D | 31,284 | 9.70 | 13.91 | 2.06 | 3.63 | 2.24 | 5.75 | 2.88 | 114 | | |
| 4335 | 680E LDR/BHDE | 1-1/4 CY FE BUCKET 30° B/H DIPPER | 80 HP D | 45,736 | 14.20 | 20.44 | 3.00 | 5.29 | 3.25 | 8.38 | 4.19 | 152 | | |
| JOHN DEERE | | | | | | | | | | | | | | |
| 4345 | 410 LDR/BHDE | 1 CY FE BUCKET 24° B/H DIPPER | 66 HP D | 32,332 | 10.63 | 15.32 | 2.11 | 3.71 | 2.68 | 5.89 | 3.46 | 137 | | |
| 4350 | 510B LDR/BHDE | 1-1/2 CY FE BUCKET 30° B/H DIPPER | 83 HP D | 48,991 | 15.10 | 21.80 | 3.20 | 5.64 | 3.37 | 8.95 | 4.35 | 205 | | |
| LOADER-BACKHOE CRLR TYPE TRACTOR ***** | | | | | | | | | | | | | | |
| CASE | | | | | | | | | | | | | | |
| 4360 | 350 LDR/BHDE | 3/4 CY FE BUCKET 24° B/H DIPPER | 39 HP D | 38,676 | 12.56 | 17.99 | 2.55 | 4.56 | 1.71 | 7.19 | 2.25 | 141 | | |
| 4365 | 450 LDR/BHDE | 1 CY FE BUCKET 24° B/H DIP | 53 HP D | 48,804 | 16.08 | 23.01 | 3.22 | 5.75 | 2.33 | 9.08 | 3.06 | 167 | | |
| CATERPILLAR | | | | | | | | | | | | | | |
| 4375 | 931 LDR/BHDE | 1 CY FE BUCKET 30° B/H DIPPER | 62 HP D | 46,065 | 15.90 | 22.67 | 3.04 | 5.43 | 2.72 | 8.57 | 3.58 | 187 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT |
|----------|--|--------|--------------------|----------|---------------------|------------|--------|------------|-----|
| | | | CONDITION | STAND-BY | AVERAGE | COND. | SEVERE | COND. | |
| | | | | | AVERAGE | OWNER-SHIP | FUEL | OWNER-SHIP | |
| | LOADER-BACKHOE ATTACHMENT'S ***** HYDRAULICALLY OPERATED IMPACTOR MOUNTED ON BACKHOE BOOM TO FIT CASE AND JOHN DEERE BACKHOES (ADD TO BASIC LOADER-BACKHOE) | | | | | | | | |
| 4385 | IMPACTOR WITH TAMPER TOOL | 9,623 | 3.73 | | 0.78 | 1.68 | 0.00 | | 12 |
| 4390 | IMPACTOR WITH CHISEL TOOL | 9,075 | 3.52 | | 0.73 | 1.58 | 0.00 | | 11 |
| | PILE EXTRACTORS ***** | | | | | | | | |
| | MKT CORPORATION | | | | | | | | |
| 4400 | E2 700 FT-LBS 400CFM A | 11,051 | 4.37 | | 0.90 | 1.93 | 0.00 | | 26 |
| 4405 | E4 1000 FT-LBS 550CFM A | 17,016 | 6.62 | | 1.38 | 2.98 | 0.00 | | 45 |
| | VULCAN | | | | | | | | |
| 4415 | 400A 500 FT-LBS 450CFM A | 13,882 | 5.44 | | 1.13 | 2.43 | 0.00 | | 29 |
| 4420 | 800A 1000 FT-LBS 900CFM A | 18,824 | 7.30 | | 1.53 | 3.29 | 0.00 | | 55 |
| 4425 | 1200A 1640 FT-LBS 1350CFM A | 22,185 | 8.57 | | 1.80 | 3.88 | 0.00 | | 92 |
| | PILE HAMMERS-DIESEL ***** (FUEL NOT INCLUDED) | | | | | | | | |
| | MKT CORPORATION | | | | | | | | |
| 4435 | DE-20B/30B (6-FT) 12,000 FT-LBS | 28,219 | 10.70 | | 2.29 | 4.94 | 0.00 | | 74 |
| 4440 | DE-20B/30B (6-FT) 16,800 FT-LBS | 29,388 | 11.14 | | 2.39 | 5.14 | 0.00 | | 82 |
| 4445 | DE-50B/70B (6-FT) 30,000 FT-LBS | 53,151 | 20.10 | | 4.31 | 9.30 | 0.00 | | 138 |
| 4450 | DE-50B/70B (6-FT) 42,000 FT-LBS | 56,523 | 21.38 | | 4.59 | 9.89 | 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. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| PILE HAMMERS-SINGLE ACTING | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| VULCAN | | | | | | | | | | | | | | |
| 4460 | 1 | 15000 FT-LBS | 750CFM A | 24.054 | 9.28 | | 1.95 | 4.21 | 0.00 | 101 | | | | |
| 4465 | 106 | 19000 FT-LBS | 750CFM A | 30.445 | 11.69 | | 2.47 | 5.33 | 0.00 | 121 | | | | |
| 4470 | 06 | 19500 FT-LBS | 900CFM A | 27.574 | 10.61 | | 2.24 | 4.83 | 0.00 | 121 | | | | |
| 4475 | 08 | 26000 FT-LBS | 1100CFM A | 31.238 | 11.99 | | 2.54 | 5.47 | 0.00 | 178 | | | | |
| 4480 | 010 | 32500 FT-LBS | 1350CFM A | 34.237 | 13.12 | | 2.78 | 5.99 | 0.00 | 198 | | | | |
| 4485 | 014 | 42000 FT-LBS | 1750CFM A | 49.127 | 18.73 | | 3.99 | 8.59 | 0.00 | 283 | | | | |
| 4490 | 016 | 48750 FT-LBS | 1750CFM A | 57.765 | 21.99 | | 4.69 | 10.10 | 0.00 | 320 | | | | |
| 4495 | 020 | 60000 FT-LBS | 2150CFM A | 62.085 | 23.62 | | 5.04 | 10.86 | 0.00 | 425 | | | | |
| 4500 | 030 | 90000 FT-LBS | 2350CFM A | 89.896 | 34.12 | | 7.30 | 15.73 | 0.00 | 550 | | | | |
| PILE HAMMERS-DOUBLE ACTING | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| MKT CORPORATION | | | | | | | | | | | | | | |
| 4510 | 9-B-3 | 8750 FT-LBS | 900CFM A | 20.587 | 7.97 | | 1.67 | 3.60 | 0.00 | 72 | | | | |
| 4515 | 10-B-3 | 13100 FT-LBS | 1200CFM A | 26.635 | 10.25 | | 2.16 | 4.66 | 0.00 | 111 | | | | |
| 4520 | 11-B-3 | 19150 FT-LBS | 1200CFM A | 34.527 | 13.23 | | 2.80 | 6.04 | 0.00 | 138 | | | | |
| 4525 | 5 (SELF STOP) | 1000 FT-LBS | 375CFM A | 7.814 | 3.15 | | 0.64 | 1.37 | 0.00 | 16 | | | | |
| 4530 | 6 (SELF STOP) | 2500 FT-LBS | 600CFM A | 9.451 | 3.76 | | 0.77 | 1.65 | 0.00 | 30 | | | | |
| 4535 | 7 (SELF STOP) | 4150 FT-LBS | 750CFM A | 12.798 | 5.03 | | 1.04 | 2.24 | 0.00 | 49 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CNT | | | |
|--|-----------|-----------------------------------|--------------------|----------|---------------------|--------------|------------|-------|-------|-------|------|-----|
| | | | CONDITION | STAND-BY | AVERAGE COND. | SEVERE COND. | OWNER-SHIP | FUEL | | | | |
| PILE HAMMERS-DOUBLE ACTING (CONT'D) | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | |
| VULCAN | | | | | | | | | | | | |
| 4545 | 50C | 15100 FT-LBS | 1250CFM A | 28.796 | 11.07 | | 2.34 | 5.04 | 0.00 | 127 | | |
| 4550 | 65C | 19200 FT-LBS | 1450CFM A | 33.101 | 12.69 | | 2.69 | 5.79 | 0.00 | 158 | | |
| 4555 | 80C | 24450 FT-LBS | 1750CFM A | 34.109 | 13.06 | | 2.77 | 5.96 | 0.00 | 191 | | |
| 4560 | 100C | 32900 FT-LBS | 2050CFM A | 35.145 | 13.45 | | 2.85 | 6.14 | 0.00 | 232 | | |
| 4565 | 140C | 36000 FT-LBS | 2150CFM A | 46.056 | 17.58 | | 3.74 | 8.06 | 0.00 | 287 | | |
| 4570 | 200C | 50200 FT-LBS | 2550CFM A | 69.318 | 26.36 | | 5.63 | 12.13 | 0.00 | 422 | | |
| 4575 | 400C | 113500 FT-LBS | 5800CFM A | 186.891 | 70.71 | | 15.16 | 32.69 | 0.00 | 850 | | |
| PILE HAMMERS-VIBRATORY | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | |
| MKT CORPORATION | | | | | | | | | | | | |
| 4585 | V5 | WITH POWER PACK | 59 HP D | 47.975 | 21.17 | | 3.89 | 8.39 | 2.40 | 131 | | |
| 4590 | V16 | WITH POWER PACK | 156 HP D | 95.408 | 44.12 | | 7.74 | 16.69 | 6.34 | 225 | | |
| 4595 | V18 | WITH POWER PACK | 248 HP D | 137.690 | 64.85 | | 11.18 | 24.09 | 10.08 | 304 | | |
| PIPELAYER | | | | | | | | | | | | |
| XXXXXX | | | | | | | | | | | | |
| CATERPILLAR | | | | | | | | | | | | |
| 4605 | 561D | 15 FT BOOM, 40,000 LB CAP 105 HP | D | 82.787 | 15.53 | 22.75 | 5.16 | 8.74 | 2.36 | 13.79 | 3.03 | 280 |
| 4610 | 571G | 18 FT BOOM, 60,000 LB CAP 200 HP | D | 139.938 | 26.92 | 39.32 | 8.73 | 14.77 | 4.49 | 23.30 | 5.78 | 500 |
| 4615 | 572G | 18 FT BOOM, 90,000 LB CAP 200 HP | D | 160.208 | 29.97 | 43.91 | 10.00 | 16.92 | 4.49 | 26.67 | 5.78 | 605 |
| 4620 | 583K | 20 FT BOOM, 140,000 LB CAP 300 HP | D | 207.964 | 40.10 | 58.53 | 12.98 | 21.96 | 6.74 | 34.62 | 8.67 | 900 |

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 | |
| | PIPELAYER (CONT'D) ***** | | | | | | | | | |
| | CATERPILLAR (CONT'D) | | | | | | | | | |
| 4625 | 594G 24 FT BOOM, 200,000 LB CAP 410 HP D PUMPS-GROUT ***** G.M. PHILPOTT GROUT UNITS WITH GARDNER-DENVER PUMPS | 296,009 | 56.57 | 82.66 | 18.47 | 31.26 | 9.21 | 49.28 | 11.84 | 1230 |
| 4635 | SSF2-10 W/ (2 EA) FG-A6 6" X 3" X 6" PUMPS UNIT INCLUDES (2)-10 C.F. TANKS, AUTO. WATER METER, FITTINGS, HOSES & SKID MOUNTING CAPACITY: 21 GPM @ 252 PSI TO 60 GPM @ 90 PSI | 600CFM A 20,332 | 6.13 | | | 1.46 | 2.89 | 0.00 | | 64 |
| 4640 | SSF2-20 W/ (2 EA) FD-FS 10" X 3" X 10" PUMPS UNIT INCLUDES (2)-20 C.F. TANKS, AUTO. WATER METER, FITTINGS, HOSES & SKID MOUNTING CAPACITY: 32 GPM AT 700 PSI TO 98 GPM @ 252 PSI | 900CFM A 31,853 | 9.55 | | | 2.28 | 4.52 | 0.00 | | 107 |
| | PUMPS-WATER-FOR CORE DRILLS ***** | | | | | | | | | |
| | LONGYEAR | | | | | | | | | |
| 4650 | 520 RQ 5.7-20 GPM UP TO 600PSI | 10 HP G 4,175 | 2.56 | | | 0.28 | 0.51 | 1.21 | | 7 |
| 4655 | 535 RQ 9.9-35 GPM UP TO 800PSI | 15 HP G 5,342 | 3.63 | | | 0.35 | 0.65 | 1.82 | | 10 |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT |
|--|--|--------|--------------------|--------|---------------------|--------------|-------|------------|------|
| | | | CONDITION | STAND- | AVERAGE COND. | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | BY | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL |
| PUMPS-WATER-CENTRIF.-DEWATERING | | | | | | | | | |
| ***** | | | | | | | | | |
| HOMELITE, SKID MOUNTED | | | | | | | | | |
| 4665 | MOD 110S 1-1/2"-5000 GPH @ 30' H 2 HP G | 343 | 0.41 | | 0.03 | 0.05 | 0.24 | | 1 |
| 4670 | MOD 111S 2" - 9000 GPH @ 22' H 3 HP G | 383 | 0.57 | | 0.03 | 0.05 | 0.36 | | 1 |
| 4675 | MOD 120SP 3" - 18000 GPH @ 20' H 6 HP G | 581 | 1.09 | | 0.04 | 0.07 | 0.73 | | 2 |
| MARLOW, WHEEL MOUNTED | | | | | | | | | |
| 4685 | MOD 4D2 465 GPM @ 20' HEAD 59 HP G | 6,256 | 10.87 | | 0.41 | 0.76 | 7.14 | | 14 |
| 4690 | MOD 4D2 470 GPM @ 20' HEAD 47 HP D | 8,116 | 5.55 | | 0.53 | 0.99 | 2.67 | | 15 |
| 4695 | MOD 6E4A 1095 GPM @ 20' HEAD 117 HP G | 7,475 | 20.41 | | 0.49 | 0.91 | 14.16 | | 18 |
| 4700 | MOD 6E4A 1090 GPM @ 20' HEAD 80 HP D | 11,879 | 8.99 | | 0.78 | 1.45 | 4.54 | | 24 |
| 4705 | MOD 8FA3 2200 GPM @ 20' HEAD 108 HP D | 14,508 | 11.79 | | 0.95 | 1.77 | 6.12 | | 23 |
| 4710 | MOD 1061 2840 GPM @ 20' HEAD 108 HP D | 16,183 | 12.17 | | 1.06 | 1.97 | 6.12 | | 30 |
| PUMPS-WATER-CENTRIF.-TRASH | | | | | | | | | |
| ***** | | | | | | | | | |
| HOMELITE, SKID MOUNTED | | | | | | | | | |
| 4720 | MOD 121TP 2" - 11500 GPH @ 20' H 4 HP G | 548 | 0.76 | | 0.04 | 0.07 | 0.48 | | 2 |
| 4725 | MOD 122TP 3" - 21600 GPH @ 20' H 4 HP G | 752 | 0.81 | | 0.06 | 0.10 | 0.48 | | 3 |
| 4730 | MOD 123TP 4" - 36500 GPH @ 20' H 10 HP G | 1,364 | 1.91 | | 0.09 | 0.16 | 1.21 | | 4 |

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-DIAPHRAGM | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | |
| HOMELITE, SKID MOUNTED | | | | | | | | | | | | |
| 4740 | MOD 111DP 2" - 1900 GPH @ 10' HD | 4 HP G | 643 | 0.78 | | 0.04 | 0.08 | 0.48 | | 2 | | |
| 4745 | MOD 111DP 3" - 4140 GPH @ 10' HD | 4 HP G | 1,438 | 0.97 | | 0.10 | 0.18 | 0.48 | | 3 | | |
| PUMPS-WATER-SUBMERSIBLE | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | |
| HOMELITE | | | | | | | | | | | | |
| 4755 | MOD SP-2 2" - 7400 GPH @ 10' HD | 2 HP E | 700 | 0.28 | | 0.04 | 0.08 | 0.11 | | 1 | | |
| 4760 | MOD SP-3 3" - 19000 GPH @ 15' HD | 5 HP E | 1,257 | 0.61 | | 0.08 | 0.15 | 0.27 | | 2 | | |
| RIPPER & HYDR. BANK SLOPER | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | |
| (DOES NOT INCLUDE COST OF POINT WEAR) | | | | | | | | | | | | |
| ATECO | | | | | | | | | | | | |
| 4770 | VRAR-1 D9H RADIAL LIFT | | 30,637 | 8.48 | 13.08 | 2.19 | 4.35 | 0.00 | 6.91 | 0.00 | 136 | |
| 4775 | D-9H SHANKS EA | | 2,363 | 0.64 | 1.01 | 0.17 | 0.33 | 0.00 | 0.54 | 0.00 | 15 | |
| 4780 | LPAS-DBK PARALLEL LIFT | | 17,447 | 4.85 | 7.47 | 1.25 | 2.48 | 0.00 | 3.93 | 0.00 | 87 | |
| 4785 | D-8K SHANKS EA | | 3,280 | 0.91 | 1.40 | 0.24 | 0.47 | 0.00 | 0.74 | 0.00 | 19 | |
| 4790 | LPAS-B76 PARALLEL LIFT | | 13,835 | 3.85 | 5.94 | 0.99 | 1.96 | 0.00 | 3.12 | 0.00 | 45 | |
| 4795 | D-7G SHANKS EA | | 2,314 | 0.64 | 0.99 | 0.17 | 0.33 | 0.00 | 0.53 | 0.00 | 10 | |
| 4800 | PS D6D RADIAL LIFT | | 6,718 | 1.90 | 2.90 | 0.48 | 0.95 | 0.00 | 1.51 | 0.00 | 24 | |
| 4805 | D-6C SHANKS EA | | 221 | 0.06 | 0.10 | 0.02 | 0.03 | 0.00 | 0.06 | 0.00 | 1 | |
| 4810 | V-LPRF-TB25C PARALLEL LIFT STD SVC | | 15,649 | 4.36 | 6.70 | 1.12 | 2.22 | 0.00 | 3.52 | 0.00 | 89 | |
| 4815 | TD-25C SHANKS EA | | 1,413 | 0.39 | 0.61 | 0.10 | 0.20 | 0.00 | 0.33 | 0.00 | 8 | |

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 | | | | | | |
| RIPPER & HYDR. BANK SLOPER (CONT'D) | | | | | | | | | | | | | | |
| ***** (DOES NOT INCLUDE COST OF POINT WEAR) | | | | | | | | | | | | | | |
| ATECO (CONT'D) | | | | | | | | | | | | | | |
| 4820 | V-LPRF-TD20E PARALLEL LIFT STD SVC | 11,376 | 3.19 | 4.89 | 0.82 | 1.62 | 0.00 | 2.57 | 0.00 | 51 | | | | |
| 4825 | TD-20E SHANKS EA | 1,021 | 0.29 | 0.44 | 0.08 | 0.15 | 0.00 | 0.24 | 0.00 | 4 | | | | |
| 4830 | PS-TD15C RADIAL LIFT | 6,366 | 1.81 | 2.76 | 0.46 | 0.91 | 0.00 | 1.44 | 0.00 | 22 | | | | |
| 4835 | TD-15C SHANKS EA | 221 | 0.06 | 0.10 | 0.02 | 0.03 | 0.00 | 0.06 | 0.00 | 1 | | | | |
| 4840 | V-LPRF 82-50 PARALLEL LIFT STD SVC | 17,641 | 4.91 | 7.55 | 1.27 | 2.51 | 0.00 | 3.97 | 0.00 | 96 | | | | |
| 4845 | 82-50 SHANKS EA | 1,413 | 0.39 | 0.61 | 0.10 | 0.20 | 0.00 | 0.33 | 0.00 | 8 | | | | |
| 4850 | LPRS-82-50 PARALLEL LIFT EXT SVC | 17,119 | 4.76 | 7.33 | 1.22 | 2.43 | 0.00 | 3.86 | 0.00 | 88 | | | | |
| 4855 | 82-50 SHANKS EA | 3,280 | 0.91 | 1.40 | 0.24 | 0.47 | 0.00 | 0.74 | 0.00 | 19 | | | | |
| 4860 | V-LPRF-82-30 PARALLEL LIFT | 15,649 | 4.36 | 6.70 | 1.12 | 2.22 | 0.00 | 3.52 | 0.00 | 89 | | | | |
| 4865 | 82-30 SHANKS EA | 1,413 | 0.39 | 0.61 | 0.10 | 0.20 | 0.00 | 0.33 | 0.00 | 8 | | | | |
| 4870 | D9,D8;82-30,82-50;TD25 HYDR BANK SLOP | 6,656 | 1.57 | 2.32 | 0.44 | 0.81 | 0.00 | 1.27 | 0.00 | 28 | | | | |
| CATERPILLAR | | | | | | | | | | | | | | |
| 4880 | D-10 MULTI-SHANK BEAM | 34,847 | 9.64 | 14.87 | 2.49 | 4.95 | 0.00 | 7.85 | 0.00 | 150 | | | | |
| 4885 | D-10 SHANKS EA | 2,595 | 0.71 | 1.11 | 0.18 | 0.36 | 0.00 | 0.59 | 0.00 | 16 | | | | |
| 4890 | D-10 SINGLE-SHANK BEAM | 37,563 | 10.35 | 15.98 | 2.69 | 5.34 | 0.00 | 8.47 | 0.00 | 165 | | | | |
| 4895 | D-9 MULTI-SHANK BEAM W/HYD-CONTROL | 27,436 | 7.61 | 11.71 | 1.97 | 3.90 | 0.00 | 6.18 | 0.00 | 132 | | | | |
| 4900 | D-9 SHANKS EA | 1,363 | 0.38 | 0.58 | 0.10 | 0.20 | 0.00 | 0.31 | 0.00 | 8 | | | | |
| 4905 | D-9 SINGLE-SHANK BEAM HYD-CNTL & SHANK | 25,543 | 7.08 | 10.92 | 1.83 | 3.63 | 0.00 | 5.76 | 0.00 | 124 | | | | |
| 4910 | D-8 MULTI-SHANK BEAM HYD-CONTROL | 19,427 | 5.40 | 8.31 | 1.39 | 2.76 | 0.00 | 4.38 | 0.00 | 103 | | | | |

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 | | | | | |
| RIPPER & HYDR. BANK SLOPER (CONT'D) | | | | | | | | | | | | | | |
| ***** (DOES NOT INCLUDE COST OF POINT WEAR) | | | | | | | | | | | | | | |
| CATERPILLAR (CONT'D) | | | | | | | | | | | | | | |
| 4915 | D-8 SHANKS EA | 1,304 | 0.35 | 0.55 | 0.09 | 0.18 | 0.00 | 0.29 | 0.00 | 7 | | | | |
| 4920 | D-8 SINGLE-SHANK BEAM HYD-CNTL&SHANK | 18,874 | 5.26 | 8.08 | 1.36 | 2.69 | 0.00 | 4.26 | 0.00 | 100 | | | | |
| 4925 | D-7 MULTI-SHANK BEAM HYD-CONTROL | 11,225 | 3.15 | 4.82 | 0.81 | 1.60 | 0.00 | 2.53 | 0.00 | 53 | | | | |
| 4930 | D-7 SHANKS EA | 681 | 0.18 | 0.30 | 0.05 | 0.09 | 0.00 | 0.16 | 0.00 | 4 | | | | |
| 4935 | D-6 MULTI-SHANK BEAM HYD-CONTROL | 6,995 | 1.98 | 3.03 | 0.51 | 1.00 | 0.00 | 1.58 | 0.00 | 27 | | | | |
| 4940 | D-6 SHANKS EA | 350 | 0.10 | 0.15 | 0.03 | 0.05 | 0.00 | 0.08 | 0.00 | 2 | | | | |
| 4945 | D-4 MULTI-SHANK BEAM HYD-CONTROL | 4,275 | 1.23 | 1.87 | 0.31 | 0.61 | 0.00 | 0.97 | 0.00 | 14 | | | | |
| 4950 | D-4 SHANKS EA | 184 | 0.05 | 0.08 | 0.02 | 0.03 | 0.00 | 0.04 | 0.00 | 1 | | | | |
| 4955 | D-3 FIVE-SHANK BEAM HYD-CONTROL | 1,908 | 0.57 | 0.87 | 0.14 | 0.27 | 0.00 | 0.44 | 0.00 | 6 | | | | |
| 4960 | D-3 SHANKS EA | 106 | 0.03 | 0.05 | 0.01 | 0.02 | 0.00 | 0.03 | 0.00 | 1 | | | | |
| FIAT-ALLIS | | | | | | | | | | | | | | |
| 4970 | 41-R W/HYD-CNTL AND 2 SHANKS | 39,532 | 10.94 | 16.85 | 2.83 | 5.62 | 0.00 | 8.90 | 0.00 | 204 | | | | |
| 4975 | 31-R W/HYD-CNTL AND 2 SHANKS | 31,995 | 8.86 | 13.66 | 2.29 | 4.55 | 0.00 | 7.21 | 0.00 | 188 | | | | |
| 4980 | 21-R W/HYD-CNTL AND 2 SHANKS | 20,522 | 5.70 | 8.78 | 1.47 | 2.92 | 0.00 | 4.63 | 0.00 | 108 | | | | |
| 4985 | 16-R W/HYD-CNTL AND 2 SHANKS | 12,922 | 3.61 | 5.54 | 0.93 | 1.84 | 0.00 | 2.91 | 0.00 | 73 | | | | |

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 | | | | | | |
| | ROLLERS-RUBBER-TIRED-SELF PROPELLED ***** | | | | | | | | | |
| | INGRAM | | | | | | | | | |
| 4995 | 9-2800-P | 12 TON | 107 HP G | 20,433 | 16.65 | 1.33 | 2.45 | 9.39 | 77 | |
| 5000 | 9-2800-PA | 12 TON | 76 HP D | 25,117 | 9.97 | 1.64 | 3.02 | 3.09 | 89 | |
| 5005 | 11-2700 | 15 TON | 107 HP G | 24,351 | 17.61 | 1.58 | 2.91 | 9.39 | 89 | |
| 5010 | 11-2700 | 15 TON | 76 HP D | 26,745 | 10.37 | 1.74 | 3.20 | 3.09 | 91 | |
| 5015 | 13-2300 | 15 TON | 107 HP G | 24,857 | 17.75 | 1.61 | 2.96 | 9.39 | 94 | |
| 5020 | 13-2300 | 15 TON | 76 HP D | 27,932 | 10.69 | 1.82 | 3.34 | 3.09 | 96 | |
| 5025 | 9-6000 | 27 TON | 117 HP D | 59,639 | 20.64 | 3.85 | 7.04 | 4.76 | 208 | |
| 5030 | 7-10000 | 35 TON | 148 HP D | 64,735 | 23.64 | 4.15 | 7.52 | 6.02 | 241 | |
| | ROLLER-RUBBER TIRED-TOWED ***** | | | | | | | | | |
| 5040 | FERGUSON RT-100S | 50 TON | | 39,058 | 9.62 | 2.43 | 4.24 | 0.00 | 200 | |
| 5045 | FERGUSON RT-120S | 60 TON | | 45,501 | 11.18 | 2.86 | 5.03 | 0.00 | 233 | |
| 5050 | SOUTHWEST C 75 | 75 TON | | 53,291 | 13.13 | 3.33 | 5.82 | 0.00 | 347 | |
| 5055 | SOUTHWEST C 50 | 50 TON | | 50,511 | 12.45 | 3.16 | 5.54 | 0.00 | 309 | |

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-SHEEPS FOOT-DOUBLE DRUM ***** | | | | | | | | | | | | |
| FERGUSON-TOWED | | | | | | | | | | | | |
| 5065 | MOD 112 | 40"X48" | 8,200 | 2.08 | 0.54 | 1.00 | 0.00 | | 65 | | | |
| 5070 | MOD 112W-48 | 48"X48" | 10,595 | 2.66 | 0.70 | 1.30 | 0.00 | | 105 | | | |
| 5075 | MOD 120 | 60"X60" | 16,286 | 4.03 | 1.07 | 1.99 | 0.00 | | 157 | | | |
| 5080 | MOD 120 MODIFIED | 60"X60" | 30,905 | 7.56 | 2.03 | 3.78 | 0.00 | | 230 | | | |
| 5085 | MOD 120-RE | 60"X60" | 37,322 | 9.11 | 2.46 | 4.57 | 0.00 | | 327 | | | |
| 5090 | MOD 22 | 60"X72" | 22,568 | 5.55 | 1.49 | 2.76 | 0.00 | | 215 | | | |
| 5095 | MOD 22 MODIFIED | 60"X72" | 35,769 | 8.74 | 2.36 | 4.38 | 0.00 | | 269 | | | |
| 5100 | MOD 144-RE | 60"X72" | 43,561 | 10.61 | 2.86 | 5.33 | 0.00 | | 385 | | | |
| CATERPILLER-SELF PROPELLED | | | | | | | | | | | | |
| 5110 | 815 | 40.5"X38" | 170 HP D | 89,752 | 30.24 | 5.91 | 10.99 | 6.91 | 360 | | | |
| 5115 | 825C | 51"X41.5" | 300 HP D | 160,625 | 53.90 | 10.56 | 19.66 | 12.20 | 631 | | | |
| 5120 | 825C | W/S BLADE | 300 HP D | 169,288 | 55.99 | 11.13 | 20.71 | 12.20 | 683 | | | |
| HYSTER-SELF PROPELLED | | | | | | | | | | | | |
| 5130 | C455-B | TANDEM | 60"X72" ARTIC | 330 HP D | 161,745 | 55.68 | 10.63 | 19.79 | 13.42 | 523 | | |

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 | | |
| | ROLLER-SMOOTH WHEEL-SELF PROPELLED ***** | | | | | | | | |
| | INGRAM | | | | | | | | |
| 5140 | 8 TON 3 WHEEL 3" OVERLAP 107 HP G | 30,260 | 18.95 | | 1.99 | 3.71 | 9.39 | | 124 |
| 5145 | 8 TON 3 WHEEL 3" OVERLAP 76 HP D | 33,337 | 11.88 | | 2.19 | 4.08 | 3.09 | | 126 |
| 5150 | 12 TON 3 WHEEL 3" OVERLAP 107 HP G | 37,081 | 20.59 | | 2.44 | 4.54 | 9.39 | | 203 |
| 5155 | 12 TON 3 WHEEL 3" OVERLAP 86 HP D | 40,157 | 14.03 | | 2.64 | 4.91 | 3.50 | | 205 |
| 5160 | 14 TON 3 WHEEL 3" OVERLAP 107 HP G | 39,342 | 21.13 | | 2.58 | 4.81 | 9.39 | | 241 |
| 5165 | 14 TON 3 WHEEL 3" OVERLAP 86 HP D | 42,417 | 14.58 | | 2.79 | 5.19 | 3.50 | | 243 |
| 5170 | 4-6 TON 2 WHEEL TANDEM 53 HP G | 18,606 | 10.26 | | 1.22 | 2.28 | 4.65 | | 82 |
| 5175 | 6-9 TON 2 WHEEL TANDEM 107 HP G | 25,215 | 17.72 | | 1.66 | 3.08 | 9.39 | | 133 |
| 5180 | 6-9 TON 2 WHEEL TANDEM 76 HP D | 28,292 | 10.67 | | 1.87 | 3.47 | 3.09 | | 135 |
| 5185 | 8-12 TON 2 WHEEL TANDEM 107 HP G | 30,581 | 19.02 | | 2.01 | 3.74 | 9.39 | | 171 |
| 5190 | 8-12 TON 2 WHEEL TANDEM 76 HP D | 33,658 | 11.96 | | 2.22 | 4.12 | 3.09 | | 173 |
| 5195 | 10-14 TON 2 WHEEL TANDEM 107 HP G | 33,426 | 19.71 | | 2.20 | 4.09 | 9.39 | | 258 |
| 5200 | 10-14 TON 2 WHEEL TANDEM 76 HP D | 36,521 | 12.65 | | 2.40 | 4.47 | 3.09 | | 262 |

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 \$\$\$\$\$\$\$\$\$\$\$\$\$\$ TF=ROLLER W/TAMPING FEET | | | | | | | | | | | | | | | | | |
| TOWED | | | | | | | | | | | | | | | | | |
| 5210 | FERGUSON 652 TF 60"X60" 9 TON 49 HP D | 28,505 | 13.45 | | 2.03 | 3.88 | 2.78 | | 125 | | | | | | | | |
| 5215 | SOUTHWEST 756 TF 66"X78" 20 TON 75 HP D | 56,772 | 25.21 | | 4.05 | 7.74 | 4.25 | | 240 | | | | | | | | |
| 5220 | FERGUSON 230 66"X78" 20 TON 66 HP D | 42,767 | 19.66 | | 3.05 | 5.83 | 3.74 | | 234 | | | | | | | | |
| 5225 | FERGUSON 230 TF 66 HP D | 46,536 | 20.99 | | 3.32 | 6.35 | 3.74 | | 266 | | | | | | | | |
| 5230 | HYSTER C200B 48"X60" 12.5 TON 36 HP D | 22,689 | 10.50 | | 1.62 | 3.10 | 2.04 | | 87 | | | | | | | | |
| 5235 | HYSTER C210A TF 58"X60" 14 TON 39 HP D | 26,613 | 12.09 | | 1.90 | 3.63 | 2.21 | | 100 | | | | | | | | |
| SELF PROPELLED SINGLE DRUM | | | | | | | | | | | | | | | | | |
| 5245 | VIBRO PLUS CA-25 60"X84" 23 TON 125 HP D | 51,490 | 26.91 | | 3.64 | 6.90 | 7.09 | | 198 | | | | | | | | |
| 5250 | VIBRO PLUS CA-25S 61"X84" 28 TON 125 HP D | 54,689 | 28.04 | | 3.87 | 7.34 | 7.09 | | 203 | | | | | | | | |
| 5255 | VIBRO PLUS CA-25PD 60"X48" 30 TON 125 HP D | 63,115 | 31.00 | | 4.47 | 8.49 | 7.09 | | 240 | | | | | | | | |
| 5260 | RAYBO RASCAL 400A 59"X84" ARTIC 88 HP D | 56,452 | 26.06 | | 4.00 | 7.60 | 4.99 | | 197 | | | | | | | | |
| 5265 | RAYBO RASCAL 600A 60"X100" 119 HP D | 69,927 | 32.99 | | 4.95 | 9.40 | 6.75 | | 288 | | | | | | | | |
| 5270 | I-RAND SP-60 60"X100" 210 HP D | 111,122 | 53.94 | | 7.82 | 14.76 | 11.91 | | 450 | | | | | | | | |
| 5275 | I-RAND SPF-54 TF 54"X85" 120 HP D | 65,090 | 31.33 | | 4.62 | 8.79 | 6.81 | | 264 | | | | | | | | |
| 5280 | FERGUSON SP 750 120 HP D | 55,503 | 27.97 | | 3.93 | 7.46 | 6.81 | | 179 | | | | | | | | |
| 5285 | FERGUSON SP 75DT TF 120 HP D | 63,426 | 30.76 | | 4.50 | 8.53 | 6.81 | | 217 | | | | | | | | |
| 5290 | FERGUSON SP 230D 148 HP D | 65,702 | 33.51 | | 4.66 | 8.85 | 8.39 | | 302 | | | | | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CMT | | | | |
|---|-----------|-------|--------------------|----------------|----------|---------------------|--------|--------------|-------|-------|-------|-------|------|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| SCRAPERS-SELF PROPELLED ***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT) | | | | | | | | | | | | | | |
| CATERPILLAR | | | | | | | | | | | | | | |
| 5300 | 613-B | 13 T | 11 CY P.S. | 150 HP D | 87,507 | 31.62 | 44.62 | 5.61 | 10.15 | 6.26 | 15.96 | 8.19 | 311 | |
| 5305 | 621-B | 24 T | 14-20 CY P.S. | 330 HP D | 174,188 | 58.07 | 86.13 | 11.13 | 20.04 | 12.36 | 31.57 | 16.24 | 640 | |
| 5310 | 623-B | 25 T | 22 CY P.S. | 330 HP D | 194,019 | 66.33 | 94.14 | 12.44 | 22.47 | 13.77 | 35.34 | 18.01 | 702 | |
| 5315 | 627-B | 24 T | 14-20 CY P.S. | 225/225 HP D/D | 203,938 | 76.07 | 107.06 | 13.08 | 23.68 | 17.82 | 37.22 | 23.11 | 715 | |
| 5320 | 627-B PP | 24 T | 14-20 CY P.S. | 225/225 HP D/D | 216,807 | 78.84 | 111.11 | 13.94 | 25.26 | 17.82 | 39.67 | 23.11 | 757 | |
| 5325 | 631-D | 37.5T | 21-31 CY P.S. | 450 HP D | 266,423 | 86.03 | 127.87 | 17.04 | 30.71 | 16.85 | 48.34 | 22.15 | 876 | |
| 5330 | 633-D | 37.5T | 34 CY P.S. | 450 HP D | 304,189 | 100.00 | 142.31 | 19.52 | 35.33 | 18.78 | 55.52 | 24.56 | 996 | |
| 5335 | 637-D | 37.5T | 21-31 CY P.S. | 450/255 HP D/D | 327,864 | 120.20 | 169.27 | 21.08 | 38.23 | 27.91 | 60.03 | 36.21 | 983 | |
| 5340 | 637-D PP | 37.5T | 21-31 CY P.S. | 450/255 HP D/D | 342,242 | 123.28 | 173.78 | 22.02 | 39.98 | 27.91 | 62.76 | 36.21 | 1018 | |
| 5345 | 641-B | 47 T | 28-38 CY P.S. | 550 HP D | 332,088 | 107.27 | 159.90 | 21.21 | 38.14 | 20.60 | 60.08 | 27.07 | 1155 | |
| 5350 | 651-B | 52 T | 32-44 CY P.S. | 550 HP D | 345,953 | 110.25 | 164.25 | 22.12 | 39.84 | 20.60 | 62.71 | 27.07 | 1179 | |
| 5355 | 657-B | 52 T | 32-44 CY P.S. | 550/400 HP D/D | 427,257 | 164.56 | 231.57 | 27.27 | 49.01 | 37.61 | 77.21 | 48.79 | 1408 | |
| CLARK | | | | | | | | | | | | | | |
| 5365 | 110-11B | 13 T | 11 CY P.S. | 174 HP D | 93,280 | 34.93 | 49.24 | 5.96 | 10.73 | 7.26 | 16.90 | 9.50 | 345 | |
| 5370 | 110-15 | 18 T | 15 CY P.S. | 232 HP D | 123,538 | 43.67 | 61.87 | 7.91 | 14.25 | 9.68 | 22.42 | 12.66 | 456 | |
| 5375 | 110-TB | 19 T | 16 CY P.S. | 140/140 HP D/D | 164,076 | 58.40 | 82.57 | 10.55 | 19.11 | 11.68 | 30.01 | 15.28 | 521 | |
| 5380 | 210-HB | 26.5T | 23 CY P.S. | 324 HP D | 197,072 | 66.68 | 94.71 | 12.63 | 22.84 | 13.52 | 35.92 | 17.68 | 710 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|---|-----------|-----------------------------------|--------------------|--------|----------|---------------------|-------|--------------|-------|-------|-----|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| SCRAPERS-SELF PROPELLED (CONT'D) ***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT) | | | | | | | | | | | | | | |
| FIAT-ALLIS | | | | | | | | | | | | | | |
| 5390 | 161 | 18.7 T 15 CY P.S. 229 HP D | 127,706 | 47.54 | 67.09 | 8.14 | 14.63 | 9.56 | 23.07 | 12.50 | 448 | | | |
| 5395 | 260B | 25 T 15-21 CY P.S. 325 HP D | 175,444 | 58.11 | 86.21 | 11.22 | 20.20 | 12.17 | 31.80 | 16.00 | 586 | | | |
| 5400 | 261B | 26.5T 23 CY P.S. 325 HP D/D | 202,491 | 67.94 | 96.54 | 13.00 | 23.51 | 13.56 | 36.95 | 17.74 | 639 | | | |
| 5405 | 262B | 25 T 15-21 CY P.S. 325/171 HP D/D | 207,104 | 75.68 | 109.25 | 13.29 | 24.07 | 18.58 | 37.82 | 24.41 | 681 | | | |
| 5410 | 263-B | 26.5 T 23 CY P.S. 325/171 HP D/D | 236,757 | 90.75 | 127.80 | 15.16 | 27.35 | 20.70 | 43.03 | 27.07 | 744 | | | |
| INTERNATIONAL | | | | | | | | | | | | | | |
| 5420 | 412 | 13 T 11 CY P.S. 150 HP D | 83,573 | 31.09 | 43.87 | 5.34 | 9.59 | 6.26 | 15.11 | 8.19 | 308 | | | |
| 5425 | 431B | 24 T 14-21 CY P.S. 326 HP D | 161,777 | 55.23 | 81.98 | 10.32 | 18.53 | 12.21 | 29.20 | 16.05 | 594 | | | |
| 5430 | 433B | 24 T 14-21 CY P.S. 126/185 HP D/D | 189,673 | 66.13 | 93.65 | 12.15 | 21.94 | 12.31 | 34.51 | 15.97 | 690 | | | |
| 5435 | 442B | 25 T 22 CY P.S. 326 HP D | 184,055 | 63.90 | 90.65 | 11.78 | 21.25 | 13.60 | 33.44 | 17.79 | 680 | | | |
| 5440 | 444B | 25 T 22 CY P.S. 326/185 HP D/D | 217,645 | 85.75 | 120.46 | 13.95 | 25.21 | 21.32 | 39.65 | 27.89 | 805 | | | |
| JOHN DEERE | | | | | | | | | | | | | | |
| 5450 | JD762 | 13.7 T 11 CY P.S. 175 HP D | 94,334 | 35.00 | 49.34 | 6.04 | 10.90 | 7.30 | 17.15 | 9.55 | 345 | | | |
| 5455 | JD860-B | 18.7 T 15 CY P.S. 215 HP D | 121,669 | 42.09 | 59.72 | 7.79 | 14.07 | 8.97 | 22.14 | 11.73 | 451 | | | |
| TEREX (GM) | | | | | | | | | | | | | | |
| 5465 | S-23E | 26.5T 23 CY P.S. 310 HP D | 180,946 | 63.28 | 89.87 | 11.54 | 20.70 | 12.94 | 32.63 | 16.92 | 655 | | | |
| 5470 | S-24B | 40 T 24-34 CY P.S. 475 HP D | 281,251 | 91.06 | 135.51 | 17.98 | 32.36 | 17.79 | 50.95 | 23.38 | 931 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | STAND-BY | ADJUSTABLE ELEMENTS | | | | CNT | | |
|----------|---|---------|--------------------|--------|----------|---------------------|--------|------------|-------|------|--|--|
| | | | CONDITION | | | AVERAGE | SEVERE | OWNER-SHIP | FUEL | | | |
| | | | AVERAGE | SEVERE | | | | | | | | |
| | SCRAPERS-SELF PROPELLED (CONT'D) ***** (CAPACITY AS RECOMMENDED BY MFGR HP & FUEL LISTED TRACTOR/SCRAPER PP = PUSH PULL ATTACHMENT) | | | | | | | | | | | |
| | TEREX (GM) (CONT'D) | | | | | | | | | | | |
| 5475 | TS-14B 23.5T 14-20 CY P.S. 144/144 HP D/D | 174,355 | 61.14 | 86.57 | 11.16 | 20.14 | 11.40 | 31.68 | 14.79 | 528 | | |
| 5480 | TS-18 30 T 18-24 CY P.S. 295/225 HP D/D | 236,113 | 89.23 | 125.60 | 15.11 | 27.27 | 20.59 | 42.91 | 26.71 | 720 | | |
| 5485 | TS-24 40 T 24-32 CY P.S. 394/225 HP D/D | 318,904 | 116.11 | 163.87 | 20.42 | 36.87 | 24.51 | 57.99 | 31.79 | 932 | | |
| 5490 | TS-24B 52 T 24-34 CY P.S. 475/242 HP D/D | 345,497 | 125.86 | 177.37 | 22.20 | 40.23 | 28.39 | 63.18 | 36.83 | 1050 | | |
| | WABCO | | | | | | | | | | | |
| 5500 | 1016 13 T 11 CY P.S. 161 HP D | 87,551 | 33.13 | 46.77 | 5.57 | 9.96 | 6.72 | 15.73 | 8.79 | 317 | | |
| 5505 | 222H 25 T 22 CY P.S. 332 HP D | 187,481 | 65.85 | 93.46 | 11.96 | 21.49 | 13.85 | 33.87 | 18.12 | 648 | | |
| 5510 | 229H 25 T 15-21 CY P.S. 332 HP D | 164,351 | 56.75 | 84.66 | 10.44 | 18.66 | 12.43 | 29.47 | 16.34 | 594 | | |
| 5515 | 252FT 32 T 27 CY P.S. 332/332 HP D/D | 306,911 | 117.07 | 164.73 | 19.70 | 35.67 | 27.71 | 56.04 | 36.23 | 1017 | | |
| 5520 | 333F 38 T 32 CY P.S. 467 HP D | 272,237 | 93.58 | 132.82 | 17.43 | 31.46 | 19.49 | 49.50 | 25.48 | 1020 | | |
| 5525 | 339F 41 T 25-34 CY P.S. 467 HP D | 262,630 | 85.85 | 127.37 | 16.80 | 30.29 | 17.49 | 47.68 | 22.99 | 937 | | |
| 5530 | 353FT 43 T 36 CY P.S. 493/473 HP D/D | 431,139 | 170.75 | 240.13 | 27.53 | 49.51 | 40.31 | 77.99 | 52.71 | 1355 | | |
| | SCRAPER-TRACTOR DRAWN ***** | | | | | | | | | | | |
| 5540 | RONE 18T 12-17CY HYDR/CONTROL | 49,128 | 10.48 | 15.27 | 2.92 | 4.88 | 0.00 | 7.75 | 0.00 | 235 | | |
| 5545 | RONE 27T 18-26CY HYDR/CONTROL | 68,967 | 14.92 | 21.78 | 4.08 | 6.76 | 0.00 | 10.76 | 0.00 | 365 | | |
| 5550 | SOUTHWEST DS18 DRAG SCRAPER 8.8 CY | 28,501 | 6.06 | 8.84 | 1.69 | 2.83 | 0.00 | 4.51 | 0.00 | 137 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | |
|----------|--------------------------------------|----------|--------------------|--------|---------------------|---------------|-------|--------------|-------|-------|-----|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | TRACTOR - CRAWLERS XXXXXXXXXXXXXX | | | | | | | | | | |
| | CATERPILLAR | | | | | | | | | | |
| 5560 | D3 P.S. | 62 HP D | 26,211 | 9.70 | 13.85 | 1.73 | 2.97 | 2.72 | 4.75 | 3.58 | 119 |
| 5565 | 3P POWER ANGLE & POWER TILT | | 5,701 | 1.31 | 1.94 | 0.38 | 0.70 | 0.00 | 1.09 | 0.00 | 24 |
| 5570 | D4-E D.B. | 75 HP D | 40,826 | 13.87 | 19.92 | 2.70 | 4.63 | 3.29 | 7.40 | 4.33 | 176 |
| 5575 | 4A ANGLE BLADE HYDRAULIC | | 7,590 | 1.79 | 2.63 | 0.50 | 0.93 | 0.00 | 1.44 | 0.00 | 30 |
| 5580 | 4S STRAIGHT BLADE HYDRAULIC | | 5,939 | 1.41 | 2.08 | 0.39 | 0.73 | 0.00 | 1.14 | 0.00 | 25 |
| 5585 | D5-B P.S. | 105 HP D | 61,876 | 20.52 | 29.55 | 4.10 | 7.02 | 4.61 | 11.23 | 6.07 | 269 |
| 5590 | 5A ANGLE BLADE HYDRAULIC | | 9,175 | 2.15 | 3.18 | 0.60 | 1.12 | 0.00 | 1.75 | 0.00 | 41 |
| 5595 | 5S STRAIGHT BLADE HYDRAULIC | | 7,235 | 1.70 | 2.51 | 0.48 | 0.88 | 0.00 | 1.38 | 0.00 | 34 |
| 5600 | D6-D P.S. | 140 HP D | 79,751 | 26.71 | 38.43 | 5.28 | 9.04 | 6.14 | 14.47 | 8.09 | 264 |
| 5605 | 6S STRAIGHT BLADE HYDRAULIC | | 9,665 | 2.26 | 3.34 | 0.63 | 1.18 | 0.00 | 1.84 | 0.00 | 47 |
| 5610 | 6A ANGLE BLADE HYDRAULIC | | 10,770 | 2.52 | 3.71 | 0.71 | 1.32 | 0.00 | 2.05 | 0.00 | 51 |
| 5615 | D7-G P.S. | 200 HP D | 109,059 | 37.03 | 53.22 | 7.22 | 12.37 | 8.77 | 19.79 | 11.56 | 373 |
| 5620 | 7S STRAIGHT BLADE HYDRAULIC | | 15,123 | 3.51 | 5.20 | 1.00 | 1.85 | 0.00 | 2.88 | 0.00 | 77 |
| 5625 | 7U HYD. UNIVERSAL BLADE | | 16,546 | 3.84 | 5.68 | 1.09 | 2.03 | 0.00 | 3.15 | 0.00 | 84 |
| 5630 | 7A ANGLE BLADE HYDRAULIC | | 13,212 | 3.08 | 4.54 | 0.87 | 1.62 | 0.00 | 2.51 | 0.00 | 68 |
| 5635 | 8B-K P.S. | 300 HP D | 152,191 | 49.42 | 69.30 | 9.49 | 16.07 | 13.16 | 25.33 | 17.33 | 606 |
| 5640 | 8S STRAIGHT BLADE HYDRAULIC | | 22,127 | 5.12 | 7.58 | 1.46 | 2.71 | 0.00 | 4.21 | 0.00 | 121 |
| 5645 | 8U HYD. UNIVERSAL BLADE | | 24,367 | 5.63 | 8.33 | 1.60 | 2.98 | 0.00 | 4.63 | 0.00 | 133 |
| 5650 | 8A ANGLE BLADE HYDRAULIC | | 18,869 | 4.37 | 6.48 | 1.25 | 2.31 | 0.00 | 3.60 | 0.00 | 116 |
| 5655 | PUSH PLATE USE W/8S | | 569 | 0.13 | 0.20 | 0.04 | 0.07 | 0.00 | 0.11 | 0.00 | 4 |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | | ADJUSTABLE ELEMENTS | | | | CNT | | | | |
|-----------------------------------|-------------------------------|----------|--------------------|--------|----------|---------------|---------------------|--------------|-------|-------|------|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | | |
| TRACTOR - CRAWLER (CONT'D) | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | | |
| CATERPILLAR (CONT'D) | | | | | | | | | | | | | | | |
| 5660 | D9-H P.S. | 410 HP D | 223.575 | 70.93 | 99.60 | 13.95 | 23.61 | 17.99 | 37.22 | 23.69 | 809 | | | | |
| 5665 | 9S STRAIGHT BLADE HYDRAULIC | | 28.691 | 6.62 | 9.81 | 1.89 | 3.51 | 0.00 | 5.46 | 0.00 | 173 | | | | |
| 5670 | 9A ANGLE BLADE HYDRAULIC | | 24.510 | 5.66 | 8.39 | 1.61 | 3.00 | 0.00 | 4.67 | 0.00 | 152 | | | | |
| 5675 | 9U HYD. UNIVERSAL BLADE | | 31.362 | 7.22 | 10.72 | 2.06 | 3.83 | 0.00 | 5.97 | 0.00 | 190 | | | | |
| 5680 | 9C CUSHION BLADE | | 22.032 | 5.09 | 7.54 | 1.45 | 2.69 | 0.00 | 4.19 | 0.00 | 127 | | | | |
| 5685 | REAR CUSHION PUSH BLOCK | | 5.496 | 1.36 | 1.97 | 0.36 | 0.67 | 0.00 | 1.05 | 0.00 | 29 | | | | |
| 5690 | FRONT PUSH PLATE | | 658 | 0.16 | 0.24 | 0.04 | 0.08 | 0.00 | 0.13 | 0.00 | 5 | | | | |
| 5695 | DUAL D9-H P.S. | 820 HP D | 473.828 | 147.63 | 207.55 | 29.57 | 50.05 | 35.97 | 78.88 | 47.38 | 1851 | | | | |
| 5700 | D10 P.S. | 700 HP D | 415.233 | 124.22 | 171.40 | 24.55 | 41.30 | 30.71 | 64.41 | 40.45 | 1478 | | | | |
| 5705 | 10S STRAIGHT BLADE HYDRAULIC | | 45.860 | 10.54 | 15.65 | 3.01 | 5.60 | 0.00 | 8.73 | 0.00 | 286 | | | | |
| 5710 | 10U HYD. UNIVERSAL BLADE | | 50.225 | 11.54 | 17.14 | 3.31 | 6.14 | 0.00 | 9.56 | 0.00 | 283 | | | | |
| 5715 | FRONT PUSH PLATE | | 1.002 | 0.29 | 0.39 | 0.07 | 0.13 | 0.00 | 0.19 | 0.00 | 7 | | | | |
| 5720 | REAR PUSH BLOCK | | 14.178 | 3.30 | 4.88 | 0.94 | 1.74 | 0.00 | 2.70 | 0.00 | 46 | | | | |
| FIAT-ALLIS | | | | | | | | | | | | | | | |
| 5730 | 8 P.S. | 87 HP D | 41.130 | 14.63 | 20.96 | 2.72 | 4.66 | 3.82 | 7.47 | 5.03 | 189 | | | | |
| 5735 | 8-HA ANGLE BLADE HYDRAULIC | | 6.711 | 1.59 | 2.34 | 0.44 | 0.82 | 0.00 | 1.28 | 0.00 | 30 | | | | |
| 5740 | 8-HSU SEMI-U BLADE HYDRAULIC | | 7.009 | 1.66 | 2.44 | 0.46 | 0.86 | 0.00 | 1.34 | 0.00 | 30 | | | | |
| 5745 | 10-B P.S. | 110 HP D | 60.812 | 20.55 | 29.56 | 4.02 | 6.89 | 4.83 | 11.04 | 6.36 | 256 | | | | |
| 5750 | 10-HA ANGLE BLADE HYDRAULIC | | 7.486 | 1.76 | 2.59 | 0.49 | 0.91 | 0.00 | 1.42 | 0.00 | 36 | | | | |
| 5755 | 10-HSU SEMI-U BLADE HYDRAULIC | | 7.883 | 1.85 | 2.73 | 0.52 | 0.96 | 0.00 | 1.50 | 0.00 | 36 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|-----------------------------------|---------------------------------|----------|--------------------|--------|----------|---------------------|-------|--------------|-------|-------|------|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| TRACTOR - CRAWLER (CONT'D) | | | | | | | | | | | | | | |
| FIAT-ALLIS (CONT'D) | | | | | | | | | | | | | | |
| 5760 | 14-C P.S. | 150 HP D | 84,413 | 28.38 | 40.82 | 5.58 | 9.57 | 6.58 | 15.32 | 8.67 | 306 | | | |
| 5765 | 14-HA ANGLE BLADE HYDRAULIC | | 11,436 | 2.67 | 3.94 | 0.76 | 1.40 | 0.00 | 2.18 | 0.00 | 51 | | | |
| 5770 | 14-HSU STRAIGHT BLADE HYDRAULIC | | 11,933 | 2.78 | 4.11 | 0.79 | 1.46 | 0.00 | 2.27 | 0.00 | 51 | | | |
| 5775 | 16-B P.S. | 195 HP D | 111,325 | 37.26 | 53.61 | 7.36 | 12.62 | 8.55 | 20.19 | 11.27 | 453 | | | |
| 5780 | 16-HA ANGLE BLADE HYDRAULIC | | 12,242 | 2.85 | 4.22 | 0.80 | 1.49 | 0.00 | 2.33 | 0.00 | 66 | | | |
| 5785 | 16-HS STRAIGHT BLADE HYDRAULIC | | 12,837 | 2.99 | 4.42 | 0.84 | 1.57 | 0.00 | 2.45 | 0.00 | 66 | | | |
| 5790 | 16-HSU FULL-U BLADE HYDRAULIC | | 14,199 | 3.30 | 4.89 | 0.94 | 1.74 | 0.00 | 2.71 | 0.00 | 81 | | | |
| 5795 | 21-C P.S. | 300 HP D | 164,249 | 52.04 | 73.09 | 10.25 | 17.35 | 13.16 | 27.35 | 17.33 | 636 | | | |
| 5800 | 21HSU HYD. SEMI-UNIVERSAL BLADE | | 22,162 | 5.12 | 7.59 | 1.46 | 2.71 | 0.00 | 4.22 | 0.00 | 127 | | | |
| 5805 | 21-HU FULL-U BLADE HYDRAULIC | | 21,693 | 5.01 | 7.43 | 1.43 | 2.65 | 0.00 | 4.13 | 0.00 | 114 | | | |
| 5810 | 31 P.S. | 425 HP D | 250,655 | 77.60 | 109.16 | 15.64 | 26.47 | 18.64 | 41.72 | 24.56 | 908 | | | |
| 5815 | 31-HSU SEMI-U BLADE HYDRAULIC | | 31,775 | 7.32 | 10.86 | 2.09 | 3.88 | 0.00 | 6.05 | 0.00 | 190 | | | |
| 5820 | 31-HU FULL-U BLADE HYDRAULIC | | 32,977 | 7.60 | 11.26 | 2.17 | 4.03 | 0.00 | 6.27 | 0.00 | 210 | | | |
| 5825 | 31-HC CUSHION BLADE | | 23,461 | 5.42 | 8.04 | 1.54 | 2.87 | 0.00 | 4.47 | 0.00 | 120 | | | |
| 5830 | 41-B P.S. | 524 HP D | 318,910 | 94.68 | 130.69 | 18.85 | 31.72 | 22.99 | 49.48 | 30.28 | 1128 | | | |
| 5835 | 41-HSU SEMI-U BLADE HYDRAULIC | | 37,127 | 8.55 | 12.69 | 2.44 | 4.54 | 0.00 | 7.07 | 0.00 | 222 | | | |
| 5840 | 41-HU FULL-U BLADE HYDRAULIC | | 42,153 | 9.70 | 14.39 | 2.78 | 5.16 | 0.00 | 8.02 | 0.00 | 254 | | | |
| 5845 | 41-HC CUSHION BLADE | | 26,804 | 6.19 | 9.17 | 1.77 | 3.28 | 0.00 | 5.10 | 0.00 | 120 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CMT | | | | |
|-----------------------------------|------------------------------|----------|--------------------|--------|----------|---------------------|-------|--------------|-------|-------|-----|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| TRACTOR - CRAWLER (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| INTERNATIONAL | | | | | | | | | | | | | | |
| 5855 | TD-7-E P. S. W/HYD BLADE | 65 HP D | 36,677 | 12.32 | 17.73 | 2.43 | 4.16 | 2.85 | 6.66 | 3.76 | 139 | | | |
| 5860 | TD-8-E P.S. W/HYD BLADE | 78 HP D | 44,721 | 14.94 | 21.51 | 2.96 | 5.07 | 3.42 | 8.11 | 4.51 | 172 | | | |
| 5865 | TD-15-C P.S. | 140 HP D | 73,465 | 25.25 | 36.24 | 4.86 | 8.33 | 6.14 | 13.32 | 8.09 | 269 | | | |
| 5870 | HYD. SEMI-UNIVERSAL BLADE | | 9,992 | 2.34 | 3.45 | 0.66 | 1.22 | 0.00 | 1.90 | 0.00 | 46 | | | |
| 5875 | ANGLE BLADE HYDRAULIC | | 11,110 | 2.59 | 3.84 | 0.73 | 1.36 | 0.00 | 2.12 | 0.00 | 50 | | | |
| 5880 | TD-20-E P.S. | 210 HP D | 105,765 | 36.83 | 52.82 | 7.00 | 11.99 | 9.21 | 19.19 | 12.13 | 475 | | | |
| 5885 | HYD. SEMI-UNIVERSAL BLADE | | 14,286 | 3.32 | 4.92 | 0.94 | 1.75 | 0.00 | 2.73 | 0.00 | 61 | | | |
| 5890 | ANGLE BLADE HYDRAULIC | | 14,798 | 3.43 | 5.09 | 0.97 | 1.80 | 0.00 | 2.82 | 0.00 | 71 | | | |
| 5895 | TD-25-E P.S. | 310 HP D | 144,828 | 48.38 | 67.74 | 9.04 | 15.30 | 13.60 | 24.12 | 17.91 | 590 | | | |
| 5900 | HYD. SEMI-UNIVERSAL BLADE | | 19,245 | 4.45 | 6.59 | 1.26 | 2.35 | 0.00 | 3.66 | 0.00 | 108 | | | |
| 5905 | ANGLE BLADE HYDRAULIC | | 17,104 | 3.96 | 5.87 | 1.12 | 2.09 | 0.00 | 3.26 | 0.00 | 110 | | | |
| 5910 | FRONT PUSHER CUSHION | | 7,675 | 1.81 | 2.66 | 0.51 | 0.94 | 0.00 | 1.46 | 0.00 | 29 | | | |
| 5915 | REAR PUSHER CUSHION | | 4,122 | 1.04 | 1.51 | 0.27 | 0.50 | 0.00 | 0.79 | 0.00 | 23 | | | |
| 5920 | FRONT PUSH BLOCK /S BLD | | 686 | 0.20 | 0.28 | 0.04 | 0.08 | 0.00 | 0.13 | 0.00 | 12 | | | |
| JOHN DEERE | | | | | | | | | | | | | | |
| 5930 | JD350C/6305 D.D. W/HYD BLADE | 42 HP D | 25,883 | 8.46 | 12.22 | 1.71 | 2.93 | 1.84 | 4.70 | 2.43 | 102 | | | |
| 5935 | JD450C/6405 D.D. W/HYD BLADE | 65 HP D | 37,232 | 12.46 | 17.92 | 2.47 | 4.23 | 2.85 | 6.76 | 3.76 | 143 | | | |
| 5940 | JD550/6405 P.S. W/HYD BLADE | 72 HP D | 44,452 | 14.54 | 20.96 | 2.94 | 5.04 | 3.16 | 8.07 | 4.16 | 169 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|-------------------------------------|---------------------------|----------|--------------------|--------|----------|---------------------|-------|--------------|-------|-------|-----|--|--|--|
| | | | CONDITION | | STAND BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| TRACTOR - CRAWLER (CONT'D) | | | | | | | | | | | | | | |
| \$3333333333333333333333 | | | | | | | | | | | | | | |
| TEREX (GM) | | | | | | | | | | | | | | |
| 5950 | 82-20B P.S. | 205 HP D | 109.176 | 37.34 | 53.62 | 7.22 | 12.38 | 8.99 | 19.81 | 11.84 | 372 | | | |
| 5955 | STRAIGHT BLADE HYDRAULIC | | 10.923 | 2.49 | 3.72 | 0.72 | 1.33 | 0.00 | 2.08 | 0.00 | 58 | | | |
| 5960 | ANGLE BLADE HYDRAULIC | | 11.812 | 2.70 | 4.02 | 0.77 | 1.44 | 0.00 | 2.25 | 0.00 | 59 | | | |
| 5965 | HYD. UNIVERSAL BLADE | | 11.790 | 2.70 | 4.02 | 0.77 | 1.44 | 0.00 | 2.25 | 0.00 | 57 | | | |
| 5970 | 82-30B P.S. | 260 HP D | 141.406 | 44.90 | 63.05 | 8.83 | 14.94 | 11.41 | 23.54 | 15.02 | 569 | | | |
| 5975 | STRAIGHT BLADE HYDRAULIC | | 15.985 | 3.70 | 5.50 | 1.05 | 1.95 | 0.00 | 3.05 | 0.00 | 91 | | | |
| 5980 | ANGLE BLADE HYDRAULIC | | 17.717 | 4.10 | 6.09 | 1.16 | 2.16 | 0.00 | 3.38 | 0.00 | 93 | | | |
| 5985 | HYD. UNIVERSAL BLADE | | 17.706 | 4.10 | 6.07 | 1.16 | 2.16 | 0.00 | 3.37 | 0.00 | 92 | | | |
| 5990 | REAR CUSHION PUSH BLOCK | | 4.811 | 1.20 | 1.74 | 0.32 | 0.59 | 0.00 | 0.92 | 0.00 | 21 | | | |
| 5995 | 82-50B P.S. | 370 HP D | 205.345 | 64.77 | 91.01 | 12.81 | 21.68 | 16.23 | 34.19 | 21.38 | 762 | | | |
| 6000 | STRAIGHT BLADE | | 20.628 | 4.72 | 7.02 | 1.36 | 2.52 | 0.00 | 3.93 | 0.00 | 118 | | | |
| 6005 | HYD. UNIVERSAL BLADE | | 23.049 | 5.28 | 7.85 | 1.52 | 2.82 | 0.00 | 4.39 | 0.00 | 134 | | | |
| 6010 | ANGLE BLADE HYDRAULIC | | 23.293 | 5.32 | 7.92 | 1.53 | 2.84 | 0.00 | 4.43 | 0.00 | 157 | | | |
| 6015 | PUSH PLATE (WELD ON) | | 842 | 0.19 | 0.30 | 0.06 | 0.10 | 0.00 | 0.17 | 0.00 | 6 | | | |
| 6020 | PUSH BLOCK (CUSHION REAR) | | 4.811 | 1.10 | 1.64 | 0.32 | 0.59 | 0.00 | 0.92 | 0.00 | 21 | | | |

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 - WHEEL TYPE DOZERS | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | |
| CATERPILLAR | | | | | | | | | | | | | |
| 6030 | 814 | ARTICULATED ST BLADE P.S. 170 HP D | 94,027 | 30.70 | 48.35 | 6.01 | 10.73 | 6.91 | 16.94 | 8.91 | 363 | | |
| 6035 | 824-C | ARTICULATED ST BLADE P.S. 300 HP D | 167,047 | 55.24 | 88.37 | 10.61 | 18.84 | 12.20 | 29.82 | 15.73 | 603 | | |
| CLARK | | | | | | | | | | | | | |
| 6045 | 280 | ARTICULATED ST BLADE P.S. 274 HP D | 168,154 | 53.68 | 85.59 | 10.72 | 19.10 | 11.14 | 30.18 | 14.37 | 688 | | |
| 6050 | 380 | ARTICULATED ST BLADE P.S. 473 HP D | 251,890 | 82.33 | 128.06 | 16.14 | 28.97 | 19.23 | 45.66 | 24.80 | 1010 | | |
| TRACTOR - WHEEL TYPE - FARM TYPE | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | |
| JOHN DEERE | | | | | | | | | | | | | |
| 6060 | MOD 20-40 | 40 HP G | 9,856 | 6.87 | 10.26 | 0.61 | 1.06 | 3.51 | 1.69 | 4.58 | 0 | | |
| 6065 | MOD 24-40 | 60 HP G | 14,365 | 9.97 | 14.46 | 0.91 | 1.61 | 5.27 | 2.56 | 6.86 | 0 | | |
| TRENCHER-CHAIN-DITCH WITCH | | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | | |
| 6075 | MOD C99 | 6"X24" TRENCH | 9 HP G | 2,463 | 1.66 | 2.29 | 0.17 | 0.30 | 0.79 | 0.46 | 1.03 | 5 | |
| 6080 | MOD 2200 | 8"X36" TRENCH | 17 HP G | 11,003 | 4.71 | 6.65 | 0.72 | 1.33 | 1.49 | 2.07 | 1.94 | 27 | |
| 6085 | MOD V30 | 10"X36" TRENCH | 30 HP G | 12,146 | 6.49 | 9.03 | 0.79 | 1.46 | 2.63 | 2.29 | 3.43 | 40 | |
| 6090 | MOD 65 | 12"X48" TRENCH | 65 HP D | 24,587 | 9.54 | 13.57 | 1.61 | 2.96 | 2.64 | 4.62 | 3.41 | 72 | |
| 6095 | MOD 100 | 18"X72" TRENCH | 101 HP D | 56,962 | 19.63 | 28.41 | 3.72 | 6.83 | 4.11 | 10.67 | 5.30 | 95 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|---|----------|--------------------|--------|----------|---------------|---------------------|--------------|-------|------|-----|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | |
| | TRENCHER-WHEEL TYPE ***** | | | | | | | | | | | |
| | BARBER-GREEN | | | | | | | | | | | |
| 6105 | MOD TA 56 16"X5'-10" TRENCH | 84 HP D | 76,196 | 23.02 | 33.09 | 5.01 | 9.28 | 3.42 | 14.46 | 4.40 | 275 | |
| 6110 | MOD TA 65 22"X7'-0" TRENCH | 175 HP D | 173,036 | 51.44 | 74.10 | 11.38 | 21.08 | 7.12 | 32.83 | 9.18 | 632 | |
| | CLEVELAND | | | | | | | | | | | |
| 6120 | MOD 247-HD-1 21"X7' TRENCH | 84 HP D | 76,196 | 23.02 | 33.09 | 5.01 | 9.28 | 3.42 | 14.46 | 4.40 | 275 | |
| 6125 | MOD 400W-HD-1 36"X9' TRENCH | 175 HP D | 173,036 | 51.44 | 74.10 | 11.38 | 21.08 | 7.12 | 32.83 | 9.18 | 632 | |
| | TRUCKS - HIGHWAY ***** (CHASSIS ONLY) | | | | | | | | | | | |
| | FORD | | | | | | | | | | | |
| 6140 | F100 4X2 1/2T PKUP 4900 GVW 157 HP G | 5,117 | 6.88 | 9.33 | 0.36 | 0.70 | 4.18 | 1.13 | 5.43 | 37 | | |
| 6145 | F150 4X2 1/2T PKUP 6150 GVW 157 HP G | 5,527 | 7.00 | 9.50 | 0.39 | 0.76 | 4.18 | 1.22 | 5.43 | 38 | | |
| 6150 | F250 4X2 3/4T PKUP 7900 GVW 157 HP G | 6,312 | 7.26 | 9.91 | 0.44 | 0.86 | 4.18 | 1.37 | 5.43 | 39 | | |
| 6155 | F250 4X4 3/4T PKUP 8400 GVW 157 HP G | 7,382 | 7.54 | 10.44 | 0.52 | 1.01 | 4.18 | 1.62 | 5.43 | 44 | | |
| 6160 | F600 2AX 16000 GVW 155 HP G | 9,439 | 13.74 | 18.55 | 0.66 | 1.29 | 8.45 | 2.06 | 10.93 | 51 | | |
| 6165 | F612 2AX 21000 GVW 155 HP G | 9,655 | 13.85 | 18.77 | 0.67 | 1.29 | 8.45 | 2.07 | 10.93 | 53 | | |
| 6170 | F702 2AX 22000 GVW 170 HP G | 11,521 | 15.49 | 21.04 | 0.80 | 1.53 | 9.27 | 2.46 | 11.98 | 59 | | |
| 6175 | F706 2AX 25500 GVW 170 HP G | 11,799 | 15.63 | 21.32 | 0.81 | 1.54 | 9.27 | 2.49 | 11.98 | 62 | | |
| 6180 | L804 2AX 27500 GVW 170 HP G | 13,410 | 16.05 | 21.95 | 0.93 | 1.78 | 9.27 | 2.85 | 11.98 | 66 | | |
| 6185 | L8000 2AX 35000 GVW 175 HP D | 23,604 | 15.80 | 22.58 | 1.65 | 3.22 | 7.29 | 5.13 | 9.58 | 87 | | |
| 6190 | LTS900 3AX 39000 GVW 200 HP D | 25,615 | 18.05 | 26.04 | 1.77 | 3.38 | 8.33 | 5.41 | 10.95 | 102 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|----------------------------------|----------------------|-------------------------|--------------------|--------|---------------------|---------------|------|--------------|------|-------|-----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | |
| TRUCKS - HIGHWAY (CONT'D) | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | |
| (CHASSIS ONLY) | | | | | | | | | | | | | |
| FORD (CONT'D) | | | | | | | | | | | | | |
| 6195 | LTS904 3AX | 46000 GVW 200 HP D | 26.312 | 18.22 | 26.32 | 1.81 | 3.47 | 8.33 | 5.57 | 10.95 | 104 | | |
| 6200 | LTS9000 3AX | 54000 GVW 250 HP D | 41.034 | 24.80 | 36.00 | 2.85 | 5.52 | 10.41 | 8.83 | 13.68 | 135 | | |
| 6205 | LTS9000 3AX | 58000 GVW 250 HP D | 43.043 | 25.31 | 36.79 | 3.00 | 5.82 | 10.41 | 9.29 | 13.68 | 140 | | |
| GMC AND CHEVROLET | | | | | | | | | | | | | |
| 6215 | C10903 4X2 1/2T PKUP | 6000 GVW 140 HP G | 5.726 | 6.44 | 8.80 | 0.40 | 0.79 | 3.72 | 1.26 | 4.84 | 43 | | |
| 6220 | C10906 4X2 | WAGON 6400 GVW 165 HP G | 6.965 | 7.64 | 10.45 | 0.49 | 0.97 | 4.39 | 1.55 | 5.71 | 46 | | |
| 6225 | K10906 4X4 | WAGON 6800 GVW 165 HP G | 8.014 | 7.92 | 10.92 | 0.57 | 1.12 | 4.39 | 1.78 | 5.71 | 50 | | |
| 6230 | C20903 4X2 3/4T PKUP | 7500 GVW 165 HP G | 6.294 | 7.52 | 10.30 | 0.44 | 0.85 | 4.39 | 1.36 | 5.71 | 46 | | |
| 6235 | C20903 4X4 3/4T PKUP | 7500 GVW 165 HP G | 7.503 | 7.86 | 10.87 | 0.53 | 1.03 | 4.39 | 1.64 | 5.71 | 49 | | |
| 6240 | C5D042 2AX | 16000 GVW 160 HP G | 9.632 | 14.27 | 19.35 | 0.66 | 1.27 | 8.72 | 2.04 | 11.28 | 56 | | |
| 6245 | C6D042 2AX | 20000 GVW 160 HP G | 10.753 | 14.56 | 19.80 | 0.74 | 1.43 | 8.72 | 2.29 | 11.28 | 63 | | |
| 6250 | C7D042 2AX | 24000 GVW 188 HP G | 11.079 | 16.66 | 22.53 | 0.77 | 1.48 | 10.25 | 2.37 | 13.25 | 67 | | |
| 6255 | J8C042 2AX | 27500 GVW 220 HP G | 19.227 | 21.17 | 28.97 | 1.34 | 2.60 | 12.00 | 4.15 | 15.51 | 85 | | |
| 6260 | J9C042 2AX | 33900 GVW 242 HP D | 35.812 | 22.62 | 32.40 | 2.51 | 4.91 | 10.08 | 7.83 | 13.25 | 121 | | |
| 6265 | C7D064 3AX | 37000 GVW 200 HP G | 15.634 | 25.93 | 35.08 | 1.08 | 2.06 | 16.23 | 3.30 | 21.01 | 100 | | |
| 6270 | J8C064 3AX | 43000 GVW 220 HP G | 25.392 | 30.75 | 42.17 | 1.75 | 3.38 | 17.85 | 5.42 | 23.12 | 120 | | |
| 6275 | J9C064 3AX | 44900 GVW 242 HP D | 40.202 | 24.14 | 35.09 | 2.79 | 5.41 | 10.08 | 8.65 | 13.25 | 148 | | |
| 6280 | N9E042 2AX | 33900 GVW 242 HP D | 38.304 | 23.27 | 33.39 | 2.69 | 5.27 | 10.08 | 8.39 | 13.25 | 122 | | |
| 6285 | D9K042 2AX | 33900 GVW 289 HP D | 38.734 | 25.89 | 36.86 | 2.72 | 5.33 | 12.04 | 8.49 | 15.82 | 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 | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| TRUCKS - HIGHWAY (CONT'D) | | | | | | | | | | | | | | |
| ***** (CHASSIS ONLY) | | | | | | | | | | | | | | |
| GMC AND CHEVROLET (CONT'D) | | | | | | | | | | | | | | |
| 6290 | N9E064 3AX | 48900 GVW 289 HP D | 43,733 | 27.47 | 39.59 | 3.05 | 5.94 | 12.04 | 9.49 | 15.82 | 154 | | | |
| 6295 | D9K064 3AX | 48900 GVW 289 HP D | 44,120 | 27.52 | 39.64 | 3.09 | 6.01 | 12.04 | 9.60 | 15.82 | 152 | | | |
| INTERNATIONAL | | | | | | | | | | | | | | |
| 6305 | 800 4X4 SCOUT | 6200 GVW 97 HP G | 6,308 | 5.08 | 7.08 | 0.45 | 0.88 | 2.58 | 1.40 | 3.35 | 30 | | | |
| 6310 | 1624 2AX | 20000 GVW 147 HP G | 9,906 | 13.36 | 18.12 | 0.69 | 1.33 | 8.02 | 2.13 | 10.36 | 57 | | | |
| 6315 | 1724 2AX | 20500 GVW 147 HP G | 10,281 | 13.45 | 18.27 | 0.71 | 1.38 | 8.02 | 2.22 | 10.36 | 65 | | | |
| 6320 | 1824 2AX | 23600 GVW 189 HP G | 10,916 | 16.69 | 22.52 | 0.76 | 1.46 | 10.31 | 2.34 | 13.32 | 68 | | | |
| 6325 | 1854 2AX | 23600 GVW 180 HP D | 16,264 | 11.03 | 15.57 | 1.14 | 2.22 | 5.14 | 3.54 | 6.64 | 74 | | | |
| 6330 | 1924 2AX | 25000 GVW 190 HP G | 12,787 | 17.23 | 23.37 | 0.89 | 1.72 | 10.36 | 2.76 | 13.39 | 79 | | | |
| 6335 | 1954 2AX | 27000 GVW 180 HP D | 21,032 | 12.33 | 17.62 | 1.48 | 2.88 | 5.14 | 4.58 | 6.64 | 100 | | | |
| 6340 | F1954 3AX | 43000 GVW 210 HP D | 25,158 | 18.12 | 25.83 | 1.76 | 3.42 | 8.75 | 5.46 | 11.50 | 123 | | | |
| 6345 | F2554 3AX | 43000 GVW 210 HP D | 34,695 | 20.69 | 29.90 | 2.43 | 4.74 | 8.75 | 7.56 | 11.50 | 123 | | | |
| 6350 | F2574 3AX | 50000 GVW 230 HP D | 41,427 | 23.48 | 33.99 | 2.91 | 5.70 | 9.58 | 9.08 | 12.59 | 123 | | | |
| 6355 | F5050 3AX | 52000 GVW 225 HP D | 42,254 | 23.42 | 33.97 | 2.97 | 5.82 | 9.37 | 9.27 | 12.32 | 138 | | | |
| KENWORTH | | | | | | | | | | | | | | |
| 6365 | K100 3AX | 47400 GVW 72800 GCW 290 HP D | 48,779 | 28.81 | 41.67 | 3.41 | 6.66 | 12.08 | 10.63 | 15.87 | 138 | | | |
| 6370 | W900 3AX | 50000 GVW 76800 GCW 290 HP D | 47,695 | 28.53 | 41.23 | 3.34 | 6.51 | 12.08 | 10.38 | 15.87 | 140 | | | |
| 6375 | C500 3AX | 56000 GVW 86000 GCW 290 HP D | 54,478 | 30.27 | 43.95 | 3.83 | 7.48 | 12.08 | 11.92 | 15.87 | 144 | | | |
| 6380 | BRUTE 3AX | 62000 GVW 95300 GCW 290 HP D | 58,726 | 31.37 | 45.63 | 4.13 | 8.09 | 12.08 | 12.87 | 15.87 | 179 | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|--------------------------------------|---|--------|--------------------|--------|----------|---------------------|-------|--------------|-------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| TRUCKS - HIGHWAY (CONT'D) | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| (CHASSIS ONLY) | | | | | | | | | | | | | | |
| PETERBILT | | | | | | | | | | | | | | |
| 6390 | MOD 348 3AX 56000 GVW 250 HP D | 48,950 | 26.75 | 38.92 | 3.43 | 6.68 | 10.41 | 10.65 | 13.68 | 121 | | | | |
| 6395 | MOD 352 3AX 50000 GVW 76800 GCW 350 HP D | 52,501 | 32.94 | 47.28 | 3.69 | 7.21 | 14.58 | 11.48 | 19.16 | 131 | | | | |
| 6400 | MOD 359 3AX 50000 GVW 76800 GCW 350 HP D | 52,533 | 32.94 | 47.30 | 3.69 | 7.21 | 14.58 | 11.49 | 19.16 | 134 | | | | |
| 6405 | MOD 381 3AX 73000 GVW 125000 GCW 350 HP D | 56,404 | 33.94 | 48.85 | 3.97 | 7.77 | 14.58 | 12.37 | 19.16 | 174 | | | | |
| 6410 | MOD 383 3AX 83000 GVW 150000 GCW 350 HP D | 56,605 | 34.00 | 48.92 | 3.98 | 7.80 | 14.58 | 12.41 | 19.16 | 193 | | | | |
| TRUCK ACCESSORIES-TRAILER B/D | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | |
| COOK BROS CHALLENGE | | | | | | | | | | | | | | |
| 6420 | BDS 2511 19CY 25T 80,000 GVW MAX | 23,172 | 5.66 | 8.43 | 1.48 | 2.54 | 0.00 | 4.08 | 0.00 | 120 | | | | |
| 6425 | BDS 2811 23CY 28T 80,000 GVW MAX | 25,269 | 6.16 | 9.16 | 1.62 | 2.78 | 0.00 | 4.45 | 0.00 | 130 | | | | |
| 6430 | BDS-4011 30CY 40T 80,000 GVW MAX | 27,970 | 6.89 | 10.24 | 1.78 | 3.03 | 0.00 | 4.88 | 0.00 | 150 | | | | |
| 6435 | E-400 20CY 40T 100,000 GVW MAX | 36,643 | 8.85 | 13.16 | 2.36 | 4.06 | 0.00 | 6.48 | 0.00 | 170 | | | | |
| 6440 | E-550 37CY 55T OFF-HWY | 57,724 | 14.00 | 20.86 | 3.69 | 6.32 | 0.00 | 10.14 | 0.00 | 370 | | | | |
| 6445 | E-550G 37CY 55T OFF-HWY W/GOOSE NECK | 67,839 | 16.28 | 24.28 | 4.36 | 7.51 | 0.00 | 12.02 | 0.00 | 390 | | | | |
| 6450 | E-700 43CY 70T OFF-HWY | 77,631 | 19.22 | 28.60 | 4.92 | 8.29 | 0.00 | 13.36 | 0.00 | 370 | | | | |
| 6455 | E-700G 43CY 70T OFF-HWY W/GOOSE NECK | 83,766 | 20.60 | 30.68 | 5.31 | 9.01 | 0.00 | 14.50 | 0.00 | 390 | | | | |
| 6460 | DOLLY FOR GOOSE NECK TRAILERS | 16,278 | 4.21 | 6.23 | 1.01 | 1.68 | 0.00 | 2.73 | 0.00 | 80 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | |
|----------|--|--------|--------------------|--------|----------|---------------------|------|--------------|------|-----|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | |
| | TRUCK ACCESSORIES-TRAILER E/D ***** | | | | | | | | | | |
| | COOK BROS CHALLENGE | | | | | | | | | | |
| 6470 | SDS-26-R 20CY 28T 80,000 GVW MAX | 21,118 | 5.22 | 7.77 | 1.35 | 2.29 | 0.00 | 3.69 | 0.00 | 114 | |
| 6475 | SDS-28-R 21CY 28T 80,000 GVW MAX | 21,680 | 5.35 | 7.95 | 1.39 | 2.36 | 0.00 | 3.79 | 0.00 | 120 | |
| | FRUEHAUF | | | | | | | | | | |
| 6485 | DDC-M2-27 20CY 25T 80,000 GVW MAX | 20,656 | 5.10 | 7.58 | 1.32 | 2.25 | 0.00 | 3.61 | 0.00 | 110 | |
| | TRUCK ACCESSORIES - DUMP-REAR ***** | | | | | | | | | | |
| | WILLIAMS W/HOIST | | | | | | | | | | |
| 6495 | SCY 24M TO 26M GVW | 4,307 | 1.34 | 1.99 | 0.31 | 0.61 | 0.00 | 0.97 | 0.00 | 25 | |
| 6500 | AIR GATE 8CY 27M TO 30M GVW | 6,748 | 2.06 | 3.09 | 0.48 | 0.95 | 0.00 | 1.52 | 0.00 | 45 | |
| 6505 | AIR GATE 10CY 36000 & UP GVW | 6,869 | 2.10 | 3.14 | 0.49 | 0.97 | 0.00 | 1.55 | 0.00 | 46 | |
| 6510 | AIR GATE 12CY 36000 & UP GVW | 6,969 | 2.18 | 3.23 | 0.50 | 0.99 | 0.00 | 1.57 | 0.00 | 47 | |
| | TRUCK ACCESSORIES - FLATBEDS ***** | | | | | | | | | | |
| | KNAPHEIDE | | | | | | | | | | |
| 6520 | CT 8' X 12' | 1,223 | 0.40 | | 0.09 | 0.17 | 0.00 | | | 13 | |
| 6525 | CT 8' X 13.5' | 1,412 | 0.46 | | 0.10 | 0.20 | 0.00 | | | 16 | |
| 6530 | CT 8' X 15' | 1,507 | 0.48 | | 0.11 | 0.21 | 0.00 | | | 17 | |
| 6535 | CT 8' X 16' | 1,614 | 0.52 | | 0.12 | 0.23 | 0.00 | | | 19 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | |
|--------------------------------------|------------------|---------------|--------------------|--------|---------------------|---------------|------|--------------|------|-----|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | |
| TRUCK ACCESSORIES-MOIST-ELECT | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | |
| AUTO CRANE | | | | | | | | | | | | |
| 6545 | BACKSAVER SENIOR | CAP 1500# | 2,425 | 0.75 | | 0.18 | 0.35 | 0.00 | | 3 | | |
| 6550 | WORKHORSE | CAP 2500# | 3,033 | 0.91 | | 0.22 | 0.43 | 0.00 | | 6 | | |
| 6555 | MIGHTY WORKHORSE | CAP 4000# | 6,497 | 1.87 | | 0.46 | 0.92 | 0.00 | | 9 | | |
| 6560 | MUSTANG | CAP 4000# | 10,000 | 2.84 | | 0.72 | 1.42 | 0.00 | | 20 | | |
| TRUCK ACCESSORIES-CRANE-HYDR | | | | | | | | | | | | |
| XXXXXXXXXXXXXX | | | | | | | | | | | | |
| NATIONAL CRANE | | | | | | | | | | | | |
| 6570 | SERIES 4 | 7.5T@5'RAD | 27500 GVW | 25,734 | 7.19 | 1.84 | 3.65 | 0.00 | | 80 | | |
| 6575 | SERIES 6 | 10T@5'RAD | 44000 GVW | 31,855 | 8.89 | 2.28 | 4.52 | 0.00 | | 94 | | |
| 6580 | SERIES 8 | 12T@5'RAD | 60000 GVW | 46,278 | 12.88 | 3.32 | 6.57 | 0.00 | | 140 | | |
| PITMAN | | | | | | | | | | | | |
| 6590 | HL-140CD | 2AX 7T@ 4'RAD | 24000 GVW | 14,396 | 4.05 | 1.03 | 2.04 | 0.00 | | 64 | | |
| 6595 | HL-170CD | 2AX 8T@ 4'RAD | 24000 GVW | 18,946 | 5.32 | 1.36 | 2.69 | 0.00 | | 85 | | |
| 6600 | HL-126B-1 | 2AX 12T@5'RAD | 33000 GVW | 39,825 | 11.08 | 2.84 | 5.64 | 0.00 | | 120 | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | CWT | | | | |
|--|--------------------------------|--------|--------------------|--------|----------|---------------------|------|------------|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | ADJUSTABLE ELEMENTS | | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | | | | | |
| TRUCK ACCESSORIES-TRAILERS FB ***** | | | | | | | | | | | | | |
| FRUEHAUF | | | | | | | | | | | | | |
| 6610 | PF-F2-40 40 FT 35 T 2 AX | 9,928 | 2.66 | | 0.61 | 0.93 | 0.00 | | 96 | | | | |
| TRANSPORT | | | | | | | | | | | | | |
| 6620 | PF-BX 36 FT 35 T 2 AX | 13,278 | 3.39 | | 0.83 | 1.32 | 0.00 | | 98 | | | | |
| 6625 | PF-BX 40 FT 35 T 2 AX | 13,418 | 3.43 | | 0.85 | 1.34 | 0.00 | | 104 | | | | |
| TRUCK ACCESSORIES-TRAILERS LOWBOY FB ***** | | | | | | | | | | | | | |
| LOAD KING | | | | | | | | | | | | | |
| 6635 | 302-DR 30T 2AX 41000-49000 GVW | 20,111 | 4.80 | | 1.30 | 2.15 | 0.00 | | 96 | | | | |
| 6640 | 402-DR 40T 2AX 50000-60000 GVW | 26,480 | 6.27 | | 1.71 | 2.83 | 0.00 | | 108 | | | | |
| 6645 | 352-DF 35T 2AX 41000-49000 GVW | 25,029 | 5.88 | | 1.62 | 2.70 | 0.00 | | 112 | | | | |
| 6650 | 402-DF 40T 2AX 50000-60000 GVW | 27,544 | 6.51 | | 1.78 | 2.95 | 0.00 | | 117 | | | | |
| 6655 | 503-DF 50T 3AX 50000-60000 GVW | 33,838 | 8.10 | | 2.18 | 3.58 | 0.00 | | 157 | | | | |
| 6660 | 603-DF 60T 3AX 61000-80000 GVW | 40,144 | 9.57 | | 2.59 | 4.25 | 0.00 | | 180 | | | | |
| 6665 | DOLLY FOR THREE-AXLE TRAILERS | 14,304 | 3.58 | | 0.90 | 1.45 | 0.00 | | 60 | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | STAND-BY | ADJUSTABLE ELEMENTS | | CWT | |
|----------|--|--------|--------------------|--------|----------|---------------------|--------------|-----|--|
| | | | CONDITION | | | AVERAGE COND. | SEVERE COND. | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | | |
| | TRUCK ACCESSORIES-TRAILERS-TILT ***** | | | | | | | | |
| | HYSSTER | | | | | | | | |
| 6675 | HP15T 15T 2AX 35000-40000 GVW | 11,488 | 2.90 | | 0.73 | 1.17 | 0.00 | 68 | |
| 6680 | HP2DT 20T 2AX 35000-40000 GVW | 13,583 | 3.40 | | 0.87 | 1.39 | 0.00 | 71 | |
| 6685 | GHP2ST 25T 2AX 35000-40000 GVW | 15,467 | 3.82 | | 0.99 | 1.60 | 0.00 | 80 | |
| | TRUCK ACCESSORIES-TRANSIT MIXER ***** | | | | | | | | |
| | COOK BROS CHALLENGE (MIXER ONLY - ADD CHASSIS) | | | | | | | | |
| 6700 | 708-MD 7 CY 40000 - 50000 GVW | 20,230 | 5.70 | | 1.45 | 2.87 | 0.00 | 63 | |
| 6705 | 808-MD 8 CY 50000 - 70000 GVW | 20,559 | 5.79 | | 1.47 | 2.92 | 0.00 | 66 | |
| 6710 | 858-MD 8.5 CY 55000 - 75000 GVW | 20,784 | 5.85 | | 1.49 | 2.95 | 0.00 | 68 | |
| 6715 | 908-MD 9 CY 61000 - 80000 GVW | 21,113 | 5.95 | | 1.52 | 3.00 | 0.00 | 73 | |
| | TRUCK ACCESSORIES-WATER TANK ***** | | | | | | | | |
| | ROSCO | | | | | | | | |
| 6720 | MFW 2000 GAL 23500 - 28000 GVW 7 HP G TRUCK MOUNTED (ADD CHASSIS) | 8,335 | 3.11 | | 0.60 | 1.18 | 0.61 | 35 | |
| 6725 | MFW 2500 GAL 25000 - 34950 GVW 7 HP G TRUCK MOUNTED (ADD CHASSIS) | 8,803 | 3.25 | | 0.63 | 1.25 | 0.61 | 42 | |
| 6730 | MFW 3000 GAL 29000 - 40000 GVW 7 HP G TRUCK MOUNTED (ADD CHASSIS) | 9,333 | 3.40 | | 0.67 | 1.33 | 0.61 | 46 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|----------------------------|--------------------------|----------------|--------------------|---------|----------|---------------------|-------|--------------|-------|-------|-------|------|--|--|
| | | | CONDITION | | STAND BY | AVERAGE COND. | | SEVERE COND. | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | |
| TRUCKS - OFF HIGHWAY | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | |
| CATERPILLAR | | | | | | | | | | | | | | |
| 6740 | 769-B | 35T 22-29 CY | P.S. 450 HP D | 208.397 | 59.60 | 86.37 | 12.66 | 21.67 | 11.56 | 34.04 | 14.93 | 681 | | |
| 6745 | 773 | 50T 30-40 CY | P.S. 600 HP D | 293.109 | 82.95 | 120.44 | 17.80 | 30.43 | 15.41 | 47.81 | 19.90 | 903 | | |
| 6750 | 777 | 85T 47-67 CY | P.S. 870 HP D | 401.372 | 119.93 | 175.05 | 24.14 | 40.76 | 22.34 | 64.38 | 28.86 | 1225 | | |
| 6755 | 768C PRIME MOVER TRACTOR | | P.S. 450 HP D | 183.225 | 58.19 | 85.07 | 10.94 | 18.28 | 11.56 | 29.01 | 14.93 | 506 | | |
| 6760 | 772B PRIME MOVER TRACTOR | | P.S. 600 HP D | 275.133 | 82.55 | 120.52 | 16.54 | 27.90 | 15.41 | 44.08 | 19.90 | 705 | | |
| DJB (ARTICULATED FRAME) | | | | | | | | | | | | | | |
| 6770 | D275 | 27.5T 15-24 CY | P.S. 235 HP D | 165.528 | 43.39 | 63.61 | 10.04 | 17.13 | 6.03 | 26.94 | 7.79 | 410 | | |
| 6775 | D330 | 33T 17-28 CY | P.S. 255 HP D | 175.734 | 45.98 | 67.30 | 10.68 | 18.25 | 6.55 | 28.67 | 8.46 | 430 | | |
| 6780 | D350 | 35T 20-31 CY | P.S. 255 HP D | 187.279 | 49.48 | 72.81 | 11.32 | 19.23 | 6.55 | 30.30 | 8.46 | 460 | | |
| 6785 | D550 | 55T 32-55 CY | P.S. 450 HP D | 322.464 | 84.62 | 124.20 | 19.54 | 33.32 | 11.56 | 52.40 | 14.93 | 820 | | |
| EUCLID | | | | | | | | | | | | | | |
| 6795 | R25-215FD | 25T 14-19 CY | P.S. 228 HP D | 127.853 | 35.12 | 51.17 | 7.76 | 13.26 | 5.86 | 20.84 | 7.56 | 378 | | |
| 6800 | R35-302TD | 35T 23-29 CY | P.S. 394 HP D | 190.056 | 55.02 | 80.12 | 11.49 | 19.53 | 10.12 | 30.76 | 13.07 | 583 | | |
| 6805 | R50-301LD | 50T 31-41 CY | P.S. 606 HP D | 267.349 | 78.15 | 113.26 | 16.21 | 27.66 | 15.56 | 43.50 | 20.10 | 790 | | |
| INTERNATIONAL | | | | | | | | | | | | | | |
| 6815 | 330 | 36T 24-31 CY | P.S. 394 HP D | 182.899 | 54.52 | 79.82 | 11.06 | 18.80 | 10.12 | 29.60 | 13.07 | 630 | | |
| 6820 | 350B | 50T 31-42 CY | P.S. 580 HP D | 265.253 | 77.84 | 113.53 | 16.09 | 27.50 | 14.89 | 43.23 | 19.24 | 740 | | |

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 - OFF HIGHWAY (CONT'D) | | | | | | | | | | | | | | | | | | | |
| XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | | | | | | | | | |
| MACK | | | | | | | | | | | | | | | | | | | |
| 6835 | M-15-X 15T 11-15 CY | 180 HP D | 95,201 | 26.78 | 39.05 | 5.76 | 9.81 | 4.62 | 15.45 | 5.97 | 340 | | | | | | | | |
| 6840 | M-20-X 20T 13-17 CY | 250 HP D | 97,191 | 28.50 | 40.92 | 5.93 | 10.23 | 6.42 | 16.04 | 8.29 | 350 | | | | | | | | |
| 6845 | M-25-X 25T 16-20 CY | P.S. 250 HP D | 122,749 | 34.90 | 50.72 | 7.44 | 12.70 | 6.42 | 19.98 | 8.29 | 460 | | | | | | | | |
| 6850 | M-35-AX 35T 23-29 CY | P.S. 434 HP D | 174,699 | 52.63 | 76.12 | 10.58 | 18.03 | 11.15 | 28.36 | 14.40 | 630 | | | | | | | | |
| 6855 | M-45-SX 3AX45T 28-36 CY | P.S. 535 HP D | 238,094 | 70.81 | 103.15 | 14.40 | 24.48 | 13.74 | 38.55 | 17.75 | 810 | | | | | | | | |
| 6860 | M-50-AX 50T 32-39 CY | P.S. 635 HP D | 253,869 | 76.61 | 110.79 | 15.38 | 26.20 | 16.31 | 41.22 | 21.06 | 790 | | | | | | | | |
| 6865 | M-65-BX 65T 42-51 CY | P.S. 700 HP D | 321,386 | 93.12 | 135.12 | 19.48 | 33.23 | 17.98 | 52.25 | 23.22 | 955 | | | | | | | | |
| 6870 | M-75ASX 3AX75T 44-56 CY | P.S. 800 HP D | 370,736 | 108.23 | 157.62 | 22.45 | 38.27 | 20.54 | 60.22 | 26.54 | 1160 | | | | | | | | |
| TEREX | | | | | | | | | | | | | | | | | | | |
| 6880 | 33-03B 22T 15-18 CY | P.S. 215 HP D | 103,962 | 30.53 | 44.59 | 6.26 | 10.59 | 5.52 | 16.72 | 7.13 | 380 | | | | | | | | |
| 6885 | 33-05B 30T 19-23 CY | P.S. 321 HP D | 164,859 | 46.58 | 67.84 | 9.99 | 17.02 | 8.24 | 26.78 | 10.65 | 525 | | | | | | | | |
| 6890 | 33-07 40T 25-32 CY | P.S. 493 HP D | 219,917 | 64.89 | 94.29 | 13.29 | 22.60 | 12.66 | 35.60 | 16.35 | 756 | | | | | | | | |
| 6895 | 33-09 55T 34-44 CY | P.S. 624 HP D | 294,008 | 85.36 | 124.17 | 17.79 | 30.25 | 16.02 | 47.64 | 20.70 | 992 | | | | | | | | |
| 6900 | 33-11C 85T 51-65 CY | P.S. 840 HP D | 396,793 | 114.85 | 167.00 | 24.01 | 40.88 | 21.57 | 64.34 | 27.86 | 1227 | | | | | | | | |
| WABCO | | | | | | | | | | | | | | | | | | | |
| 6910 | HAULPAK 35C 35T 23-29 CY | P.S. 456 HP D | 186,560 | 56.71 | 82.30 | 11.26 | 19.10 | 11.71 | 30.11 | 15.13 | 571 | | | | | | | | |
| 6915 | HAULPAK 50 50T 31-40 CY | P.S. 635 HP D | 268,059 | 80.54 | 116.91 | 16.19 | 27.49 | 16.31 | 43.32 | 21.06 | 792 | | | | | | | | |
| 6920 | 75B 75T 45-47 CY | P.S. 700 HP D | 308,934 | 93.39 | 136.16 | 18.58 | 31.36 | 17.98 | 49.54 | 23.22 | 955 | | | | | | | | |
| 6925 | 85C 85T 40-60 CY | P.S. 860 HP D | 374,356 | 113.58 | 165.53 | 22.51 | 38.00 | 22.08 | 60.03 | 28.53 | 1181 | | | | | | | | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|---------------------------|-------------|-----------------------------------|--------------------|--------|---------------------|---------------|-------|--------------|-------|-------|------|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | |
| TRUCKS - WATER | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | |
| TRACTOR DRAWN - KLEIN | | | | | | | | | | | | | |
| 6940 | KT-50 | 5000 GAL. CAT 613B P.S. 150 HP D | 93,642 | 26.75 | 38.18 | 5.65 | 9.59 | 6.10 | 15.13 | 7.86 | 310 | | |
| 6945 | KT-60 | 6000 GAL. CAT 621B P.S. 330 HP D | 166,597 | 52.52 | 75.06 | 9.99 | 16.81 | 13.42 | 26.60 | 17.30 | 593 | | |
| 6950 | KT-80 | 8000 GAL. CAT 631B P.S. 450 HP D | 228,961 | 70.15 | 99.83 | 13.85 | 23.57 | 18.30 | 37.11 | 23.59 | 788 | | |
| 6955 | KT-100 | 10000 GAL. CAT 631D P.S. 450 HP D | 235,464 | 72.06 | 102.73 | 14.18 | 23.98 | 18.30 | 37.86 | 23.59 | 798 | | |
| 6960 | KT-100 | 10000 GAL. CAT 641B P.S. 550 HP D | 275,823 | 86.94 | 124.40 | 16.62 | 28.13 | 22.36 | 44.40 | 28.84 | 951 | | |
| 6965 | KT-120 | 12000 GAL. CAT 651B P.S. 550 HP D | 280,722 | 88.54 | 126.80 | 16.86 | 28.40 | 22.36 | 44.90 | 28.84 | 1097 | | |
| 6970 | KT-140 | 14000 GAL. CAT 660B P.S. 550 HP D | 276,392 | 89.48 | 128.38 | 16.45 | 27.35 | 22.36 | 43.48 | 28.84 | 1067 | | |
| TRACTOR DRAWN - SOUTHWEST | | | | | | | | | | | | | |
| 6980 | STT-60 | 6000 GAL. CAT 621B P.S. 330 HP D | 174,162 | 53.69 | 76.74 | 10.48 | 17.70 | 13.42 | 27.95 | 17.30 | 623 | | |
| 6985 | STT-80 | 8000 GAL. CAT 631D P.S. 450 HP D | 236,564 | 71.67 | 102.07 | 14.31 | 24.34 | 18.30 | 38.32 | 23.59 | 848 | | |
| 6990 | STT-100 | 10000 GAL. CAT 631D P.S. 450 HP D | 240,528 | 72.52 | 103.31 | 14.54 | 24.71 | 18.30 | 38.92 | 23.59 | 918 | | |
| 6995 | STT-120 | 12000 GAL. CAT 651B P.S. 550 HP D | 289,300 | 91.27 | 130.95 | 17.28 | 28.88 | 22.36 | 45.80 | 28.84 | 1053 | | |
| 7000 | STT-140 | 14000 GAL. CAT 660B P.S. 550 HP D | 284,263 | 91.23 | 130.98 | 16.91 | 28.08 | 22.36 | 44.65 | 28.84 | 1137 | | |
| WAGONS - BOTTOM - DUMP | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | |
| CATERPILLAR-ATHey | | | | | | | | | | | | | |
| 7010 | 621B/PW621B | 33T 22-26CY P.S. 330 HP D | 179,179 | 55.24 | 79.07 | 10.74 | 18.01 | 13.42 | 28.51 | 17.30 | 579 | | |
| 7015 | 631B/PW631D | 41T 27-32CY P.S. 450 HP D | 247,750 | 74.27 | 105.95 | 14.94 | 25.31 | 18.30 | 39.93 | 23.59 | 769 | | |
| 7020 | 768B/PW768B | 72T 42-48CY P.S. 415 HP D | 279,442 | 80.34 | 115.28 | 16.69 | 27.90 | 16.87 | 44.24 | 21.76 | 850 | | |
| 7025 | 660B/PW772 | 100T 60-67CY P.S. 550 HP D | 359,085 | 105.03 | 151.12 | 21.48 | 35.99 | 22.36 | 57.02 | 28.84 | 1218 | | |

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 | | | |
| | WAGONS - BOTTOM - DUMP (CONT'D) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | |
| | CATERPILLAR-ATHEY (CONT'D) | | | | | | | | | | | |
| 7030 | 660B/PW660B 100T 60-67CY P.S. 550 HP D | 358.753 | 104.42 | 150.18 | 21.51 | 36.16 | 22.36 | 57.22 | 28.84 | 1164 | | |
| | EUCLID | | | | | | | | | | | |
| 7040 | B63-203LBT147W 63T 42-56CY P.S. 442 HP D | 274.612 | 80.47 | 115.43 | 16.50 | 27.80 | 17.97 | 43.94 | 23.17 | 896 | | |
| | WAGONS - REAR - DUMP XXXXXXXXXXXXXXXXXXXXXX | | | | | | | | | | | |
| | CATERPILLAR-ATHEY | | | | | | | | | | | |
| 7050 | 621B/PR621B 30T 20-24CY P.S. 330 HP D | 180.283 | 57.16 | 82.48 | 10.82 | 18.18 | 13.42 | 28.76 | 17.30 | 572 | | |
| 7055 | 631D/PR631D 40T 27-32CY P.S. 450 HP D | 253.335 | 78.53 | 113.23 | 15.26 | 25.82 | 18.30 | 40.76 | 23.59 | 833 | | |
| | WATER BLASTER XXXXXXXXXXXXXX | | | | | | | | | | | |
| | MULLINS WATER BLASTERS | | | | | | | | | | | |
| 7070 | 5000DH 1 - NOZZLE 95 HP D | 23.024 | 17.70 | | | 1.87 | 4.03 | 5.69 | | 47 | | |
| 7075 | 5200DH 2 - NOZZLE 140 HP D | 30.906 | 25.18 | | | 2.51 | 5.40 | 8.39 | | 52 | | |
| 7080 | 5300 3 - NOZZLE 275 HP D | 56.832 | 47.89 | | | 4.62 | 9.95 | 16.48 | | 128 | | |
| 7085 | 5400 4 - NOZZLE 318 HP D | 61.263 | 53.76 | | | 4.98 | 10.72 | 19.05 | | 145 | | |

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 | | |
| | WATER TANKS ***** | | | | | | | | | | |
| | SKID MOUNTED | | | | | | | | | | |
| 7095 | MST-8 8000 GAL. SOUTHWEST | 10,815 | 3.00 | | 0.77 | 1.53 | 0.00 | | | 128 | |
| 7100 | MST-10 10000 GAL. SOUTHWEST | 12,612 | 3.50 | | 0.91 | 1.79 | 0.00 | | | 150 | |
| 7105 | MST-12 12000 GAL. SOUTHWEST | 15,082 | 4.18 | | 1.08 | 2.14 | 0.00 | | | 183 | |
| | PORTABLE (WITH WHEELS) | | | | | | | | | | |
| 7115 | ENT-8 8000 GAL. SOUTHWEST | 22,496 | 6.23 | | 1.61 | 3.19 | 0.00 | | | 150 | |
| 7120 | ENT-10 10000 GAL. SOUTHWEST | 25,296 | 7.01 | | 1.81 | 3.59 | 0.00 | | | 170 | |
| 7125 | ENT-12 12000 GAL. SOUTHWEST | 28,309 | 7.84 | | 2.02 | 4.01 | 0.00 | | | 210 | |
| | WELDERS ***** | | | | | | | | | | |
| | ELECTRIC DRIVE - AC 3 PHASE 60 HZ | | | | | | | | | | |
| 7135 | 250 AMP SKID MTD | 10 HP E | 1,000 | 0.67 | | 0.07 | 0.13 | 0.36 | | 7 | |
| 7140 | 300 AMP SKID MTD | 20 HP E | 1,360 | 1.21 | | 0.10 | 0.18 | 0.72 | | 7 | |
| 7145 | 400 AMP SKID MTD | 25 HP E | 1,639 | 1.49 | | 0.11 | 0.21 | 0.90 | | 8 | |
| 7150 | 600 AMP SKID MTD | 36 HP E | 2,446 | 2.17 | | 0.18 | 0.32 | 1.30 | | 15 | |
| | GASOLINE ENGINE DRIVE | | | | | | | | | | |
| 7160 | 200 AMP W/1 AXLE TRLR | 37 HP G | 2,152 | 5.72 | | 0.17 | 0.33 | 3.99 | | 11 | |
| 7165 | 250 AMP W/1 AXLE TRLR | 65 HP G | 3,581 | 9.96 | | 0.28 | 0.56 | 7.00 | | 17 | |
| 7170 | 300 AMP W/1 AXLE TRLR | 65 HP G | 3,633 | 9.99 | | 0.29 | 0.57 | 7.00 | | 17 | |
| 7175 | 400 AMP W/1 AXLE TRLR | 69 HP G | 4,211 | 10.72 | | 0.33 | 0.66 | 7.43 | | 21 | |

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

| UNIT NO. | EQUIPMENT | VALUE | TOTAL HOURLY RATES | | | | ADJUSTABLE ELEMENTS | | | | CWT | | | | |
|---------------------------------------|-----------------------------|---------|--------------------|--------|----------|---------------|---------------------|--------------|------|--|-----|--|--|--|--|
| | | | CONDITION | | STAND-BY | AVERAGE COND. | | SEVERE COND. | | | | | | | |
| | | | AVERAGE | SEVERE | | OWNER-SHIP | FUEL | OWNER-SHIP | FUEL | | | | | | |
| WELDERS (CONT'D) | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | |
| GASOLINE ENGINE DRIVE (CONT'D) | | | | | | | | | | | | | | | |
| 7180 | 650 AMP W/2 AXLE TRLR | 85 HP 6 | 6,408 | 13.67 | | 0.51 | 1.01 | 9.18 | | | 22 | | | | |
| DIESEL ENGINE DRIVE | | | | | | | | | | | | | | | |
| 7190 | 350 AMP W/2 AXLE TRLR | 55 HP D | 5,541 | 5.42 | | 0.44 | 0.87 | 2.77 | | | 25 | | | | |
| 7195 | 400 AMP W/2 AXLE TRLR | 55 HP D | 7,221 | 6.02 | | 0.57 | 1.13 | 2.77 | | | 30 | | | | |
| RECTIFIER AC-DC COMB. | | | | | | | | | | | | | | | |
| 7205 | 250 AMP W/SHOP RUNNING GEAR | 19 HP E | 837 | 1.06 | | 0.06 | 0.11 | 0.68 | | | 4 | | | | |
| 7210 | 300 AMP W/SHOP RUNNING GEAR | 24 HP E | 1,012 | 1.32 | | 0.07 | 0.13 | 0.86 | | | 6 | | | | |
| 7215 | 500 AMP W/SHOP RUNNING GEAR | 30 HP E | 1,435 | 1.68 | | 0.10 | 0.18 | 1.08 | | | 7 | | | | |
| 7220 | 650 AMP W/SHOP RUNNING GEAR | 42 HP E | 1,735 | 2.31 | | 0.13 | 0.23 | 1.51 | | | 9 | | | | |



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 \$40.00 per hour and an ownership rate of \$19.00 per hour.

A. If an equivalent crane owned by a contractor had been purchased new in 1976, the total hourly rate can be determined as follows:

| | |
|--|-------------------|
| Total Hourly Rate | = \$40.00/Hr. |
| Ownership Rate | (-) \$19.00/Hr. |
| Ownership Adjusted for Age: (Ownership Rate) | |
| x (Age Adj. Factor) = (\$19.00) x (.79) | = (+) \$15.01/Hr. |
| Adjusted Total Hourly Rate | = \$36.01/Hr. |

B. If an equivalent crane owned by a Contractor had been purchased new in 1968, the total hourly rate can be determined as follows:

| | |
|--|-----------------|
| Total Hourly Rate | = \$40.00/Hr. |
| Ownership Rate | (-) \$19.00/Hr. |
| Ownership adjusted for Age: (Ownership Rate) | |
| x (Oldest Age Adj. Factor) = (\$19.00) x (.45) = (+) \$ 8.55/Hr. | |
| Adjusted Total Hourly Rate | = \$29.55/Hr. |

C. If an equivalent crane, manufactured in 1968, had been purchased used in 1976 by the Contractor, the crane is over-age and the rate computation would be identical to Example B.

D. If an equivalent crane, manufactured in 1976, had been purchased used in 1980 by the Contractor, the used crane is not over-age and the rate computation would be identical to Example A.

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

| KEY NO. | TYPE OF EQUIPMENT | YEAR PURCHASED NEW | | | | | | | | | | | |
|------------|--|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | |
| 15 | AGGREGATE SPREADERS | 1.21 | 1.11 | 1.00 | 0.91 | 0.84 | 0.77 | | | | | | |
| 30 | AIR COMPRESSORS | 1.21 | 1.10 | 1.00 | 0.87 | 0.83 | 0.74 | | | | | | |
| 45 | AIR TOOLS & EQUIP., TAMPERS ETC | 1.21 | 1.10 | 1.00 | | | | | | | | | |
| 60 | ASPHALT DISTRIBUTORS | 1.22 | 1.11 | 1.00 | 0.90 | 0.83 | 0.75 | | | | | | |
| 65 | ASPHALT AND CONCRETE PAVERS BACKHOE (SEE KEY NO. 570-601) | 1.21 | 1.11 | 1.00 | 0.91 | 0.84 | 0.77 | | | | | | |
| 75 | BROOMS | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 80 | BRUSH CHIPPERS | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 90 | BUCKETS, CLAMSHELL & DRAGLINE | 1.38 | 1.21 | 1.00 | 0.89 | 0.81 | 0.73 | | | | | | |
| 95 | BUCKETS, CONCRETE | 1.38 | 1.21 | 1.00 | 0.89 | 0.81 | 0.73 | | | | | | |
| 105 | CONCRETE OR GROUT PUMP | 1.29 | 1.15 | 1.00 | 0.89 | 0.80 | | | | | | | |
| 120 | CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 125 | CONCRETE MIXERS & BUGGIES | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 135 | CONCRETE VIBRATORS | 1.21 | 1.10 | 1.00 | | | | | | | | | |
| 140 | COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE | 1.21 | 1.10 | 1.00 | 0.87 | | | | | | | | |
| 150 | 0 THRU 25 TON | 1.24 | 1.12 | 1.00 | 0.91 | 0.83 | 0.78 | 0.70 | 0.56 | | | | |
| 165 | OVER 25 TON THRU 50 TON | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.78 | 0.71 | 0.57 | 0.48 | | | |
| 170 | OVER 50 TON THRU 150 TON | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | |
| 180 | OVER 150 TON DRAGLINE & CLAMSHELL,CRAWLER MOUNTED | 1.22 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | 0.43 |
| 185 | 0 THRU 1 CY | 1.24 | 1.12 | 1.00 | 0.91 | 0.83 | 0.78 | 0.70 | 0.56 | | | | |
| 190 | OVER 1 CY THRU 2-1/2 CY | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.78 | 0.71 | 0.57 | 0.48 | | | |
| 195 | OVER 2-1/2 CY THRU 5 CY | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | |
| 196 | OVER 5 CY | 1.22 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | 0.43 |
| 200 | CRANES, HYDRAULIC, SELF- PROPELLED | 1.24 | 1.12 | 1.00 | 0.91 | 0.83 | 0.78 | 0.70 | 0.56 | 0.47 | 0.45 | | |
| | CRANES & HYD. EXC. , TRK MTD | | | | | | | | | | | | |
| 210 | UNDER 26 T. (THRU 1 CY) | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.78 | 0.71 | 0.57 | 0.47 | | | |
| 225 | 26 THRU 65 T (1 TH 2-1/2 CY) | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | |
| 230 | 66 THRU 125 T | 1.22 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | 0.43 |
| 240 | OVER 125 T | 1.22 | 1.11 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.59 | 0.50 | 0.48 | 0.46 | 0.43 |
| 255 | DRILL, AUGER | 1.29 | 1.16 | 1.00 | 0.92 | 0.83 | 0.80 | | | | | | |
| 270 | DRILL, BLAST HOLE | 1.29 | 1.16 | 1.00 | 0.92 | 0.83 | 0.80 | | | | | | |
| 300 | DRILL, CORE | 1.29 | 1.16 | 1.00 | 0.92 | 0.83 | 0.80 | | | | | | |
| 315 | DRILL, ROTARY TO 11" DIA. HOLE | 1.28 | 1.15 | 1.00 | 0.93 | 0.84 | 0.80 | 0.76 | 0.66 | 0.59 | | | |
| 330 | DRILL, ROTARY OVER 11" DIA. | 1.27 | 1.15 | 1.00 | 0.93 | 0.84 | 0.81 | 0.77 | 0.67 | 0.61 | 0.57 | 0.56 | 0.53 |
| 345 | DRILL, ROTARY OVER 11" DIA., ELECTRIC | 1.27 | 1.15 | 1.00 | 0.93 | 0.84 | 0.81 | 0.77 | 0.67 | 0.61 | 0.57 | 0.56 | 0.53 |
| 375 | FORK LIFTS | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 390 | GRADERS | 1.26 | 1.13 | 1.00 | 0.92 | 0.81 | 0.75 | 0.68 | 0.53 | | | | |
| 420 | GENERATORS | 1.40 | 1.25 | 1.00 | 0.95 | 0.86 | 0.82 | | | | | | |
| 435 | HOIST | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| | HYD. EXCAVATOR (SEE KEY NO. 570-601) | | | | | | | | | | | | |

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

| KEY NO. | TYPE OF EQUIPMENT | YEAR PURCHASED NEW | | | | | | | | | | | |
|------------|---|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | |
| 440 | LIGHT PLANTS | 1.31 | 1.16 | 1.00 | 0.89 | 0.79 | 0.72 | | | | | | |
| 450 | LOADER, BELT | 1.31 | 1.16 | 1.00 | 0.89 | 0.79 | 0.72 | | | | | | |
| 460 | LOADER, FRONT END & LOADER F/E WITH BACKHOE, CRAWLER TYPE LOADER, WHEEL TYPE | 1.27 | 1.14 | 1.00 | 0.91 | 0.82 | 0.74 | | | | | | |
| 465 | 0 THRU 225 HP | 1.30 | 1.15 | 1.00 | 0.89 | 0.79 | 0.72 | | | | | | |
| 470 | OVER 225 HP | 1.28 | 1.14 | 1.00 | 0.90 | 0.80 | 0.74 | 0.70 | 0.56 | | | | |
| 475 | LOADER, FRONT END WITH BACKHOE, WHEEL TYPE | 1.30 | 1.15 | 1.00 | 0.89 | 0.79 | 0.72 | | | | | | |
| 480 | PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR | 1.30 | 1.15 | 1.00 | 0.89 | | | | | | | | |
| 485 | PIPELAYERS PUMP, GROUT (SEE KEY NO. 105) | 1.27 | 1.13 | 1.00 | 0.89 | 0.79 | 0.71 | 0.65 | 0.50 | | | | |
| 495 | PUMP, WATER, ENGINE DRIVE | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 500 | PUMP, WATER, ELECTRIC DRIVE | 1.29 | 1.15 | 1.00 | 0.90 | 0.81 | 0.74 | | | | | | |
| 510 | RIPPERS | 1.27 | 1.13 | 1.00 | 0.89 | 0.79 | | | | | | | |
| 525 | ROLLERS, EXCEPT VIB. ROLLERS | 1.26 | 1.12 | 1.00 | 0.89 | 0.78 | 0.71 | | | | | | |
| 530 | ROLLERS, VIBRATORY | 1.27 | 1.13 | 1.00 | 0.88 | 0.76 | | | | | | | |
| 540 | SCRAPERS, STANDARD | 1.26 | 1.13 | 1.00 | 0.92 | 0.82 | 0.75 | | | | | | |
| 542 | SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING | 1.26 | 1.13 | 1.00 | 0.92 | 0.82 | 0.75 | | | | | | |
| 545 | 0 THRU 200 HP | 1.26 | 1.13 | 1.00 | 0.92 | 0.82 | 0.75 | | | | | | |
| 550 | OVER 200 HP | 1.26 | 1.13 | 1.00 | 0.92 | 0.82 | 0.75 | | | | | | |
| 555 | SCRAPERS, TRACTOR DRAWN SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED | 1.25 | 1.13 | 1.00 | 0.92 | 0.82 | 0.76 | 0.69 | 0.54 | | | | |
| 570 | 0 THRU 1 CY | 1.24 | 1.12 | 1.00 | 0.91 | 0.83 | 0.77 | 0.70 | | | | | |
| 585 | OVER 1 CY THRU 2-1/2 CY | 1.24 | 1.12 | 1.00 | 0.91 | 0.83 | 0.78 | 0.70 | 0.56 | | | | |
| 595 | OVER 2-1/2 CY THRU 5 CY | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.78 | 0.71 | 0.57 | 0.48 | 0.46 | | |
| 600 | OVER 5 CY | 1.23 | 1.12 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.58 | 0.49 | 0.47 | 0.45 | |
| 601 | OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE | 1.22 | 1.11 | 1.00 | 0.91 | 0.84 | 0.79 | 0.72 | 0.59 | 0.50 | 0.48 | 0.46 | 0.43 |
| 615 | 0 THRU 225 HP | 1.29 | 1.14 | 1.00 | 0.88 | 0.77 | 0.69 | | | | | | |
| 620 | 226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS) | 1.27 | 1.13 | 1.00 | 0.89 | 0.79 | 0.71 | 0.65 | 0.50 | | | | |
| 625 | OVER 425 HP | 1.26 | 1.12 | 1.00 | 0.89 | 0.80 | 0.72 | 0.67 | 0.53 | 0.43 | | | |
| 630 | TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES | 1.27 | 1.13 | 1.00 | 0.89 | 0.79 | 0.71 | | | | | | |
| 645 | TRACTOR, WHEEL TYPE | 1.30 | 1.16 | 1.00 | 0.88 | 0.80 | 0.72 | | | | | | |
| 650 | TRENCHER | 1.30 | 1.16 | 1.00 | 0.92 | 0.80 | 0.64 | | | | | | |
| 655 | TRAILERS, BOTTOM DUMP AND END DUMP | 1.30 | 1.16 | 1.00 | 0.89 | 0.80 | 0.73 | | | | | | |
| 660 | TRAILERS, FLATBED, LO-BOY AND TILT | 1.32 | 1.16 | 1.00 | 0.88 | 0.79 | 0.72 | | | | | | |
| | TRUCK ACCESSORIES FOR CHASSIS MOUNTING | | | | | | | | | | | | |

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

| KEY NO. | TYPE OF EQUIPMENT | YEAR PURCHASED NEW | | | | | | | | | | |
|------------|-----------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|
| | | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 |
| 670 | DUMP BODIES | 1.29 | 1.15 | 1.00 | 0.89 | 0.80 | | | | | | |
| 675 | ALL OTHER ACCESSORIES | 1.29 | 1.15 | 1.00 | 0.89 | 0.80 | | | | | | |
| | TRUCK, HIGHWAY | | | | | | | | | | | |
| 690 | 0 THRU 10,000 GVW | 1.24 | 1.12 | 1.00 | 0.90 | 0.82 | | | | | | |
| 695 | OVER 10,000 THRU 30,000 GVW | 1.24 | 1.12 | 1.00 | 0.90 | 0.81 | | | | | | |
| 705 | OVER 30,000 GVW | 1.24 | 1.12 | 1.00 | 0.90 | 0.81 | | | | | | |
| 720 | TRUCK, OFF-HIGHWAY | 1.30 | 1.16 | 1.00 | 0.90 | 0.83 | 0.78 | 0.73 | 0.55 | | | |
| 765 | WAGON, BOTTOM DUMP & WATER | 1.30 | 1.16 | 1.00 | 0.90 | 0.83 | 0.78 | 0.73 | 0.55 | | | |
| 780 | WAGON, REAR DUMP | 1.30 | 1.16 | 1.00 | 0.90 | 0.83 | 0.78 | 0.73 | 0.55 | | | |
| 785 | WATER BLASTER | 1.30 | 1.15 | 1.00 | 0.89 | | | | | | | |
| 795 | WATER TANKS | 1.29 | 1.15 | 1.00 | 0.89 | 0.80 | | | | | | |
| 810 | WELDERS | 1.33 | 1.17 | 1.00 | 0.88 | | | | | | | |
| 811 | WELDERS ELECTRIC POWER | 1.32 | 1.17 | 1.00 | 0.88 | 0.79 | | | | | | |

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 \$11.00 per hour. If an equivalent crane owned by a Contractor had been purchased new in 1976, the hourly standby rate can be determined as follows:

| | |
|---|---------------|
| Hourly Standby Rate | = \$11.00/Hr. |
| Standby Adjusted for Age (Standby Rate) x (Age Adj. Factor) = (\$11.00) x (.82) | = \$ 9.02/Hr. |

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

| KEY NO. | TYPE OF EQUIPMENT | YEAR PURCHASED NEW | | | | | | | | | | | |
|------------|---|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | |
| 15 | AGGREGATE SPREADERS | 1.18 | 1.09 | 1.00 | 0.92 | 0.86 | 0.80 | | | | | | |
| 30 | AIR COMPRESSORS | 1.17 | 1.08 | 1.00 | 0.89 | 0.85 | 0.78 | | | | | | |
| 45 | AIR TOOLS & EQUIP., TAMPERS ETC | 1.19 | 1.09 | 1.00 | | | | | | | | | |
| 60 | ASPHALT DISTRIBUTORS | 1.18 | 1.09 | 1.00 | 0.92 | 0.86 | 0.80 | | | | | | |
| 65 | ASPHALT AND CONCRETE PAVERS | 1.18 | 1.09 | 1.00 | 0.92 | 0.86 | 0.80 | | | | | | |
| | BACKHOE (SEE KEY NO. 570-601) | | | | | | | | | | | | |
| 75 | BROOMS | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 80 | BRUSH CHIPPERS | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 90 | BUCKETS, CLAMSHELL & DRAGLINE | 1.32 | 1.18 | 1.00 | 0.90 | 0.84 | 0.77 | | | | | | |
| 95 | BUCKETS, CONCRETE | 1.32 | 1.18 | 1.00 | 0.90 | 0.84 | 0.77 | | | | | | |
| 105 | CONCRETE OR GROUT PUMP | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | | | | | | | |
| 120 | CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 125 | CONCRETE MIXERS & BUGGIES | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 135 | CONCRETE VIBRATORS | 1.19 | 1.09 | 1.00 | | | | | | | | | |
| 140 | COMPACTORS, MANUALLY OPERATED CRANE, CRAWLER TYPE | 1.18 | 1.09 | 1.00 | 0.88 | | | | | | | | |
| 150 | 0 THRU 25 TON | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.81 | 0.74 | 0.62 | | | | |
| 165 | OVER 25 TON THRU 50 TON | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.81 | 0.75 | 0.63 | 0.55 | | | |
| 170 | OVER 50 TON THRU 150 TON | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.75 | 0.64 | 0.56 | 0.54 | 0.52 | |
| 180 | OVER 150 TON DRAGLINE & CLAMSHELL,CRAWLER MOUNTED | 1.19 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.76 | 0.64 | 0.56 | 0.54 | 0.53 | 0.50 |
| 185 | 0 THRU 1 CY | 1.20 | 1.11 | 1.00 | 0.92 | 0.86 | 0.81 | 0.74 | 0.62 | | | | |
| 190 | OVER 1 CY THRU 2-1/2 CY | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.81 | 0.75 | 0.63 | 0.55 | | | |
| 195 | OVER 2-1/2 CY THRU 5 CY | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.75 | 0.64 | 0.56 | 0.54 | 0.52 | |
| 196 | OVER 5 CY | 1.19 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.76 | 0.64 | 0.56 | 0.54 | 0.53 | 0.50 |
| 200 | CRANES, HYDRAULIC, SELF- PROPELLED | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.75 | 0.64 | 0.56 | 0.54 | | |
| | CRANES & HYD. EXC., TRK MTD | | | | | | | | | | | | |
| 210 | UNDER 26 T. (THRU 1 CY) | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.81 | 0.75 | 0.63 | 0.55 | | | |
| 225 | 26 THRU 65 T (1 TH 2-1/2 CY) | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.75 | 0.64 | 0.56 | 0.54 | 0.52 | |
| 230 | 66 THRU 125 T | 1.19 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.76 | 0.64 | 0.56 | 0.54 | 0.53 | 0.50 |
| 240 | OVER 125 T | 1.19 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.76 | 0.64 | 0.56 | 0.55 | 0.53 | 0.51 |
| 255 | DRILL, AUGER | 1.25 | 1.14 | 1.00 | 0.93 | 0.85 | 0.82 | | | | | | |
| 270 | DRILL, BLAST HOLE | 1.25 | 1.14 | 1.00 | 0.93 | 0.85 | 0.82 | | | | | | |
| 300 | DRILL, CORE | 1.25 | 1.14 | 1.00 | 0.93 | 0.85 | 0.82 | | | | | | |
| 315 | DRILL, ROTARY TO 11" DIA. HOLE | 1.24 | 1.13 | 1.00 | 0.94 | 0.86 | 0.83 | 0.80 | 0.71 | 0.65 | | | |
| 330 | DRILL, ROTARY OVER 11" DIA. | 1.23 | 1.13 | 1.00 | 0.94 | 0.87 | 0.84 | 0.80 | 0.72 | 0.66 | 0.63 | 0.62 | 0.60 |
| 345 | DRILL, ROTARY OVER 11" DIA., ELECTRIC | 1.23 | 1.13 | 1.00 | 0.94 | 0.87 | 0.84 | 0.80 | 0.72 | 0.66 | 0.63 | 0.62 | 0.60 |
| 375 | FORK LIFTS | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 390 | GRADERS | 1.21 | 1.11 | 1.00 | 0.93 | 0.85 | 0.79 | 0.74 | 0.61 | | | | |
| 420 | GENERATORS | 1.31 | 1.19 | 1.00 | 0.96 | 0.89 | 0.86 | | | | | | |
| 435 | HOIST | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| | HYD. EXCAVATOR (SEE KEY NO. 570-601) | | | | | | | | | | | | |

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

| KEY NO. | TYPE OF EQUIPMENT | YEAR PURCHASED NEW | | | | | | | | | | | |
|------------|---|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | |
| 440 | LIGHT PLANTS | 1.24 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 450 | LOADER, BELT | 1.24 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 460 | LOADER, FRONT END & LOADER F/E WITH BACKHOE, CRAWLER TYPE | 1.22 | 1.12 | 1.00 | 0.92 | 0.85 | 0.79 | | | | | | |
| | LOADER, WHEEL TYPE | | | | | | | | | | | | |
| 465 | 0 THRU 225 HP | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | 0.77 | | | | | | |
| 470 | OVER 225 HP | 1.24 | 1.12 | 1.00 | 0.91 | 0.83 | 0.78 | 0.74 | 0.62 | | | | |
| 475 | LOADER, FRONT END WITH BACKHOE, WHEEL TYPE | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | 0.77 | | | | | | |
| 480 | PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR | 1.26 | 1.14 | 1.00 | 0.90 | | | | | | | | |
| 485 | PIPELAYERS PUMP, GROUT (SEE KEY NO. 105) | 1.22 | 1.11 | 1.00 | 0.91 | 0.82 | 0.76 | 0.71 | 0.59 | | | | |
| 495 | PUMP, WATER, ENGINE DRIVE | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 500 | PUMP, WATER, ELECTRIC DRIVE | 1.25 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 510 | RIPPERS | 1.24 | 1.11 | 1.00 | 0.90 | 0.81 | | | | | | | |
| 525 | ROLLERS, EXCEPT VIB. ROLLERS | 1.22 | 1.10 | 1.00 | 0.90 | 0.81 | 0.75 | | | | | | |
| 530 | ROLLERS, VIBRATORY | 1.23 | 1.10 | 1.00 | 0.90 | 0.80 | | | | | | | |
| 540 | SCRAPERS, STANDARD | 1.22 | 1.11 | 1.00 | 0.93 | 0.84 | 0.79 | | | | | | |
| 542 | SCRAPERS, TANDEM POWERED SCRAPERS, ELEVATING | 1.22 | 1.11 | 1.00 | 0.93 | 0.84 | 0.79 | | | | | | |
| 545 | 0 THRU 200 HP | 1.22 | 1.11 | 1.00 | 0.93 | 0.84 | 0.79 | | | | | | |
| 550 | OVER 200 HP | 1.22 | 1.11 | 1.00 | 0.93 | 0.84 | 0.79 | | | | | | |
| 555 | SCRAPERS, TRACTOR DRAWN SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED | 1.22 | 1.11 | 1.00 | 0.93 | 0.85 | 0.79 | 0.74 | 0.61 | | | | |
| 570 | 0 THRU 1 CY | 1.21 | 1.11 | 1.00 | 0.92 | 0.85 | 0.80 | 0.74 | | | | | |
| 585 | OVER 1 CY THRU 2-1/2 CY | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.81 | 0.74 | 0.62 | | | | |
| 595 | OVER 2-1/2 CY THRU 5 CY | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.81 | 0.75 | 0.63 | 0.55 | 0.53 | | |
| 600 | OVER 5 CY | 1.20 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.75 | 0.64 | 0.56 | 0.54 | 0.52 | |
| 601 | OVER 2-1/2 CY ELECTRIC TRACTOR, CRAWLER TYPE | 1.19 | 1.10 | 1.00 | 0.92 | 0.86 | 0.82 | 0.76 | 0.64 | 0.56 | 0.55 | 0.53 | 0.51 |
| 615 | 0 THRU 225 HP | 1.23 | 1.11 | 1.00 | 0.90 | 0.82 | 0.75 | | | | | | |
| 620 | 226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS) | 1.22 | 1.11 | 1.00 | 0.91 | 0.82 | 0.76 | 0.71 | 0.59 | | | | |
| 625 | OVER 425 HP | 1.22 | 1.11 | 1.00 | 0.91 | 0.83 | 0.76 | 0.71 | 0.59 | 0.51 | | | |
| 630 | TRACTOR, BLADES, PUSH BLOCKS, PUSH PLATES & CLEARING BLADES | 1.23 | 1.11 | 1.00 | 0.90 | 0.82 | 0.75 | | | | | | |
| 645 | TRACTOR, WHEEL TYPE | 1.26 | 1.13 | 1.00 | 0.90 | 0.83 | 0.76 | | | | | | |
| 650 | TRENCHER | 1.26 | 1.14 | 1.00 | 0.93 | 0.83 | 0.69 | | | | | | |
| 655 | TRAILERS, BOTTOM DUMP AND END DUMP | 1.24 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |
| 660 | TRAILERS, FLATBED, LO-BOY AND TILT TRUCK ACCESSORIES FOR CHASSIS MOUNTING | 1.24 | 1.13 | 1.00 | 0.91 | 0.84 | 0.78 | | | | | | |

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

| KEY NO. | TYPE OF EQUIPMENT | YEAR PURCHASED NEW | | | | | | | | | |
|------------|-----------------------------|--------------------|------|------|------|------|------|------|------|------|------|
| | | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 |
| 670 | DUMP BODIES | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | | | | | |
| 675 | ALL OTHER ACCESSORIES | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | | | | | |
| | TRUCK, HIGHWAY | | | | | | | | | | |
| 690 | 0 THRU 10,000 GVW | 1.21 | 1.10 | 1.00 | 0.92 | 0.84 | | | | | |
| 695 | OVER 10,000 THRU 30,000 GVW | 1.21 | 1.10 | 1.00 | 0.92 | 0.84 | | | | | |
| 705 | OVER 30,000 GVW | 1.21 | 1.10 | 1.00 | 0.92 | 0.84 | | | | | |
| 720 | TRUCK, OFF-HIGHWAY | 1.25 | 1.14 | 1.00 | 0.92 | 0.85 | 0.81 | 0.77 | 0.62 | | |
| 765 | WAGON, BOTTOM DUMP & WATER | 1.25 | 1.14 | 1.00 | 0.92 | 0.85 | 0.81 | 0.77 | 0.62 | | |
| 780 | WAGON, REAR DUMP | 1.25 | 1.14 | 1.00 | 0.92 | 0.85 | 0.81 | 0.77 | 0.62 | | |
| 785 | WATER BLASTER | 1.26 | 1.14 | 1.00 | 0.90 | | | | | | |
| 795 | WATER TANKS | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | | | | | |
| 810 | WELDERS | 1.27 | 1.14 | 1.00 | 0.90 | | | | | | |
| 811 | WELDERS ELECTRIC POWER | 1.25 | 1.13 | 1.00 | 0.91 | 0.83 | | | | | |

TABLE 3-4. SHIFT ADJUSTMENT FACTORS FOR OWNERSHIP COSTS

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

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

| | |
|---|----------------------|
| Total Hourly Rate (adjusted for age) | = \$36.01/Hr. |
| Ownership Rate (adjusted for age) | (-) \$15.01/Hr. |
| Ownership Adjusted for Work Hours (Ownership Rate) x (Work Hr Adj. Factor) | |
| = (\$15.01) x (.83) | = (+) \$12.46/Hr. |
| Adjusted Total Hourly Rate | = <u>\$33.46/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 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 |
| 6,000 | 1.00 | 0.97 | 0.95 | 0.93 | 0.90 | 0.89 | 0.87 | 0.86 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 |
| 8,000 | 1.00 | 0.96 | 0.94 | 0.91 | 0.89 | 0.87 | 0.85 | 0.83 | 0.81 | 0.80 | 0.78 | 0.77 | 0.76 |
| 9,000 | 1.00 | 0.96 | 0.94 | 0.91 | 0.88 | 0.86 | 0.84 | 0.82 | 0.80 | 0.78 | 0.77 | 0.76 | 0.74 |
| 10,000 | 1.00 | 0.96 | 0.94 | 0.90 | 0.87 | 0.85 | 0.83 | 0.81 | 0.79 | 0.77 | 0.75 | 0.74 | 0.72 |
| 11,000 | 1.00 | 0.95 | 0.93 | 0.89 | 0.86 | 0.84 | 0.82 | 0.80 | 0.77 | 0.76 | 0.74 | 0.73 | 0.71 |
| 12,000 | 1.00 | 0.95 | 0.93 | 0.89 | 0.86 | 0.83 | 0.81 | 0.79 | 0.76 | 0.74 | 0.73 | 0.72 | 0.70 |
| 13,000 | 1.00 | 0.95 | 0.93 | 0.88 | 0.85 | 0.83 | 0.80 | 0.78 | 0.75 | 0.73 | 0.72 | 0.70 | 0.68 |
| 14,000 | 1.00 | 0.95 | 0.92 | 0.88 | 0.85 | 0.82 | 0.80 | 0.77 | 0.74 | 0.72 | 0.71 | 0.69 | 0.67 |
| 15,000 | 1.00 | 0.95 | 0.92 | 0.88 | 0.84 | 0.81 | 0.79 | 0.76 | 0.74 | 0.71 | 0.70 | 0.68 | 0.66 |
| 16,000 | 1.00 | 0.95 | 0.92 | 0.87 | 0.84 | 0.81 | 0.78 | 0.75 | 0.73 | 0.70 | 0.69 | 0.67 | 0.65 |
| 18,000 | 1.00 | 0.94 | 0.91 | 0.87 | 0.83 | 0.80 | 0.77 | 0.74 | 0.71 | 0.69 | 0.67 | 0.65 | 0.63 |
| 20,000 | 1.00 | 0.94 | 0.91 | 0.86 | 0.82 | 0.79 | 0.76 | 0.73 | 0.70 | 0.67 | 0.65 | 0.64 | 0.61 |
| 22,000 | 1.00 | 0.94 | 0.91 | 0.85 | 0.81 | 0.78 | 0.75 | 0.72 | 0.69 | 0.66 | 0.64 | 0.62 | 0.60 |
| 50,000 | 1.00 | 0.92 | 0.88 | 0.81 | 0.75 | 0.71 | 0.67 | 0.63 | 0.59 | 0.55 | 0.53 | 0.50 | 0.47 |

APPENDIX A

REFERENCES

1. Bureau of Labor Statistics, U.S. Department of Labor, "Producer Prices and Price Indexes." Published by the U.S. Government Printing Office, Washington, D.C. 20402.
2. Office of Construction Industry Services, Labor Management Services Administration, U.S. Department of Labor, "Handbook of Wages and Benefits for Construction Unions," January 1980, 200 Constitution Avenue, N.W., Washington, D.C. 20216.
3. Caterpillar Tractor Company, "Caterpillar Performance Handbook," Tenth Edition, 100 N.E. Adams Street, Peoria, Illinois 61629.
4. Caterpillar Tractor Company, "Fundamentals of Earthmoving," July 1975, 100 N.E. Adams Street, Peoria, Illinois 61629.
5. Equipment Guide Book Company, "Green Guide," Volume I and II, P.O. Box 10113, Palo Alto, California 94303.
6. Equipment Guide Book Company, "Green Guide for Off-Highway Trucks and Trailers," P.O. Box 10113, Palo Alto, California 94303.
7. Havers, J.A. and Stubbs, F.W., Jr., "Handbook of Heavy Construction," Second Edition. Published by McGraw-Hill Book Company, New York, New York.
8. Nichols, H.L., Jr., "Moving the Earth," Third Edition. Published by North Castle Books, Greenwich, Connecticut 06830.
9. Pay Line Division, International Harvester, "Earthmoving Principles," November 1975, 600 Woodfield, Schaumburg, Illinois 60196.
10. Power Crane and Shovel Association, Bureau of Construction Industry Manufacturers Association, "Operating Cost Guide," 1976, 111 E. Wisconsin Avenue, Milwaukee, Wisconsin 53202.

APPENDIX A

REFERENCES (Cont'd)

11. Terex Division, General Motors Corporation, "Production and Cost Estimating of Material Movement with Earthmoving Equipment," 1975 Revision, Hudson, Ohio 44236.
12. Construction Equipment Manufacturer's Price Lists.
13. Defense Acquisition Regulation (DAR).

APPENDIX B

AREA FACTORS

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

| | |
|--|---|
| State Sales Tax Rate: | 4.0 % |
| Working Hours Per Year: | 1,700 Hrs/Yr |
| Labor Adjustment Factor (LAF): | 1.080 |
| Electricity Cost Per Kilowatt-Hour: | 0.060 /Kw-Hr |
| Gasoline Cost Per Gallon: | \$ 1.330 /Gal. |
| Diesel Cost Per Gallon (Off-Road Use): | \$ 1.070 /GAL. |
| Diesel Cost Per Gallon (On-Road Use): | \$ 1.190 /Gal. |
| Freight Rates: | 0 thru 24,000 lbs. \$10.210 /Cwt. |
| | over 24,000 thru 30,000 lbs. \$ 9.400 /Cwt. |
| | over 30,000 thru 44,000 lbs. \$ 7.740 /Cwt. |
| | over 44,000 thru 60,000 lbs. \$ 6.170 /Cwt. |
| | over 60,000 thru 9999,900 lbs. \$ 5.910 /Cwt. |

APPENDIX C

GUIDE FOR SELECTING OPERATING CONDITIONS

| <u>EQUIPMENT TYPE</u> | <u>AVERAGE</u> | <u>SEVERE</u> |
|-----------------------|--|--|
| Cranes, Crawler Truck | Lift less than rated capacity, intermittent duty. | Continuous lift near rated capacity, excessive swing, abrasive materials, sloped surfaces. |
| Depreciation Period | 13,000 - 22,000 Hrs. | 11,000 - 20,000 Hrs. |
| Shovels | Gravels, silts, well broken rock, lift less than rated capacity. | Extremely abrasive tough materials, lifting near rated capacity, impact breakout. |
| Depreciation Period | 11,000 - 22,000 Hrs. | 9,000 - 20,000 Hrs. |
| Draglines | Gravels, silts, pull and lift less than rated capacity. | Highly abrasive materials, impact breakout, continuous load near rated capacity. |
| Depreciation Period | 12,000 - 20,000 Hrs. | 10,000 - 18,000 Hrs. |
| Backhoes | Clay, earth digging, no breakout impact, easy continuous or intermittent duty. | Rock work, pull near rated capacity, uneven surface, impact breakout, abrasive materials. |
| Depreciation Period | 11,000 - 22,000 Hrs. | 9,000 - 20,000 Hrs. |

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

| EQUIPMENT TYPE | AVERAGE | SEVERE |
|--------------------------|--|---|
| Tractors, Crawler Type | Production dozing in clays, sands, gravels and talus rock. Push-loading scrapers, borrow pit ripping, most landclearing and skidding applications. Medium impact conditions. | Heavy rock ripping. Tandem ripping. Pushloading and dozing in hard rock. Continuous high impact conditions. |
| Depreciation Period | 10,000 - 14,000 Hrs. | 8,000 - 12,000 Hrs. |
| Tractors, Wheel-Type | Production dozing, pushloading in clays, sands, silts, loose gravels. Shovel cleanup. | Production dozing in rock. Push-loading in rocky, bouldery borrow pits. High impact conditions. |
| Depreciation Period | 10,000 Hrs. | 8,000 Hrs. |
| Scrapers, Self-Propelled | Varying loading and haul road conditions. Long and short hauls. Adverse and favorable grades. Some impact. Typical road-building use on a variety of jobs. | High impact condition, such as loading ripped rock. Overloading. Continuous high total resistance conditions. Rough haul roads. |
| Depreciation Period | 10,000 Hrs. | 8,000 Hrs. |
| Trucks, Off Highway | Varying loading and haul road conditions. Typical road-building use on a variety of jobs. | Consistently poor haul road conditions. Extreme overloading. Over-sized loading equipment. |
| Depreciation Period | 12,000 Hrs. | 10,000 Hrs. |

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

| <u>EQUIPMENT TYPE</u> | <u>AVERAGE</u> | <u>SEVERE</u> |
|---------------------------------|---|--|
| Trucks, Highway | Varying loading and road conditions. Typical construction use on a variety of jobs. | Consistently poor road conditions. Extreme overloading. |
| Depreciation Period | 8,000 Hrs. | 6,000 Hrs. |
| Loaders, Front End Wheel Type | Continuous truck loading from stockpile. Low to medium density materials in properly sized bucket. Hopper charging in low to medium rolling resistance. Loading from bank in good digging. | Loading shot rock (large loaders). Handling high density materials with counterweighted machine. Steady loading from very tight banks. Continuous work on rough or very soft surfaces. |
| Depreciation Period | 10,000 - 12,000 Hrs. | 8,000 - 10,000 Hrs. |
| Loaders, Front End Crawler Type | Bank excavation, intermittent ripping, basement digging of natural bed clays, sands, silts, gravels. Some traveling. Steady full throttle operations. | Loading shot rock, cobbles. High density materials in standard bucket. Continuous work on rock surfaces. Large amount of ripping of tight, rocky materials. High impact conditions. |
| Depreciation Period | 10,000 Hrs. | 8,000 Hrs. |

EP 1110-1-8
(Vol. 7)
15 Jun 81

GUIDE FOR SELECTING OPERATING CONDITIONS (Continued)

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

APPENDIX D

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS

TABLE LEGEND

|||||||||||

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

TABLE LEGEND

|||||||||||

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

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

| KEY NO. | TYPE OF EQUIPMENT | C | LFE | SLV | EQUIPMENT POWER | | | | CARRIER POWER | | | | FOD | | | TIRES | | | |
|---------|--|---|-----|-----|-----------------|------|------|---|---------------|------|------|---|-----|----|----|-------|----|----|-----|
| | | | | | HP | E | G | D | HP | E | G | D | E | G | D | F | D | T | |
| 15 | AGGREGATE SPREADERS | A | 10 | 20 | 50 .000 | .051 | .030 | | 0 .000 | .000 | .000 | | 0 | 24 | 24 | 77 | 73 | 99 | 80 |
| 30 | AIR COMPRESSORS | A | 10 | 25 | 65 .000 | .066 | .038 | | 0 .000 | .000 | .000 | | 0 | 32 | 28 | 0 | 0 | 0 | 90 |
| 45 | AIR TOOLS & EQUIP, TAMPERS ETC | A | 4 | 20 | 0 .000 | .000 | .000 | | 0 .000 | .000 | .000 | | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 60 | ASPHALT DISTRIBUTORS | A | 10 | 30 | 65 .000 | .066 | .038 | | 0 .000 | .000 | .000 | | 0 | 32 | 28 | 60 | 44 | 79 | 85 |
| 65 | ASPHALT AND CONCRETE PAVERS | A | 10 | 20 | 65 .000 | .066 | .038 | | 0 .000 | .000 | .000 | | 0 | 32 | 28 | 65 | 40 | 70 | 90 |
| | BACKHOE (SEE KEY NO. 570-601) | | | | | | | | | | | | | | | | | | |
| 75 | BROOMS | A | 10 | 20 | 65 .000 | .066 | .000 | | 0 .000 | .000 | .000 | | 0 | 24 | 0 | 77 | 73 | 99 | 90 |
| 80 | BRUSH CHIPPERS | A | 10 | 20 | 65 .000 | .066 | .038 | | 0 .000 | .000 | .000 | | 0 | 32 | 28 | 0 | 0 | 0 | 90 |
| 90 | BUCKETS, CLAMSHELL & DRAGLINE | A | 10 | 20 | 0 .000 | .000 | .000 | | 0 .000 | .000 | .000 | | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 90 | | S | 8 | 20 | 0 .000 | .000 | .000 | | 0 .000 | .000 | .000 | | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 95 | BUCKETS, CONCRETE | A | 10 | 20 | 0 .000 | .000 | .000 | | 0 .000 | .000 | .000 | | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 105 | CONCRETE OR GROUT PUMP | A | 8 | 20 | 95 .000 | .097 | .056 | | 0 .000 | .000 | .000 | | 0 | 32 | 28 | 0 | 0 | 0 | 90 |
| 120 | CONCRETE GUNITE EQUIPMENT & FLUID GROUTERS | A | 10 | 20 | 0 .000 | .000 | .000 | | 0 .000 | .000 | .000 | | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 125 | CONCRETE MIXERS & BUGGIES | A | 10 | 20 | 70 .700 | .071 | .041 | | 0 .000 | .000 | .000 | | 50 | 32 | 28 | 0 | 0 | 0 | 80 |
| 135 | CONCRETE VIBRATORS | A | 4 | 20 | 0 .000 | .000 | .000 | | 0 .000 | .000 | .000 | | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| 140 | COMPACTORS, MANUALLY OPERATED | A | 6 | 20 | 90 .000 | .091 | .053 | | 0 .000 | .000 | .000 | | 0 | 24 | 24 | 0 | 0 | 0 | 100 |
| | CRANE, CRAWLER TYPE | | | | | | | | | | | | | | | | | | |
| 150 | 0 THRU 25 TON | A | 13 | 20 | 40 .000 | .041 | .024 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 50 |
| 150 | | S | 11 | 20 | 0 .000 | .053 | .031 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 55 |
| 165 | OVER 25 TON THRU 50 TON | A | 15 | 20 | 40 .000 | .041 | .024 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 60 |
| 165 | | S | 13 | 20 | 0 .000 | .053 | .031 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 65 |
| 170 | OVER 50 TON THRU 150 TON | A | 18 | 20 | 40 .000 | .041 | .024 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 70 |
| 170 | | S | 16 | 20 | 0 .000 | .053 | .031 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 75 |
| 180 | OVER 150 TON | A | 20 | 20 | 40 .000 | .041 | .024 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 80 |
| 180 | | S | 18 | 20 | 0 .000 | .053 | .031 | | 0 .000 | .000 | .000 | | 0 | 18 | 18 | 0 | 0 | 0 | 85 |

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

| KEY NO. | TYPE OF EQUIPMENT | C | LFE | SLV | EQUIPMENT POWER | | | | CARRIER POWER | | | | FOG | | | TIRES | | |
|---------|---------------------------------------|---|-----|-----|-------------------|-------------------|----|----|---------------|----|----|---|-----|---|---|-------|---|-----|
| | | | | | HP | E | G | D | HP | E | G | D | E | G | D | F | D | T |
| | DRAGLINE & CLAMSHELL, CRAWLER MOUNTED | | | | | | | | | | | | | | | | | |
| 185 | 0 THRU 1 CY | A | 12 | 20 | 50 .000 .051 .030 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 185 | | S | 10 | 20 | 0 .000 .066 .039 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 190 | OVER 1 CY THRU 2-1/2 CY | A | 15 | 20 | 50 .000 .051 .030 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 190 | | S | 13 | 20 | 0 .000 .066 .039 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 195 | OVER 2-1/2 CY THRU 5 CY | A | 18 | 20 | 50 .000 .051 .030 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 195 | | S | 16 | 20 | 0 .000 .066 .039 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 196 | OVER 5 CY | A | 20 | 20 | 50 .000 .051 .030 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 196 | | S | 18 | 20 | 0 .000 .066 .039 | 0 .000 .000 .000 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| 200 | CRANES, HYDRAULIC, SELF-PROPELLED | A | 16 | 25 | 65 .000 .066 .038 | 0 .000 .000 .000 | 0 | 32 | 28 | 95 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| | CRANES & HYD. EXC., TRK MTD | | | | | | | | | | | | | | | | | |
| 210 | UNDER 26 T. (THRU 1 CY) | A | 15 | 20 | 65 .000 .066 .038 | 10 .000 .010 .006 | 0 | 30 | 26 | 95 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 210 | | S | 13 | 20 | 0 .000 .086 .049 | 0 .000 .013 .007 | 0 | 30 | 26 | 86 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 225 | 26 THRU 65 T (1 TH 2-1/2 CY) | A | 18 | 20 | 65 .000 .066 .038 | 10 .000 .010 .006 | 0 | 30 | 26 | 95 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| 225 | | S | 16 | 20 | 0 .000 .086 .049 | 0 .000 .013 .007 | 0 | 30 | 26 | 86 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 230 | 66 THRU 125 T | A | 20 | 20 | 65 .000 .066 .038 | 10 .000 .010 .006 | 0 | 30 | 26 | 95 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 230 | | S | 18 | 20 | 0 .000 .086 .049 | 0 .000 .013 .007 | 0 | 30 | 26 | 86 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| 240 | OVER 125 T | A | 22 | 20 | 65 .000 .066 .038 | 10 .000 .010 .006 | 0 | 30 | 26 | 95 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 240 | | S | 20 | 20 | 0 .000 .086 .049 | 0 .000 .013 .007 | 0 | 30 | 26 | 86 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 85 |
| 255 | DRILL, AUGER | A | 10 | 20 | 50 .000 .051 .030 | 0 .000 .000 .000 | 0 | 32 | 28 | 67 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 270 | DRILL, BLAST HOLE | A | 10 | 20 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 90 |
| 315 | DRILL, ROTARY TO 11" DIA. HOLE | A | 15 | 20 | 80 .000 .081 .047 | 10 .000 .010 .006 | 0 | 24 | 24 | 67 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 330 | DRILL, ROTARY OVER 11" DIA. | A | 20 | 20 | 80 .000 .081 .047 | 0 .000 .000 .000 | 0 | 24 | 24 | 67 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 345 | DRILL, ROTARY OVER 11" DIA., ELECTRIC | A | 20 | 20 | 70 ,700 .000 .000 | 0 .000 .000 .000 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |

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 | |
| 375 | FORK LIFTS | A | 10 | 20 | 63 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 24 | 24 | 86 | 77 | 0 | 90 |
| 390 | GRADERS | A | 12 | 25 | 60 | .000 | .061 | .035 | 0 | .000 | .000 | .000 | 0 | 16 | 29 | 86 | 68 | 0 | 70 |
| 390 | | S | 10 | 25 | 0 | .000 | .079 | .046 | 0 | .000 | .000 | .000 | 0 | 16 | 29 | 60 | 39 | 0 | 75 |
| 420 | GENERATORS | A | 10 | 30 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 24 | 24 | 0 | 0 | 0 | 80 |
| 420 | | S | 9 | 30 | 0 | .000 | .086 | .049 | 0 | .000 | .000 | .000 | 0 | 24 | 24 | 0 | 0 | 0 | 90 |
| 435 | HOIST | A | 10 | 20 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 24 | 24 | 0 | 0 | 0 | 90 |
| | HYD. EXCAVATOR (SEE KEY NO. 570-601) | | | | | | | | | | | | | | | | | | |
| 440 | LIGHT PLANTS | A | 10 | 30 | 95 | .000 | .097 | .056 | 0 | .000 | .000 | .000 | 0 | 24 | 24 | 0 | 0 | 0 | 80 |
| 450 | LOADER, BELT | A | 10 | 30 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 32 | 28 | 26 | 0 | 99 | 90 |
| 450 | | S | 8 | 30 | 0 | .000 | .086 | .049 | 0 | .000 | .000 | .000 | 0 | 32 | 28 | 16 | 0 | 99 | 100 |
| 460 | LOADER, FRONT END & LOADER F/E | A | 10 | 25 | 70 | .000 | .071 | .041 | 0 | .000 | .000 | .000 | 0 | 32 | 38 | 0 | 0 | 0 | 110 |
| 460 | WITH BACKHOE, CRAWLER TYPE | S | 8 | 25 | 0 | .000 | .092 | .054 | 0 | .000 | .000 | .000 | 0 | 32 | 38 | 0 | 0 | 0 | 120 |
| | LOADER, WHEEL TYPE | | | | | | | | | | | | | | | | | | |
| 465 | 0 THRU 225 HP | A | 10 | 25 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 32 | 40 | 60 | 40 | 0 | 70 |
| 465 | | S | 8 | 25 | 0 | .000 | .086 | .049 | 0 | .000 | .000 | .000 | 0 | 32 | 40 | 41 | 19 | 0 | 75 |
| 470 | OVER 225 HP | A | 12 | 20 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 32 | 30 | 60 | 40 | 0 | 80 |
| 470 | | S | 10 | 20 | 0 | .000 | .086 | .049 | 0 | .000 | .000 | .000 | 0 | 32 | 30 | 41 | 19 | 0 | 85 |
| 475 | LOADER, FRONT END WITH BACKHOE, WHEEL TYPE | A | 10 | 25 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 32 | 28 | 60 | 40 | 0 | 70 |
| 475 | | S | 8 | 25 | 0 | .000 | .086 | .049 | 0 | .000 | .000 | .000 | 0 | 32 | 28 | 41 | 19 | 0 | 75 |
| 480 | PILE EXTRACTOR, PILE HAMMER & HYDRAULIC IMPACTOR | A | 6 | 20 | 65 | .000 | .066 | .038 | 0 | .000 | .000 | .000 | 0 | 32 | 28 | 0 | 0 | 0 | 90 |
| 485 | PIPELAYERS | A | 12 | 25 | 35 | .000 | .000 | .021 | 0 | .000 | .000 | .000 | 0 | 0 | 32 | 0 | 0 | 0 | 40 |
| 485 | | S | 10 | 25 | 0 | .000 | .000 | .027 | 0 | .000 | .000 | .000 | 0 | 0 | 32 | 0 | 0 | 0 | 45 |
| | PUMP, GROUT (SEE KEY NO. 105) | | | | | | | | | | | | | | | | | | |
| 495 | PUMP, WATER, ENGINE DRIVE | A | 10 | 20 | 90 | .000 | .091 | .053 | 0 | .000 | .000 | .000 | 0 | 32 | 38 | 0 | 0 | 0 | 80 |
| 500 | PUMP, WATER, ELECTRIC DRIVE | A | 10 | 20 | 90 | .900 | .000 | .000 | 0 | .000 | .000 | .000 | 45 | 0 | 0 | 0 | 0 | 0 | 40 |
| 510 | RIPPERS | A | 8 | 20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 510 | | S | 6 | 20 | 0 | .000 | .000 | .000 | 0 | .000 | .000 | .000 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

| KEY NO. | TYPE OF EQUIPMENT | C | LFE | SLV | EQUIPMENT POWER | | | | CARRIER POWER | | | | FOG | | | TIRES | | | RPR | |
|------------|---|---|-----|-----|-----------------|------|------|------|---------------|----|------|------|------|----|----|-------|----|----|-----|-----|
| | | | | | H | P | E | G | D | H | P | E | B | B | E | G | B | F | D | T |
| 525 | ROLLERS, EXCEPT VIB. ROLLERS | A | 10 | 20 | 65 | .000 | .066 | .038 | | 65 | .000 | .066 | .038 | 0 | 24 | 24 | 76 | 64 | 99 | 90 |
| 530 | ROLLERS, VIBRATORY | A | 8 | 25 | 90 | .000 | .091 | .053 | | 90 | .000 | .091 | .053 | 0 | 24 | 24 | 76 | 64 | 99 | 130 |
| 540 | SCRAPERS, STANDARD | A | 10 | 20 | 60 | .000 | .000 | .035 | | 60 | .000 | .000 | .035 | 0 | 0 | 27 | 58 | 31 | 65 | 70 |
| 540 | | S | 8 | 20 | 0 | .000 | .000 | .046 | | 0 | .000 | .000 | .046 | 0 | 0 | 27 | 40 | 19 | 27 | 75 |
| 542 | SCRAPERS, TANDEM POWERED | A | 10 | 20 | 62 | .000 | .000 | .037 | | 62 | .000 | .000 | .037 | 0 | 0 | 25 | 58 | 25 | 60 | 70 |
| 542 | | S | 8 | 20 | 0 | .000 | .000 | .048 | | 0 | .000 | .000 | .048 | 0 | 0 | 25 | 40 | 18 | 40 | 75 |
| | SCRAPERS, ELEVATING | | | | | | | | | | | | | | | | | | | |
| 545 | 0 THRU 200 HP | A | 10 | 20 | 66 | .000 | .000 | .039 | | 66 | .000 | .000 | .039 | 0 | 0 | 34 | 0 | 25 | 60 | 85 |
| 545 | | S | 8 | 20 | 0 | .000 | .000 | .051 | | 0 | .000 | .000 | .051 | 0 | 0 | 34 | 0 | 18 | 40 | 90 |
| 550 | OVER 200 HP | A | 10 | 20 | 66 | .000 | .000 | .039 | | 66 | .000 | .000 | .039 | 0 | 0 | 24 | 0 | 25 | 60 | 75 |
| 550 | | S | 8 | 20 | 0 | .000 | .000 | .051 | | 0 | .000 | .000 | .051 | 0 | 0 | 24 | 0 | 18 | 40 | 80 |
| 555 | SCRAPERS, TRACTOR DRAWN | A | 12 | 20 | 0 | .000 | .000 | .000 | | 0 | .000 | .000 | .000 | 0 | 0 | 0 | 58 | 0 | 65 | 70 |
| 555 | | S | 10 | 20 | 0 | .000 | .000 | .000 | | 0 | .000 | .000 | .000 | 0 | 0 | 0 | 40 | 0 | 45 | 75 |
| | SHOVELS, BACKHOES, & HYDRAULIC EXCAVATORS CRAWLER MOUNTED | | | | | | | | | | | | | | | | | | | |
| 570 | 0 THRU 1 CY | A | 11 | 20 | 60 | .000 | .061 | .035 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 80 |
| 570 | | S | 9 | 20 | 0 | .000 | .079 | .046 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 90 |
| 585 | OVER 1 CY THRU 2-1/2 CY | A | 13 | 20 | 60 | .000 | .061 | .035 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 90 |
| 585 | | S | 11 | 20 | 0 | .000 | .079 | .046 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 100 |
| 595 | OVER 2-1/2 CY THRU 5 CY | A | 16 | 20 | 60 | .000 | .061 | .035 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 100 |
| 595 | | S | 14 | 20 | 0 | .000 | .079 | .046 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 110 |
| 600 | OVER 5 CY | A | 18 | 20 | 60 | .000 | .061 | .035 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 110 |
| 600 | | S | 16 | 20 | 0 | .000 | .079 | .046 | | 0 | .000 | .000 | .000 | 0 | 18 | 18 | 0 | 0 | 0 | 120 |
| 601 | OVER 2-1/2 CY ELECTRIC | A | 22 | 20 | 50 | .500 | .000 | .000 | | 0 | .000 | .000 | .000 | 25 | 0 | 0 | 0 | 0 | 0 | 80 |
| 601 | | S | 20 | 20 | 0 | .650 | .000 | .000 | | 0 | .000 | .000 | .000 | 25 | 0 | 0 | 0 | 0 | 0 | 90 |
| | TRACTOR, CRAWLER TYPE | | | | | | | | | | | | | | | | | | | |
| 615 | 0 THRU 225 HP | A | 10 | 30 | 70 | .000 | .000 | .041 | | 0 | .000 | .000 | .000 | 0 | 0 | 32 | 0 | 0 | 0 | 90 |
| 615 | | S | 8 | 30 | 0 | .000 | .000 | .054 | | 0 | .000 | .000 | .000 | 0 | 0 | 32 | 0 | 0 | 0 | 100 |
| 620 | 226 HP THRU 425 HP (PER UNIT FOR TANDEM TRACTORS) | A | 12 | 25 | 70 | .000 | .000 | .041 | | 0 | .000 | .000 | .000 | 0 | 0 | 25 | 0 | 0 | 0 | 100 |
| 620 | | S | 10 | 25 | 0 | .000 | .000 | .054 | | 0 | .000 | .000 | .000 | 0 | 0 | 25 | 0 | 0 | 0 | 110 |

EP 1110-1-8
 (Vol. 7)
 15 Jun 81

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 | |
| 625 | OVER 425 HP | A | 14 | 20 | 70 .000 .000 .041 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 115 |
| 625 | | S | 12 | 20 | 0 .000 .000 .054 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 125 |
| 630 | TRACTOR, BLADES, PUSH BLOCKS, | A | 10 | 20 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 |
| 630 | PUSH PLATES & CLEARING BLADES | S | 8 | 20 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 90 |
| 645 | TRACTOR, WHEEL TYPE | A | 10 | 20 | 65 .000 .066 .038 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 60 |
| 645 | | S | 8 | 20 | 0 .000 .086 .049 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 65 | |
| 650 | TRENCHER | A | 10 | 20 | 65 .000 .066 .038 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 90 | |
| 650 | | S | 8 | 20 | 0 .000 .086 .049 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 100 | |
| 655 | TRAILERS, BOTTOM DUMP AND | A | 10 | 25 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 61 | |
| 655 | END DUMP | S | 8 | 25 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 90 | |
| 660 | TRAILERS, FLATBED, LO-BOY AND TILT | A | 10 | 30 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 60 | |
| | TRUCK ACCESSORIES FOR CHASSIS MOUNTING | | | | | | | | | | | | | | | | | | |
| 670 | DUMP BODIES | A | 8 | 20 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | |
| 670 | | S | 6 | 20 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 90 | |
| 675 | ALL OTHER ACCESSORIES | A | 8 | 20 | 65 .000 .066 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | |
| | TRUCK, HIGHWAY | | | | | | | | | | | | | | | | | | |
| 690 | 0 THRU 10,000 GVW | A | 8 | 20 | 20 .000 .020 .012 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 70 | |
| 690 | | S | 6 | 20 | 0 .000 .026 .015 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | |
| 695 | OVER 10,000 THRU 30,000 GVW | A | 8 | 20 | 40 .000 .041 .024 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 70 | |
| 695 | | S | 6 | 20 | 0 .000 .053 .031 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | |
| 705 | OVER 30,000 GVW | A | 8 | 20 | 60 .000 .061 .035 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 70 | |
| 705 | | S | 6 | 20 | 0 .000 .079 .046 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | |
| 720 | TRUCK, OFF-HIGHWAY | A | 12 | 20 | 40 .000 .000 .024 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 70 | |
| 720 | | S | 10 | 20 | 0 .000 .000 .031 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | | |
| 765 | WAGON, BOTTOM DUMP & WATER | A | 12 | 20 | 65 .000 .066 .038 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 60 | |
| 765 | | S | 10 | 20 | 0 .000 .086 .049 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 65 | | |
| 780 | WAGON, REAR DUMP | A | 12 | 20 | 65 .000 .066 .038 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 70 | |
| 780 | | S | 10 | 20 | 0 .000 .086 .049 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 80 | | |
| 785 | WATER BLASTER | A | 6 | 20 | 95 .000 .097 .056 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 0 .000 .000 .000 | 110 | |

EQUIPMENT HOURLY EXPENSE CALCULATION FACTORS (CONTINUED)

| KEY NO. | TYPE OF EQUIPMENT | C | LFE | SLV | EQUIPMENT POWER | | | | CARRIER POWER | | | | FOG | | | TIRES | | | RPR |
|---------|------------------------|---|-----|-----|-----------------|-----------|---------|---------|---------------|---------|---------|---------|-----|----|----|-------|---|---|-----|
| | | | | | HP | E | G | D | HP | E | G | D | E | G | D | F | D | T | |
| 795 | WATER TANKS | A | 8 | 20 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 810 | WELDERS | A | 6 | 30 | 80 . 000 | 081 . 047 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 | 24 | 24 | 0 | 0 | 0 | 90 |
| 811 | WELDERS ELECTRIC POWER | A | 8 | 30 | 60 . 600 | 000 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 0 . 000 | 30 | 0 | 0 | 0 | 0 | 0 | 40 |

APPENDIX E

SALVAGE AND REPAIR INDEXES FOR CONSTRUCTION EQUIPMENT

| CATEGORY | YEAR PURCHASE NEW | | | | | | | | | | | |
|--|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1981 | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | 1970 |
| | AGE IN YEARS | | | | | | | | | | | |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Air Equipment | 1787 | 1649 | 1521 | 1354 | 1295 | 1186 | 1165 | 1028 | 935 | 920 | 929 | 936 |
| Asphalt & Concrete Paving Equipment | 2498 | 2306 | 2111 | 1941 | 1815 | 1686 | 1610 | 1451 | 1304 | 1263 | 1235 | 1163 |
| Buckets | 4357 | 3879 | 3280 | 2963 | 2738 | 2520 | 2175 | 1838 | 1430 | 1370 | 1316 | 1188 |
| Cranes, Draslines & Clamshells - Crawler & Truck Mounted | 3044 | 2787 | 2512 | 2301 | 2138 | 2010 | 1843 | 1522 | 1305 | 1260 | 1212 | 1147 |
| Drills | 2496 | 2267 | 1993 | 1858 | 1699 | 1638 | 1559 | 1373 | 1249 | 1184 | 1160 | 1115 |
| Generators | 3153 | 2858 | 2390 | 2301 | 2128 | 2053 | 1839 | 1456 | 1316 | 1283 | 1243 | 1188 |
| Graders, Motor | 3289 | 2994 | 2687 | 2492 | 2259 | 2109 | 1956 | 1604 | 1361 | 1244 | 1208 | 1152 |
| Loaders, Track | 2918 | 2663 | 2376 | 2188 | 2024 | 1859 | 1755 | 1445 | 1249 | 1219 | 1184 | 1135 |
| Loaders, Wheel | 3260 | 2940 | 2606 | 2375 | 2156 | 2002 | 1907 | 1584 | 1362 | 1317 | 1261 | 1197 |
| Pile Driving Equipment | 3200 | 2892 | 2562 | 2329 | 2135 | 1989 | 1852 | 1523 | 1307 | 1257 | 1218 | 1159 |
| Rollers | 3248 | 2926 | 2653 | 2396 | 2139 | 1983 | 1872 | 1556 | 1328 | 1279 | 1230 | 1178 |
| Scrapers | 3289 | 2994 | 2687 | 2492 | 2259 | 2109 | 1956 | 1604 | 1361 | 1244 | 1208 | 1152 |
| Shovels, Backhoes & Hydraulic Excavators | 3044 | 2787 | 2512 | 2301 | 2138 | 2010 | 1843 | 1522 | 1305 | 1260 | 1212 | 1147 |
| Tractors, Crawler & Attachments | 3393 | 3061 | 2750 | 2482 | 2247 | 2053 | 1916 | 1573 | 1329 | 1281 | 1236 | 1181 |
| Tractors, Wheel | 3257 | 2927 | 2578 | 2319 | 2125 | 1956 | 1813 | 1498 | 1288 | 1251 | 1211 | 1152 |
| Trenchers | 3503 | 3153 | 2772 | 2580 | 2300 | 1894 | 1633 | 1527 | 1384 | 1316 | 1284 | 1207 |
| Trucks, Highway | 2537 | 2320 | 2108 | 1934 | 1775 | 1646 | 1524 | 1369 | 1230 | 1211 | 1185 | 1114 |
| Trucks & Wagons - Off Highway | 3270 | 2960 | 2588 | 2364 | 2196 | 2081 | 1965 | 1568 | 1315 | 1293 | 1245 | 1190 |
| All Other Equipment | 3200 | 2892 | 2562 | 2329 | 2135 | 1989 | 1852 | 1523 | 1307 | 1257 | 1218 | 1159 |

TO EXTEND AGE: Add difference between 11th & 12th year for each additional year.

APPENDIX F

TIRE LIFE AND TIRE WEAR FACTORS

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

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

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

TABLE F-1. Maximum Tire Life.

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

APPENDIX G

EQUIPMENT EXTRAS

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

(1) Crane, Crawler-Mounted.

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

(2) Dragline and Clamshell, Crawler-Mounted.

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

(3) Backhoe and Shovel, Crawler-Mounted.

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

(4) Truck Crane Less than 25 Ton.

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

(5) Truck Crane 25 Ton and Larger.

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

(6) 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.

(7) Belt Loader.

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

(8) 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.

(9) Scraper.

- (a) Control single lever.
- (b) Reversible fan blade.
- (c) Flood light.
- (d) Alternator.
- (e) Guards, power train.

(10) Tractor, Crawler.

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

(11) Tractor, Wheel Dozer.

- (a) Hydraulic controls for ripper and blade.
- (b) Guards.
- (c) Reversible fan blade.
- (d) Alternator.
- (e) Blade.
- (f) Counterweight.

(12) Trucks, Off-Highway.

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