

Area Factors (for all regions)

Region		SST	WHPY	LAF	Freight Cost						\$ Thru	CWT	\$ Thru	CWT	\$ Thru	CWT	\$ Thru	CWT	\$ Thru	CWT	\$ Thru	CWT	Over
					Elec	Gas	D-Off	D-On	MG	MD													
1	NORTHEAST	5.75%	1330	1.15	\$0.144	\$2.24	\$2.48	\$2.99	\$2.56	\$3.15	\$32.56	240	\$26.40	300	\$22.75	400	\$20.20	500	\$29.27	700	\$29.27	800	\$29.56
2	MIDEAST	5.95%	1410	1.02	\$0.100	\$2.23	\$2.32	\$2.79	\$2.56	\$3.15	\$15.31	240	\$12.30	300	\$10.57	400	\$9.37	500	\$13.30	700	\$13.30	800	\$13.43
3	SOUTHEAST	7.75%	1490	0.9	\$0.098	\$2.00	\$2.22	\$2.67	\$2.56	\$3.15	\$20.15	240	\$16.85	300	\$14.68	400	\$13.10	500	\$20.35	700	\$20.35	800	\$20.55
4	NORTHCENTRAL	5.45%	1160	1.05	\$0.103	\$2.15	\$2.29	\$2.76	\$2.56	\$3.15	\$26.28	240	\$20.53	300	\$17.46	400	\$15.40	500	\$20.25	700	\$17.36	800	\$9.73
5	MIDWEST	7.25%	1270	0.99	\$0.097	\$2.06	\$2.20	\$2.65	\$2.56	\$3.15	\$18.98	240	\$15.11	300	\$12.94	400	\$11.46	500	\$15.88	700	\$14.14	800	\$9.57
6	SOUTHWEST	5.10%	1430	0.88	\$0.086	\$1.96	\$2.16	\$2.60	\$2.56	\$3.15	\$23.96	240	\$19.23	300	\$16.52	400	\$14.47	500	\$20.69	700	\$17.74	800	\$9.94
7	WEST	8.10%	1560	1.14	\$0.110	\$2.68	\$2.64	\$3.18	\$2.56	\$3.15	\$30.76	240	\$25.10	300	\$21.68	400	\$19.27	500	\$28.34	700	\$24.29	800	\$13.61
8	NORTHWEST	5.35%	1480	1.05	\$0.085	\$2.65	\$2.60	\$3.13	\$2.56	\$3.15	\$28.74	240	\$19.94	300	\$16.17	400	\$13.92	500	\$11.26	700	\$9.51	800	\$6.48
9	ALASKA	4.75%	1000	1.16	\$0.201	\$2.55	\$2.45	\$2.95	\$2.56	\$3.15	\$73.47	240	\$52.89	300	\$38.24	400	\$33.41	500	\$31.24	700	\$28.53	800	\$24.40
10	HAWAII	4.25%	1520	1.23	\$0.296	\$3.23	\$3.46	\$4.17	\$2.56	\$3.15	\$112.19	240	\$53.04	300	\$50.92	400	\$48.54	500	\$50.76	700	\$47.30	800	\$25.53
11	PUERTO RICO	10.50%	1480	0.68	\$0.252	\$2.00	\$2.22	\$2.67	\$2.56	\$3.15	\$42.58	240	\$24.39	300	\$20.29	400	\$19.03	500	\$18.72	700	\$17.52	800	\$12.67
12	KWAJALEIN	4.25%	1370	0.95	\$0.296	\$3.23	\$3.46	\$4.17	\$2.56	\$3.15	\$26.14	240	\$18.60	300	\$18.43	400	\$15.83	500	\$12.23	700	\$10.61	800	\$8.09

SST = State Sales Tax

WHPY = Work Hours Per Year

LAF = Labor Adjustment Factor

Elec = Electricity Cost Per kW-Hr

## Appendix C

### Guide for Selecting Operating Conditions

---

#### B25 and B35:

Buckets Clamshell or Dragline	Working in gravels, silts, and sands at low impact, freshwater environment.	Working in rock, hard digging, high impact, or saltwater environment.
Depreciation Period:	8,000 - 10,000 hours	6,500 - 8,000 hours

#### C80 and C90:

Cranes Hydraulic, Truck Mounted Mechanical, Truck Mounted	Lift less than rated capacity, intermittent duty.	Continuous lift near rated capacity, excessive swing, abrasive materials, sloped surfaces, and saltwater environment.
Depreciation Period:	14,000 - 20,000 hours	12,000 - 18,000 hours

#### C85:

Cranes Mechanical Dragline, Lifting, or Clamshell Crawler Mounted	Gravels, silts, pull, and lift less than rated capacity.	Highly abrasive materials, impact breakout, continuous load near rated capacity, and saltwater environment.
Depreciation Period:	14,000 - 22,000 hours	12,000 - 18,000 hours

#### G10:

Generators	Working below rated capacity, good field conditions.	Working at or above rated capacity, poor field conditions, such as saltwater.
Depreciation Period:	8,000 - 10,000 hours	7,000 - 8,000 hours

## Appendix C

### Guide for Selecting Operating Conditions

---

#### G15:

Graders, Motor	Haul road maintenance; road construction, ditching; loose fill spreading; landforming, landleveling; summer road maintenance with medium to heavy winter snow removal; and elevating grader use.	Maintenance of hard-packed roads with embedded rock; heavy fill spreading; ripping scarifying of asphalt or concrete; continuous high load factor; and high impact.
Depreciation Period:	14,500 hours	13,500 hours

#### H25:

Hydraulic Excavators Crawler Mounted	Mass excavation or trenching where machine digs all the time in natural bed clay soils; some traveling and steady, full throttle operation; and most log loading operations.	Continuous trenching or truck loading in rock or shot rock soils; large amount of travel over rough ground; machine continuously working on rock floor with constant high load factor and high impact; and saltwater environment.
Depreciation Period:	8,500 - 19,000 hours	7,000 – 15,000 hours

#### H30:

Hydraulic Excavators Wheel Mounted	Continuous digging in sandy clay/sandy gravel, site development, and lumber yard applications.	Continuous digging in rock/natural bed clay, high impact, using hammer, and working in forests or quarries.
Depreciation Period:	8,000 - 10,000 hours	6,500 - 8,000 hours

## Appendix C

### Guide for Selecting Operating Conditions

---

#### H35:

Hydraulic Shovels Crawler Mounted (nonelectric)	Continuous loading in well shot rock or fairly tight bank. Good underfoot conditions: dry floor, little impact, or sliding on undercarriage.	Continuous loading in poorly shot rock, virgin, or lightly blasted tight banks. Adverse underfoot conditions: rough floors, high impact sliding on undercarriage; and saltwater environment.
Depreciation Period:	14,000 - 18,000 hours	12,000 - 16,000 hours

#### L10:

Land Clearing Equipment	Working in low impact conditions at or below rated capacity.	High impact conditions working at or above rated capacity.
Depreciation Period:	10,000 hours	7,000 hours

#### L30:

Loaders, Belt (conveyors)	Working below rated capacity, with intermittent service.	Working at or above rated capacity with continuous service.
Depreciation Period:	10,000 hours	8,000 hours

## Appendix C

### Guide for Selecting Operating Conditions

---

#### L35:

Loaders, Front End, Crawler Type	Bank excavation, intermittent ripping, basement digging of natural bed clays, sands, silts, and gravels; some traveling; and steady full throttle operations.	Loading shot rock, cobbles, glacial till, and caliche; steel millwork; high density materials in standard bucket; continuous work on rock surfaces; large amount of ripping of tight rock materials; high impact conditions; and saltwater environment.
Depreciation Period:	10,000 hours	8,000 hours

#### L40:

Loaders, Front End Wheel Type (does not include skid steer and tool carriers)	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; and load and carry on poor surfaces and slight adverse grades.	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; load and carry in hard digging; travel longer distances on poor surfaces
Depreciation Period:	9,250 - 13,500 hours	8,750 - 12,000 hours

## Appendix C

### Guide for Selecting Operating Conditions

---

#### L45 and L50:

Loaders with Backhoe Crawler Type and Wheel Type	Utility applications in medium to heavy soil; occasional use of constant flow implements and dig depths to 3.05 meters (10 feet).	Production applications or digging in rock; regular use of constant flow implements; and dig depths over 3.05 meters (10 feet).
Depreciation Period:	8,000 hours	6,000 hours

#### L60:

Log Skidders	Continuous turning, steady skidding for medium distances with moderate decking. Good underfooting: dry floor with few stumps and gradual rolling terrain.	Continuous turning, steady skidding for long distances with frequent decking; poor underfoot conditions: wet floor, steep slopes, and numerous stumps; and saltwater environment.
Depreciation Period:	10,000 hours	8,000 hours

#### M10 - .31 and .32:

Clamshell dredges < 5 cy, Amphibious Excavator	Gravel, silts, breakout force at less than capacity, freshwater conditions.	Rock, abrasive materials, load at rated capacity, saltwater conditions.
Depreciation Period:	10,000 - 20,000 hours	9,000 - 18,000 hours

## Appendix C

### Guide for Selecting Operating Conditions

---

#### M10 - .51 and .53:

Boats, Skiffs, Crew Boats, Work Boats, Survey Boats, and Launches	Freshwater applications, light waves, and steady to light use.	Saltwater use, medium to high waves, heavy use.
Depreciation Period:	16,000 - 18,000 hours	13,000 - 15,000 hours

#### P35:

Pipelayers	Typical pipelayer use in operating conditions ranging from very good to severe.	Continuous use in deep mud or water or on rock surfaces.
Depreciation Period:	14,000 hours	11,500 hours

#### R10:

Rippers and Bank Slopers	Light rock, medium breakout force required.	Hard rock, excessive wear due to high breakout force.
Depreciation Period:	8,000 hours	6,500 hours

#### S10, S15, S20, and S25:

Scrapers, Self-Propelled, Tractor Drawn, Soil Stabilizers	Varying loading and haul road conditions; long and short hauls; adverse and favorable grades; some impact; and typical road-building use on a variety of jobs.	High impact conditions, such as loading ripped rock; overloading, continuous high total resistance conditions; and rough haul roads.
Depreciation Period:	10,000 - 15,000 hours	8,000 - 13,500 hours

## Appendix C

### Guide for Selecting Operating Conditions

---

#### T15:

Tractors Crawler (Dozer)	Production dozing in clays, sands, gravels, and talus rock. Push-loading scrapers, borrow pit ripping, most land clearing and skidding applications. Medium impact conditions. Production landfill work.	Heavy rock ripping; tandem ripping; pushloading and dozing in hard rock; work on rock surfaces; continuous high impact conditions; and saltwater environment.
Depreciation Period:	10,000 - 15,000 hours	8,000 - 12,500 hours

#### T20:

Tractors Wheel Type (Dozer)	Production dozing, push loading in clays, sands, silts, loose gravels; and shovel cleanup.	Production dozing in rock; push loading in rocky, boulder strewn borrow pits; high impact conditions; and landfill compactor work.
Depreciation Period:	14,000 hours	13,000 hours

#### T30:

Trenchers Chain and Wheel Type	Working in sands and silts below rated capacity of the machine.	Working in gravels and abrasive materials at or above the rated capacity of the machine.
Depreciation Period:	8,000 hours	6,000 hours



## Appendix C

### Guide for Selecting Operating Conditions

---

#### T45 and T50:

Truck Trailers Trucks, Highway	Varying loading and road conditions; and typical construction use on a variety of jobs.	Consistently poor road conditions; and oversized loading equipment.
Depreciation Period:	8,000 - 12,000 hours	6,500 - 10,000 hours

#### T55 and T60:

Truck, Off-Highway Trucks, Water, Off-Highway (Articulated and Rigid)	Varying load and haul road conditions; high rolling resistance and poor traction during part of the job; some adverse grades; some impact loads; and typical use in road building, dam construction, open-pit mining, etc.	Continuous use on very poorly maintained haul roads, high rolling resistance, and poor traction; frequent adverse grades and high impact loads; and poorly matched loading equipment with continuous overloading.
Depreciation Period:	12,000 - 20,000 hours	10,000 - 18,000 hours

#### W10 and W15:

Wagons Bottom Dump Rear Dump	Varying load and haul road conditions; long and short hauls; high rolling resistance and poor traction during part of the job; some adverse grades; some impact; typical road building use in a variety of jobs; and dam construction, open-pit mining, etc.	Continuous use on very poorly maintained haul roads, high rolling resistance, and poor traction; high impact conditions, such as loading ripped rock; frequent adverse grades and high impact loads; and poorly matched loading equipment with continuous overl
Depreciation Period:	12,000 hours	10,000 hours

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	E	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
<b>A10</b>	<b>0.00</b>	AGGREGATE / CHIP SPREADERS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
A10	0.10	SELF PROPELLED	10	A	B	8,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.000	.102	.102	0.88	0.77	0.98	0.75
A10	0.20	TOWED & TAILGATE	10	A	B	6,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.59	0.00	0.66	0.60
<b>A15</b>	<b>0.00</b>	AIR COMPRESSORS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
A15	0.10	ROTARY SCREW	5	A	B	10,000	0.20	75	.750	.068	.036	0	.000	.000	.000	.477	.136	.119	0.66	0.00	0.73	0.75
A15	0.20	SHOP TYPE	5	A	B	12,000	0.15	75	.750	.068	.036	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.65
<b>A20</b>	<b>0.00</b>	AIR HOSE, TOOLS & EQUIPMENT	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
A20	0.10	AIR DRILL HOSE	5	A	B	3,500	0.05	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	1.50
A20	0.20	SANDBLAST HOSE	5	A	B	3,500	0.05	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	1.65
A20	0.30	SANDBLASTERS, BREAKERS, & MISC. AIR TOOLS	5	A	B	6,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.96	0.86	1.07	1.50
<b>A25</b>	<b>0.00</b>	ASPHALT PAVING DISTRIBUTORS	10	A	B	6,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.119	0.96	0.63	1.07	0.85
<b>A30</b>	<b>0.00</b>	ASPHALT PAVERS & MISCELLANEOUS ROAD EQUIPMENT	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
A30	0.10	SELF PROPELLED	10	A	B	8,000	0.15	70	.700	.063	.034	0	.000	.000	.000	.000	.136	.119	1.08	0.71	1.20	1.00
A30	0.20	TOWED	10	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.119	1.09	0.00	1.21	0.80
A30	0.30	SLURRY SEAL PAVERS (Cold mix)	10	A	B	12,000	0.20	60	.600	.054	.029	13	.130	.012	.006	.000	.100	.100	0.98	0.64	1.09	0.55
A30	0.40	MISCELLANEOUS ROAD EQUIPMENT	10	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.119	0.86	0.78	0.96	0.80
<b>A35</b>	<b>0.00</b>	ASPHALT PAVING KETTLES	10	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.119	1.09	0.71	1.21	0.80
<b>A40</b>	<b>0.00</b>	ASPHALT & CONCRETE MILLERS / PROFILERS / PLANERS / ROTARY GRINDERS	10	A	B	6,000	0.20	95	.950	.086	.045	0	.000	.000	.000	.000	.136	.119	0.97	0.64	1.08	1.00
<b>A45</b>	<b>0.00</b>	ASPHALT RECYCLERS & SEALERS	10	A	B	5,000	0.20	65	.650	.059	.031	50	.500	.045	.024	.000	.136	.119	0.97	0.85	1.08	0.90
<b>B10</b>	<b>0.00</b>	BATCH PLANTS, ASPHALT & CONCRETE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
B10	0.10	ASPHALT	10	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.68	0.61	0.76	1.00
B10	0.20	CONCRETE	10	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.68	0.61	0.76	1.00
B10	0.30	PUGMILL	10	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.68	0.61	0.76	1.00
<b>B15</b>	<b>0.00</b>	BROOMS, STREET SWEEPERS & FLUSHERS	95	A	B	8,000	0.10	65	.650	.059	.031	13	.130	.012	.006	.000	.102	.119	0.86	0.66	0.96	0.80
<b>B20</b>	<b>0.00</b>	BRUSH CHIPPERS	95	A	B	8,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.119	0.00	0.00	0.84	0.90
<b>B25</b>	<b>0.00</b>	BUCKETS, CLAMSHELL	15	A	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.70
<b>B25</b>	<b>0.00</b>	BUCKETS, CLAMSHELL	15	S	B	6,500	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80
<b>B30</b>	<b>0.00</b>	BUCKETS, CONCRETE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
B30	0.10	GENERAL PURPOSE, MANUAL TRIP	15	A	B	8,000	0.05	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.70
B30	0.20	LAYDOWN	15	A	B	8,000	0.05	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.75
B30	0.30	LOWBOY	15	A	B	8,000	0.05	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80
B30	0.40	LOW SLUMP	15	A	B	8,000	0.05	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80
<b>B35</b>	<b>0.00</b>	BUCKETS, DRAGLINE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
B35	0.10	LIGHT WEIGHT	15	A	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.70
B35	0.10	LIGHT WEIGHT	15	S	B	6,500	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80
B35	0.20	MEDIUM WEIGHT	15	A	B	9,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.70
B35	0.20	MEDIUM WEIGHT	15	S	B	7,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80
B35	0.30	HEAVY WEIGHT	15	A	B	10,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.70
B35	0.30	HEAVY WEIGHT	15	S	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80
<b>C05</b>	<b>0.00</b>	CHAIN SAWS	95	A	B	2,000	0.10	90	.900	.081	.043	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	2.50
<b>C10</b>	<b>0.00</b>	COMPACTORS, WALK-BEHIND OR REMOTE CONTROLLER	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
C10	0.10	COMPACTORS, RAMMERS / TAMPERS & VIBRATORY PLATES	95	A	B	4,000	0.05	90	.900	.081	.043	0	.000	.000	.000	.477	.102	.102	0.00	0.00	0.00	1.20

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
C10	0.20	ROLLERS, VIBRATORY	95	A	B	4,000	0.15	90	.900	.081	.043	0	.000	.000	.000	.477	.102	.102	0.00	0.00	0.00	1.20
<b>C15</b>	<b>0.00</b>	CONCRETE CLEANERS / ABRASIVE BLASTERS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
C15	0.10	WALK BEHIND	95	A	B	4,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.136	.119	0.00	0.00	0.00	0.90
C15	0.20	TRUCK/TRAILER MOUNTED	95	A	B	8,000	0.20	95	.950	.086	.045	50	.500	.045	.024	.000	.136	.119	0.76	0.68	0.84	0.90
<b>C20</b>	<b>0.00</b>	CONCRETE BUGGIES	95	A	B	4,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.136	.119	0.97	0.85	1.08	0.70
<b>C25</b>	<b>0.00</b>	CONCRETE FINISHERS/SCREEDS/SPREADER S	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
C25	0.10	FINISHERS/TROWELS	95	A	B	5,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.136	.119	0.00	0.00	0.00	0.80
C25	0.20	VIBRATORY SCREED	95	A	B	5,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.136	.119	0.86	0.75	0.96	0.80
C25	0.25	VIBRATORY LASER SCREED	95	A	B	8,000	0.30	65	.650	.059	.031	0	.000	.000	.000	.000	.180	.160	0.86	0.78	0.96	0.60
C25	0.30	MATERIAL/TOPPING SPREADERS	95	A	B	8,000	0.30	65	.650	.059	.031	0	.000	.000	.000	.000	.180	.160	0.86	0.75	0.96	0.60
<b>C30</b>	<b>0.00</b>	CONCRETE GRINDERS	95	A	B	5,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.136	.119	0.00	0.00	0.00	0.90
<b>C35</b>	<b>0.00</b>	CONCRETE GUNITERS / SHOTCRETERS	95	A	B	7,000	0.25	75	.750	.068	.036	0	.000	.000	.000	.477	.136	.119	0.68	0.61	0.76	0.90
<b>C40</b>	<b>0.00</b>	CONCRETE MIXING UNITS	95	A	B	5,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.136	.119	0.68	0.61	0.76	0.80
<b>C45</b>	<b>0.00</b>	CONCRETE PAVING MACHINES	10	A	B	6,000	0.20	75	.750	.068	.036	0	.000	.000	.000	.000	.136	.119	1.08	0.82	1.20	1.00
<b>C55</b>	<b>0.00</b>	CONCRETE PUMPS	95	A	B	8,000	0.10	70	.700	.063	.034	10	.100	.009	.005	.477	.136	.119	0.76	0.61	0.84	1.00
<b>C60</b>	<b>0.00</b>	CONCRETE SAWS (Add cost for sawblade wear)	95	A	B	6,000	0.10	90	.900	.081	.043	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	1.00
<b>C65</b>	<b>0.00</b>	CONCRETE VIBRATORS	5	A	B	4,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	2.50
<b>C70</b>	<b>0.00</b>	CRANES, GANTRY & STRADDLE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
<b>C75</b>	<b>0.00</b>	CRANES, HYDRAULIC, SELF- PROPELLED	20	A	B	14,000	0.15	75	.750	.068	.036	0	.000	.000	.000	.000	.136	.127	0.76	0.68	0.84	0.80
<b>C80</b>	<b>0.00</b>	CRANES, HYDRAULIC, TRUCK MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
C80	0.01	UNDER 26 TON	20	A	B	14,000	0.15	65	.650	.059	.031	10	.100	.009	.005	.000	.161	.153	1.08	0.97	1.20	0.60
C80	0.01	UNDER 26 TON	20	S	B	12,000	0.15	85	.850	.077	.041	13	.130	.012	.006	.000	.161	.153	0.42	0.34	0.47	0.65
C80	0.02	26 TON THRU 65 TON	20	A	B	16,000	0.15	65	.650	.059	.031	10	.100	.009	.005	.000	.127	.110	1.08	0.97	1.20	0.70
C80	0.02	26 TON THRU 65 TON	20	S	B	14,000	0.15	85	.850	.077	.041	13	.130	.012	.006	.000	.127	.110	0.42	0.34	0.47	0.75
C80	0.03	66 TON THRU 125 TON	20	A	B	18,000	0.15	65	.650	.059	.031	10	.100	.009	.005	.000	.127	.110	1.08	0.97	1.20	0.80
C80	0.03	66 TON THRU 125 TON	20	S	B	16,000	0.15	85	.850	.077	.041	13	.130	.012	.006	.000	.127	.110	0.42	0.34	0.47	0.85
C80	0.04	OVER 125 TON	20	A	B	20,000	0.15	65	.650	.059	.031	10	.100	.009	.005	.000	.127	.110	1.08	0.97	1.20	0.90
C80	0.04	OVER 125 TON	20	S	B	18,000	0.15	85	.850	.077	.041	13	.130	.012	.006	.000	.127	.110	0.42	0.34	0.47	0.95
<b>C85</b>	<b>0.00</b>	CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
C85	0.11	DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY	20	A	B	14,000	0.20	55	.550	.050	.026	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.80
C85	0.11	DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY	20	S	B	12,000	0.20	72	.720	.065	.034	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.90
C85	0.12	DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY	20	A	B	16,000	0.20	55	.550	.050	.026	0	.000	.000	.000	.000	.144	.144	0.00	0.00	0.00	0.85
C85	0.12	DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY	20	S	B	13,000	0.20	72	.720	.065	.034	0	.000	.000	.000	.000	.144	.144	0.00	0.00	0.00	0.95
C85	0.13	DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY	20	A	B	18,000	0.20	55	.550	.050	.026	0	.000	.000	.000	.000	.093	.093	0.00	0.00	0.00	0.95
C85	0.13	DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY	20	S	B	15,000	0.20	72	.720	.065	.034	0	.000	.000	.000	.000	.093	.093	0.00	0.00	0.00	1.05
C85	0.14	DRAGLINE, CLAMSHELL, OVER 5.0 CY	20	A	B	20,000	0.20	55	.550	.050	.026	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	1.05
C85	0.14	DRAGLINE, CLAMSHELL, OVER 5.0 CY	20	S	B	16,000	0.20	72	.720	.065	.034	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	1.15
C85	0.21	LIFTING, 0 THRU 25 TON	20	A	B	16,000	0.20	40	.400	.036	.019	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.65
C85	0.21	LIFTING, 0 THRU 25 TON	20	S	B	13,000	0.20	52	.520	.047	.025	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.70
C85	0.22	LIFTING, 26 TON THRU 50 TON	20	A	B	18,000	0.20	40	.400	.036	.019	0	.000	.000	.000	.000	.085	.085	0.00	0.00	0.00	0.75

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
C85	0.22	LIFTING, 26 TON THRU 50 TON	20	S	B	15,000	0.20	52	.520	.047	.025	0	.000	.000	.000	.000	.085	.085	0.00	0.00	0.00	0.80
C85	0.23	LIFTING, 51 TON THRU 150 TON	20	A	B	20,000	0.15	40	.400	.036	.019	0	.000	.000	.000	.000	.093	.093	0.00	0.00	0.00	0.85
C85	0.23	LIFTING, 51 TON THRU 150 TON	20	S	B	16,000	0.15	52	.520	.047	.025	0	.000	.000	.000	.000	.093	.093	0.00	0.00	0.00	0.90
C85	0.24	LIFTING, OVER 150 TON	20	A	B	22,000	0.15	40	.400	.036	.019	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.95
C85	0.24	LIFTING, OVER 150 TON	20	S	B	18,000	0.15	52	.520	.047	.025	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	1.00
<b>C90</b>	<b>0.00</b>	CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
C90	0.01	UNDER 26 TON	20	A	B	14,000	0.15	50	.500	.045	.024	10	.100	.009	.005	.000	.161	.153	1.08	0.97	1.20	0.60
C90	0.01	UNDER 26 TON	20	S	B	12,000	0.15	65	.650	.059	.031	13	.130	.012	.006	.000	.161	.153	0.42	0.34	0.47	0.65
C90	0.02	26 TON THRU 65 TON	20	A	B	16,000	0.15	50	.500	.045	.024	10	.100	.009	.005	.000	.127	.110	1.08	0.97	1.20	0.70
C90	0.02	26 TON THRU 65 TON	20	S	B	14,000	0.15	65	.650	.059	.031	13	.130	.012	.006	.000	.127	.110	0.42	0.34	0.47	0.75
C90	0.03	66 TON THRU 125 TON	20	A	B	18,000	0.20	50	.500	.045	.024	10	.100	.009	.005	.000	.127	.110	1.08	0.97	1.20	0.80
C90	0.03	66 TON THRU 125 TON	20	S	B	16,000	0.20	65	.650	.059	.031	13	.130	.012	.006	.000	.127	.110	0.42	0.34	0.47	0.85
C90	0.04	OVER 125 TON	20	A	B	20,000	0.20	50	.500	.045	.024	10	.100	.009	.005	.000	.127	.110	1.08	0.97	1.20	0.90
C90	0.04	OVER 125 TON	20	S	B	18,000	0.20	65	.650	.059	.031	13	.130	.012	.006	.000	.127	.110	0.42	0.34	0.47	0.95
<b>C95</b>	<b>0.00</b>	CRANES, TOWER	20	A	B	18,000	0.20	65	.650	.059	.031	10	.100	.009	.005	.530	.127	.110	0.00	0.00	0.00	0.85
<b>D10</b>	<b>0.00</b>	DRILLS, AIR/HYDRAULIC, CRWLR MTD, 0" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
D10	0.10	DRILLS, AIR TRACK (Add cost for drill steel and bit wear)	25	A	B	14,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.96	0.86	1.07	1.00
D10	0.20	DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear)	25	A	B	10,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	1.00
<b>D15</b>	<b>0.00</b>	DRILLS, HORIZONTAL (MICRO-TUNNELING)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
D15	0.10	DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear)	25	A	B	10,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.96	0.86	1.07	0.90

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
D15	0.20	DRILLS, HORIZONTAL & DIRECTIONAL (Add cost for drill steel and bit wear)	25	A	B	10,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.96	0.86	1.07	0.90
D20	0.00	DRILLS, CORE, COLUMN MOUNTED (Add cost for drill steel and bit wear)	25	A	B	8,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.477	.068	.102	0.00	0.00	0.00	0.85
D25	0.00	DRILLS, CORE & DOWELLING (Add cost for drill steel and bit wear)	25	A	B	10,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.477	.068	.102	1.08	0.97	1.20	1.00
D30	0.00	DRILLS, EARTH / AUGER (Add cost for drill steel, cutting edge wear, and crane when applicable)	25	A	B	10,000	0.25	80	.800	.072	.038	10	.100	.009	.005	.477	.136	.119	0.76	0.68	0.84	1.00
D35	0.00	DRILLS, ROTARY BLASTHOLE (Add cost for drill steel and bit wear)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
D35	0.11	DIESEL, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear)	25	A	B	14,000	0.20	80	.800	.072	.038	10	.100	.009	.005	.005	.161	.161	0.76	0.68	0.84	1.00
D35	0.12	DIESEL, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear)	25	A	B	18,000	0.20	80	.800	.072	.038	10	.100	.009	.005	.011	.136	.136	0.76	0.68	0.84	1.00
D35	0.21	ELECTRIC, 4.5" THRU 9.875" DIAMETER HOLE (Add cost for drill steel and bit wear)	25	A	B	14,000	0.20	70	.700	.063	.034	10	.100	.009	.005	.530	.000	.000	0.76	0.68	0.84	0.55
D35	0.22	ELECTRIC, OVER 9.875" DIAMETER (Add cost for drill steel and bit wear)	25	A	B	18,000	0.20	70	.700	.063	.034	10	.100	.009	.005	.530	.000	.000	0.76	0.68	0.84	0.55
F10	0.00	FORK LIFTS	95	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.102	.102	0.76	0.68	0.84	0.75
G10	0.00	GENERATOR SETS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
G10	0.10	PORTABLE	30	A	B	8,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.84	0.60
G10	0.10	PORTABLE	30	S	B	7,000	0.10	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.28	0.70
G10	0.20	SKID MOUNTED	30	A	B	10,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.70
G10	0.20	SKID MOUNTED	30	S	B	8,000	0.10	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.80
G15	0.00	GRADERS, MOTOR	35	A	B	14,500	0.25	60	.600	.054	.029	0	.000	.000	.000	.000	.085	.144	0.86	0.56	0.96	0.75

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
<b>G15</b>	<b>0.00</b>	GRADERS, MOTOR	35	S	B	13,500	0.25	78	.780	.070	.037	0	.000	.000	.000	.000	.085	.144	0.34	0.19	0.37	0.85
<b>H10</b>	<b>0.00</b>	HAMMERS, HYDRAULIC (Demolition tool) (Add cost for point wear)	95	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
<b>H13</b>	<b>0.00</b>	HAZARDOUS/TOXIC WASTE EQUIPMENT	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
H13	0.11	COMPACTORS (Compression force) 0 THRU 50 TONS	95	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.530	.102	.102	0.00	0.00	0.73	0.80
H13	0.12	COMPACTORS (Compression force) OVER 50 TONS	95	A	B	12,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.530	.102	.102	0.00	0.00	0.73	0.90
H13	0.21	FILTER PRESSES, STATIONARY	95	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.530	.102	.102	0.00	0.00	0.73	0.90
H13	0.22	FILTER PRESSES, MOBILE	95	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.530	.102	.102	0.00	0.00	0.73	0.80
H13	0.30	CENTRIFUGES	95	A	B	4,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.530	.000	.000	0.00	0.00	0.73	0.70
H13	0.40	SHREDDERS	95	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.73	0.90
H13	0.51	SOIL TREATMENT PLANT, MOBILE	95	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.76	0.68	0.84	1.00
H13	0.61	SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS	95	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.84	1.00
H13	0.71	WASTE HANDLING EQUIPMENT, DRUM HANDLING	95	A	B	4,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.73	1.00
<b>H15</b>	<b>0.00</b>	HEATERS, SPACE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
<b>H20</b>	<b>0.00</b>	HOISTS & AIR WINCHES	95	A	B	9,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.80
<b>H25</b>	<b>0.00</b>	HYDRAULIC EXCAVATORS, CRAWLER MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
H25	0.10	0 LBS THRU 12,500 LBS	65	A	B	8,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.70
H25	0.10	0 LBS THRU 12,500 LBS	65	S	B	7,000	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.80
H25	0.11	OVER 12,500 LBS THRU 40,000 LBS	65	A	B	8,500	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.70
H25	0.11	OVER 12,500 LBS THRU 40,000 LBS	65	S	B	7,000	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.85

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**



**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
H25	0.12	OVER 40,000 LBS THRU 100,000 LBS	65	A	B	12,000	0.25	65	.600	.059	.031	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.80
H25	0.12	OVER 40,000 LBS THRU 100,000 LBS	65	S	B	10,000	0.25	85	.800	.077	.041	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.95
H25	0.13	OVER 100,000 LBS THRU 160,000 LBS	65	A	B	16,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.047	.047	0.00	0.00	0.00	1.00
H25	0.13	OVER 100,000 LBS THRU 160,000 LBS	65	S	B	13,500	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.047	.047	0.00	0.00	0.00	1.10
H25	0.14	OVER 160,000 LBS	65	A	B	19,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.051	.051	0.00	0.00	0.00	1.10
H25	0.14	OVER 160,000 LBS	65	S	B	15,000	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.051	.051	0.00	0.00	0.00	1.25
H25	0.21	EXCAVATOR ATTACHMENTS, MOBILE SHEARS	95	A	B	6,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.90
H25	0.22	EXCAVATOR ATTACHMENTS, MATERIAL HANDLING	95	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.80
H25	0.23	EXCAVATOR ATTACHMENTS, CONCRETE PULVERIZERS	95	A	B	6,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.24	EXCAVATOR ATTACHMENTS, COMPACTORS	95	A	B	6,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
<b>H30</b>	<b>0.00</b>	HYDRAULIC EXCAVATORS, WHEEL MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
H30	0.01	0 THRU 1.0 CY	65	A	B	8,000	0.25	60	.600	.054	.029	10	.100	.009	.005	.000	.149	.141	0.98	0.64	1.09	0.50
H30	0.01	0 THRU 1.0 CY	65	S	B	6,500	0.25	78	.780	.070	.037	13	.130	.012	.006	.000	.149	.141	0.34	0.19	0.37	0.55
H30	0.02	OVER 1.0 CY	65	A	B	10,000	0.25	60	.600	.054	.029	10	.100	.009	.005	.000	.149	.141	0.98	0.64	1.09	0.60
H30	0.02	OVER 1.0 CY	65	S	B	8,000	0.25	78	.780	.070	.037	13	.130	.012	.006	.000	.149	.141	0.34	0.19	0.37	0.65
<b>H35</b>	<b>0.00</b>	HYDRAULIC SHOVELS, CRAWLER MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
H35	0.11	DIESEL, 0 CY THRU 5.0 CY	65	A	B	14,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.047	.047	0.00	0.00	0.00	1.00
H35	0.11	DIESEL, 0 CY THRU 5.0 CY	65	S	B	12,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.047	.047	0.00	0.00	0.00	1.10
H35	0.12	DIESEL, OVER 5.0 CY	65	A	B	16,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.051	.051	0.00	0.00	0.00	1.20
H35	0.12	DIESEL, OVER 5.0 CY	65	S	B	14,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.051	.051	0.00	0.00	0.00	1.30

**EK = Economic Key (Appendix E)**

**C = Operating Conditions (A=average, S=severe)**

**DC = Discount Code (B=basic 7.5%, S=special 15%)**

**RCF = Repair Cost Factor**

**LIFE = Economic Life**

**SLV = Salvage Value**

**HPF = Horsepower Factor**

**E = Electric Powered**

**G = Gas Powered**

**D = Diesel Powered**

**FT = Front Tire**

**DT = Drive Tire**

**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
H35	0.21	ELECTRIC, OVER 2.5 CY	65	A	B	18,000	0.20	50	.500	.045	.024	0	.000	.000	.000	.265	.000	.000	0.00	0.00	0.00	0.80
H35	0.21	ELECTRIC, OVER 2.5 CY	65	S	B	16,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.265	.000	.000	0.00	0.00	0.00	0.90
L10	0.00	LAND CLEARING EQUIPMENT	70	A	B	10,000	0.20	60	.600	.054	.029	10	.100	.009	.005	.000	.127	.110	0.76	0.68	0.84	0.90
L10	0.00	LAND CLEARING EQUIPMENT	70	S	B	7,000	0.20	78	.780	.070	.037	13	.130	.012	.006	.000	.127	.110	0.29	0.23	0.33	1.00
L15	0.00	LANDSCAPING EQUIPMENT	95	A	B	4,000	0.15	80	.800	.072	.038	13	.130	.012	.006	.477	.102	.102	0.76	0.68	0.84	0.70
L20	0.00	LIGHTING SETS, TRAILER MOUNTED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
L20	0.10	LIGHTING SETS, TRAILER MOUNTED	95	A	B	8,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.84	1.50
L25	0.00	LINE STRIPING EQUIPMENT	95	A	B	8,000	0.20	85	.850	.077	.041	13	.130	.012	.006	.000	.102	.102	0.76	0.68	0.84	1.20
L30	0.00	LOADERS, BELT (Conveyor belts) & ACCESSORIES	95	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.119	.119	0.76	0.68	0.84	1.00
L30	0.00	LOADERS, BELT (Conveyor belts) & ACCESSORIES	95	S	B	8,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.477	.119	.119	0.29	0.23	0.33	1.10
L35	0.00	LOADERS, FRONT END, CRAWLER TYPE	40	A	B	10,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.000	.170	.101	0.00	0.00	0.00	1.10
L35	0.00	LOADERS, FRONT END, CRAWLER TYPE	40	S	B	8,000	0.20	91	.910	.082	.044	0	.000	.000	.000	.000	.170	.101	0.00	0.00	0.00	1.25
L40	0.00	LOADERS, FRONT END, WHEEL TYPE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
L40	0.11	ARTICULATED, 0 THRU 225 HP	45	A	B	9,250	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.170	.111	0.88	0.58	0.98	0.70
L40	0.11	ARTICULATED, 0 THRU 225 HP	45	S	B	8,750	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.170	.111	0.30	0.18	0.34	0.80
L40	0.12	ARTICULATED, OVER 225 HP	45	A	B	13,500	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.170	.080	0.88	0.58	0.98	0.70
L40	0.12	ARTICULATED, OVER 225 HP	45	S	B	12,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.170	.080	0.30	0.18	0.34	0.75
L40	0.20	SKID STEER	45	A	B	8,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.000	.170	.111	0.78	0.39	0.86	0.80
L40	0.21	SKID STEER ATTACHMENTS	45	A	B	4,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.170	.170	0.00	0.00	0.00	1.00
L40	0.31	TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP	45	A	B	10,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.170	.111	0.83	0.55	0.93	0.85

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
L40	0.31	TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP	45	S	B	9,250	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.170	.111	0.32	0.22	0.36	0.90
L40	0.32	TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP	45	A	B	12,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.170	.080	0.83	0.64	0.93	0.85
L40	0.32	TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP	45	S	B	10,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.000	.170	.080	0.32	0.22	0.36	0.90
L45	0.00	LOADERS / BACKHOE, CRAWLER TYPE	40	A	B	8,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.000	.441	.524	0.00	0.00	0.00	1.35
L45	0.00	LOADERS / BACKHOE, CRAWLER TYPE	40	S	B	6,000	0.20	91	.910	.082	.044	0	.000	.000	.000	.000	.441	.524	0.00	0.00	0.00	1.40
L50	0.00	LOADERS / BACKHOE, WHEEL TYPE	45	A	B	10,000	0.25	50	.500	.045	.024	0	.000	.000	.000	.000	.441	.441	0.86	0.66	0.96	0.80
L50	0.00	LOADERS / BACKHOE, WHEEL TYPE	45	S	B	6,000	0.25	70	.700	.063	.034	0	.000	.000	.000	.000	.441	.441	0.30	0.18	0.34	0.85
L55	0.00	LOADER / BACKHOE, ATTACHMENTS	95	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.441	.441	0.00	0.00	0.00	1.00
L60	0.00	LOG SKIDDERS	75	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.119	0.88	0.58	0.98	0.70
L60	0.00	LOG SKIDDERS	75	S	B	8,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.119	0.32	0.19	0.36	0.80
M10	0.00	MARINE EQUIPMENT (NON DREDGING)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
M10	0.11	AQUATIC MAINTENANCE	105	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.70
M10	0.12	AQUATIC MAINTENANCE ATTACHMENTS	105	A	B	6,000	0.20	80	.800	.072	.038	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.60
M10	0.21	HYDRAULIC CUTTERHEAD DREDGE, 8" OR LESS, TRANSPORTABLE	105	A	B	16,000	0.10	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.70
M10	0.22	HYDRAULIC CUTTERHEAD DREDGE, 8" - 12", TRANSPORTABLE	105	A	B	16,000	0.10	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.80
M10	0.23	HYDRAULIC AUGERHEAD DREDGE, 12" OR LESS, TRANSPORTABLE	105	A	B	16,000	0.10	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.80

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
M10	0.24	HYDRAULIC FLOATING PUMPS,12" OR LESS,TRANSPORTABLE	105	A	B	8,000	0.10	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.70
M10	0.25	HYDRAULIC DREDGE PUMPS,12" OR LESS,TRANSPORTABLE	105	A	B	6,000	0.15	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.70
M10	0.26	HYDRAULIC DREDGE / PUMP ATTACHMENTS	105	A	B	6,000	0.15	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.60
M10	0.31	SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY	20	A	B	18,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.102	.102	0.00	0.00	0.00	1.00
M10	0.31	SMALL MECH DREDGES,CLAMSHELL,BARGE-MTD TO 5 CY	20	S	B	16,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.477	.102	.102	0.00	0.00	0.00	1.05
M10	0.32	SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS	65	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.161	.161	0.00	0.00	0.00	1.00
M10	0.32	SMALL MECH DREDGES, AMPHIBIOUS EXCAVATORS	65	S	B	9,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.477	.161	.161	0.00	0.00	0.00	1.10
M10	0.33	SMALL MECH DREDGES,HOE-MOUNTED DREDGING ATTACH	105	A	B	20,000	0.15	80	.800	.072	.038	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.90
M10	0.41	WORK FLOATS (SECTIONAL, NON-DREDGING)	105	A	B	6,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.50
M10	0.42	WORK BARGES (SECTIONAL, NON-DREDGING)	105	A	B	30,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.60
M10	0.45	FLAT-DECK OR CARGO BARGE (NON-DREDGING)	105	A	B	90,000	0.05	20	.200	.018	.010	0	.000	.000	.000	.000	.000	.136	0.00	0.00	0.00	0.60
M10	0.46	DUMP SCOW (NON-DREDGING)	105	A	B	90,000	0.05	20	.200	.018	.010	0	.000	.000	.000	.000	.000	.136	0.00	0.00	0.00	0.70
M10	0.47	DRILL BARGE (NON-DREDGING)	105	A	B	30,000	0.05	20	.200	.018	.010	0	.000	.000	.000	.000	.000	.136	0.00	0.00	0.00	0.70
M10	0.48	ALL OTHER BARGES (NON-DREDGING)	105	A	B	30,000	0.05	20	.200	.018	.010	0	.000	.000	.000	.000	.000	.136	0.00	0.00	0.00	0.70
M10	0.51	BOATS & LAUNCHES, 0 THRU 250 HP	105	A	B	16,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	0.70
M10	0.51	BOATS & LAUNCHES, 0 THRU 250 HP	105	S	B	13,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	0.75

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
M10	0.53	BOATS & LAUNCHES, GREATER THAN 250 HP	105	A	B	18,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	0.80
M10	0.53	BOATS & LAUNCHES, GREATER THAN 250 HP	105	S	B	15,000	0.10	85	.850	.077	.041	0	.000	.000	.000	.477	.136	.161	0.00	0.00	0.00	0.85
M10	0.54	TUGS, UNDER 1,000 HP	105	A	B	40,000	0.10	60	.600	.054	.029	50	.500	.045	.024	.477	.136	.161	0.00	0.00	0.00	0.90
M10	0.55	TUGS, GREATER THAN 1,000 HP	105	A	B	55,000	0.10	60	.600	.054	.029	50	.500	.045	.024	.477	.136	.161	0.00	0.00	0.00	1.00
P10	0.00	PILE HAMMER ACCESSORIES - EXTRACTORS & BOX LEADS	50	A	B	6,000	0.35	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.136	0.00	0.00	0.00	0.80
P20	0.00	PILE HAMMERS, DOUBLE ACTING	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P20	0.10	PILE HAMMERS, DOUBLE ACTING - DIESEL	50	A	B	6,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.10
P20	0.20	PILE HAMMERS, DOUBLE ACTING - PNEUMATIC (STEAM/AIR)	50	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.10
P25	0.00	PILE HAMMERS, SINGLE ACTING	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P25	0.10	PILE HAMMERS, SINGLE ACTING - DIESEL	50	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
P25	0.20	PILE HAMMERS, SINGLE ACTING - PNEUMATIC (STEAM/AIR)	50	A	B	6,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
P30	0.00	PILE HAMMERS, DRIVER/ EXTRACTOR, VIBRATORY	50	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.136	0.00	0.00	0.00	1.00
P35	0.00	PIPELAYERS	70	A	B	14,000	0.20	35	.350	.032	.017	0	.000	.000	.000	.000	.000	.170	0.00	0.00	0.00	0.95
P35	0.00	PIPELAYERS	70	S	B	11,500	0.20	46	.460	.041	.022	0	.000	.000	.000	.000	.000	.170	0.00	0.00	0.00	1.10
P40	0.00	PLATFORMS & MAN-LIFTS	20	A	B	8,000	0.10	50	.500	.045	.024	50	.500	.045	.024	.477	.136	.119	1.08	0.94	1.20	0.80
P45	0.00	PUMPS, GROUT	95	A	B	8,000	0.15	95	.950	.086	.045	0	.000	.000	.000	.477	.136	.119	1.08	0.97	1.20	1.00
P50	0.00	PUMPS, WATER, CENTRIFUGAL, TRASH	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P50	0.11	ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.73	0.90
P50	0.12	ELECTRIC DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.73	0.50

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
P50	0.21	WHEEL MOUNTED, ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.73	0.90
P50	0.22	WHEEL MOUNTED, ELECTRIC DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.73	0.50
P50	0.31	PUMPS, WATER, CENTRIFUGAL, TRASH - HOSES, PUMP, SUCTION & DISCHARGE	95	A	B	4,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	1.50
<b>P55</b>	<b>0.00</b>	PUMPS, WATER, SUBMERSIBLE	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P55	0.01	ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.73	1.00
P55	0.02	ELECTRIC DRIVE (PROVIDE POWER SOURCE)	95	A	B	8,000	0.15	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.73	0.60
<b>P60</b>	<b>0.00</b>	PUMPS, WATER, CENTRIFUGAL, DEWATERING	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P60	0.11	SKID MOUNTED, ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.00	0.90
P60	0.12	SKID MOUNTED, ELECTRIC DRIVE	95	A	B	8,000	0.15	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.00	0.50
P60	0.21	WHEEL MOUNTED, ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.73	0.90
P60	0.22	WHEEL MOUNTED, ELECTRIC DRIVE	95	A	B	8,000	0.15	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.73	0.50
<b>P65</b>	<b>0.00</b>	PUMPS, WATER, DIAPHRAGM	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P65	0.11	SKID MOUNTED, ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.00	0.90
P65	0.12	SKID MOUNTED, ELECTRIC DRIVE	95	A	B	8,000	0.15	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.00	0.50
P65	0.21	WHEEL MOUNTED, ENGINE DRIVE	95	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.73	0.80
P65	0.22	WHEEL MOUNTED, ELECTRIC DRIVE	95	A	B	8,000	0.15	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.73	0.40
<b>P70</b>	<b>0.00</b>	PUMPS, WATER (For core drills)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
P70	0.01	PUMPS, WATER (For core drills) - ENGINE DRIVE	95	A	B	8,000	0.25	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.161	0.00	0.00	0.00	0.80

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
P70	0.02	PUMPS, WATER (For core drills) - ELECTRIC DRIVE	95	A	B	8,000	0.25	90	.900	.081	.043	0	.000	.000	.000	.477	.000	.000	0.00	0.00	0.00	0.40
R10	0.00	RIPPERS (Add cost for point wear)	70	A	B	8,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.90
R10	0.00	RIPPERS (Add cost for point wear)	70	S	B	6,500	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	1.00
R15	0.00	ROLLERS, STATIC, TOWED, PNEUMATIC	55	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.93	0.70
R20	0.00	ROLLERS, STATIC, TOWED, STEEL DRUM	55	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.93	0.80
R30	0.00	ROLLERS, STATIC, SELF- PROPELLED	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
R30	0.01	PNEUMATIC	55	A	B	8,000	0.15	80	.800	.072	.038	0	.000	.000	.000	.000	.102	.102	0.88	0.58	0.98	0.70
R30	0.02	SMOOTH DRUM	55	A	B	10,000	0.15	80	.800	.072	.038	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.80
R30	0.03	TAMPING FOOT, LANDFILL & SOIL COMPACTORS	55	A	B	12,000	0.20	80	.800	.072	.038	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.80
R40	0.00	ROLLERS, VIBRATORY, TOWED	55	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.80
R45	0.00	ROLLERS, VIBRATORY, SELF- PROPELLED, DOUBLE DRUM	55	A	B	8,000	0.20	90	.900	.081	.043	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.10
R50	0.00	ROLLERS, VIBRATORY, SELF- PROPELLED, SINGLE DRUM	55	A	B	8,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.88	0.67	0.98	1.00
R55	0.00	ROOFING EQUIPMENT	95	A	B	6,000	0.15	60	.600	.054	.029	0	.000	.000	.000	.477	.102	.102	0.98	0.88	1.09	0.80
S10	0.00	SCRAPERS, ELEVATING	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
S10	0.01	0 THRU 200 HP	60	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.000	.170	0.76	0.49	0.84	0.90
S10	0.01	0 THRU 200 HP	60	S	B	8,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.000	.170	0.26	0.15	0.29	1.00
S10	0.02	OVER 200 HP	60	A	B	13,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.000	.136	0.76	0.49	0.84	0.95
S10	0.02	OVER 200 HP	60	S	B	11,500	0.25	85	.850	.077	.041	0	.000	.000	.000	.000	.000	.136	0.26	0.15	0.29	1.00
S15	0.00	SCRAPERS, CONVENTIONAL	60	A	B	15,000	0.20	60	.600	.054	.029	0	.000	.000	.000	.000	.000	.136	0.76	0.49	0.84	0.80
S15	0.00	SCRAPERS, CONVENTIONAL	60	S	B	12,500	0.20	78	.780	.070	.037	0	.000	.000	.000	.000	.000	.136	0.26	0.15	0.29	0.85
S20	0.00	SCRAPERS, TANDEM POWERED	60	A	B	15,000	0.20	62	.620	.056	.030	62	.620	.056	.030	.000	.000	.110	0.76	0.49	0.84	0.85

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

# Equipment Hourly Calculation Factors

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
<b>S20</b>	<b>0.00</b>	SCRAPERS, TANDEM POWERED	60	S	B	13,500	0.20	81	.810	.073	.039	81	.810	.073	.039	.000	.000	.110	0.26	0.15	0.29	0.90
<b>S25</b>	<b>0.00</b>	SCRAPERS, TRACTOR DRAWN	60	A	B	12,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.76	0.19	0.84	0.70
<b>S25</b>	<b>0.00</b>	SCRAPERS, TRACTOR DRAWN	60	S	B	10,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.26	0.15	0.29	0.75
<b>S30</b>	<b>0.00</b>	SCREENING & CRUSHING PLANTS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
S30	0.10	CONVEYORS	95	A	B	10,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.76	0.49	0.96	0.70
S30	0.10	CONVEYORS	95	S	B	8,000	0.10	78	.780	.070	.037	0	.000	.000	.000	.577	.163	.142	0.26	0.15	0.37	0.85
S30	0.20	CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR	95	A	B	25,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.96	1.00
S30	0.20	CRUSHERS - VERTICAL & HORIZONTAL SHAFT IMPACTOR	95	S	B	15,000	0.10	78	.780	.070	.037	0	.000	.000	.000	.577	.163	.142	0.00	0.00	0.37	1.25
S30	0.21	CRUSHERS - CONE	95	A	B	25,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.76	0.49	0.96	1.20
S30	0.21	CRUSHERS - CONE	95	S	B	15,000	0.10	78	.780	.070	.037	0	.000	.000	.000	.577	.163	.142	0.26	0.15	0.37	1.60
S30	0.22	CRUSHERS - JAW	95	A	B	25,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.76	0.49	0.96	0.65
S30	0.22	CRUSHERS - JAW	95	S	B	15,000	0.10	78	.780	.070	.037	0	.000	.000	.000	.577	.163	.142	0.26	0.15	0.37	0.85
S30	0.30	SCREENING PLANT	95	A	B	10,000	0.10	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.76	0.49	0.96	0.80
S30	0.30	SCREENING PLANT	95	S	B	8,000	0.10	78	.780	.070	.037	0	.000	.000	.000	.577	.163	.142	0.26	0.15	0.37	1.00
<b>S35</b>	<b>0.00</b>	SNOW REMOVAL EQUIPMENT	95	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.000	.119	0.68	0.44	0.76	0.80
<b>S40</b>	<b>0.00</b>	SOIL & ROAD STABILIZERS	60	A	B	10,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.000	.000	.119	0.97	0.64	1.08	0.85
<b>S40</b>	<b>0.00</b>	SOIL & ROAD STABILIZERS	60	S	B	8,000	0.20	91	.910	.082	.044	0	.000	.000	.000	.000	.000	.119	0.38	0.22	0.42	0.95
<b>S45</b>	<b>0.00</b>	SPLITTERS, ROCK & CONCRETE	95	A	B	6,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
<b>T10</b>	<b>0.00</b>	TRACTOR BLADES & ATTACHMENTS (including agricultural)	70	A	B	10,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.76	0.80
<b>T10</b>	<b>0.00</b>	TRACTOR BLADES & ATTACHMENTS (including agricultural)	70	S	B	8,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	1.08	0.90

EK = Economic Key (Appendix E)

C = Operating Conditions (A=average, S=severe)

DC = Discount Code (B=basic 7.5%, S=special 15%)

RCF = Repair Cost Factor

LIFE = Economic Life

SLV = Salvage Value

HPF = Horsepower Factor

E = Electric Powered

G = Gas Powered

D = Diesel Powered

FT = Front Tire

DT = Drive Tire

TT = Trailing Tire



**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
<b>T15</b>	<b>0.00</b>	TRACTORS, CRAWLER (DOZER) (includes blade)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T15	0.01	0 THRU 225 HP	70	A	B	10,000	0.30	70	.700	.063	.034	0	.000	.000	.000	.000	.000	.153	0.00	0.00	0.00	1.10
T15	0.01	0 THRU 225 HP	70	S	B	8,000	0.30	91	.910	.082	.044	0	.000	.000	.000	.000	.000	.153	0.00	0.00	0.00	1.25
T15	0.02	226 HP THRU 425 HP	70	A	B	12,500	0.25	70	.700	.063	.034	0	.000	.000	.000	.000	.000	.119	0.00	0.00	0.00	1.20
T15	0.02	226 HP THRU 425 HP	70	S	B	10,500	0.25	91	.910	.082	.044	0	.000	.000	.000	.000	.000	.119	0.00	0.00	0.00	1.25
T15	0.03	OVER 425 HP	70	A	B	15,000	0.20	60	.600	.054	.029	0	.000	.000	.000	.000	.000	.066	0.00	0.00	0.00	1.20
T15	0.03	OVER 425 HP	70	S	B	12,500	0.20	78	.780	.070	.037	0	.000	.000	.000	.000	.000	.066	0.00	0.00	0.00	1.35
<b>T20</b>	<b>0.00</b>	TRACTORS, WHEEL TYPE (DOZER)	75	A	B	14,000	0.15	60	.600	.054	.029	0	.000	.000	.000	.000	.102	.119	0.98	0.64	1.09	0.60
<b>T20</b>	<b>0.00</b>	TRACTORS, WHEEL TYPE (DOZER)	75	S	B	13,000	0.15	78	.780	.070	.037	0	.000	.000	.000	.000	.102	.119	0.34	0.20	0.38	0.65
<b>T25</b>	<b>0.00</b>	TRACTORS, AGRICULTURAL	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T25	0.10	CRAWLER	75	A	B	10,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.119	0.00	0.00	0.00	0.85
T25	0.20	WHEEL	75	A	B	8,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.119	0.86	0.56	0.96	0.70
<b>T30</b>	<b>0.00</b>	TRENCHERS, CHAIN TYPE CUTTER	80	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.119	.119	1.08	0.71	1.20	0.90
<b>T30</b>	<b>0.00</b>	TRENCHERS, CHAIN TYPE CUTTER	80	S	B	6,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.119	.119	0.42	0.24	0.47	1.00
<b>T35</b>	<b>0.00</b>	TRENCHERS, WHEEL TYPE CUTTER	80	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.119	.119	1.08	0.71	1.20	0.90
<b>T35</b>	<b>0.00</b>	TRENCHERS, WHEEL TYPE CUTTER	80	S	B	6,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.119	.119	0.42	0.24	0.47	1.00
<b>T40</b>	<b>0.00</b>	TRUCK OPTIONS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T40	0.10	CRANES / HOISTS, PERSONNEL & MATERIAL HANDLING	95	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.136	0.00	0.00	0.00	0.80
T40	0.20	DUMP BODY, REAR	95	A	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.70
T40	0.20	DUMP BODY, REAR	95	S	B	6,500	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.80

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

Equipment Hourly Calculation Factors

CATEGORY	SUB	DESCRIPTION	E	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
T40	0.30	FLATBEDS, WITH SIDES	95	A	B	8,000	0.20	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.60
T40	0.41	HOIST, ELECTRIC DRIVE	95	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.136	0.00	0.00	0.00	0.70
T40	0.50	TRANSIT MIXERS	95	A	B	8,000	0.15	65	.650	.059	.031	35	.350	.032	.017	.477	.136	.136	0.68	0.52	0.76	0.70
T40	0.60	WATER TANKS	95	A	B	8,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.136	0.00	0.00	0.00	0.60
T40	0.70	ALL OTHER OPTIONS	95	A	B	8,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.136	0.68	0.52	0.76	0.70
T45	0.00	TRUCK TRAILERS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T45	0.10	BOTTOM DUMP	95	A	B	10,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.70
T45	0.10	BOTTOM DUMP	95	S	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.23	0.80
T45	0.20	END / SIDE DUMP	95	A	B	10,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.65
T45	0.20	END / SIDE DUMP	95	S	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.23	0.75
T45	0.30	PUP TRAILER	95	A	B	8,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.60
T45	0.41	LOWBOY, RIGID NECK, DROP DECK	95	A	B	10,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.50
T45	0.50	FLATBED TRAILER	95	A	B	10,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.50
T45	0.60	MISCELLANEOUS / UTILITY	95	A	B	10,000	0.10	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.50
T45	0.70	WATER TANKER TRAILER	95	A	B	10,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.119	.102	0.00	0.92	0.73	0.60
T45	0.80	DECONTAMINATION FACILITY	95	A	B	8,000	0.25	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.73	0.70
T45	0.90	TANK TRAILERS	95	A	B	10,000	0.25	65	.650	.059	.031	0	.000	.000	.000	.000	.119	.102	0.00	0.00	0.73	0.70
T50	0.00	TRUCKS, HIGHWAY (Add attachments as required)	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T50	0.01	0 THRU 10,000 GVW	85	A	S	8,000	0.20	15	.150	.014	.007	0	.000	.000	.000	.000	.119	.102	0.66	0.59	0.73	0.70
T50	0.01	0 THRU 10,000 GVW	85	S	S	6,500	0.20	20	.200	.018	.010	0	.000	.000	.000	.000	.119	.102	0.26	0.20	0.28	0.75
T50	0.02	OVER 10,000 THRU 30,000 GVW (Chassis only - Add options)	85	A	S	10,000	0.20	35	.350	.032	.017	0	.000	.000	.000	.000	.127	.110	0.66	0.59	0.73	0.65
T50	0.02	OVER 10,000 THRU 30,000 GVW (Chassis only - Add options)	85	S	S	8,000	0.20	46	.460	.041	.022	0	.000	.000	.000	.000	.127	.110	0.26	0.20	0.28	0.70

EK = Economic Key (Appendix E)  
C = Operating Conditions (A=average, S=severe)  
DC = Discount Code (B=basic 7.5%, S=special 15%)  
RCF = Repair Cost Factor

LIFE = Economic Life  
SLV = Salvage Value  
HPF = Horsepower Factor

E = Electric Powered  
G = Gas Powered  
D = Diesel Powered

FT = Front Tire  
DT = Drive Tire  
TT = Trailing Tire

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	E	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
T50	0.03	OVER 30,000 GVW (Chassis only - Add options)	85	A	S	12,000	0.20	50	.500	.045	.024	0	.000	.000	.000	.000	.136	.119	0.66	0.59	0.73	0.65
T50	0.03	OVER 30,000 GVW (Chassis only - Add options)	85	S	S	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.136	.119	0.26	0.20	0.28	0.75
<b>T55</b>	<b>0.00</b>	TRUCKS, OFF-HIGHWAY	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T55	0.10	RIGID FRAME	90	A	B	20,000	0.15	35	.350	.032	.017	0	.000	.000	.000	.000	.000	.144	0.78	0.68	0.86	0.90
T55	0.10	RIGID FRAME	90	S	B	18,000	0.15	45	.450	.041	.022	0	.000	.000	.000	.000	.000	.144	0.27	0.21	0.30	0.95
T55	0.20	ARTICULATED FRAME	90	A	B	13,000	0.15	50	.500	.045	.024	0	.000	.000	.000	.000	.000	.080	0.78	0.68	0.86	0.80
T55	0.20	ARTICULATED FRAME	90	S	B	12,250	0.15	60	.600	.054	.029	0	.000	.000	.000	.000	.000	.080	0.27	0.21	0.30	0.85
<b>T56</b>	<b>0.00</b>	TRUCKS, OFF-HIGHWAY/PRIME MOVER TRACTORS & WAGONS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T56	0.10	PRIME MOVER TRACTORS	90	A	B	20,000	0.15	40	.400	.036	.019	0	.000	.000	.000	.000	.102	.144	0.78	0.51	0.86	0.90
T56	0.10	PRIME MOVER TRACTORS	90	S	B	18,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.136	0.29	0.17	0.32	0.95
T56	0.20	WAGONS, BOTTOM DUMP	90	A	B	15,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.136	0.86	0.66	0.96	0.65
T56	0.20	WAGONS, BOTTOM DUMP	90	S	B	10,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.136	0.33	0.22	0.37	0.75
T56	0.30	WAGONS, REAR DUMP	90	A	B	12,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.136	0.86	0.75	0.96	0.60
<b>T57</b>	<b>0.00</b>	TRUCKS, VACUUM	95	A	B	10,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.119	0.66	0.59	0.73	0.80
<b>T60</b>	<b>0.00</b>	TRUCKS, WATER, OFF-HIGHWAY	90	A	B	12,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.136	0.86	0.66	0.96	0.70
<b>T60</b>	<b>0.00</b>	TRUCKS, WATER, OFF-HIGHWAY	90	S	B	10,000	0.20	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.136	0.29	0.19	0.32	0.80
<b>T65</b>	<b>0.00</b>	TUNNEL/MINING EQUIPMENT	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
T65	0.10	DRIFTING & TUNNELING DRILLS	25	A	B	14,000	0.15	80	.800	.072	.038	13	.130	.012	.006	.530	.136	.119	1.08	0.71	1.20	0.90
T65	0.20	TUNNEL BORING MACHINES	95	A	B	18,000	0.15	70	.700	.063	.034	0	.000	.000	.000	.530	.000	.000	0.00	0.00	0.00	0.70
T65	0.20	TUNNEL BORING MACHINES	95	S	B	16,000	0.15	91	.910	.082	.044	0	.000	.000	.000	.530	.000	.000	0.00	0.00	0.00	0.80
T65	0.30	PRODUCTION DRILLING RIGS	25	A	B	12,000	0.15	80	.800	.072	.038	0	.000	.000	.000	.530	.136	.119	0.00	0.00	0.00	0.90
T65	0.40	ROADHEADERS & CONTINUOUS MINERS	95	A	B	16,000	0.15	70	.700	.063	.034	0	.000	.000	.000	.530	.000	.000	0.00	0.00	0.00	0.90

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

**Equipment Hourly Calculation Factors**

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
									E	G	D		E	G	D	E	G	D	FT	DT	TT	
T65	0.40	ROADHEADS & CONTINUOUS MINERS	95	S	B	14,000	0.15	91	.910	.082	.044	0	.000	.000	.000	.530	.000	.000	0.00	0.00	0.00	1.00
T65	0.50	ROCK BOLTING EQUIPMENT	95	A	B	10,000	0.20	80	.800	.072	.038	10	.100	.009	.005	.530	.136	.119	0.00	0.00	0.00	0.80
T65	0.61	LOADING & HAULING EQUIPMENT, DIESEL OR GAS	95	A	B	12,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.000	.136	.127	0.00	0.00	0.00	0.75
T65	0.62	LOADING & HAULING EQUIPMENT, ELECTRIC	95	A	B	14,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.477	.102	.102	0.00	0.00	0.00	0.70
T65	0.63	LOADING & HAULING EQUIPMENT, AIR-POWERED	95	A	B	10,000	0.25	70	.700	.063	.034	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.65
T65	0.70	LOCOMOTIVES	95	A	B	12,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	0.75
T65	0.90	OTHER TUNNELING EQUIPMENT	95	A	B	10,000	0.20	70	.700	.063	.034	13	.130	.012	.006	.477	.136	.127	0.00	0.00	0.00	0.80
W10	0.00	WAGONS, BOTTOM DUMP	90	A	B	12,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.136	0.86	0.66	0.96	0.65
W10	0.00	WAGONS, BOTTOM DUMP	90	S	B	10,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.136	0.26	0.18	0.29	0.75
W15	0.00	WAGONS, REAR DUMP	90	A	B	12,000	0.15	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.136	0.78	0.68	0.86	0.60
W15	0.00	WAGONS, REAR DUMP	90	S	B	10,000	0.15	85	.850	.077	.041	0	.000	.000	.000	.000	.102	.136	0.26	0.20	0.29	0.70
W25	0.00	WATER & CO2 BLASTERS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
W25	0.10	LOW PRESSURE, (< 5,000 PSI)	95	A	B	4,000	0.20	95	.950	.086	.045	0	.000	.000	.000	.424	.102	.119	0.76	0.58	0.84	1.10
W25	0.20	HIGH PRESSURE, (>= 5,000 PSI)	95	A	B	4,000	0.20	95	.950	.086	.045	0	.000	.000	.000	.424	.102	.119	0.00	0.00	0.76	1.20
W25	0.30	STEAM CLEANERS	95	A	B	4,000	0.20	95	.950	.086	.045	0	.000	.000	.000	.424	.102	.119	0.00	0.00	0.76	1.10
W25	0.40	CO2 BLASTERS	95	A	B	6,000	0.20	70	.700	.063	.034	0	.000	.000	.000	.530	.127	.148	0.00	0.00	0.76	1.00
W25	0.50	WET ABRASIVE BLASTING SYSTEM (TORBO)	95	A	B	10,000	0.35	0	.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.76	0.66	0.84	0.40
W30	0.00	WATER TANKS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00
W30	0.10	PORTABLE WITH WHEELS	90	A	B	12,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.119	0.00	0.00	0.76	0.60
W30	0.20	SKID MOUNTED	90	A	B	12,000	0.20	65	.650	.059	.031	0	.000	.000	.000	.000	.102	.119	0.00	0.00	0.00	0.50
W35	0.00	WELDERS	1						.000	.000	.000	0	.000	.000	.000	.000	.000	.000	0.00	0.00	0.00	0.00

**EK = Economic Key (Appendix E)**
**C = Operating Conditions (A=average, S=severe)**
**DC = Discount Code (B=basic 7.5%, S=special 15%)**
**RCF = Repair Cost Factor**
**LIFE = Economic Life**
**SLV = Salvage Value**
**HPF = Horsepower Factor**
**E = Electric Powered**
**G = Gas Powered**
**D = Diesel Powered**
**FT = Front Tire**
**DT = Drive Tire**
**TT = Trailing Tire**

Equipment Hourly Calculation Factors

CATEGORY		DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			HPF	CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF
SUB									E	G	D		E	G	D	E	G	D	FT	DT	TT	
W35	0.10	ENGINE DRIVEN	95	A	B	8,000	0.25	80	.800	.072	.038	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.96	0.75
W35	0.20	ELECTRIC DRIVEN	95	A	B	6,000	0.20	30	.300	.027	.014	0	.000	.000	.000	.424	.000	.000	0.00	0.00	0.00	0.50

EK = Economic Key (Appendix E)  
C = Operating Conditions (A=average, S=severe)  
DC = Discount Code (B=basic 7.5%, S=special 15%)  
RCF = Repair Cost Factor

LIFE = Economic Life  
SLV = Salvage Value  
HPF = Horsepower Factor

E = Electric Powered  
G = Gas Powered  
D = Diesel Powered

FT = Front Tire  
DT = Drive Tire  
TT = Trailing Tire

Economic Indices for Construction Equipment

KEY		Note: Rates within the Equipment Rates table are based on equipment purchased new in 2017																
(EK)	EQUIPMENT DIVISIONS	2024*	2023*	2022*	2021*	2020*	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
5	Air Equipment	3685	3582	3486	3317	3174	3117	3129	3079	3007	2887	2796	2601	2585	2458	2319	2234	2157
10	Asphalt & Concrete Paving Equipment	5949	5819	5691	5391	5167	5091	4971	4970	4852	4767	4652	4534	4526	4381	4228	4116	3950
15	Buckets	10609	10361	10239	9679	9848	9739	9712	9571	9448	9257	9135	8862	8911	8687	8604	8502	8057
20	Cranes, Draglines & Clamshells - Crawler	8165	7973	7880	7449	7579	7495	7474	7366	7271	7124	7031	6820	6858	6685	6621	6543	6201
25	Drills	7071	6898	6964	6861	6803	6759	6693	6594	6467	6391	6205	5987	5938	5783	5448	5104	4762
30	Generators	7063	6902	6855	6715	6541	6488	6554	6555	6458	6397	6262	5905	5794	5628	5357	5112	4888
35	Graders, Motor	10170	9938	9755	9208	9388	9350	9232	9079	8933	8648	7920	7632	7516	7155	6909	6825	6578
40	Loaders, Track	9624	9400	9196	8711	8615	8564	8484	8449	8369	8088	7713	7434	7454	7254	7037	6907	6653
45	Loaders, Wheel	8882	8675	8486	8040	7951	7904	7830	7798	7723	7464	7119	6861	6880	6695	6494	6374	6140
50	Pile Driving Equipment	8345	8151	8000	7672	7597	7532	7462	7370	7247	7063	6787	6582	6569	6375	6176	6033	5787
55	Rollers	8872	8662	8477	8303	8063	8010	7889	7730	7491	7341	7157	6983	6938	6736	6424	6145	5872
60	Scrapers & Soil Stabilizers	10170	9938	9755	9208	9388	9350	9232	9079	8933	8648	7920	7632	7516	7155	6909	6825	6578
65	Shovels, Backhoes & Hydraulic Excavat	8165	7973	7880	7449	7579	7495	7474	7366	7271	7124	7031	6820	6858	6685	6621	6543	6201
70	Tractors, Crawlers & Attachments	9624	9400	9196	8711	8615	8564	8484	8449	8369	8088	7713	7434	7454	7254	7037	6907	6653
75	Tractor, Wheel	8527	8325	8147	7980	7749	7698	7582	7429	7199	7050	6845	6678	6636	6442	6144	5876	5616
80	Trenchers	10952	10693	10464	10249	9952	9888	9738	9542	9246	9062	8835	8620	8565	8314	7930	7584	7248
85	Trucks, Highway	7015	6851	6757	6528	6553	6475	6370	6250	6139	5988	5648	5485	5366	5123	4965	4820	4638
90	Trucks & Wagons - Off-Highway	9672	9412	9286	8875	8649	8564	8484	8315	8170	8103	7940	7820	7785	7651	7392	7231	6896
95	All Other Equipment	8345	8151	8000	7672	7597	7532	7462	7370	7247	7063	6787	6582	6569	6375	6176	6033	5787
100	All Tires & Tubes	4006	3906	3882	3841	3793	3754	3811	3892	3989	4062	3929	3525	3343	3267	3025	2926	2759
105	Marine Equipment	9467	9225	9053	8853	8743	8641	8583	8460	8313	8216	8118	7941	7773	7466	7202	6905	6661

EK = Economic Key, \* - Projected Years

Economic Indices for Construction Equipment

KEY		Note: Rates within the Equipment Rates table are based on equipment purchased new in 2017																
(EK)	EQUIPMENT DIVISIONS	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
5	Air Equipment	2319	2234	2157	2085	2075	2069	2079	2047	2078	2074	2070	2063	2053	2012	2022	2008	1963
10	Asphalt & Concrete Paving Equipmen	4228	4116	3950	3758	3763	3769	3766	3717	3638	3589	3490	3390	3323	3248	3189	3092	3106
15	Buckets	8604	8502	8057	7626	7443	7254	6804	6900	6982	6930	6888	6774	6672	6638	6663	6380	5901
20	Cranes, Draglines & Clamshells - Cra	6621	6543	6201	5869	5728	5582	5236	5310	5289	5225	5116	5013	4880	4783	4736	4540	4298
25	Drills	5448	5104	4762	4444	4192	4116	3819	3736	3683	3626	3574	3518	3394	3320	3268	3196	3163
30	Generators	5357	5112	4888	4641	4566	4548	4548	4529	4520	4517	4484	4511	4457	4343	4294	4234	4181
35	Graders, Motor	6909	6825	6578	6318	6117	6049	5979	5952	5853	5682	5544	5466	5186	5088	4946	4655	4509
40	Loaders, Track	7037	6907	6653	6347	6177	6081	6058	6032	5960	5792	5686	5606	5434	5257	5068	4816	4677
45	Loaders, Wheel	6494	6374	6140	5857	5701	5612	5591	5567	5511	5409	5303	5251	5101	4988	4894	4758	4640
50	Pile Driving Equipment	6176	6033	5787	5450	5270	5195	5127	5112	5062	4993	4892	4809	4700	4598	4539	4427	4305
55	Rollers	6424	6145	5872	5646	5406	5285	5225	5130	5204	5092	5001	4950	4851	4719	4484	4460	4668
60	Scrapers & Soil Stabilizers	6909	6825	6578	6318	6117	6049	5979	5952	5853	5682	5544	5466	5186	5088	4946	4655	4509
65	Shovels, Backhoes & Hydraulic Exca	6621	6543	6201	5869	5728	5582	5236	5310	5289	5225	5116	5013	4880	4783	4736	4540	4298
70	Tractors, Crawlers & Attachments	7037	6907	6653	6347	6177	6081	6058	6032	5960	5792	5686	5606	5434	5257	5068	4816	4677
75	Tractor, Wheel	6144	5876	5616	5400	5170	5055	4997	4906	4833	4695	4624	4540	4527	4484	4342	4270	4186
80	Trenchers	7930	7584	7248	6970	6466	6524	6450	6332	6223	6042	5833	5749	5670	5509	5207	5015	4948
85	Trucks, Highway	4965	4820	4638	4450	4356	4306	4216	4212	4307	4216	4241	4318	4293	4190	4025	3838	3669
90	Trucks & Wagons - Off-Highway	7392	7231	6896	6424	6095	6026	5931	5828	5715	5651	5581	5440	5265	4979	4837	4797	4739
95	All Other Equipment	6176	6033	5787	5450	5270	5195	5127	5112	5062	4993	4892	4809	4700	4598	4539	4427	4305
100	All Tires & Tubes	3025	2926	2759	2614	2487	2430	2401	2373	2371	2400	2431	2475	2559	2517	2525	2524	2506
105	Marine Equipment	7202	6905	6661	6436	6101	5846	5771	5645	5556	5513	5429	5245	5036	4951	4881	4679	4438

EK = Economic Key, \* - Projected Years

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE PLY	(1)	COST PER EACH
<b>LT TRUCK/RECREATIONAL VEHICLE, RADIAL</b>								
<b>WRANGLER SR-A</b>		<b>Life (hrs) = 5000</b>						
ABAA3		LT265/75R16	10.43	x	16.00	10	TL	\$208
<b>WRANGLER HT</b>		<b>Life (hrs) = 5000</b>						
ABAC1		LT235/75R15	9.25	x	15.00	6	TL	\$185
ABAC2		LT245/75R16	9.65	x	16.00	10	TL	\$201
<b>SERVICE TRAILER - MARATHON RADIAL</b>		<b>Life (hrs) = 5000</b>						
ABBF1		ST175/80R13	6.89	x	13.00	6	TL	\$104
ABBF3		ST185/80R13	7.28	x	13.00	6	TL	\$82
ABBF5		ST205/75R14	8.07	x	14.00	8	TL	\$107
ABBF8		ST205/75R15	8.07	x	15.00	8	TL	\$110
ABBF6		ST215/75R14	8.46	x	14.00	8	TL	\$109

(1) TT = includes tube, TL = no tube, NO = no tube



## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
ABBF9		ST225/75R15	8.86	x	15.00		10	TL	\$121
ABBF10		ST225/75R15	8.86	x	15.00		6	TL	\$121

## LT TRUCK/RECREATIONAL VEHICLE, BIAS

### TRAILER/UTILITY

Life (hrs) = 5000

ACBA2		7.00-15LT	7.00	x	15.00		10	TL	\$208
ACBA4		750-16LT	7.50	x	16.00		8	TL	\$139
ACBA7		8.75-16.5LT	8.75	x	16.50		10	TL	\$201
ACBA9		ST235/85R16	9.25	x	16.00		10	TL	\$174

### TRACTION HI-MILER

Life (hrs) = 5000

ACBC1		6.70-15LT	6.70	x	15.00		6	TL	\$181
ACBC3		8-14.5LT	8.00	x	14.50		12	TL	\$104
ACBC4		9-14.5LT	9.00	x	14.50		12	TL	\$151

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE	COST	
						PLY	(1)	PER EACH
CUSTOM HI-MILER		Life (hrs) =			5000			
ACBD1	12-16.5LT		12.00	x	16.50	12	TL	\$168
OVER-THE-ROAD TRUCK, COMMERCIAL, RADIAL								
COMMERCIAL RADIAL LT TRUCK		Life (hrs) =			5000			
ADCA17	8R19.5		8.00	x	19.50	12	TL	\$301
ADCA18	8R19.5		8.00	x	19.50	12	TL	\$304
ADCA4	LT215/85R16		8.46	x	16.00	10	TL	\$150
ADCA3	LT215/85R16		8.46	x	16.00	10	TL	\$211
ADCA6	LT225/75R16		8.86	x	16.00	10	TL	\$142
ADCA1	225/75R16		8.86	x	16.00	10	TL	\$210
ADCA2	LT225/75R16		8.86	x	16.00	10	TL	\$244
ADCA19	225/70R19.5		8.86	x	19.50	12	TL	\$272
ADCA8	LT235/85R16		9.25	x	16.00	10	TL	\$166

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
ADCA11		LT245/75R16	9.65	x	16.00		10	TL	\$145
ADCA21		245/70R19.5	9.65	x	19.50		14	TL	\$294
<b>COMMERCIAL RADIAL TRUCK TL</b>			<b>Life (hrs) = 5000</b>						
ADCB2		9R175	9.00	x	17.50		14	TL	\$209
ADCB5		9R22.5	9.00	x	22.50		14	TL	\$214
ADCB3		10R175	10.00	x	17.50		16	TL	\$447
ADCB7		10R22.5	10.00	x	22.50		14	TL	\$489
ADCB4		11R17.5	11.00	x	17.50		14	TL	\$320
ADCB8		11R22.5	11.00	x	22.50		16	TL	\$612
ADCB13		11R24.5	11.00	x	24.50		16	TL	\$568
ADCB10		12R22.5	12.00	x	22.50		16	TL	\$615
ADCB14		12R24.5	12.00	x	24.50		16	TL	\$750

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE		COST
						PLY	(1)	PER EACH
LOW PROFILE RADIAL TRUCK TL		Life (hrs) = 5000						
ADCC1	215/75R175	8.46	x	17.50	16	TL	\$230	
ADCC5	245/75R22.5	9.65	x	22.50	14	TL	\$634	
ADCC3	255/70R22.5	10.04	x	22.50	16	TL	\$625	
ADCC2	265/70R19.5	10.40	x	19.50	14	TL	\$537	
ADCC6	265/75R22.5	10.43	x	22.50	14	TL	\$662	
ADCC4	275/70R22.5	10.80	x	22.50	16	TL	\$687	
ADCC12	285/75R24.5	11.22	x	24.50	14	TL	\$562	
ADCC8	295/80R22.5	11.61	x	22.50	14	TL	\$722	
ADCC10	315/80R22.5	12.40	x	22.50	18	TL	\$886	
SUPER SINGLE COMMERCIAL RADIAL TRU		Life (hrs) = 5000						
ADCD1	385/65R22.5	15.16	x	22.50	18	TL	\$821	
ADCD2	425/65R22.5	16.73	x	22.50	20	TL	\$918	
ADCD3	445/65R22.5	17.52	x	22.50	20	TL	\$996	

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE	COST	
							PLY	(1)	PER EACH
COMMERCIAL RADIAL TRUCK TT			Life (hrs) = 5000						
ADCE1		825R15	8.25	x	15.00		16	TT	\$194
ADCE5		225/70R19.5	8.86	x	19.50		12	TL	\$418
ADCE6		225/70R19.5	8.86	x	19.50		14	TL	\$285
ADCE3		LT235/85R16	9.25	x	16.00		14	TT	\$319
ADCE7		245/70R19.5	9.65	x	19.50		14	TL	\$534
ADCE13		10R22.5	10.00	x	22.50		14	TL	\$453
ADCE12		365/80R20	10.40	x	20.00		20	TT	\$1,302
ADCE9		11.00R20	11.00	x	20.00		16	TT	\$586
ADCE10		11.00R20	11.00	x	20.00		16	TT	\$695
ADCE14		11R22.5	11.00	x	22.50		16	TL	\$530
ADCE15		12.00R24	12.00	x	24.00		18	TT	\$901
ADCE17		12.00R24	12.00	x	24.00		18	TT	\$1,087
ADCE11		305/70R19.5	12.01	x	19.50		18	TL	\$597

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>FARM, FRONT</b>									
<b>DYNA RIB F-2-M</b>		<b>Life (hrs) = 5000</b>							
AFED2	F-2M	10.00-16SL	10.00	x	16.00		8	TL	\$334
AFED1	F-2M	11L-15	11.00	x	15.00		6	TL	\$137
AFED4		11.00-16SL	11.00	x	16.00		12	TL	\$471
AFED8		11.00-24SL	11.00	x	24.00		12	TL	\$938
AFED6	F-2M	14L-16.1SL	14.00	x	16.10		8	TL	\$580
AFED7		16.5L-16.1SL	16.50	x	16.10		14	TL	\$800
<b>SINGLE RIB FRONT TRACTOR F-1</b>		<b>Life (hrs) = 5000</b>							
AFEE1	F-1	6.00-16SL	6.00	x	16.00		6	TT	\$168
<b>FARM HIGHWAY SERVICE</b>		<b>Life (hrs) = 5000</b>							
AFEF2	I-1	9.5L-15 FI	9.50	x	15.00		8	TL	\$307

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE		COST
						PLY	(1)	PER EACH
FARM UTILITY		Life (hrs) = 5000						
AFEG7	I-1	7.50-14 SL	7.50	x	14.00	4	TL	\$82
AFEG14	I-1	7.60-15 SL	7.60	x	15.00	6	TL	\$207
AFEG8	I-1	8.5L-14 SL	8.50	x	14.00	6	TL	\$197
AFEG1	I-1	9.5L-14 SL	9.50	x	14.00	6	TL	\$212
AFEG17		9.5L-15 SL	9.50	x	15.00	12	TL	\$308
AFEG18		10.00-15 SL	10.00	x	15.00	16	TL	\$338
AFEG11	I-1	11L-14 SL	11.00	x	14.00	8	TL	\$274
AFEG22		11L-15 SL	11.00	x	15.00	10	TL	\$276
AFEG20	I-1	11L-15 SL	11.00	x	15.00	8	TL	\$226
AFEG34		11L-16 SL	11.00	x	16.00	10	TL	\$302
AFEG25		12.5L-15 SL	12.50	x	15.00	12	TL	\$316
AFEG30		12.5L-16 SL	12.50	x	16.00	14	TL	\$355
AFEG29		12.5L-16 SL	12.50	x	16.00	14	TL	\$355

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AFEG28		14L-16.1 SL	14.00	x	16.10		12	TL	\$561
AFEG31		16.5L-16.1 SL	16.50	x	16.10		10	TL	\$652
AFEG32		19L-16.1 SL	19.00	x	16.10		10	TL	\$919
AFEG27		21.5L-16.1 SL	21.50	x	16.10		14	TL	\$1,305
<b>FOUR RIB FRONT TRACTOR F-2-M</b>			<b>Life (hrs) = 5000</b>						
AFEH1	F-2M	7.50-16SL	7.50	x	16.00		8	TT	\$204
AFEH3	F-2M	10.00-16SL	10.00	x	16.00		8	TL	\$334
AFEH4		11.00-16SL	11.00	x	16.00		12	TT	\$316
<b>IMPLEMENT RIB</b>			<b>Life (hrs) = 5000</b>						
TFEK11	F-2	4.00-19SL	4.00	x	19.00		4	TT	\$139
AFEK4	I-1	5.00-15 SL	5.00	x	15.00		4	TL	\$81
AFEK16	I-1	5.90-15SL	5.90	x	15.00		4	TL	\$180
AFEK6	I-1	6.00-16 SL	6.00	x	16.00		6	TL	\$168

(1) TT = includes tube, TL = no tube, NO = no tube



## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AFEK7	I-1	6.50-16 SL	6.50	x	16.00		6	TL	\$200
AFEK5	I-1	6.70-15 SL	6.70	x	15.00		6	TL	\$131
AFEK9	I-1	7.50-16 SL	7.50	x	16.00		6	TL	\$223
AFEK13	I-1	9.00-24 SL	9.00	x	24.00		8	TL	\$594
AFEK14		11.25-28 SL	11.25	x	28.00		12	TL	\$962

### LABORER F-3

Life (hrs) = 5000

AFEL2		11L-15 SL	11.00	x	15.00		10	TL	\$296
AFEL4		11L-16 SL	11.00	x	16.00		12	TL	\$328
AFEL5		11L-16 SL	11.00	x	16.00		12	TL	\$365
AFEL6		14.5/75-16.1 SL	14.50	x	16.10		10	TL	\$761

### MULTI-RIB F-3

Life (hrs) = 5000

AFEM1		9.00-10 NHS	9.00	x	10.00		10	TL	\$206
TFEM2		11.00-16SL	11.00	x	16.00		12	TL	\$588

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>SMOOTH</b>		<b>Life (hrs) = 5000</b>							
AFEN1	I-1	16.9-30	16.90	x	30.00		6	TL	\$1,103
<b>SMOOTH IMP</b>		<b>Life (hrs) = 5000</b>							
AFEO1		4.80/4.00-8	4.00	x	8.00		4	TL	\$35
AFEO3		6.00-16	6.00	x	16.00		6	TT	\$81
AFEO2		11L-15	11.00	x	15.00		10	TL	\$114
<b>SOFTTRAC II</b>		<b>Life (hrs) = 5000</b>							
AFEP1	I-2	16.5L-16.1 SL	16.50	x	16.10		6	TL	\$971
AFEP3	I-2	21.5L-16.1 SL	21.50	x	16.10		8	TL	\$1,631
<b>SUPER RIB F-2</b>		<b>Life (hrs) = 5000</b>							
TFER1	F-2	4.00-12	4.00	x	12.00		4	TT	\$55

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
COMPACT UTILITY R-1			Life (hrs) =		5000				
TFES2	HF-2	5-12 NHS	5.00	x	12.00		4	TL	\$135
AFES1		7-16	7.00	x	16.00		6	TL	\$285
SURE GRIP IMPLEMENT			Life (hrs) =		5000				
AFET1		10.5/80-18	10.50	x	18.00		10	TL	\$447
AFET2		12.5/80-18	12.50	x	18.00		10	TL	\$690
SURE GRIP LUG			Life (hrs) =		5000				
AFEU2		10.5/80-18	10.50	x	18.00		10	TL	\$427
AFEU1	I-3	12.4-16	12.40	x	16.00		6	TL	\$330
AFEU3		12.5/80-18	12.50	x	18.00		14	TL	\$690

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>SURE GRIP TRACTION</b>		<b>Life (hrs) = 5000</b>							
AFEV1	I-3	6.70-15SL	6.70	x	15.00		4	TT	\$250
AFEV5	I-3	7.50-16	7.50	x	16.00		4	TL	\$120
AFEV2	I-3	7.50-18 SL	7.50	x	18.00		4	TT	\$228
AFEV3	I-3	7.50-20	7.50	x	20.00		4	TT	\$272
AFEV4	I-3	7.60-15	7.60	x	15.00		4	TL	\$114
<b>TRACTION IMPLEMENT</b>		<b>Life (hrs) = 5000</b>							
AFEW1	I-3	5.00-15 SL	5.00	x	15.00		4	TL	\$178
AFEW2	I-3	5.90-15 SL	5.90	x	15.00		4	TL	\$179
<b>TRIPLE RIB HD</b>		<b>Life (hrs) = 5000</b>							
AFEX8	F-2	5.50-16SL	5.50	x	16.00		6	TT	\$155
AFEX10	F-2	6.00-16SL	6.00	x	16.00		6	TT	\$87
AFEX11	F-2	6.50-16SL	6.50	x	16.00		6	TL	\$199

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AFEX4	F-2	7.5L-15SL	7.50	x	15.00		6	TT	\$99
AFEX18	F-2	7.50-16SL	7.50	x	16.00		6	TL	\$138
AFEX13	F-2	7.50-16SL	7.50	x	16.00		8	TT	\$215
AFEX14	F-2	750-18	7.50	x	18.00		6	TT	\$126
AFEX5	F-2	9.5L-15SL	9.50	x	15.00		8	TL	\$137
AFEX16	F-2	10.00-16SL	10.00	x	16.00		8	TL	\$340
AFEX6	F-2	11L-15SL	11.00	x	15.00		8	TT	\$305
AFEX17	F-2	11.00-16SL	11.00	x	16.00		8	TL	\$423
<b>TRIPLE RIB R/S F-2</b>			<b>Life (hrs) = 5000</b>						
AFEY2	F-2	4.00-15SL	4.00	x	15.00		4	TT	\$65
AFEY1	F-2	5.00-15SL	5.00	x	15.00		4	TL	\$171
<b>DURATORQUE R-1</b>			<b>Life (hrs) = 5000</b>						
AFFU3	R-1	8-16	8.00	x	16.00		6	TL	\$351

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>FARM, REAR</b>									
<b>ALL TRACTION R-3</b>			<b>Life (hrs) = 5000</b>						
AGFA1	R-3	9.5-16	9.50	x	16.00		8	TL	\$555
<b>ALL WEATHER R-3</b>			<b>Life (hrs) = 5000</b>						
AGFB2	R-3	9.5-24	9.50	x	24.00		4	TL	\$632
AGFB7	R-3	13.6-16.1	13.60	x	16.10		8	TL	\$1,094
AGFB5	R-3	13.6-28	13.60	x	28.00		6	TT	\$857
AGFB3	R-3	14.9-24	14.90	x	24.00		6	TL	\$1,020
AGFB4	R-3	16.9-24	16.90	x	24.00		6	TL	\$1,065
AGFB8	R-3	18.4-16.1	18.40	x	16.10		8	TL	\$1,366
AGFB10		18.4-26	18.40	x	26.00		12	TL	\$1,452
AGFB11		23.1-26	23.10	x	26.00		12	TL	\$2,007
AGFB12		23.1-26	23.10	x	26.00		12	TL	\$2,092

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AGFB14		24.5-32	24.50	x	32.00		12	TL	\$2,671
AGFB13		28L-26	28.00	x	26.00		16	TL	\$2,617
AGFB15		30.5L-32	30.50	x	32.00		12	TL	\$3,823
AGFB16		30.5L-32 VA	30.50	x	32.00		16	TL	\$4,090
<b>DT 800 RADIAL R-1W</b>			<b>Life (hrs) = 5000</b>						
AGFE1		320/90R42	12.60	x	42.00		139A8/B	TL	\$1,631
AGFE3		320/90R50	12.60	x	50.00		148A8/B	TL	\$2,197
AGFE2		380/90R46	14.90	x	46.00		168A8/B	TL	\$2,516
<b>DT 812 RADIAL R-1W</b>			<b>Life (hrs) = 5000</b>						
AGFF1		420/70R24	14.90	x	24.00		130D	TL	\$1,260
AGFF2		420/70R28	16.50	x	28.00		133D	TL	\$1,364
AGFF3		480/70R30	18.90	x	30.00		152D	TL	\$1,971

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE	TUBE				COST
				PLY	(1)	PER EACH		
DT 820 RADIAL R-1W		Life (hrs) = 5000						
AGFG2	600/65R28	23.60	x	28.00	154D	TL	\$2,295	
AGFG1	620/75R26	24.40	x	26.00	166A8/B	TL	\$3,362	
AGFG5	620/70R42	24.40	x	42.00	166D	TL	\$3,518	
AGFG3	650/75R34	25.60	x	34.00	162A8/B	TL	\$6,497	
AGFG4	710/70R38	27.90	x	38.00	166D	TL	\$3,441	
DYNA TORQUE RADIAL R-1		Life (hrs) = 5000						
AGFH7	380/85R30	14.90	x	30.00	135A8/B	TL	\$1,378	
AGFH9	380/85R34	14.90	x	34.00	137A8/B	TL	\$1,406	
AGFH15	380/85R46	14.90	x	46.00	146D	TL	\$2,629	
TGFH5	380/85R34	15.00	x	34.00	137A8/B	TL	\$1,258	
TGFH6	380/85R34	15.00	x	34.00	145A8/B	TL	\$1,547	
AGFH16	420/80R46	16.50	x	46.00	151A8/B	TL	\$2,595	
AGFH8	420/90R30	16.90	x	30.00	142A8/B	TL	\$1,572	

(1) TT = includes tube, TL = no tube, NO = no tube



## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AGFH10		480/80R38	18.40	x	38.00		149A8/B	TL	\$2,097
AGFH17		480/80R46	18.40	x	46.00		158A8/B	TL	\$2,333
AGFH12		520/85R38	20.80	x	38.00		155A8/B	TL	\$2,486
AGFH14		520/85R42	20.80	x	42.00		157A8/B	TL	\$2,607
<b>DYNA TORQUE II R-1</b>			<b>Life (hrs) = 5000</b>						
AGFJ29	R-1	11.2-16	11.20	x	16.00		4	TL	\$471
AGFJ6	R-1	13.6-24	13.60	x	24.00		8	TL	\$767
AGFJ41	R-1	13.6-28	13.60	x	28.00		6	TL	\$775
AGFJ7		14.9-24	14.90	x	24.00		6	TL	\$742
AGFJ31	R-1	14.9-24	14.90	x	24.00		8	TL	\$718
AGFJ42		14.9-28	14.90	x	28.00		10	TL	\$870
AGFJ8	R-1	16.9-24	16.90	x	24.00		6	TL	\$840
AGFJ39		16.9-26	16.90	x	26.00		10	TL	\$1,277
AGFJ43		16.9-28	16.90	x	28.00		10	TL	\$1,244

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AGFJ37	R-1	16.9-34	16.90	x	34.00		8	TT	\$1,123
AGFJ23	R-1	16.9-38	16.90	x	38.00		8	TT	\$1,179
AGFJ40		18.4-26	18.40	x	26.00		12	TL	\$1,364
AGFJ18	R-1	18.4-34	18.40	x	34.00		8	TT	\$1,190
AGFJ24	R-1	18.4-38	18.40	x	38.00		8	TT	\$1,404
AGFJ19	R-1	20.8-34	20.80	x	34.00		8	TT	\$2,130
AGFJ25	R-1	20.8-38	20.80	x	38.00		8	TT	\$1,791
AGFJ27		20.8-42	20.80	x	42.00	157A8		TL	\$2,607
AGFJ45		23.1-26	23.10	x	26.00		12	TL	\$2,260
AGFJ20	R-1	23.1-34	23.10	x	34.00		8	TT	\$2,697
AGFJ35		24.5-32	24.50	x	32.00		12	TL	\$2,885
AGFJ34		28L-26	28.00	x	26.00		12	TL	\$2,730
AGFJ36		30.5L-32	30.50	x	32.00		12	TL	\$3,374

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE		COST
						PLY	(1)	PER EACH
INDUSTRIAL SURE GRIP R-4			Life (hrs) =	5000				
AGFK1	R-4	16.9-30	16.90	x	30.00	6	TT	\$933
AGFK3		18.4-28	18.40	x	28.00	10	TL	\$1,250
IT510 RADIAL R4			Life (hrs) =	5000				
AGFL3		19.5LR24	19.50	x	24.00	10	TL	\$1,061
IT525 RADIAL R4			Life (hrs) =	5000				
AGFM1	R-4	14.9-24	14.90	x	24.00	8	TL	\$757
AGFM4	R-4	16.9-24	16.90	x	24.00	6	TL	\$1,065
AGFM12		16.9-28	16.90	x	28.00	10	TL	\$1,244
AGFM6		17.5L-24	17.50	x	24.00	12	TL	\$746
AGFM5	R-4	18.4-24	18.40	x	24.00	8	TL	\$1,077
AGFM7		19.5L-24	19.50	x	24.00	10	TL	\$855
AGFM8		19.5L-24	19.50	x	24.00	12	TL	\$725

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AGFM11		21L-24	21.00	x	24.00		12	TL	\$901
AGFM14		21L-28	21.00	x	28.00		14	TL	\$1,082
<b>POWER TORQUE R-1</b>			<b>Life (hrs) = 5000</b>						
AGFN1	R-1	6-12	6.00	x	12.00		4	TL	\$171
<b>SPECIAL SURE GRIP R-2-0</b>			<b>Life (hrs) = 5000</b>						
AGFO2		14.9-24	14.90	x	24.00		10	TL	\$1,282
AGFO11	R-2	18.4-26	18.40	x	26.00		6	TL	\$1,563
AGFO8	R-2	18.4-38	18.40	x	38.00		8	TL	\$1,300
AGFO12		VA500/95D32	19.70	x	32.00	6A5/179		TL	\$4,551
AGFO10	R-2	20.8-38	20.80	x	38.00		8	TL	\$2,590
AGFO3		23.1-26	23.10	x	26.00		16	TL	\$2,260
AGFO4		28L-26	28.00	x	26.00		12	TL	\$1,824
AGFO6		30.5L-32	30.50	x	32.00		14	TL	\$3,543

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>SPECIAL SURE GRIP RADIAL R-2-0</b>			<b>Life (hrs) = 5000</b>						
AGFP8		320/90R46	12.60	x	46.00	156A8/B	TL		\$1,948
AGFP9		340/85R46	13.40	x	46.00	150A8/B	TL		\$1,697
AGFP6		520/85R42	20.80	x	42.00	157A8/B	TL		\$3,497
<b>SUPER TRACTION RADIAL R-1W</b>			<b>Life (hrs) = 5000</b>						
AGFQ3		320/85R38	12.60	x	38.00	143A8/8	TL		\$1,413
AGFQ9		14.9R30	14.90	x	30.00	135A8/B	TL		\$1,081
AGFQ20		380/85R24	14.96	x	24.00	131D	TL		\$1,024
TGFQ15	R-1W	420/85R28	16.50	x	28.00	136A8/B	TL		\$1,178
AGFQ14		420/85R34	16.54	x	34.00	147A8/B	TL		\$1,383
TGFQ7	R-1W	420/90R30	16.90	x	30.00	144A8/B	TL		\$1,337
AGFQ10		16.9R30	16.90	x	30.00	144A8/B	TL		\$1,918
AGFQ11		18.4R26	18.40	x	26.00	140A8/B	TL		\$1,496

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AGFQ12		460/85R30	18.40	x	30.00		145D	TL	\$1,656
AGFQ16		18.4R38	18.40	x	38.00		149D	TL	\$1,263
AGFQ18		18.4R42	18.40	x	42.00		148A8/B	TL	\$1,558
AGFQ5		480/80R46	18.90	x	46.00		158A8/B	TL	\$2,221
AGFQ17		20.8R38	20.80	x	38.00		153A8/B	TL	\$2,582
AGFQ8		28LR26	28.00	x	26.00		169A8/B	TL	\$3,884
AGFQ13		800/65R32	31.50	x	32.00		172A8/B	TL	\$4,892

### DURATORQUE R-1

Life (hrs) = 5000

AGFU1	R-1	14.9-28	14.90	x	28.00		6	TL	\$757
AGFU2	R-1	16.9-30	16.90	x	30.00		6	TL	\$908
AGFU3	R-1	18.4-30	18.40	x	30.00		8	TT	\$1,199
AGFU5	R-1	18.4-38	18.40	x	38.00		8	TT	\$1,339

### FARM, TERRA - 20" UP

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>SFT105</b>		<b>Life (hrs) = 5000</b>							
AHGA2		54-31.00-26NHS	31.00	x	26.00		10	TL	\$2,637
<b>SOF TRAC</b>		<b>Life (hrs) = 5000</b>							
AHGB2	HF-1	41-14.00-20	14.00	x	20.00		4	TL	\$529
AHGB3	HF-1	38-14.00-20	14.00	x	20.00		4	TL	\$699
AHGB1	HF-1	44-18.00-20	18.00	x	20.00		4	TL	\$770
<b>SUPER TERRA GRIP</b>		<b>Life (hrs) = 5000</b>							
AHGC1	HF-2	38-14.00-20	14.00	x	20.00		8	TL	\$783
AHGC11		1000/50R25	43.00	x	25.00		172A8/B	TL	\$7,770
<b>SUPER TERRA GRIP XT</b>		<b>Life (hrs) = 5000</b>							
AHGD5		48x31.00R20	31.00	x	20.00		150A8/B	TL	\$3,647
AHGD7		1050/50R32	44.00	x	32.00		178A8	TL	\$11,138

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>TUNDRA GRIP</b>		<b>Life (hrs) = 5000</b>							
AHGF1		66-43.00-25	43.00	x	25.00		20	TL	\$6,492
<b>FARM, SPECIALTY</b>									
<b>SOFTTRAC</b>		<b>Life (hrs) = 5000</b>							
AJHB1	HF-1	25-8.50-14	8.50	x	14.00		6	TL	\$245
AJHB5	HF-1	27-8.50-15	8.50	x	15.00		6	TL	\$286
AJHB6	HF-1	27-10.50-15	10.50	x	15.00		4	TL	\$293
AJHB4	HF-1	25-10.50-15	10.50	x	15.00		6	TL	\$377
AJHB10	HF-1	31-12.50-15	12.50	x	15.00		4	TL	\$425
AJHB11	HF-1	33-12.50-15	12.50	x	15.00		4	TL	\$510
AJHB7	HF-1	29-12.50-15	12.50	x	15.00		8	TL	\$301
AJHB8	HF-1	31-13.50-15	13.50	x	15.00		8	TL	\$430
AJHB9	HF-1	31-15.50-15	15.50	x	15.00		4	TL	\$451

(1) TT = includes tube, TL = no tube, NO = no tube



## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
TJHB2		16X6.50-8 NHS	16.00	x	8.00		8	TL	\$152
TJHB3		18X8.50-10 NHS	18.00	x	10.00		4	TL	\$174
<b>SUPER TERRA GRIP</b>			<b>Life (hrs) = 5000</b>						
AJHC3	HF-2	29-12.50-15	12.50	x	15.00		6	TL	\$287
AJHC6	HF-2	31-15.50-15	15.50	x	15.00		8	TL	\$567
AJHC7	HF-2	38-20.00-16.1	20.00	x	16.00		8	TL	\$1,553
<b>SURE GRIP LUG</b>			<b>Life (hrs) = 5000</b>						
AJHD9		27-8.50-15	8.50	x	15.00		8	TL	\$268
AJHD1		10-16.5	10.00	x	16.50		8	TL	\$329
AJHD10		27-10.50-15	10.50	x	15.00		8	TL	\$370
AJHD3		12-16.5	12.00	x	16.50		10	TL	\$312
AJHD4		12-16.5	12.00	x	16.50		10	TL	\$419
AJHD5		14-17.5	14.00	x	17.50		14	TL	\$717

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
AJHD6		15-19.5	15.00	x	19.50		8	TL	\$687
<b>IT 323</b>		<b>Life (hrs) = 5000</b>							
AJHE1		10-16.5	10.00	x	16.50		8	TL	\$308
AJHE3		12-16.5	12.00	x	16.50		10	TL	\$388
AJHE4		31-15.50-15	15.50	x	15.00		8	TL	\$567
<b>POWER RIB</b>		<b>Life (hrs) = 5000</b>							
TJHJ2		20X10.00-10	10.00	x	20.00		4	TL	\$60
<b>RALLY</b>		<b>Life (hrs) = 5000</b>							
TJHK2		AT18X9.5-8	9.50	x	18.00		3*	TL	\$76
<b>TERRA RIB</b>		<b>Life (hrs) = 5000</b>							
AJHM2	HF-1	25-7.50-15	7.50	x	15.00		6	TL	\$183

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AJHM4	HF-1	27-9.50-15	9.50	x	15.00		6	TL	\$220
AJHM6	HF-1	31-13.50-15	13.50	x	15.00		8	TL	\$520
<b>ATV</b>		<b>Life (hrs) = 5000</b>							
TJHN1		AT21X7-10	7.00	x	21.00		3*	TL	\$65
TJHN3		AT23X8-11	8.00	x	23.00		3*	TL	\$100
TJHN5		AT24X9-11	9.00	x	24.00		3*	TL	\$115
<b>TRACKER ATT</b>		<b>Life (hrs) = 5000</b>							
TJHT1		AT24X8-11	8.00	x	24.00		3*	TL	\$120
TJHT2		AT24X10-11	10.00	x	24.00		6	TL	\$150

## INDUSTRIAL, MINE SERVICE

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>HARD ROCK LUG MINE &amp; INDUSTRIAL</b>		<b>Life (hrs) = 5000</b>							
TKJC1	11.00-20 NHS	11.00	x	20.00	18	TT			\$519
<b>XTRA TRACTION LUG</b>		<b>Life (hrs) = 5000</b>							
AKJD2	8.25-15	8.25	x	15.00	14	TT			\$679
AKJD7	24x12-12	12.00	x	12.00	24	TL			\$632
AKJD6	35X15-15	15.00	x	15.00	28	TL			\$1,060
<b>XTRA TRACTION GRIP</b>		<b>Life (hrs) = 5000</b>							
AKJE1	32x15-15	15.00	x	15.00	24	TL			\$1,088
<b>OFF-THE-ROAD, MED &amp; HEAVY COMMERCIAL, RADIAL</b>									
<b>G-2 GRADER SERVICE - RL2F, SG2B</b>		<b>Life (hrs) = 3000</b>							
AMLA1	14.00R24	14.00	x	24.00	1*	TL			\$1,967

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE	COST	
				PLY	(1)	PER EACH		
E-2 HAULAGE SERVICE - RL2F/GP2B RL2+		Life (hrs) =	3000					
AMLB1	17.5R25		17.50	x	25.00	X1	TL	\$1,813
AMLB8	18.00R25		19.80	x	25.00	3*	TL	\$4,486
AMLB9	20.5R25		20.50	x	25.00	1*	TL	\$2,815
AMLB2	20.5R25		20.50	x	25.00	1*	TL	\$2,815
AMLB15	21.00R35		21.00	x	35.00	2*	TL	\$6,797
AMLB10	23.5R25		23.50	x	25.00	X2	TL	\$2,991
AMLB3	22/65R25		24.80	x	25.00	2*	TL	\$2,848
AMLB22	29.5R25		29.50	x	25.00	X2	TL	\$7,115
AMLB21	29.5R29		29.50	x	29.00	X2	TL	\$14,141
FMLB23	40.5/75R39		40.50	x	39.00	X2	TL	\$15,996
E-3 HAULAGE SERVICE -ROCK DESIGN RL		Life (hrs) =	3200					
AMLC3	18.00R33		20.20	x	33.00	3*	TL	\$8,462

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE		COST
							PLY	(1)	PER EACH
AMLC5		24.00R35	24.00	x	35.00		X2	TL	\$9,622
AMLC6		29.5R29	29.50	x	29.00		X2	TL	\$7,964
FMLC8		37.25R35	37.35	x	35.00		X2	TL	\$13,594
<b>E-4 RL4J/RL4 &amp; RL4H/RL4 E4</b>			<b>Life (hrs) = 3200</b>						
AMLD2		14.00R24	14.00	x	24.00		12	TL	\$902
AMLD3		14.00R25	14.00	x	25.00		X3	TL	\$2,266
AMLD4		18.00R25	20.30	x	25.00		2*	TL	\$4,592
AMLD14		21.00R35	21.00	x	35.00		2*	TL	\$9,346
AMLD7		27.00R49	27.00	x	49.00		2*	TL	\$15,576
FMLD9		33.00R51	33.00	x	51.00		3*	TL	\$24,469
FMLD11		37.00R57	37.00	x	57.00		X2	TL	\$41,235
<b>MOBILE CRANE</b>			<b>Life (hrs) = 3000</b>						
AMLF1		445/95R25	17.50	x	25.00		177E	TL	\$2,240

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
AMLF3		525/80R25 (20.5R25)	20.60	x	25.00		X1	TL	\$2,175
<b>SPECIAL SERVICE - AT2A</b>		<b>Life (hrs) = 3000</b>							
AMLH1		14.00R20	14.00	x	20.00		18	TL	\$1,784
AMLH3		16.00R20	16.00	x	20.00		22	TL	\$2,189
AMLH2		17.5R25	17.50	x	25.00		X1	TL	\$1,994
<b>E-3 ROCK SERVICE SUPER HARD ROCK LU</b>		<b>Life (hrs) = 3000</b>							
AMMF1		26.5-25	26.50	x	25.00		24	TL	\$4,894
<b>OFF-THE-ROAD, MED &amp; HEAVY COMMERCIAL, BIAS</b>									
<b>E-1 HRR 1A</b>		<b>Life (hrs) = 3200</b>							
ANMB1		14.00-24	14.00	x	24.00		16	TL	\$1,150

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE PLY	(1)	COST PER EACH
<b>E-2 TRACTION EARTHMOVER SURE GRIP</b>		<b>Life (hrs) = 3200</b>						
ANMC3	18.00-25		18.00	x	25.00	32	TL	\$4,519
<b>E-3 ROCK SERVICE HARD ROCK LUG/HRL</b>		<b>Life (hrs) = 3200</b>						
ANME1	12.00-20		12.00	x	20.00	18	TT	\$708
ANME2	12.00-24		12.00	x	24.00	20	TT	\$1,023
ANME3	14.00-24		14.00	x	24.00	28	TT	\$3,253
ANME6	16.00-25		16.00	x	25.00	32	TL	\$3,812
<b>E-3 ROCK SERVICE SUPER HARD ROCK LU</b>		<b>Life (hrs) = 3000</b>						
TNMF4	29.5-25		29.50	x	25.00	28	TL	\$9,739
TNMF5	29.5-29		29.50	x	29.00	28	TL	\$4,259
TNMF6	29.5-29		29.50	x	29.00	34	TL	\$7,208

(1) TT = includes tube, TL = no tube, NO = no tube



## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>E-3 ROCK SERVICE SHRL8</b>		<b>Life (hrs) = 3000</b>							
TNMG8		29.5-25	29.50	x	25.00		28	TL	\$6,828
TNMG9		29.5-25	29.50	x	25.00		34	TL	\$7,459
TNMG7		33.25-29	33.25	x	29.00		38	TL	\$9,824
TNMG6	E-3	33.25-35	33.25	x	35.00		56	TL	\$12,858
ANMG7		37.25-35	37.25	x	35.00		36	TL	\$14,082
ANMG9		37.5-39	37.50	x	39.00		44	TL	\$10,785
<b>E-3 ROCK SERVICE ELV3A, ELV4B, ELV4/5</b>		<b>Life (hrs) = 3200</b>							
ANMH9		18.00-25	18.00	x	25.00		40	TL	\$5,352
ANMH4		18.00-25	18.00	x	25.00		40	TL	\$5,496
<b>E-3 ROCK SERVICE HRL 3F</b>		<b>Life (hrs) = 3200</b>							
ANMJ2		37.25-35	37.25	x	35.00		36	TL	\$13,799
ANMJ5		37.25-35	37.25	x	35.00		36	TL	\$14,524

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
ANMJ6	37.25-35		37.25	x	35.00		42	TL	\$14,082
<b>E-3 ROCK SERVICE WRL 3A</b>		<b>Life (hrs) = 3200</b>							
ANML1	14.00-20		14.00	x	20.00		10	TT	\$1,111
ANML2	14.00-24		16.00	x	24.00		24	TL	\$3,253
<b>E-4 ROCK SERVICE HRL 4B</b>		<b>Life (hrs) = 3200</b>							
ANMN1	16.00-25		16.00	x	25.00		32	TL	\$4,024
ANMN4	21.00-35		21.00	x	35.00		36	TL	\$7,250
ANMN5	24.00-35		24.00	x	35.00		42	TL	\$10,907
ANMN9	36.00R51		36.00	x	51.00		2*	TL	\$27,183
<b>E-7 FLOTATION TYPE SAND RIB SRB 7A</b>		<b>Life (hrs) = 3200</b>							
TNMQ1	17.5R25		17.50	x	25.00		1*	TL	\$1,658
TNMQ2	20.5R25		20.50	x	25.00		1*	TL	\$2,374

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE PLY	(1)	COST PER EACH
TNMQ3	23.5R25		23.50	x	25.00	1*	TL	\$3,390
<b>E-7 FLOTATION TYPE PAVER TIRE</b>		<b>Life (hrs) = 3200</b>						
ANMR1	16.00-24		16.00	x	24.00	16	TL	\$1,706
<b>G-2 SGG2A</b>		<b>Life (hrs) = 3000</b>						
TNMT10	13.00-24		13.00	x	24.00	12	TL	\$763
TNMT6	14.00-24		14.00	x	24.00	12	TL	\$848
TNMT8	14.00-24		14.00	x	24.00	14	TL	\$1,036
<b>G-2 SGLDL 2A L2</b>		<b>Life (hrs) = 3000</b>						
ANMV2	17.5-25		17.50	x	25.00	12	TL	\$861
ANMV4	17.5-25		17.50	x	25.00	16	TL	\$997
ANMV3	17.5-25		17.50	x	25.00	16	TL	\$1,231
ANMV5	17.5-25		17.50	x	25.00	20	TL	\$1,133

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE PLY	(1)	COST PER EACH
<b>G-2 SGLEL 2A ES/L2/G2</b>		<b>Life (hrs) = 3000</b>						
TNMW1		20.5-25	20.50	x	25.00	12	TL	\$1,698
TNMW2		20.5-25	20.50	x	25.00	16	TL	\$2,083
TNMW5		23.5-25	23.50	x	25.00	16	TL	\$2,967
<b>G-3 RKG 3A</b>		<b>Life (hrs) = 3000</b>						
TNMX1		14.00-24	14.00	x	24.00	1*	TL	\$1,967
<b>L-3 DOZER/LOADER SERVICE ROCK SERVI</b>		<b>Life (hrs) = 3000</b>						
ANNB1		20.5-25	20.50	x	25.00	20	TL	\$1,356
ANNB2		23.5-25	23.50	x	25.00	16	TL	\$4,015
ANNB6		23.5-25	23.50	x	25.00	20	TL	\$4,228
ANNB5		23.5-25	23.50	x	25.00	2X	TL	\$3,752

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE PLY	(1)	COST PER EACH
<b>L-3 DOZER/LOADER SERVICE ROCK SHRL Life (hrs) = 3000</b>									
TNNC3		29.5-25	29.50	x	25.00		28	TL	\$8,084
<b>L-3 DOZER/LOADER SERVICE ROCK HRL D Life (hrs) = 3000</b>									
ANND2		26.5-25	26.50	x	25.00		20	TL	\$6,254
<b>L-4 DOZER/LOADER SERVICE ROCK DEEP Life (hrs) = 3000</b>									
TNNG1		35/65-33	35.00	x	33.00		42	TL	\$16,289
<b>L-5 DOZER/LOADER SERVICE ROCK SUPE Life (hrs) = 3000</b>									
TNNL2		35/65-33	35.00	x	33.00		42	TL	\$9,669
TNNL4		41.25/70-39	41.25	x	39.00		42	TL	\$28,826
ANNL7		45/65-45	45.00	x	45.00		58	TL	\$27,990

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE			TUBE PLY	(1)	COST PER EACH
<b>L-5 DOZER/LOADER SERVICE SMOOTH SM Life (hrs) = 3000</b>								
ANNN3	18.00-25		18.00	x	25.00	40	TL	\$4,952
<b>L-5 DOZER/LOADER SERVICE SMOOTH SU Life (hrs) = 3000</b>								
TNNO1	29.5-29		29.50	x	25.00	34	TL	\$13,583

## CONVEYOR/LOADER BELTING

CONVEYOR BELTING (GOODYEAR EP)		Life (hrs) = 5000					
AZZA1	Conveyor Belting	24.00	x	50.00	2	NO	\$2,590
AZZA2	Conveyor Belting	24.00	x	60.00	2	NO	\$3,071
AZZA3	Conveyor Belting	24.00	x	70.00	2	NO	\$3,553
AZZA4	Conveyor Belting	24.00	x	80.00	2	NO	\$4,034
AZZA5	Conveyor Belting	24.00	x	90.00	2	NO	\$4,516
AZZA6	Conveyor Belting	24.00	x	100.00	2	NO	\$4,998

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE	COST
							PLY	(1) PER EACH
AZZA7		Conveyor Belting	24.00	x	110.00		2	NO \$5,479
AZZA8		Conveyor Belting	24.00	x	120.00		2	NO \$5,961
AZZA9		Conveyor Belting	24.00	x	130.00		2	NO \$6,443
AZZA10		Conveyor Belting	24.00	x	140.00		2	NO \$6,924
AZZA11		Conveyor Belting	24.00	x	150.00		2	NO \$7,406
AZZA12		Conveyor Belting	30.00	x	50.00		2	NO \$2,590
AZZA13		Conveyor Belting	30.00	x	60.00		2	NO \$3,071
AZZA14		Conveyor Belting	30.00	x	70.00		2	NO \$3,553
AZZA15		Conveyor Belting	30.00	x	80.00		2	NO \$4,034
AZZA16		Conveyor Belting	30.00	x	90.00		2	NO \$4,516
AZZA17		Conveyor Belting	30.00	x	100.00		2	NO \$4,998
AZZA18		Conveyor Belting	30.00	x	110.00		2	NO \$5,479
AZZA19		Conveyor Belting	30.00	x	120.00		2	NO \$5,961
AZZA20		Conveyor Belting	30.00	x	130.00		2	NO \$6,443
AZZA21		Conveyor Belting	30.00	x	140.00		2	NO \$6,924
AZZA22		Conveyor Belting	30.00	x	150.00		2	NO \$7,406

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE	COST
							PLY (1)	
AZZA23		Conveyor Belting	36.00	x	50.00		2 NO	\$2,590
AZZA24		Conveyor Belting	36.00	x	60.00		2 NO	\$3,071
AZZA25		Conveyor Belting	36.00	x	70.00		2 NO	\$3,553
AZZA26		Conveyor Belting	36.00	x	80.00		2 NO	\$4,034
AZZA27		Conveyor Belting	36.00	x	90.00		2 NO	\$4,516
AZZA28		Conveyor Belting	36.00	x	100.00		2 NO	\$4,998
AZZA29		Conveyor Belting	36.00	x	110.00		2 NO	\$5,479
AZZA30		Conveyor Belting	36.00	x	120.00		2 NO	\$5,961
AZZA31		Conveyor Belting	36.00	x	130.00		2 NO	\$6,443
AZZA32		Conveyor Belting	36.00	x	140.00		2 NO	\$6,924
AZZA33		Conveyor Belting	36.00	x	150.00		2 NO	\$7,406
AZZA34		Conveyor Belting	42.00	x	50.00		2 NO	\$2,590
AZZA35		Conveyor Belting	42.00	x	60.00		2 NO	\$3,071
AZZA36		Conveyor Belting	42.00	x	70.00		2 NO	\$3,553
AZZA37		Conveyor Belting	42.00	x	80.00		2 NO	\$4,034
AZZA38		Conveyor Belting	42.00	x	90.00		2 NO	\$4,516

(1) TT = includes tube, TL = no tube, NO = no tube



## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE	COST
							PLY (1)	
AZZA39		Conveyor Belting	42.00	x	100.00		2 NO	\$4,998
AZZA40		Conveyor Belting	42.00	x	110.00		2 NO	\$5,479
AZZA41		Conveyor Belting	42.00	x	120.00		2 NO	\$5,961
AZZA42		Conveyor Belting	42.00	x	130.00		2 NO	\$6,443
AZZA43		Conveyor Belting	42.00	x	140.00		2 NO	\$6,924
AZZA44		Conveyor Belting	42.00	x	150.00		2 NO	\$7,406
AZZA45		Conveyor Belting	48.00	x	50.00		3 NO	\$2,909
AZZA46		Conveyor Belting	48.00	x	60.00		3 NO	\$3,454
AZZA47		Conveyor Belting	48.00	x	70.00		3 NO	\$4,000
AZZA48		Conveyor Belting	48.00	x	80.00		3 NO	\$4,545
AZZA49		Conveyor Belting	48.00	x	90.00		3 NO	\$5,091
AZZA50		Conveyor Belting	48.00	x	100.00		3 NO	\$5,636
AZZA51		Conveyor Belting	48.00	x	110.00		3 NO	\$6,182
AZZA52		Conveyor Belting	48.00	x	120.00		3 NO	\$6,727
AZZA53		Conveyor Belting	48.00	x	130.00		3 NO	\$7,273
AZZA54		Conveyor Belting	48.00	x	140.00		3 NO	\$7,818

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Description and Tire Cost

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE				TUBE	COST
							PLY	(1) PER EACH
AZZA55		Conveyor Belting	48.00	x	150.00		3	NO \$8,364
AZZA56		Conveyor Belting	60.00	x	50.00		4	NO \$3,621
AZZA57		Conveyor Belting	60.00	x	60.00		4	NO \$4,308
AZZA58		Conveyor Belting	60.00	x	70.00		4	NO \$4,997
AZZA59		Conveyor Belting	60.00	x	80.00		4	NO \$5,685
AZZA60		Conveyor Belting	60.00	x	90.00		4	NO \$6,373
AZZA61		Conveyor Belting	60.00	x	100.00		4	NO \$7,061
AZZA62		Conveyor Belting	60.00	x	110.00		4	NO \$7,749
AZZA63		Conveyor Belting	60.00	x	120.00		4	NO \$8,437
AZZA64		Conveyor Belting	60.00	x	130.00		4	NO \$9,124
AZZA65		Conveyor Belting	60.00	x	140.00		4	NO \$9,812
AZZA66		Conveyor Belting	60.00	x	150.00		4	NO \$10,500

(1) TT = includes tube, TL = no tube, NO = no tube

## Tire Life and Tire Wear Factors

---

### SECTION I. TIRE WEAR FACTORS

The tire wear factors used in this pamphlet are listed in appendix D. The “useful life” of a new tire is the product of Condition Factors (CF) from I through V, the Wheel Position Factor (WPF), the Grade Factor (GF) (for Drive Tires only) and the Miscellaneous Condition (MC). These factors provide a percentage reduction to the maximum tire life. See chapter 2 for tire cost methodology. Condition Factors, Wheel Position Factors, Grade Factor, and Miscellaneous Condition are derived from the Caterpillar Performance Handbook. The factors shown below are examples specifically for a bottom dump wagon.

---

<b>Condition Factors (CF):</b>		<b>Average</b>	<b>Severe</b>
<b>I.</b>	Maintenance	0.981	0.763
<b>II.</b>	Speed	0.872	0.763
<b>III.</b>	Surface Condition	0.981	0.763
<b>IV.</b>	Loads	0.981	0.709
<b>V.</b>	Curves	0.981	0.872
<b>CF</b>	Product of the factors (I x II x III x IV x V)	0.808	0.275
<hr/>			
<b>Wheel Position Factors (WPF):</b>			
<b>VI.</b>	WPF-FT Front Tire (FT)	0.981	0.981
<b>VII.</b>	WPF-DTR Drive Tire (DT) - Bottom Dump	0.872	0.872
<b>VIII.</b>	WPF-TT Trailing Tire (TT)	1.09	1.09
<b>IX.</b>	Grade Factor (GF) (Drive Tires Only)	0.981	0.872
<b>X.</b>	Miscellaneous Condition (MC)	0.981	0.981

SECTION I. TIRE WEAR FACTORS (Continued)	Average	Severe
--	---------	--------

---

Front Tire-Average =

$$(CF = .808)(WPF-FT = 0.981)(MC = 0.981) = .78$$

Front Tire-Severe =

$$(CF = .275)(WPF-FT = 0.981)(MC = 0.981) = .26$$

Drive Tire-Average =

$$(CF = .808)(WPF-FT = 0.872)(MC = 0.981) = .69$$

Drive Tire-Severe =

$$(CF = .275)(WPF-FT = 0.872)(MC = 0.981) = .23$$

Trailing Tire-Average =

$$(CF = .808)(WPF-FT = 1.09)(MC = 0.981) = .86$$

Trailing Tire-Severe =

$$(CF = .275)(WPF-FT = 1.09)(MC = 0.981) = .29$$

---

## SECTION II. MAXIMUM TIRE LIFE

Maximum tire life is used in the formula to determine tire wear cost. It is located in appendix F and categorized by tire type.

**Federal Cost-of-Money Rate (Renegotiation or Prompt Payment Rate)**

<b>EFFECTIVE MONTHS</b>	<b>EFFECTIVE DATE</b>	<b>RATE</b>
JANUARY - JUNE	1/1/2021	0.875%
JULY - DECEMBER	7/1/2020	1.125%
JANUARY - JUNE	1/1/2020	2.125%
JULY - DECEMBER	7/1/2019	2.625%
JANUARY - JUNE	1/1/2019	3.625%
JULY - DECEMBER	7/1/2018	3.500%
JANUARY - JUNE	1/1/2018	2.625%
JULY - DECEMBER	7/1/2017	2.375%
JANUARY - JUNE	1/1/2017	2.500%
JULY - DECEMBER	7/1/2016	1.875%
JANUARY - JUNE	1/1/2016	2.500%
JULY - DECEMBER	7/1/2015	2.375%
JANUARY - JUNE	1/1/2015	2.125%
JULY - DECEMBER	7/1/2014	2.000%
JANUARY - JUNE	1/1/2014	2.125%
JULY - DECEMBER	7/1/2013	1.750%
JANUARY - JUNE	1/1/2013	1.375%
JULY - DECEMBER	7/1/2012	1.750%
JANUARY - JUNE	1/1/2012	2.000%
JULY - DECEMBER	7/1/2011	2.500%
JANUARY - JUNE	1/1/2011	2.625%

**Federal Cost-of-Money Rate (Renegotiation or Prompt Payment Rate)**

<b>EFFECTIVE MONTHS</b>	<b>EFFECTIVE DATE</b>	<b>RATE</b>
JULY - DECEMBER	7/1/2010	3.125%
JANUARY - JUNE	1/1/2010	3.250%
JULY - DECEMBER	7/1/2009	4.875%
JANUARY - JUNE	1/1/2009	5.625%
JULY - DECEMBER	7/1/2008	5.125%
JANUARY - JUNE	1/1/2008	4.750%
JULY - DECEMBER	7/1/2007	5.750%
JANUARY - JUNE	1/1/2007	5.250%
JULY - DECEMBER	7/1/2006	5.750%
JANUARY - JUNE	1/1/2006	5.125%
JULY - DECEMBER	7/1/2005	4.500%
JANUARY - JUNE	1/1/2005	4.250%
JULY - DECEMBER	7/1/2004	4.500%
JANUARY - JUNE	1/1/2004	4.000%
JULY - DECEMBER	7/1/2003	3.125%
JANUARY - JUNE	1/1/2003	4.250%
JULY - DECEMBER	7/1/2002	5.250%
JANUARY - JUNE	1/1/2002	5.500%
JULY - DECEMBER	7/1/2001	5.875%
JANUARY - JUNE	1/1/2001	6.375%
JULY - DECEMBER	7/1/2000	7.250%

**Federal Cost-of-Money Rate (Renegotiation or Prompt Payment Rate)**

<b>EFFECTIVE MONTHS</b>	<b>EFFECTIVE DATE</b>	<b>RATE</b>
JANUARY - JUNE	1/1/2000	6.750%
JULY - DECEMBER	7/1/1999	6.500%
JANUARY - JUNE	1/1/1999	5.000%
JULY - DECEMBER	7/1/1998	6.000%
JANUARY - JUNE	1/1/1998	6.250%
JULY - DECEMBER	7/1/1997	6.750%
JANUARY - JUNE	1/1/1997	6.375%
JULY - DECEMBER	7/1/1996	7.000%
JANUARY - JUNE	1/1/1996	5.875%
JULY - DECEMBER	7/1/1995	6.375%
JANUARY - JUNE	1/1/1995	8.125%
JULY - DECEMBER	7/1/1994	7.000%
JANUARY- JUNE	1/1/1994	5.500%
JULY - DECEMBER	7/1/1993	5.625%
JANUARY - JUNE	1/1/1993	6.500%
JULY - DECEMBER	7/1/1992	7.000%
JANUARY - JUNE	1/1/1992	6.875%
JULY - DECEMBER	7/1/1991	8.500%
JANUARY - JUNE	1/1/1991	8.375%
JULY - DECEMBER	7/1/1990	9.000%
JANUARY - JUNE	1/1/1990	8.500%

**Federal Cost-of-Money Rate (Renegotiation or Prompt Payment Rate)**

<b>EFFECTIVE MONTHS</b>	<b>EFFECTIVE DATE</b>	<b>RATE</b>
JULY - DECEMBER	7/1/1989	9.125%
JANUARY - JUNE	1/1/1989	9.750%
JULY - DECEMBER	7/1/1988	9.250%
JANUARY - JUNE	1/1/1988	9.375%
JULY - DECEMBER	7/1/1987	8.875%
JANUARY - JUNE	1/1/1987	7.625%
JULY - DECEMBER	7/1/1986	8.500%
JANUARY - JUNE	1/1/1986	9.750%
JULY - DECEMBER	7/1/1985	10.375%
JANUARY - JUNE	1/1/1985	12.125%
JULY - DECEMBER	7/1/1984	14.375%
JANUARY - JUNE	1/1/1984	12.375%
JULY - DECEMBER	7/1/1983	11.500%
JANUARY - JUNE	1/1/1983	11.250%
JULY - DECEMBER	7/1/1982	15.500%
JANUARY - JUNE	1/1/1982	14.750%
JULY - DECEMBER	7/1/1981	14.875%
JANUARY - JUNE	1/1/1981	14.675%
JULY - DECEMBER	7/1/1980	10.500%
JANUARY - JUNE	1/1/1980	12.250%
JULY - DECEMBER	7/1/1979	10.250%



**Federal Cost-of-Money Rate (Renegotiation or Prompt Payment Rate)**

<b>EFFECTIVE MONTHS</b>	<b>EFFECTIVE DATE</b>	<b>RATE</b>
JANUARY - JUNE	1/1/1979	9.875%
JULY - DECEMBER	7/1/1978	9.000%
JANUARY - JUNE	1/1/1978	8.250%
JULY - DECEMBER	7/1/1977	7.875%
JANUARY - JUNE	1/1/1977	7.750%
JULY - DECEMBER	7/1/1976	8.500%

## Equipment Accessories

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories 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.

CAT	SUB	DESCRIPTION
-----	-----	-------------

### C85 .10 CRANES, DRAGLINE AND CLAMSHELL, CRAWLER MOUNTED

- Power load lowering
- Independent swing and travel
- Third drum
- Torque converter [machines 1 1/2 cubic yard (cy) or larger]
- Approximately one-half maximum boom length
- Counterweight (standard)
- Fire extinguisher 5-B:C
- Swing and reverse signal (backup) alarm
- Boom angle indicator and a load-indicating device
- Drum rotation indicators
- Anti-two block (upper limit) devices
- Manufacturers' mandatory accessories

### C85 .20 CRANES, LIFTING, CRAWLER MOUNTED

- Power load lowering
- Independent swing and travel
- Third drum
- Torque converter (machines 25 tons or larger)
- One-half maximum boom length (machines less than 60 tons)
- Maximum boom length at 360 degree rating (machines larger than 60 tons)
- Counterweight (standard)
- Fire extinguisher 5-B:C
- Swing and reverse signal (backup) alarm
- Boom angle indicator and a load-indicating device
- Drum rotation indicators
- Anti-two block (upper limit) devices
- Manufacturers' mandatory accessories

## Equipment Accessories

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories 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.

CAT	SUB	DESCRIPTION
-----	-----	-------------

### C85

Hook block on machines larger than 100 tons

### C90 .01 TRUCK CRANES - LESS THAN 25 TONS

Power load lowering  
Third drum  
Mechanical outriggers with screw jacks  
Maximum boom length at 360 degrees rating  
Counterweight (standard)  
Fire extinguisher 5-B:C  
Swing and reverse signal (backup) alarm  
Boom angle indicator and a load-indicating device  
Drum rotation indicators  
Anti-two block (upper limit) devices  
Manufacturers mandatory accessories

### C90 .02 TRUCK CRANE - 25 TONS AND LARGER

Power load lowering  
Third drum  
Hydraulic outriggers with screw jacks  
Torque converter when available (upper only)  
Maximum boom length at 360 degrees rating  
Counterweight (standard)  
Fire extinguisher 5-B:C  
Reverse signal (backup) alarm  
Boom angle indicator and a load-indicating device  
Drum rotation indicators  
Anti-two block (upper limit) devices

## Equipment Accessories

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories 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.

CAT	SUB	DESCRIPTION
-----	-----	-------------

### C90

Hook block on machines larger than 100 tons

### C90 .03 TRUCK CRANE - 25 TONS AND LARGER

Power load lowering  
Third drum  
Hydraulic outriggers with screw jacks  
Torque converter when available (upper only)  
Maximum boom length at 360 degrees rating  
Counterweight (standard)  
Fire extinguisher 5-B:C  
Reverse signal (backup) alarm  
Boom angle indicator and a load-indicating device  
Drum rotation indicators  
Anti-two block (upper limit) devices  
Hook block on machines larger than 100 tons

### C90 .04 TRUCK CRANE - 25 TONS AND LARGER

Power load lowering  
Third drum  
Hydraulic outriggers with screw jacks  
Torque converter when available (upper only)  
Maximum boom length at 360 degrees rating  
Counterweight (standard)  
Fire extinguisher 5-B:C  
Reverse signal (backup) alarm  
Boom angle indicator and a load-indicating device  
Drum rotation indicators

## Equipment Accessories

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories 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.

CAT	SUB	DESCRIPTION
-----	-----	-------------

### C90

- Anti-two block (upper limit) devices
- Hook block on machines larger than 100 tons

### G15 GRADER

- Rollover protective structures (ROPS) with enclosed cab
- Ripper/scarifier, rear mounted
- Front wheel lean
- Power circle
- Hydraulic shift and tilt moldboard
- End bits
- Standard work lights
- Fire extinguisher 5-B:C
- Reverse signal (backup) alarm

### L30 LOADERS, BELT (CONVEYOR BELTS)

- Power unit
- Head pulley clutch and backstop
- Belt cleaner and belt installing equipment
- King pin attachments

### L35 LOADERS, 1 1/2 cy AND LARGER

- Blower fan
- Guard, power train
- Automatic bucket positioner
- Standard counterweight

## Equipment Accessories

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories 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.

CAT	SUB	DESCRIPTION
-----	-----	-------------

### L35

Machines less than 7 cy: General purpose or excavating bucket with bolt o  
Machines 7 cy or larger: Rock bucket with bolt on cutting edge and teeth  
Standard work lights  
Reverse signal (backup) alarm  
ROPS  
Fire extinguisher 5-B:C

### S15 SCRAPERS

Control single lever  
Blower fan  
Standard work light  
Guards, power train  
Reverse signal (backup) alarm  
ROPS  
Fire extinguisher 5-B:C  
Supplemental steering

### S20 SCRAPERS

Control single lever  
Blower fan  
Standard work light  
Guards, power train  
Reverse signal (backup) alarm  
ROPS  
Fire extinguisher 5-B:C  
Supplemental steering

## Equipment Accessories

---

The following accessories are listed by category (CAT), subcategory (SUB), and description (including features required for safety). The accessories 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.

---

CAT	SUB	DESCRIPTION
-----	-----	-------------

---

### T20 TRACTOR, WHEEL

- Hydraulic controls for ripper and blade
- Guards
- Blower fan
- Standard work lights
- Blade
- Fire extinguisher 5-B:C
- Counterweights when required

Ground-Engaging Component Costs Included in Repairs (RCF)

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	Blade Cutting Edges, Wear Plates, Hard Facing, and End	Bucket Teeth, Cutting Edges, Side Cutters, and Wear Plates	Ripper Tips and Shank Protection	Equipment-Specific Wear Items	RCF
B15	0.00	BROOMS, STREET SWEEPERS & FLUSHERS	95	A	B	8,000	10.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
B25	0.00	BUCKETS, CLAMSHELL	15	A	B	8,000	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B25	0.00	BUCKETS, CLAMSHELL	15	S	B	6,500	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
B35	0.10	LIGHT WEIGHT	15	A	B	8,000	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B35	0.10	LIGHT WEIGHT	15	S	B	6,500	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
B35	0.20	MEDIUM WEIGHT	15	A	B	9,000	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B35	0.20	MEDIUM WEIGHT	15	S	B	7,000	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
B35	0.30	HEAVY WEIGHT	15	A	B	10,000	10.00%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B35	0.30	HEAVY WEIGHT	15	S	B	8,000	10.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
G15	0.00	GRADERS, MOTOR	35	A	B	14,500	25.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.75
G15	0.00	GRADERS, MOTOR	35	S	B	13,500	25.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.85
H25	0.00	HYDRAULIC EXCAVATORS, CRAWLER MOUNTED						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.00
H25	0.10	0 LBS THRU 12,500 LBS	65	A	B	8,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
H25	0.10	0 LBS THRU 12,500 LBS	65	S	B	7,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
H25	0.11	OVER 12,500 LBS THRU 40,000 LBS	65	A	B	8,500	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70

EK = Economic Key (appendix E)  
LIFE = Economic Life

C = Operating Conditions (A = average, S = severe)  
SLV = Salvage Value

DC = Discount Code (B = basic 7.5%, S = special 15%)  
RCF = Repair Cost Factor

Ground-Engaging Components (GEC) are defined as those wear items on the machine that come in direct contact with in situ ground to perform the machine's primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment-specific wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.



Ground-Engaging Component Costs Included in Repairs (RCF)

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	Blade Cutting Edges, Wear Plates, Hard Facing, and End	Bucket Teeth, Cutting Edges, Side Cutters, and Wear Plates	Ripper Tips and Shank Protection	Equipment-Specific Wear Items	RCF
H25	0.11	OVER 12,500 LBS THRU 40,000 LBS	65	S	B	7,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.85
H25	0.12	OVER 40,000 LBS THRU 100,000 LBS	65	A	B	12,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
H25	0.12	OVER 40,000 LBS THRU 100,000 LBS	65	S	B	10,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.95
H25	0.13	OVER 100,000 LBS THRU 160,000 LBS	65	A	B	16,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.00
H25	0.13	OVER 100,000 LBS THRU 160,000 LBS	65	S	B	13,500	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
H25	0.14	OVER 160,000 LBS	65	A	B	19,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
H25	0.14	OVER 160,000 LBS	65	S	B	15,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
H30	0.00	HYDRAULIC EXCAVATORS, WHEEL MOUNTED						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.00
H30	0.01	0 THRU 1.0 CY	65	A	B	8,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.50
H30	0.01	0 THRU 1.0 CY	65	S	B	6,500	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.55
H30	0.02	OVER 1.0 CY	65	A	B	10,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.60
H30	0.02	OVER 1.0 CY	65	S	B	8,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.65
H35	0.00	HYDRAULIC SHOVELS, CRAWLER MOUNTED						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.00

EK = Economic Key (appendix E)  
LIFE = Economic Life

C = Operating Conditions (A = average, S = severe)  
SLV = Salvage Value

DC = Discount Code (B = basic 7.5%, S = special 15%)  
RCF = Repair Cost Factor

Ground-Engaging Components (GEC) are defined as those wear items on the machine that come in direct contact with in situ ground to perform the machine's primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment-specific wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

Ground-Engaging Component Costs Included in Repairs (RCF)

CATEGORY SUB		DESCRIPTION	EK	C	DC	LIFE	SLV	Blade Cutting Edges, Wear Plates, Hard Facing, and End	Bucket Teeth, Cutting Edges, Side Cutters, and Wear Plates	Ripper Tips and Shank Protection	Equipment- Specific Wear Items	RCF
H35	0.11	DIESEL, 0 CY THRU 5.0 CY	65	A	B	14,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.00
H35	0.11	DIESEL, 0 CY THRU 5.0 CY	65	S	B	12,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
H35	0.12	DIESEL, OVER 5.0 CY	65	A	B	16,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.20
H35	0.12	DIESEL, OVER 5.0 CY	65	S	B	14,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.30
H35	0.21	ELECTRIC, OVER 2.5 CY	65	A	B	18,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
H35	0.21	ELECTRIC, OVER 2.5 CY	65	S	B	16,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.90
L35	0.00	LOADERS, FRONT END, CRAWLER TYPE	40	A	B	10,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
L35	0.00	LOADERS, FRONT END, CRAWLER TYPE	40	S	B	8,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
L40	0.00	LOADERS, FRONT END, WHEEL TYPE						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.00
L40	0.11	ARTICULATED, 0 THRU 225 HP	45	A	B	9,250	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
L40	0.11	ARTICULATED, 0 THRU 225 HP	45	S	B	8,750	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
L40	0.12	ARTICULATED, OVER 225 HP	45	A	B	13,500	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
L40	0.12	ARTICULATED, OVER 225 HP	45	S	B	12,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.75
L40	0.20	SKID STEER	45	A	B	8,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
L40	0.31	TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP	45	A	B	10,000	25.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85

EK = Economic Key (appendix E)  
LIFE = Economic Life

C = Operating Conditions (A = average, S = severe)  
SLV = Salvage Value

DC = Discount Code (B = basic 7.5%, S = special 15%)  
RCF = Repair Cost Factor

Ground-Engaging Components (GEC) are defined as those wear items on the machine that come in direct contact with in situ ground to perform the machine's primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment-specific wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

Ground-Engaging Component Costs Included in Repairs (RCF)

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	Blade Cutting Edges, Wear Plates, Hard Facing, and End	Bucket Teeth, Cutting Edges, Side Cutters, and Wear Plates	Ripper Tips and Shank Protection	Equipment-Specific Wear Items	RCF
L40	0.31	TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP	45	S	B	9,250	25.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
L40	0.32	TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP	45	A	B	12,000	15.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
L40	0.32	TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP	45	S	B	10,000	15.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
L45	0.00	LOADERS / BACKHOE, CRAWLER TYPE	40	A	B	8,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.35
L45	0.00	LOADERS / BACKHOE, CRAWLER TYPE	40	S	B	6,000	20.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.40
L50	0.00	LOADERS / BACKHOE, WHEEL TYPE	45	A	B	10,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
L50	0.00	LOADERS / BACKHOE, WHEEL TYPE	45	S	B	6,000	25.00%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.85
L60	0.00	LOG SKIDDERS	75	A	B	10,000	15.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.70
L60	0.00	LOG SKIDDERS	75	S	B	8,000	15.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
P35	0.00	PIPELAYERS	70	A	B	14,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.95
P35	0.00	PIPELAYERS	70	S	B	11,500	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.10
R30	0.00	ROLLERS, STATIC, SELF-PROPELLED						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.00

EK = Economic Key (appendix E)  
LIFE = Economic Life

C = Operating Conditions (A = average, S = severe)  
SLV = Salvage Value

DC = Discount Code (B = basic 7.5%, S = special 15%)  
RCF = Repair Cost Factor

Ground-Engaging Components (GEC) are defined as those wear items on the machine that come in direct contact with in situ ground to perform the machine's primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment-specific wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

Ground-Engaging Component Costs Included in Repairs (RCF)

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	Blade Cutting Edges, Wear Plates, Hard Facing, and End	Bucket Teeth, Cutting Edges, Side Cutters, and Wear Plates	Ripper Tips and Shank Protection	Equipment-Specific Wear Items	RCF
R30	0.03	TAMPING FOOT, LANDFILL & SOIL COMPACTORS	55	A	B	12,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
S10	0.00	SCRAPERS, ELEVATING						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.00
S10	0.01	0 THRU 200 HP	60	A	B	10,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
S10	0.01	0 THRU 200 HP	60	S	B	8,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.00
S10	0.02	OVER 200 HP	60	A	B	13,000	25.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.95
S10	0.02	OVER 200 HP	60	S	B	11,500	25.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.00
S15	0.00	SCRAPERS, CONVENTIONAL	60	A	B	15,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
S15	0.00	SCRAPERS, CONVENTIONAL	60	S	B	12,500	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
S20	0.00	SCRAPERS, TANDEM POWERED	60	A	B	15,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
S20	0.00	SCRAPERS, TANDEM POWERED	60	S	B	13,500	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
S25	0.00	SCRAPERS, TRACTOR DRAWN	60	A	B	12,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.70
S25	0.00	SCRAPERS, TRACTOR DRAWN	60	S	B	10,000	20.00%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.75
T15	0.00	TRACTORS, CRAWLER (DOZER) (includes blade)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.00
T15	0.01	0 THRU 225 HP	70	A	B	10,000	30.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
T15	0.01		70	S	B	8,000	30.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
T15	0.02	226 HP THRU 425 HP	70	A	B	12,500	25.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.20

EK = Economic Key (appendix E)  
LIFE = Economic Life

C = Operating Conditions (A = average, S = severe)  
SLV = Salvage Value

DC = Discount Code (B = basic 7.5%, S = special 15%)  
RCF = Repair Cost Factor

Ground-Engaging Components (GEC) are defined as those wear items on the machine that come in direct contact with in situ ground to perform the machine's primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment-specific wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

Ground-Engaging Component Costs Included in Repairs (RCF)

CATEGORY		SUB	DESCRIPTION	EK	C DC		LIFE	SLV	Blade Cutting Edges, Wear Plates, Hard Facing, and End	Bucket Teeth, Cutting Edges, Side Cutters, and Wear Plates	Ripper Tips and Shank Protection	Equipment-Specific Wear Items	RCF
T15	0.02			70	S	B	10,500	25.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
T15	0.03		OVER 425 HP	70	A	B	15,000	20.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.20
T15	0.03			70	S	B	12,500	20.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.35
T20	0.00		TRACTORS, WHEEL TYPE (DOZER)	75	A	B	14,000	15.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.60
T20	0.00			75	S	B	13,000	15.00%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.65

EK = Economic Key (appendix E)  
LIFE = Economic Life

C = Operating Conditions (A = average, S = severe)  
SLV = Salvage Value

DC = Discount Code (B = basic 7.5%, S = special 15%)  
RCF = Repair Cost Factor

Ground-Engaging Components (GEC) are defined as those wear items on the machine that come in direct contact with in situ ground to perform the machine's primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment-specific wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

## Index to Table "Hourly Equipment Ownership & Operating Expense"

CAT	DESCRIPTION	PAGE
A10	AGGREGATE/CHIP SPREADERS	1
A15	AIR COMPRESSORS, PORTABLE	3
A20	AIR HOSE, TOOLS & EQUIPMENT	16
A25	ASPHALT DISTRIBUTORS	29
A30	ASPHALT FINISHERS/PAVERS	30
A35	ASPHALT KETTLES	47
A40	ASPHALT & CONC. MILLERS/PROFILERS/PLANERS	48
A45	ASPHALT RECYCLERS & SEALERS	56
B10	BATCH PLANTS, ASPHALT & CONCRETE	57
B15	BROOMS, STREET SWEEPERS & FLUSHERS	71
B20	BRUSH CHIPPERS	78
B25	BUCKETS, CLAMSHELL	83
B30	BUCKETS, CONCRETE	98
B35	BUCKETS, DRAGLINE	109
C05	CHAIN SAWS	114
C10	COMPACTORS, MANUALLY OPERATED	115
C15	CONCRETE BLASTERS	123
C20	CONCRETE BUGGIES	127
C25	CONCRETE FINISHERS	128
C35	CONCRETE GUNITERS / SHOTCRETTERS	141
C40	CONCRETE / WASTE MIXERS	148
C45	CONCRETE PAVING MACHINES	153
C55	CONCRETE PUMPS	161
C60	CONCRETE SAWS	164
C65	CONCRETE VIBRATORS	179

## Index to Table "Hourly Equipment Ownership & Operating Expense"

CAT	DESCRIPTION	PAGE
C75	CRANES, HYDRAULIC, SELF-PROPELLED	182
C80	CRANES, HYDRAULIC, TRUCK MOUNTED	194
C85	CRANES, MECHANICAL, CRAWLER MOUNTED	203
C90	CRANES, MECHANICAL, TRUCK MOUNTED	215
C95	CRANES, TOWER	216
D10	DRILLS, AIR TRACK, CRAWLER MOUNTED	219
D15	DRILLS, BORING MACHINES	223
D20	DRILLS, CORE, COLUMN MOUNTED	232
D25	DRILLS, CORE, SKID MOUNTED	237
D30	DRILLS, EARTH/AUGER	239
D35	DRILLS, ROTARY BLAST HOLE	244
F10	FORK LIFTS	250
G10	GENERATOR SETS	252
G15	GRADERS, MOTOR	269
H10	HAMMERS, HYDRAULIC (DEMOLITION TOOL)	276
H13	HAZARD/TOXIC WASTE EQUIPMENT	282
H20	HOIST	305
H25	HYDRAULIC EXCAVATORS, CRAWLER MOUNTED	306
H30	HYDRAULIC EXCAVATORS, WHEEL MTD	375
H35	HYDRAULIC SHOVELS, CRAWLER MOUNTED	380
L10	LAND CLEARING EQUIPMENT	382
L15	LAWN MOWERS	390
L20	LIGHTING SETS, TRAILER MOUNTED	398
L25	LINE STRIPING EQUIPMENT	402
L30	LOADERS, BELT (CONVEYOR BELTS)	406

## Index to Table "Hourly Equipment Ownership & Operating Expense"

CAT	DESCRIPTION	PAGE
L35	LOADERS, FRONT END, CRAWLER TYPE	409
L40	LOADERS, FRONT END, WHEEL TYPE	420
L50	LOADERS WITH BACKHOE, WHEEL TYPE	454
L55	LOADER/BACKHOE, ATTACHMENTS	460
L60	LOG SKIDDERS	462
M10	MARINE EQUIPMENT	465
P10	PILE EXTRACTORS & LEADS	484
P25	PILE HAMMERS, SINGLE ACTING	489
P30	PILE HAMMERS, VIBRATORY	497
P35	PIPELAYERS	503
P40	PLATFORMS, AERIAL WORK	504
P45	PUMPS, GROUT	515
P50	PUMPS, WATER, CENTRIFUGAL, TRASH	523
P55	PUMPS, WATER, SUBMERSIBLE	530
P60	PUMPS, WATER, CENTRIF., DEWATERING	536
P65	PUMPS, WATER, DIAPHRAGM	540
P70	PUMPS, WATER (FOR CORE DRILLS)	542
R10	RIPPERS & HYDRAULIC BANK SLOPERS	543
R15	ROLLERS, STATIC, TOWED, PNEUMATIC	554
R20	ROLLERS, STATIC, TOWED, STEEL DRUM	555
R30	ROLLERS, STATIC, SELF-PROPELLED	556
R40	ROLLERS, VIBRATORY, TOWED	563
R45	ROLLERS, VIBRATORY, DOUBLE DRUM	564



## Index to Table "Hourly Equipment Ownership & Operating Expense"

CAT	DESCRIPTION	PAGE
R50	ROLLERS, VIBRATORY, SINGLE DRUM	580
R55	ROOFING EQUIPMENT	598
S10	SCRAPERS, ELEVATING	604
S15	SCRAPERS, CONVENTIONAL	604
S20	SCRAPERS, TANDEM POWERED	605
S25	SCRAPERS, TRACTOR DRAWN	608
S30	SCREENING & CRUSHING PLANTS	612
S35	SNOW REMOVAL EQUIPMENT	639
S40	SOIL & ROAD STABILIZERS	642
S45	SPLITTERS, ROCK & CONCRETE	644
T10	TRACTOR BLADES & ATTACHMENTS	645
T15	TRACTORS, CRAWLER (DOZER)	657
T20	TRACTORS, WHEEL TYPE (DOZER)	674
T25	TRACTORS, WHEEL TYPE (FARM)	675
T30	TRENCHERS, CHAIN	680
T35	TRENCHERS, WHEEL TYPE	690
T40	TRUCK OPTIONS (ADD TRUCK)	691
T45	TRUCK TRAILERS	704
T50	TRUCKS, HIGHWAY	724
T55	TRUCKS, OFF-HIGHWAY	746
T57	TRUCKS, VACUUM	757
T60	TRUCKS, WATER, OFF-HIGHWAY	759
T65	TUNNEL/MINING EQUIPMENT	764
W25	WATER & CO2 BLASTERS	766

**Index to Table "Hourly Equipment Ownership & Operating Expense"**

<b>CAT</b>	<b>DESCRIPTION</b>	<b>PAGE</b>
W30	WATER TANKS	779
W35	WELDERS	780