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No. of Pages: 8
(including cover)

Fax No: 505-478-2561 505-827-1545

Subject: COST REFERENCE GUIDE FOR CONSTRUCTION EQUIPMENT

David,

ATTACHED IS THE COST REFERENCE GUIDE
INFORMATION FOR SCRAPERS AND DOZERS. THIS
IS BASED ON 3Q01 DATA.

WE WILL COMPUTE UNIT RATE JUSTIFICATIONS
AS SOON AS THEY ARE AVAILABLE

RECORDS,

PAT COOPER

If you do not receive all pages, or if there are any problems with this transmission, please call 970-879-6260.

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KEEP YOUR COST REFERENCE GUIDE CURRENT

COMPARE THE REVISION DATES LISTED BELOW WITH THE DATE AT THE BOTTOM OF EACH SECTION

QUARTERLY REVISION: 1Q02

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For name, address change or missing revisions contact EquipmentWatch
fax (408) 467-6795 or phone (800) 669-3282

COST REFERENCE GUIDE
FOR
CONSTRUCTION EQUIPMENT

The Standard Reference for
Estimating Owning and Operating Costs
for all Classes of Construction Equipment

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PREFACE

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TRACTORS & EARTHMOVING

Cost of Money Rate = 6.375%
 Diesel = \$1.45 per gallon
 Gasoline = \$1.64 per gallon
 Mechanic's Wage = \$32.91 (incl. fringe benefits)

SINGLE ENGINE ELEVATING SCRAPERS

Equipment Specifications						Hourly Ownership & Overhaul Expenses						Field Repair & Fuel Expenses						Total Operating Cost \$/Hour	Total Hourly Costs \$	
Model (Yr. Disc.)	Scraper Capacity	Tractor HP	Operator Protection	CWT	Ship Cubes	Econ. Hours	Ownership			Overhaul			Labor \$	Parts \$	Elec./Fuel \$	Lube \$	Tires \$			GEC \$
							Depr. \$	CFC \$	O'Head \$	Labor \$	Parts \$	Labor \$								
DIESEL POWERED																				
CATERPILLAR																				
618C SERIES II	8.9-11.0 CY	175.0	EROPS	932.3	25	13,420	8.85	4.47	4.55	4.11	7.86	6.17	7.42	9.64	2.49	5.05	0.69	31.40	61.34	
618C SERIES II	8.9-11.0 CY	175.0	ROPS	332.3	25	13,420	8.69	4.36	4.55	4.11	7.77	6.17	7.24	9.64	2.46	4.92	0.62	31.05	60.47	
615C SERIES II	14-17 CY	265.0	EROPS	564.5	42	13,420	13.58	6.98	7.14	5.61	11.70	8.79	10.59	14.60	3.61	7.74	0.80	46.31	91.32	
615C SERIES II	14-17 CY	265.0	ROPS	564.5	42	13,420	13.38	6.87	7.14	5.61	11.52	8.79	10.37	14.60	3.61	7.62	0.89	45.88	90.48	
623F (2000)	18-23 CY	365.0	EROPS	778.0	58	13,420	19.24	9.90	10.34	5.61	16.64	8.79	14.97	20.11	5.34	11.01	1.28	61.44	123.17	
623F (2000)	18-23 CY	365.0	ROPS	778.0	58	13,420	19.03	9.79	10.34	5.61	16.45	8.79	14.81	20.11	5.30	10.89	1.26	61.10	122.32	
623G	18-23 CY CY	330.0	EROPS	818.4	61	13,420	19.96	10.27	10.45	5.61	17.21	8.79	15.49	18.18	5.27	11.39	1.32	60.38	122.88	
633E (1896)	34 CY	475.0	EROPS	1,120.0	84	13,420	27.47	13.92	12.50	6.23	19.21	9.35	19.54	26.17	7.39	18.94	1.50	82.29	161.62	
633E (1896)	34 CY	475.0	ROPS	1,120.0	84	13,420	27.30	13.89	12.50	6.23	19.09	9.35	19.41	26.17	7.34	18.22	1.49	82.00	160.85	
633E SERIES II	23.2-34.0 CY	450.0	EROPS	1,125.8	84	13,420	30.08	15.24	15.93	6.23	19.04	9.35	19.36	24.60	7.70	18.17	1.64	81.02	163.54	
CMDC																				
252 (10E6)	5 CY	80.0	EROPS	230.0	17	13,420	3.09	1.55	1.46	4.11	3.06	6.17	2.85	4.41	0.87	1.84	0.22	16.56	28.82	
272 (19E6)	7 CY	80.0	EROPS	240.0	18	13,420	8.57	1.80	1.69	4.11	3.56	6.17	3.31	4.41	1.06	2.25	0.26	17.46	28.18	
DEERE																				
762B	11.5 CY	180.0	EROPS	356.0	27	13,420	8.80	4.45	4.08	4.11	7.92	6.17	7.38	9.82	2.52	5.02	0.63	31.64	60.99	
762B	11.5 CY	180.0	ROPS	356.0	27	13,420	8.64	4.36	4.06	4.11	7.77	6.17	7.24	9.92	2.49	4.99	0.62	31.37	60.31	
862B	17 CY	265.0	EROPS	490.5	37	13,420	13.51	6.95	6.28	5.61	11.65	8.79	10.49	14.60	3.80	7.71	0.90	46.23	90.29	
862B	17 CY	265.0	ROPS	490.5	37	13,420	13.35	6.87	6.28	5.61	11.51	8.79	10.36	14.60	3.77	7.61	0.89	45.96	89.58	

STANDARD CRAWLER DOZERS

Equipment Specifications						Hourly Ownership & Overhaul Expenses						Field Repair & Fuel Expenses						Total Operating Cost \$/Hour	Total Hourly Costs \$	
Model (Yr. Disc.)	Dozer	Operator Protection	HP	CWT	Ship Cubes	Econ. Hours	Ownership			Overhaul			Labor \$	Parts \$	Elec./Fuel \$	Lube \$	Tires \$			GEC \$
							Depr. \$	CFC \$	O'Head \$	Labor \$	Parts \$	Labor \$								
DIESEL POWERED																				
CASE																				
550G (1998)	Hyd Angle w/Tilt	ROPS	67.0	141.3	11	10,655	4.35	1.72	1.45	3.19	2.35	3.90	2.07	4.08	0.88	0.00	0.32	11.30	24.36	
550H LT	Power Angle Tilt	ROPS	67.0	143.1	11	10,655	4.46	1.76	1.49	3.19	2.27	3.90	2.00	4.08	0.95	0.00	0.33	11.26	24.42	
550H W	Power Angle Tilt	ROPS	67.0	148.0	11	10,655	4.68	1.84	1.64	3.19	2.37	3.90	2.09	4.08	0.97	0.00	0.35	11.39	24.99	
650G (1999)	Power Angle Tilt	EROPS	80.0	159.0	12	10,655	5.92	2.34	1.65	3.19	3.20	3.90	2.82	4.87	1.20	0.00	0.44	13.23	29.53	
650G (1999)	Power Angle Tilt	ROPS	80.0	159.0	12	10,655	5.17	2.04	1.65	3.19	3.20	3.90	2.82	4.87	1.20	0.00	0.44	13.23	29.53	
650H LT	Power Angle Tilt	EROPS	74.8	168.7	13	10,655	5.90	2.09	1.85	3.19	2.70	3.90	2.38	4.56	1.10	0.00	0.39	12.72	27.57	
650H LT	Power Angle Tilt	ROPS	74.8	169.0	12	10,655	4.73	1.86	1.65	3.19	2.41	3.90	2.12	4.56	1.09	0.00	0.35	11.88	26.00	
650H WT	Power Angle Tilt	EROPS	74.8	175.8	13	10,655	5.28	2.11	1.75	3.19	2.79	3.90	2.40	4.56	1.10	0.00	0.40	12.36	27.50	
650H WT	Power Angle Tilt	ROPS	74.8	168.0	13	10,655	4.79	1.89	1.75	3.19	2.44	3.90	2.15	4.56	1.03	0.00	0.35	11.99	26.05	
750H LT	Power Angle Tilt	EROPS	81.0	180.6	14	10,655	5.99	2.38	1.98	3.19	3.05	3.90	2.69	4.93	1.22	0.00	0.44	13.17	29.74	
750H LT	Power Angle Tilt	ROPS	81.0	172.8	13	10,655	5.41	2.18	1.79	3.19	2.76	3.90	2.43	4.93	1.15	0.00	0.40	12.81	28.09	
750H WT	Power Angle Tilt	EROPS	81.0	204.7	22	10,655	5.68	2.24	1.88	3.19	2.89	3.90	2.55	4.93	1.18	0.00	0.42	12.88	28.86	
750H WT	Power Angle Tilt	ROPS	81.0	184.7	14	10,655	5.64	2.22	1.88	3.19	2.87	3.90	2.53	4.93	1.17	0.00	0.42	12.95	28.73	

TRACTORS & EARTHMOVING

Cost of Money Rate = 6.375%
 Diesel = \$1.45 per gallon
 Gasoline = \$1.64 per gallon
 Mechanic's Wage = \$32.91 (Incl. fringe benefits)

STANDARD CRAWLER DOZERS (cont.)

Equipment Specifications						Hourly Ownership & Overhaul Expenses						Field Repair & Fuel Expenses						Total Operating Cost \$/Hour	Total Hourly Costs \$
Model (Yr. Disc.)	Dozer	Operator Protection	HP	CWT	Ship Cubes	Econ. Hours	Ownership			Overhaul			Field Repair & Fuel Expenses						
							Depr. \$	CFC \$	O'Head \$	Labor \$	Parts \$	Labor \$	Parts \$	Elec/ Fuel \$	Lube \$	Tires \$	GEC \$		
DIESEL POWERED (CONT.)																			
CATERPILLAR (cont.)																			
D6H DS SERIES II (1997)	Straight	EROPS	165.0	399.3	30	12,120	6.51	4.21	3.32	3.35	5.58	4.13	5.41	8.33	2.21	0.00	0.82	21.80	47.87
D6H DS SERIES II (1997)	Straight	ROPS	165.0	399.3	30	12,120	6.00	3.94	3.32	3.35	5.22	4.13	5.08	8.33	2.13	0.00	0.77	21.42	46.15
D6M XL	Power Angle Tilt	EROPS	140.0	332.5	25	12,120	8.83	3.95	3.69	3.35	4.78	4.13	4.63	7.92	1.99	0.00	0.77	19.44	44.04
D6M XL	Power Angle Tilt	ROPS	140.0	332.5	25	12,120	8.28	3.71	3.69	3.35	4.48	4.13	4.35	7.82	1.92	0.00	0.72	19.04	42.55
D6R	Straight	EROPS	165.0	397.0	30	12,120	9.88	4.42	4.10	3.35	5.35	4.13	5.18	9.33	2.27	0.00	0.88	21.77	48.06
D6R	Straight	ROPS	165.0	397.0	30	12,120	9.34	4.14	4.10	3.35	5.01	4.13	4.85	9.23	2.19	0.00	0.81	21.31	47.34
D6R DS	Straight	EROPS	165.0	401.0	30	12,120	10.26	4.54	4.31	3.35	5.49	4.13	5.22	9.33	2.31	0.00	0.89	21.98	49.92
D6R DS	Straight	ROPS	165.0	401.0	30	12,120	9.82	4.26	4.31	3.35	5.15	4.13	4.99	9.33	2.23	0.00	0.83	21.51	48.20
D7G (1997)	Straight	ROPS	200.0	446.0	33	12,120	11.72	5.02	3.89	3.35	6.88	4.13	6.68	11.31	2.71	0.00	1.01	25.82	56.88
D7H SERIES II (1995)	Angle	EROPS	215.0	545.1	41	12,120	14.48	6.19	4.62	3.35	8.75	4.13	8.48	12.16	3.16	0.00	1.25	28.18	66.45
D7H SERIES II (1995)	Angle	ROPS	215.0	545.1	41	12,120	13.71	5.87	4.52	3.35	8.30	4.13	8.04	12.16	3.06	0.00	1.19	28.58	64.33
D7H SERIES II (1995)	Semi-U	EROPS	215.0	545.1	41	12,120	14.48	6.19	4.52	3.35	8.75	4.13	8.48	12.16	3.16	0.00	1.25	29.18	66.45
D7H SERIES II (1995)	Semi-U	ROPS	215.0	545.1	41	12,120	13.71	5.87	4.52	3.35	8.30	4.13	8.04	12.16	3.06	0.00	1.19	28.58	64.33
D7H DS SERIES II (1995)	Semi-U	EROPS	230.0	551.7	41	12,120	15.04	6.44	4.77	3.35	9.10	4.13	8.82	13.01	3.22	0.00	1.30	30.58	69.28
D7H DS SERIES II (1995)	Semi-U	ROPS	230.0	551.7	41	12,120	14.28	6.12	4.77	3.35	8.65	4.13	8.39	13.01	3.22	0.00	1.24	29.99	67.17
D7R	Semi-U	EROPS	230.0	542.0	41	12,120	15.20	6.51	6.80	3.35	9.38	4.13	9.14	13.01	3.35	0.00	1.31	29.89	69.79
D7R	Semi-U	ROPS	230.0	542.0	41	12,120	14.46	6.19	6.80	3.35	8.75	4.13	8.51	13.01	3.25	0.00	1.25	29.15	67.80
D7R DS	Semi-U	EROPS	230.0	551.0	41	12,120	15.58	6.67	6.90	3.35	9.34	4.13	9.08	13.01	3.39	0.00	1.35	29.96	70.78
D7R DS	Semi-U	ROPS	230.0	551.0	41	12,120	14.82	6.35	6.90	3.35	8.94	4.13	8.70	13.01	3.29	0.00	1.28	29.41	68.77
D8N (1996)	Angle	EROPS	285.0	728.3	55	13,245	17.48	7.13	6.77	5.61	11.23	6.23	10.83	15.29	3.84	0.00	1.60	37.79	85.01
D8N (1996)	Angle	ROPS	285.0	718.8	54	13,245	16.82	6.86	6.77	5.61	10.81	6.23	10.43	15.29	3.76	0.00	1.54	37.25	83.12
D8N (1996)	Semi-U	EROPS	285.0	718.8	54	13,245	17.56	7.16	6.77	5.61	11.28	6.23	10.88	15.29	3.86	0.00	1.61	37.87	85.25
D8N (1996)	Semi-U	ROPS	285.0	707.3	53	13,245	16.90	6.69	6.77	5.61	10.88	6.23	10.48	15.29	3.77	0.00	1.55	37.32	83.35
D8N (1996)	U Blade	EROPS	285.0	727.1	55	13,245	17.70	7.22	6.77	5.61	11.37	6.23	10.97	15.29	3.87	0.00	1.62	37.99	85.65
D8R	U Blade	EROPS	305.0	738.7	55	13,245	20.06	8.18	8.28	5.61	11.41	6.23	11.00	16.26	4.29	0.00	1.83	39.74	83.26
D8R	U Blade	ROPS	305.0	738.7	55	13,245	19.31	7.88	8.28	5.61	10.98	6.23	10.59	16.26	4.20	0.00	1.77	39.15	81.21
D9R	Semi-U	EROPS	410.0	946.9	71	15,350	23.54	10.98	10.74	6.39	17.74	7.48	17.28	20.81	6.38	0.00	2.88	54.83	124.22
D9R	Semi-U	ROPS	410.0	948.9	71	15,350	22.82	10.70	10.74	6.39	17.27	7.48	17.82	20.81	6.27	0.00	2.80	54.18	122.20
D9R DS	Semi-U	EROPS	410.0	863.9	72	15,350	24.41	11.39	10.89	6.39	18.39	7.48	17.92	20.81	6.43	0.00	2.91	55.09	125.29
D9R DS	Semi-U	ROPS	410.0	863.9	72	15,350	23.79	11.10	10.89	6.39	17.93	7.48	17.48	20.81	6.43	0.00	2.89	54.74	123.31
D10N (1995)	Semi-U	EROPS	520.0	1,328.0	99	15,350	27.43	12.68	8.82	6.39	23.11	7.48	22.51	26.39	7.80	0.00	3.32	67.30	145.71
D10N (1995)	Semi-U	ROPS	520.0	1,328.0	99	15,350	26.83	12.44	8.82	6.39	22.70	7.48	22.11	26.39	7.60	0.00	3.32	66.75	144.03
D10R	Semi-U	EROPS	570.0	1,280.8	98	15,350	31.78	14.68	14.06	6.39	23.71	7.48	23.09	28.93	8.64	0.00	3.85	71.88	182.62
D10R	Semi-U	ROPS	570.0	1,280.8	98	15,350	31.10	14.38	14.06	6.39	23.19	7.48	22.59	28.93	8.52	0.00	3.77	71.29	180.39
D11N (1997)	Semi-U	EROPS	770.0	1,940.8	148	15,350	47.05	21.73	15.85	6.39	38.43	7.48	37.43	39.08	12.42	0.00	5.70	102.11	231.56
D11N (1997)	U Blade	EROPS	770.0	1,940.8	148	15,350	47.50	21.94	15.85	6.39	38.79	7.48	37.78	39.08	12.50	0.00	5.75	102.59	233.06
D11R	U Blade	EROPS	850.0	1,894.1	142	15,350	53.21	24.57	22.50	6.39	39.69	7.48	38.85	43.14	13.94	0.00	6.44	109.65	258.00
DAEWOO																			
DD80	Power Angle Tilt	EROPS	90.0	175.3	13	10,655	5.10	2.01	1.43	3.10	2.60	3.60	2.29	5.48	1.18	0.00	0.38	13.21	27.54
DD80	Power Angle Tilt	ROPS	90.0	175.3	13	10,655	4.99	1.87	1.43	3.10	2.54	3.60	2.24	5.48	1.15	0.00	0.37	13.14	27.26
DD80L	Power Angle Tilt	EROPS	90.0	185.2	14	10,655	5.32	2.10	1.48	3.10	2.71	3.60	2.38	5.48	1.19	0.00	0.39	13.34	28.14
DD80L	Power Angle Tilt	ROPS	90.0	185.2	14	10,655	5.21	2.05	1.48	3.10	2.65	3.60	2.34	5.48	1.18	0.00	0.39	13.29	27.87
DEERE																			
450G (1998)	Power Angle Tilt	EROPS	70.0	152.6	11	10,655	4.18	1.85	1.33	3.19	2.28	3.90	1.89	4.26	0.89	0.00	0.31	11.39	24.00
450G (1998)	Power Angle Tilt	ROPS	70.0	152.6	11	10,655	3.67	1.45	1.33	3.19	1.89	3.90	1.75	4.26	0.87	0.00	0.27	11.05	22.68
450H	Power Angle Tilt	EROPS	70.0	150.0	11	10,655	4.27	1.68	1.53	3.19	2.17	3.90	1.91	4.26	0.84	0.00	0.32	11.33	24.17

TRACTORS & EARTHMOVING

STANDARD CRAWLER DOZERS (cont.)

Cost of Money Rate = 6.375%
 Diesel = \$1.45 per gallon
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Equipment Specifications						Hourly Ownership & Overhaul Expenses						Field Repair & Fuel Expenses						Total Operating Cost \$/hour	Total Hourly Costs \$
Model (Yr. Disc.)	Dozer	Operator Protection	HP	CWT	Ship Cubes	Econ Hours	Ownership			Overhaul			Field Repair & Fuel Expenses						
							Depr. \$	CFC \$	OT/Head \$	Labor \$	Parts \$	Labor \$	Parts \$	Elec./Fuel \$	Lube \$	Tires \$	GEC \$		
DIESEL POWERED (CONT.)																			
DRESSTA (cont.)																			
TD20H	Semi-U	ROPS	225.0	502.0	38	12,120	18.47	7.01	6.15	3.35	0.89	4.13	9.59	12.72	3.76	0.00	1.60	31.80	77.57
TD20H LT	Power Angle Tilt	ROPS	225.0	531.7	40	12,120	18.20	7.80	6.63	3.35	0.75	4.13	9.45	12.72	3.72	0.00	1.57	31.59	77.52
TD20H LT	Semi-U	ROPS	225.0	524.4	39	12,120	18.41	7.89	6.90	3.35	0.86	4.13	9.56	12.72	3.75	0.00	1.59	31.75	78.16
TD25H	Semi-U	EROPS	320.0	774.3	58	13,245	24.91	10.16	9.20	5.61	14.16	6.23	12.66	17.17	5.02	0.00	2.28	44.38	108.40
TD25H	Semi-U	ROPS	320.0	774.3	58	13,245	23.97	9.78	8.64	6.61	13.63	6.23	13.15	17.17	4.99	0.00	2.19	43.63	105.46
FIATALLIS																			
FD9 (1997)	Power Angle Tilt	ROPS	108.0	237.1	18	10,655	6.75	2.68	1.55	3.19	3.73	3.90	3.28	6.58	1.46	0.00	0.49	15.71	33.61
FD30C (1996)	Semi-U	EROPS	349.0	815.0	61	13,245	17.21	7.02	3.26	5.61	11.08	6.23	10.67	18.72	4.16	0.00	1.57	41.34	85.50
FD30C (1996)	Semi-U	ROPS	349.0	815.0	61	13,245	16.79	6.85	3.28	5.61	10.79	6.23	10.41	18.72	4.10	0.00	1.53	40.99	84.29
FD80	PAT	EROPS	84.0	164.0	12	10,655	5.72	2.26	1.80	3.19	2.81	3.90	2.56	5.12	1.20	0.00	0.42	13.20	29.08
FD60	PAT	ROPS	84.0	164.0	12	10,655	5.72	2.26	1.80	3.19	2.81	3.90	2.56	5.12	1.20	0.00	0.42	13.20	29.08
FD145	Power Angle Tilt	EROPS	125.0	308.0	23	10,655	7.79	3.07	2.71	3.19	3.90	3.90	3.43	7.61	1.89	0.00	0.57	12.90	27.65
FD145	Power Angle Tilt	ROPS	125.0	308.0	23	10,655	7.50	2.97	2.71	3.19	3.90	3.90	3.43	7.61	1.89	0.00	0.57	12.90	27.65
FD175	Semi-U	EROPS	167.0	384.7	27	12,120	7.88	3.49	2.95	3.35	4.22	4.13	4.09	9.44	2.00	0.00	0.69	20.34	42.23
FD175	Semi-U	ROPS	167.0	384.7	27	12,120	7.59	3.36	2.85	3.35	4.07	4.13	3.84	9.44	1.98	0.00	0.68	20.13	41.45
FD195L	Semi-U	ROPS	170.0	407.4	31	12,120	8.31	3.68	3.20	3.35	4.45	4.13	4.91	9.61	2.08	0.00	0.72	20.85	43.84
FD255	Semi-U	EROPS	241.0	594.0	45	12,120	10.82	4.63	5.02	3.35	6.80	4.13	5.62	13.63	2.82	0.00	0.94	27.14	56.78
FURUKAWA																			
FD45-1	Hydraulic	ROPS	98.0	95.7	7	10,655	2.68	1.07	0.90	3.19	1.39	3.90	1.22	2.38	0.57	0.00	0.20	8.27	17.50
HYUNDAI																			
H70	Power Angle Tilt	ROPS	72.0	155.4	12	10,655	4.30	1.70	1.42	3.19	2.19	3.90	1.93	4.38	0.96	0.00	0.32	11.49	24.29
KOMATSU																			
D21A-7	Power Angle Tilt	EROPS	40.0	87.1	7	10,655	4.41	1.76	1.23	3.19	2.28	3.90	2.01	2.44	0.78	0.00	0.33	8.46	22.33
D21A-7	Power Angle Tilt	ROPS	40.0	87.1	7	10,655	3.59	1.44	1.23	3.19	1.85	3.90	1.63	2.44	0.68	0.00	0.27	8.02	20.22
D31E-20	Power Angle Tilt	EROPS	70.0	146.4	11	10,655	4.25	1.69	1.70	3.19	2.17	3.90	1.69	4.26	0.94	0.00	0.32	11.39	24.32
D31E-20	Power Angle Tilt	ROPS	70.0	146.4	11	10,655	3.76	1.46	1.70	3.19	1.91	3.90	1.69	4.26	0.89	0.00	0.28	11.00	23.04
D32E-1	Power Angle Tilt	EROPS	70.0	159.0	12	10,655	4.26	1.68	1.72	3.19	2.17	3.90	1.91	4.26	0.94	0.00	0.32	11.33	24.35
D32E-1	Power Angle Tilt	ROPS	70.0	159.0	12	10,655	3.68	1.53	1.72	3.19	1.98	3.90	1.74	4.26	0.90	0.00	0.29	11.09	23.39
D37E-5	Power Angle Tilt	EROPS	75.0	150.8	11	10,655	4.88	1.93	1.82	3.19	2.49	3.90	2.19	4.57	1.05	0.00	0.36	12.07	26.38
D37E-5	Power Angle Tilt	ROPS	75.0	150.8	11	10,655	4.36	1.72	1.82	3.19	2.22	3.90	1.95	4.57	0.98	0.00	0.32	11.72	25.03
D38E-1 (2000)	Power Angle Tilt	EROPS	80.0	170.8	13	10,655	4.67	1.86	1.85	3.19	2.60	3.90	2.20	4.67	1.09	0.00	0.37	12.52	27.09
D38E-1 (2000)	Power Angle Tilt	ROPS	80.0	170.8	13	10,655	4.56	1.80	1.85	3.19	2.39	3.90	2.10	4.67	1.04	0.00	0.34	12.25	26.04
D39E-1	Power Angle Tilt	EROPS	90.0	188.0	14	10,655	5.71	2.25	1.97	3.19	2.81	3.90	2.56	5.48	1.24	0.00	0.42	13.80	29.63
D39E-1	Power Angle Tilt	ROPS	90.0	188.0	14	10,655	5.28	2.07	1.97	3.19	2.68	3.90	2.36	5.48	1.18	0.00	0.39	13.31	28.48
D41E-8	Power Angle Tilt	EROPS	105.0	231.7	17	10,655	7.24	2.87	2.28	3.19	3.65	3.90	3.21	6.39	1.50	0.00	0.53	15.59	34.76
D41E-8	Power Angle Tilt	ROPS	105.0	231.7	17	10,655	6.38	2.53	2.28	3.19	3.22	3.90	2.89	6.39	1.40	0.00	0.47	14.99	32.69
D59E-1B (2000)	Power Angle Tilt	EROPS	130.0	328.3	25	12,120	8.68	3.97	3.20	3.35	4.04	4.13	4.79	7.35	1.94	0.00	0.78	18.99	43.33
D59E-1B (2000)	Power Angle Tilt	ROPS	130.0	328.3	25	12,120	8.05	3.61	3.20	3.35	4.48	4.13	4.35	7.35	1.83	0.00	0.70	18.36	41.05
D61EX-12	Power Angle Tilt	EROPS	150.0	348.3	26	12,120	9.60	4.30	3.69	3.35	5.20	4.13	5.04	8.48	2.15	0.00	0.84	20.64	46.78
D61EX-12	Power Angle Tilt	ROPS	150.0	348.3	26	12,120	8.83	4.00	3.69	3.35	4.84	4.13	4.69	8.48	2.06	0.00	0.78	20.14	44.95
D86EX-12	Straight w/Tilt	EROPS	190.0	413.6	31	12,120	10.23	4.38	4.89	3.35	6.48	4.13	5.31	10.74	2.45	0.00	0.89	23.52	61.85
D86EX-12	Straight w/Tilt	ROPS	190.0	413.6	31	12,120	9.66	4.14	4.89	3.35	5.16	4.13	5.02	10.74	2.37	0.00	0.84	23.10	59.32
D86E-21	Mechanical Angle	EROPS	225.0	530.0	40	12,120	15.94	6.63	8.52	3.35	8.64	4.13	8.28	12.72	3.42	0.00	1.38	29.93	71.11

TRACTORS & EARTHMOVING

Cost of Money Rate = 6.375%
 Diesel = \$1.45 per gallon
 Gasoline = \$1.64 per gallon
 Mechanic's Wage = \$32.91 (incl. fringe benefits)

LGP CRAWLER DOZERS

Equipment Specifications						Hourly Ownership & Overhaul Expenses						Field Repair & Fuel Expenses						Total Operating Cost \$/Hour	Total Hourly Costs \$
Model (Yr. Disc.)	Dozer Type	Operator Protection	HP	CWT	Ship Cubes	Econ Hours	Ownership			Overhaul			Field Repair & Fuel Expenses						
							Depr. \$	CFC \$	O'Haad \$	Labor \$	Parts \$	Labor \$	Parts \$	Elec/ Fuel \$	Lube \$	Tires \$	GEC \$		
DIESEL POWERED																			
CASE																			
550G LGP (1999)	Hyd Angle w/Tilt	ROPS	67.0	149.3	11	10,655	4.68	1.85	1.40	3.19	2.81	3.90	2.23	4.08	0.67	0.00	0.43	11.61	25.54
650H LGP	Power Angle Tilt	ROPS	67.0	149.6	11	10,655	4.68	1.81	1.61	3.19	2.74	3.80	2.19	4.08	0.69	0.00	0.45	11.60	25.91
650H LGP	Power Angle Tilt	EROPS	74.8	182.2	14	10,655	5.54	2.19	1.83	3.19	3.13	3.80	2.49	4.56	1.13	0.00	0.51	12.59	28.47
750H LGP	Power Angle Tilt	ROPS	81.0	197.6	15	10,655	6.40	2.52	2.12	3.19	3.61	3.90	2.67	4.63	1.27	0.00	0.59	12.21	28.79
750H LGP	Power Angle Tilt	EROPS	81.0	197.7	14	10,655	6.03	2.30	1.93	3.19	3.20	3.90	2.61	4.63	1.27	0.00	0.59	12.21	28.79
650G LGP (1999)	Hyd Angle w/Tilt	EROPS	89.0	184.5	14	10,655	6.81	2.89	1.82	3.19	4.09	3.90	3.24	5.42	1.38	0.00	0.63	14.55	33.14
850H LGP	Power Angle Tilt	ROPS	89.0	184.5	14	10,655	6.09	2.40	1.82	3.19	3.64	3.90	2.89	5.42	1.29	0.00	0.56	14.05	31.18
850H LGP	Power Angle Tilt	EROPS	89.0	184.5	14	10,655	6.74	2.66	2.23	3.19	3.61	3.90	3.02	5.42	1.29	0.00	0.56	14.05	31.18
1150G LGP (1999)	Hyd Angle w/Tilt	EROPS	119.0	270.6	20	10,655	6.18	2.43	2.04	3.19	3.48	3.90	2.76	5.54	1.30	0.00	0.57	14.07	31.07
1150G LGP (1999)	Hyd Angle w/Tilt	ROPS	119.0	270.6	20	10,655	8.60	3.41	2.59	3.19	5.57	3.90	4.42	7.25	1.85	0.00	0.88	18.28	42.74
1150H LGP	Power Angle Tilt	EROPS	119.0	278.4	21	10,655	9.23	3.68	3.02	3.19	5.18	3.90	4.09	7.25	1.83	0.00	0.79	17.74	40.63
1150H LGP	Power Angle Tilt	ROPS	119.0	270.6	20	10,655	8.52	3.38	2.79	3.19	4.76	3.90	3.78	7.25	1.74	0.00	0.78	17.45	40.09
CATERPILLAR																			
D3C III LGP HYSTAT	Power Angle Tilt	ROPS	70.0	170.0	13	10,655	4.39	1.73	1.60	3.19	2.49	3.90	1.97	4.26	0.86	0.00	0.41	11.50	24.89
D3C SERIES III LGP (2000)	Power Angle Tilt	ROPS	71.0	168.4	13	10,655	4.13	1.63	1.56	3.19	2.40	3.90	1.90	4.32	0.83	0.00	0.39	11.43	24.33
D4C III LGP HYSTAT	Power Angle Tilt	EROPS	80.0	171.6	13	10,655	5.56	2.19	1.91	3.19	3.14	3.90	2.49	4.87	1.16	0.00	0.52	12.94	28.93
D4C III LGP HYSTAT	Power Angle Tilt	ROPS	80.0	171.6	13	10,655	6.24	2.07	1.91	3.19	2.96	3.90	2.35	4.87	1.12	0.00	0.49	12.73	28.10
D4C SERIES III LGP (2000)	Power Angle Tilt	EROPS	81.0	170.3	13	10,655	5.56	2.19	1.77	3.19	3.23	3.90	2.59	4.99	1.17	0.00	0.52	13.08	29.02
D4C SERIES III LGP (2000)	Power Angle Tilt	ROPS	81.0	170.3	13	10,655	4.89	1.84	1.77	3.19	2.68	3.90	2.27	4.89	1.09	0.00	0.48	12.65	27.34
D4H LGP SERIES III (1996)	Power Angle Tilt	EROPS	105.0	267.3	20	10,655	6.36	2.52	1.63	3.19	4.02	3.90	3.19	6.39	1.40	0.00	0.58	15.46	33.18
D4H LGP SERIES III (1996)	Power Angle Tilt	ROPS	105.0	267.3	20	10,655	5.71	2.26	1.63	3.19	3.60	3.90	2.85	6.39	1.32	0.00	0.52	14.99	31.38
D5C III LGP HYSTAT	Power Angle Tilt	EROPS	90.0	197.8	15	10,655	6.08	2.40	2.09	3.19	3.44	3.90	2.73	5.48	1.28	0.00	0.58	13.95	31.15
D5C III LGP HYSTAT	Power Angle Tilt	ROPS	90.0	197.8	15	10,655	5.76	2.27	2.09	3.19	3.25	3.90	2.58	5.48	1.24	0.00	0.53	13.73	30.29
D5C SERIES III LGP (2000)	Power Angle Tilt	EROPS	91.0	192.5	14	10,655	6.08	2.39	1.91	3.19	3.52	3.90	2.79	5.54	1.29	0.00	0.56	14.08	31.15
D5C SERIES III LGP (2000)	Power Angle Tilt	ROPS	91.0	192.5	14	10,655	5.42	2.18	1.91	3.19	3.15	3.90	2.50	5.54	1.21	0.00	0.50	13.65	29.46
D5H LGP SERIES II (1996)	Power Angle Tilt	EROPS	190.0	328.9	25	10,655	8.93	3.54	2.22	3.19	6.00	3.90	4.76	7.92	1.93	0.00	0.87	19.36	44.07
D5H LGP SERIES II (1996)	Power Angle Tilt	ROPS	130.0	328.9	25	10,655	8.03	3.54	2.22	3.19	5.64	3.90	4.48	7.92	1.86	0.00	0.82	18.88	42.50
D5M LGP	Power Angle Tilt	EROPS	110.0	288.8	22	10,655	7.49	2.96	2.71	3.19	4.18	3.90	3.32	6.70	1.56	0.00	0.89	18.17	38.69
D5M LGP	Power Angle Tilt	ROPS	110.0	288.8	22	10,655	7.04	2.79	2.71	3.19	3.92	3.90	3.11	6.70	1.51	0.00	0.84	15.88	35.47
D6H DS LGP SERIES II (1997)	Straight	EROPS	165.0	454.1	34	12,120	11.02	4.93	3.45	3.35	7.16	4.13	6.33	9.33	2.43	0.00	1.20	23.42	53.39
D6H DS LGP SERIES II (1997)	Straight	ROPS	165.0	454.1	34	12,120	10.42	4.67	3.45	3.35	6.78	4.13	5.99	9.33	2.35	0.00	1.14	22.94	51.61
D6H LGP SERIES II (1997)	Straight	EROPS	165.0	451.6	34	12,120	10.52	4.71	3.32	3.35	6.64	4.13	6.05	9.33	2.36	0.00	1.15	23.02	51.76
D6H LGP SERIES II (1997)	Straight	ROPS	165.0	451.6	34	12,120	9.92	4.44	3.32	3.35	6.45	4.13	5.70	9.33	2.28	0.00	1.08	22.52	50.00
D6M LGP	Power Angle Tilt	EROPS	140.0	364.5	27	12,120	9.23	4.13	3.82	3.35	5.48	4.13	4.84	7.92	2.05	0.00	1.01	19.85	45.98
D6M LGP	Power Angle Tilt	ROPS	140.0	364.5	27	12,120	8.69	3.89	3.82	3.35	5.16	4.13	4.58	7.92	1.97	0.00	0.95	19.69	44.42
D6R DS LGP	Straight	EROPS	185.0	456.0	34	12,120	11.99	5.37	4.80	3.35	7.12	4.13	6.29	10.46	2.69	0.00	1.31	24.67	57.50
D6R DS LGP	Straight	ROPS	185.0	456.0	34	12,120	11.38	5.09	4.80	3.35	6.75	4.13	5.96	10.46	2.59	0.00	1.24	24.38	55.73
D6R LGP	Straight	ROPS	185.0	452.0	34	12,120	11.71	5.24	4.69	3.35	6.99	4.13	6.15	10.46	2.64	0.00	1.28	24.68	58.60
D6R LGP	Straight	EROPS	185.0	452.0	34	12,120	11.09	4.96	4.69	3.35	6.58	4.13	5.82	10.46	2.56	0.00	1.21	24.17	54.83
D7H DS LGP SERIES II (1996)	Straight	EROPS	215.0	598.3	45	12,120	17.43	7.47	4.55	3.35	11.57	4.13	10.23	12.16	3.56	0.00	1.89	31.07	76.34
D7H DS LGP SERIES II (1996)	Straight	ROPS	215.0	598.3	45	12,120	16.69	7.15	4.55	3.35	11.07	4.13	9.79	12.16	3.46	0.00	1.80	31.34	74.15
D7H LGP SERIES II (1996)	Straight	EROPS	215.0	591.7	44	12,120	16.80	7.20	4.81	3.35	11.16	4.13	9.86	12.16	3.48	0.00	1.82	31.45	74.28
D7H LGP SERIES II (1996)	Straight	ROPS	215.0	591.7	44	12,120	16.05	6.88	4.31	3.35	10.65	4.13	9.42	12.16	3.38	0.00	1.74	30.83	72.07
D7R DS LGP	Straight	EROPS	240.0	597.0	45	12,120	17.67	7.57	7.78	3.35	10.38	4.13	9.17	13.57	3.73	0.00	1.81	32.51	79.24
D7R DS LGP	Straight	ROPS	240.0	597.0	45	12,120	16.93	7.25	7.76	3.35	9.94	4.13	8.79	13.57	3.63	0.00	1.83	31.95	77.18
D7R LGP	Straight	EROPS	240.0	588.0	44	12,120	17.24	7.39	7.51	3.35	10.13	4.13	8.95	13.57	3.69	0.00	1.86	32.19	77.81
D7R LGP	Straight	ROPS	240.0	588.0	44	12,120	16.50	7.07	7.51	3.35	9.69	4.13	8.57	13.57	3.58	0.00	1.79	31.64	75.76