



Province of Prince Edward Island 2010

Standard Negotiated Rates

- A Trucking Rates**
- B Standard Prices - Unbid Jobs**
- C Machinery Rental Rates**

April 01, 2010

**Department of Transportation
and Infrastructure Renewal**

Fuel Index Adjustment

The Schedule of rates in this book are effective April 01, 2010.

RATE CONSIDERATIONS

- Haul Rates and Machinery Rental Rates

A fuel index has been established with diesel fuel benchmarked at \$1.00 (this is based on the average monthly price of Diesel fuel from April 2005 - March 2006 as published by MJ Ervin & Associates for Charlottetown.)

On a month to month bases fuel will be monitored for increases/ decreases from the bench mark fuel price of \$1.00. Adjustments will be made based on 10% incremental changes in fuel prices as follows.

% Diesel fuel increase / decrease Price change +/-	Equipment rental rate increases.
0.0 -10.00	0%
10.01 - 20.0	2.5%
20.01 -30.0	5.0%
30.01 - 40.0	7.5%
40.1 - 50.0	10.0%
50.1 - 60.0	12.5%

Fuel index increase will be based on increases for retail diesel prices as posted at the first of each month by *The Island Regulatory and Appeals Commission*. Provincial tax will be included as a component of the monthly increase/decrease.

P. E. I. Department of Transportation and Infrastructure Renewal

**Trucking Rates
Tonne(t) - Kilometre
Effective April 1, 2010**

Km	1	\$1.44 per t	Km	36	\$6.28 per t	Km	71	\$9.66 per t
Km	2	\$1.44 per t	Km	37	\$6.36 per t	Km	72	\$9.78 per t
Km	3	\$1.44 per t	Km	38	\$6.46 per t	Km	73	\$9.88 per t
Km	4	\$1.68 per t	Km	39	\$6.55 per t	Km	74	\$9.99 per t
Km	5	\$1.86 per t	Km	40	\$6.65 per t	Km	75	\$10.10 per t
Km	6	\$2.05 per t	Km	41	\$6.76 per t	Km	76	\$10.18 per t
Km	7	\$2.24 per t	Km	42	\$6.85 per t	Km	77	\$10.31 per t
Km	8	\$2.42 per t	Km	43	\$6.91 per t	Km	78	\$10.42 per t
Km	9	\$2.63 per t	Km	44	\$7.00 per t	Km	79	\$10.53 per t
Km	10	\$2.81 per t	Km	45	\$7.08 per t	Km	80	\$10.63 per t
Km	11	\$2.99 per t	Km	46	\$7.18 per t	Km	81	\$10.75 per t
Km	12	\$3.16 per t	Km	47	\$7.29 per t	Km	82	\$10.85 per t
Km	13	\$3.31 per t	Km	48	\$7.37 per t	Km	83	\$10.99 per t
Km	14	\$3.50 per t	Km	49	\$7.43 per t	Km	84	\$11.09 per t
Km	15	\$3.66 per t	Km	50	\$7.55 per t	Km	85	\$11.20 per t
Km	16	\$3.83 per t	Km	51	\$7.64 per t	Km	86	\$11.34 per t
Km	17	\$3.98 per t	Km	52	\$7.73 per t	Km	87	\$11.44 per t
Km	18	\$4.14 per t	Km	53	\$7.82 per t	Km	88	\$11.55 per t
Km	19	\$4.33 per t	Km	54	\$7.93 per t	Km	89	\$11.69 per t
Km	20	\$4.47 per t	Km	55	\$8.02 per t	Km	90	\$11.78 per t
Km	21	\$4.63 per t	Km	56	\$8.12 per t	Km	91	\$11.92 per t
Km	22	\$4.94 per t	Km	57	\$8.23 per t	Km	92	\$12.01 per t
Km	23	\$5.08 per t	Km	58	\$8.31 per t	Km	93	\$12.15 per t
Km	24	\$5.24 per t	Km	59	\$8.44 per t	Km	94	\$12.27 per t
Km	25	\$5.40 per t	Km	60	\$8.53 per t	Km	95	\$12.38 per t
Km	26	\$5.46 per t	Km	61	\$8.62 per t	Km	96	\$12.51 per t
Km	27	\$5.53 per t	Km	62	\$8.74 per t	Km	97	\$12.63 per t
Km	28	\$5.62 per t	Km	63	\$8.83 per t	Km	98	\$12.75 per t
Km	29	\$5.69 per t	Km	64	\$8.91 per t	Km	99	\$12.89 per t
Km	30	\$5.75 per t	Km	65	\$9.03 per t	Km	100	\$12.99 per t
Km	31	\$5.87 per t	Km	66	\$9.13 per t			
Km	32	\$5.93 per t	Km	67	\$9.25 per t			
Km	33	\$6.03 per t	Km	68	\$9.34 per t			
Km	34	\$6.11 per t	Km	69	\$9.45 per t			
Km	35	\$6.19 per t	Km	70	\$9.56 per t			

- Note: A) For Kilometres over 100 add 8.65 cents per tonne
 B) For transporting Hot Mix Asphalt, add \$1.00 per tonne

P. E. I. Department of Transportation and Infrastructure Renewal

**Trucking Rates
Cubic Metre (M3) - Kilometre
Effective April 1, 2010**

Km	1	\$2.02	M3	Km	36	\$9.70	M3	Km	71	\$14.94	M3
Km	2	\$2.02	M3	Km	37	\$9.86	M3	Km	72	\$15.12	M3
Km	3	\$2.02	M3	Km	38	\$9.97	M3	Km	73	\$15.30	M3
Km	4	\$2.65	M3	Km	39	\$10.11	M3	Km	74	\$15.44	M3
Km	5	\$2.88	M3	Km	40	\$10.32	M3	Km	75	\$15.63	M3
Km	6	\$3.16	M3	Km	41	\$10.46	M3	Km	76	\$15.79	M3
Km	7	\$3.45	M3	Km	42	\$10.57	M3	Km	77	\$15.94	M3
Km	8	\$3.74	M3	Km	43	\$10.72	M3	Km	78	\$16.14	M3
Km	9	\$4.06	M3	Km	44	\$10.84	M3	Km	79	\$16.28	M3
Km	10	\$4.38	M3	Km	45	\$10.99	M3	Km	80	\$16.45	M3
Km	11	\$4.61	M3	Km	46	\$11.10	M3	Km	81	\$16.64	M3
Km	12	\$4.87	M3	Km	47	\$11.27	M3	Km	82	\$16.80	M3
Km	13	\$5.03	M3	Km	48	\$11.37	M3	Km	83	\$17.00	M3
Km	14	\$5.42	M3	Km	49	\$11.51	M3	Km	84	\$17.15	M3
Km	15	\$5.66	M3	Km	50	\$11.66	M3	Km	85	\$17.35	M3
Km	16	\$5.92	M3	Km	51	\$11.81	M3	Km	86	\$17.52	M3
Km	17	\$6.17	M3	Km	52	\$11.95	M3	Km	87	\$17.71	M3
Km	18	\$6.41	M3	Km	53	\$12.12	M3	Km	88	\$17.87	M3
Km	19	\$6.67	M3	Km	54	\$12.26	M3	Km	89	\$18.07	M3
Km	20	\$6.93	M3	Km	55	\$12.42	M3	Km	90	\$18.24	M3
Km	21	\$7.16	M3	Km	56	\$12.58	M3	Km	91	\$18.44	M3
Km	22	\$7.61	M3	Km	57	\$12.74	M3	Km	92	\$18.61	M3
Km	23	\$7.86	M3	Km	58	\$12.87	M3	Km	93	\$18.83	M3
Km	24	\$8.11	M3	Km	59	\$13.05	M3	Km	94	\$18.97	M3
Km	25	\$8.35	M3	Km	60	\$13.19	M3	Km	95	\$19.20	M3
Km	26	\$8.46	M3	Km	61	\$13.33	M3	Km	96	\$19.33	M3
Km	27	\$8.58	M3	Km	62	\$13.53	M3	Km	97	\$19.56	M3
Km	28	\$8.72	M3	Km	63	\$13.64	M3	Km	98	\$19.73	M3
Km	29	\$8.81	M3	Km	64	\$13.82	M3	Km	99	\$19.95	M3
Km	30	\$8.92	M3	Km	65	\$13.97	M3	Km	100	\$20.10	M3
Km	31	\$9.06	M3	Km	66	\$14.14	M3				
Km	32	\$9.18	M3	Km	67	\$14.29	M3				
Km	33	\$9.31	M3	Km	68	\$14.45	M3				
Km	34	\$9.46	M3	Km	69	\$14.66	M3				
Km	35	\$9.58	M3	Km	70	\$14.79	M3				

Note: For Kilometres over 100 add 16.16 cents per cubic metre.

Section B - Standard Prices - Unbid Jobs

INDEX

201	Clearing	Page - 6
202	Grubbing	Page - 6
203	Earth Excavation: Waste	Page - 6
	Earth Excavation: Reusable Material	Page - 6
	Earth Excavation: Stockpile Reusable Material	Page - 6
	Earth Excavation Roadway and Driveway Culverts	Page - 6
	Earth Excavation for Storm Culverts	Page - 6
204	Topsoil - Remove Stockpile and Replace	Page - 6
205	Borrow from Adjacent Land or Pit	Page - 7
206	Select Borrow /t	Page - 7
	Select Borrow / m3	Page - 7
207	Class B: Local Aggregate	Page - 7
208	Fine Grading	Page - 7
209	Compaction	Page - 7
211	Shoulder Material	Page - 7
211	Class C: Local Aggregate for Shoulders	Page - 8
212	Topsoil for Landscaping	Page - 8
214	Tap Drains	Page - 8
215	Ditching	Page - 8
301	Storm Drain Construction	Page - 8
302	Setting Catch Basins	Page - 8

305	Placing Roadway Culvert	Page - 8
306	Placing Driveway Culvert	Page - 8
308	Culvert Removal	Page - 9
601	Tack Coat	Page - 9
701	Pulverize in Place	Page - 9
703	Pulverize, Stockpile and Replace	Page - 9
705	Cold Plane and Patch	Page - 9
710	Cutting Pavement (10 cm)	Page - 9
711	Excavate and Patch	Page - 9
802	Water for Dust Control	Page - 9
803	Seeding	Page - 9
806	Silt Fence	Page - 9
808	Sediment Traps	Page - 10
901	Signallers	Page - 10
902	Removing Guardrail	Page - 10
903	Erecting Guardrail	Page - 10
904	Pavement Edge Delineators	Page - 10
905	Temporary Marking	Page - 10
1307	Moving Scales	Page - 10
	Notes:	Page - 10
	Select Borrow Breakdown costs	Page - 11

**P. E. I. Department of Transportation and Infrastructure Renewal
Standard Prices - Unbid Jobs
Effective April 01, 2010**

Section	Item	2010 Rate	Per Unit
201	Clearing: (minimum 1.0 Hectare)	\$2,481.55	ha
202	Grubbing: (minimum 1.0 Hectare)	\$3,021.02	ha
203	Earth Excavation: Waste Truck haul included		
	Over 500 m3	\$3.95	m3
	200 m3 to 500 m3	\$5.01	m3
	Less than 200 m3	\$6.64	m3
203	Earth Excavation: Reusable Material * Truck haul extra		
	Over 500 m3	\$3.41	m3
	200 m3 to 500 m3	\$4.33	m3
	Less than 200 m3	\$5.89	m3
	* to be re-used within the original move and not stockpiled and used later		
203	Earth Excavation: Stockpile Reusable Material * * if material is to be stockpiled and then used later, the following extra rate will be paid for stockpiling Truck haul extra		
	Over 500 m3	\$1.66	m3
	200 m3 to 500 m3	\$2.16	m3
	Less than 200 m3	\$2.16	m3
203	Earth Excavation for Roadway Culverts and Driveway Culverts Where deep excavation requires additional sloping in order to comply Occupational Health and Safety Regulations, any additional excavation shall be paid at the rates for Earth (common) excavation, listed above. Please see note A and B		
203	Earth Excavation for Storm Culverts	\$12.44	m3
	(v=depth x outside diameter of pipe + 0.6 metre) x 1metre		
204	Topsoil - remove, stockpile and replace Truck haul extra		
	Over 500 m3	6.88	m3
	200 m3 to 500 m3	8.52	m3
	Less than 200 m3	10.29	m3

Section	Item	2010 Rate	Per Unit
205	Borrow from Adjacent Land or Pit		
	Truck haul extra		
	Over 500 m3	\$3.87	m3
	200 m3 to 500 m3	\$4.91	m3
	Less than 200 m3	\$6.51	m3
	(Royalty Rate to be Added if Required)		
206	Select Borrow/t		
	Truck haul extra		
	Over 200 tonne	\$3.68	t
	101-200 t *	\$5.35	t
	0-100 t *	\$6.25	t
	* Plus float charge one way		
206	Select Borrow/m3		
	Truck haul extra		
	Over 126 m3	\$5.90	m3
	64-126 m3 *	\$8.56	m3
	0-63 m3 *	\$10.00	m3
	* Plus float charge one way		
207	Class B: Local Aggregate for Roadbed		
	Truck haul extra		
	2000 tonnes	\$9.29	t
	1000 to 1999 tonnes	\$10.62	t
	500 to 999 tonnes	\$11.96	t
	250 to 499 tonnes	\$13.29	t
	Up to 249 tonnes *	\$14.63	t
	Includes dig, crush, load, spread, royalty, scales and compaction. Float charge to be added up to 249 tonnes		
	* Plus float charge one way		
208	Fine Grading		
	Over 500m2	\$0.39	m2
	Under 500 m2	\$1.16	m2
	(Plus float charges)		
209	Compaction		
	Over 500m2	\$0.64	m2
	Under 500 m2	\$1.16	m2
	(Plus float charges)		
211	Shoulder Material Placed with Spreader		
	Add material to cost of spreader	\$1.84	m3
	Contractor and Project Engineer/Manager to negotiate at the time		

Section	Item	2010 Rate	Per Unit
211	Class C: Local Aggregate for Shoulder		
	Truck haul extra		
	2000 tonnes	\$7.41	t
	1000 to 1999 tonnes	\$7.72	t
	500-999 tonnes	\$10.99	t
	250-499 tonnes	\$12.20	t
	Up to 249 tonnes	\$13.40	t
	Includes dig, crush, load, spread, royalty, scales and compaction		
212	Topsoil for Landscaping	\$11.60	m3
	Truck haul extra		
214	Tap Drains		
	Over 100 metres	\$7.08	m
	Under 100 metres	\$10.04	m
215	Ditching (within the ROW)		
	Over 100 metres	\$6.38	m
	Under 100 metres	\$9.33	m
301	Storm Drain Construction (Department Supplies Pipe)		
	450 mm	\$25.57	m
	600 mm	\$31.39	m
	750 mm	\$37.35	m
	900 mm	\$45.41	m
	1200 mm	\$61.19	m
	Please see Note "A"		
302	Setting Catch Basins	\$750.00	unit
305	Placing Roadway Culvert (Department Supplies Pipe)		
	450 mm	\$30.00	m
	600 mm	\$30.00	m
	750 mm	\$30.00	m
	900 mm	\$40.00	m
	1200 mm	\$45.00	m
	Where deep excavation requires additional sloping in order to comply with Occupational Health and Safety Regulations, any additional excavation shall be paid at the rates for Earth (Common) Excavation, listed above. Please see notes "A" and "B"		
306	Placing Driveway Culvert (Department Supplies Pipe)		
	450 mm	\$25.00	m
	600 mm	\$25.00	m
	750 mm	\$25.00	m
	900 mm	\$30.00	m
	1200 mm	\$35.00	m

Section	Item	2010 Rate	Per Unit
308	Culvert Removal		
	450 mm	\$20.00	m
	600 mm	\$20.00	m
	750 mm	\$20.00	m
	900 mm	\$25.00	m
	1200 mm	\$30.00	m
Where deep excavation requires additional sloping in order to comply with Occupational Health and Safety Regulations, any additional excavation shall be paid at the rates for Earth (Common) Excavation, listed above. Please see notes "A" and "B"			
601	Tack Coat Application		
	Under 1,000 m ²	\$0.69	m ²
	Over 1,000 m ²	\$0.43	m ²
701	Pulverize in Place	\$3.94	m ²
704	Cold Plane, Stockpile and Replace	\$5.06	m ²
705	Cold Plane and Patch		
	to include : Cold Planing, Sweeping, Tacking, Truck Haul , Hot mix asphalt, Compaction and Signage Payment for this will be based on m ² to a depth of 50 mm. Where 50mm depth exceeded - bid price to be adjusted using formula (50mm + additional depth in mm) x unit bid price 50mm	\$25.50	m ²
710	Cutting Pavement (10 cm)	9.85	m
711	Excavate and Patch		
	To include: Cut and Excavate Existing Pavement, Compaction of Subgrade, Supply and Placement of Tack and Hot mix Asphalt, Compaction of Asphalt, Signage and all Trucking associated with this work.	\$29.71	m ²
802	Water for Dust Control	\$6.94	kl
803	Hydro Seeding		
	1.0 Hectare or more	\$6,834.00	ha
	Less than 1.0 Hectare (10,000 m ²)	\$0.68	m ²
806	Silt Fence (Supply and Install)	\$7.45	m

Section	Item	2010 Rate	Per Unit
808	Sediment Traps		
	Rock	\$399.62	each
	Straw	\$175.00	each
901	Signallers		
	The Contractor shall, in addition to employee benefits and vacation pay, pay the signallers not less than ten dollars and seventeen cents (\$10.17) per hour	\$13.60	hr
902	Removing Guardrail		
	Up to 100 metres	\$14.28	m
	Over 100 metres	\$12.25	m
903	Erecting Guardrail		
	Up to 100 metres	\$29.33	m
	Over 100 metres	\$26.65	m
904	Pavement Edge Delineators	\$10.20	each
905	Temporary Marking	\$3.32	m
1307	Moving Scales	\$4,290.51	move
	Miscellaneous Loading Only	\$1.21	t
	Miscellaneous Loading Only	\$2.17	m3
	When Consultants are required by the Specifications for granular testing Add the appropriate rate.	\$0.90	t

Note "A"

If the Department requests a relocation of underground culvert then the cost will be borne by the Department, but otherwise (for example, if the Contractor is doing normal contract/negotiated work) this to remain totally the responsibility of the Contractor. The Contractor shall contract utility companies to have underground cables located and plan their work according to the information provided from the utility companies

No additional compensation shall be provided for this.

Note "B"

Earth Excavation for Roadway Culverts @	\$11.83	m3
Volume=Depth x Width x Length, where Width = Culvert Diameter + 0.6 metre		

Earth Excavation for Driveway Culverts @	\$11.83	m3
Volume = Depth x Width x Length, where Depth = Depth to the bottom of the culvert minus one(1) metre, and width = Culvert Diameter + 0.6 metre		

**Highway Maintenance Division
Borrow Material Breakdown
(Haul Extra)
Effective April 1, 2010**

Borrow Material Type	Royalty cost/ tonne	Royalty cost / metre ³
Common Borrow	\$0.33	\$0.53
Select Borrow	\$0.50	\$0.80

Borrow material is required to meet gradation as identified in 'Section 206 Borrow from Pit' of the Departments General Provisions and Contract Specifications & Highway Construction document

Borrow Material Breakdown

	cost/tonnes 0 - 100 t	cost/tonnes 101t - 200t	cost/tonnes over 200 tonnes
Dig / Load	\$1.23	\$1.23	\$1.06
Spread / Crush	\$2.26	\$1.81	\$1.06
Grader	\$2.26	\$1.81	\$1.06
Royalty (Select Borrow)	\$0.50	\$0.50	\$0.50
Total	\$6.25	\$5.35	\$3.68

	cost/metres 0 - 63m ³	cost/metres 64m ³ - 126m ³	cost/metres over 126 m ³
Dig / Load	\$1.97	\$1.97	\$1.70
Spread / Crush	\$3.61	\$2.89	\$1.70
Grader	\$3.62	\$2.90	\$1.70
Royalty (Select Borrow)	\$0.80	\$0.80	\$0.80
Total	\$10.00	\$8.56	\$5.90

Note:

Ripping	\$1.17/m ³	\$0.67/t
Topsoil	\$11.60/m ³	\$6.80/t

Definition:

- Dig/Load** Loader loads trucks either from a stockpile or by digging material from the embankment of pit if not stockpiled.
Loader to be large enough so as not to cause delays in loading trucks.
- Spread/Crush** Dozer spreads and levels material as dumped from truck and travel back and forth over material breaking stone to desired size and compacting aggregate.

Grader is to level aggregate and fine grade to provide a finish surface as per the Department's General Provisions and Contract Specifications for Highway Construction C Machinery Rental Rates

RENTAL RATES

Section C -Machinery Rental rates

INTRODUCTION

Equipment rental rates listed in this document are to be adjusted for the equipment model year based on the schedule below. Attachments are deemed to be one of the same model year as the basic unit.

Equipment less than 10 years old:	100.0%
Equipment from 10 - 20 years old:	97.3%
Equipment older than 20 years old:	90.0 %

These rates were agreed upon with a Committee of the Prince Edward Island Road Builders and Heavy Construction Association and a Committee from the Prince Edward Island Department of Transportation and Infrastructure Renewal.

Rental rates in the schedule, unless otherwise stated, including depreciation, interest, *liability insurance, repairs, maintenance supplies, fuels, lubricants, overhead, profit and operator's wages.

* Equipment must have adequate insurance to save the Province of Prince Edward Island from all claims arising from the use of the equipment. Contractors must complete a Government Certificate of Insurance and provide all pertinent information to the Department prior to being hired.

See Section C-A: **Machinery Rental Requirements**

Allowances for owner modifications which increase capacities or horsepowers will not be considered, and only the manufacturer's specifications will apply for categorization into the rate structure.

For machines hired with more than one attachment will only include the attachment used for the purpose intended.

Rental rates in this book are the maximum hourly, weekly and monthly rates permitted. Rates lower than the hourly rate may be negotiated by the Department of Transportation and Public Works. **Standby rates, if and when applicable, will be 50% of the regular operated rate.**

All rates are subject rate adjustments when the Departments Inclement Weather policy for rentals is in affect or the work week is shortened due to a holidays and will be prorated accordingly.

The fuel index ,as established in FY 2006-07, will continue with diesel fuel benchmarked at \$1.00. The fuel index will be based on 10% incremental changes in fuel prices as posted at the first of each month by

the **Island Regulatory and Appeals Commission**. Provincial tax will be included as a component of the monthly increase/decrease.

The fuel index will be applied to 25% of the rate structure

The Department will provide the following additional information in the rates publication as it relates to backhoes: When a backhoe is called out to work, the Contractor will be paid for actual hours worked with a minimum of two (2) hours guaranteed at the hourly rental rate as identified in the standard rates publication.

The Department will pay all transportation charges from and to the Contractor's shipping and receiving points provided, however, unless otherwise agreed, the Department shall not pay transportation charges greater than those necessary to return the equipment to the point from which it was originally shipped to the Department.

The Department will be the sole authority on determining the size and type of the unit required to carry out its work. Should the Contractor choose to provide an alternate piece of equipment to perform the work (ie excavator for a backhoe or a tandem truck for a single axle) or a larger unit than is required (ie a 90 hp for a 75 hp backhoe) , the rate paid ,will be at lower rate.

Note: **PEI Revenue Tax (PST)**

To ensure that government entities do not rent equipment or award contracts to service providers, who use equipment on which PEI revenue tax (PST) was not paid, the Provincial Treasury has recommended that the attached form in Section C-B be completed. If the service provider does not certify that all applicable PEI revenue tax (PST) has not been paid on the equipment to be used in providing the services, government may not award any work to them.

See Section C-A: **Machinery Rental Requirements**

INDEX

Certificate of Insurance	Page - 18
Equipment or Vehicle Rental Agreement	Page - 19
Driver Authorization Release Form	Page - 20
GST Release	Page - 20
PEI Revenue Tax Confirmation Form	Page - 21
Definitions	Page - 22
Metric Conversions	Page - 23

Specifications for machinery are located at the back of this booklet. Rental rates are located on the pages listed below.

AIR EQUIPMENT

- Portable air Compressors	Page - 24
- Attachments	Page - 24
- Crawler Drills	Page - 24

ASPHALT PAVERS

- Crawler Type	Page - 24
- Rubber Tire Type	Page - 24

BACKHOES

- Rubber Tired - Hydraulic	Page - 25
----------------------------	-----------

BOATS

- Boats	Page - 25
- Outboard Motors	Page - 25

CHAINSAWS

- Daily / Hourly	Page - 25
------------------	-----------

COMPACTION EQUIPMENT

- Rammer Page - 25
- Vibratory Plate Tampers Page - 25
- Vibrating Roll - Manually Guided Page - 26
- Towed - Vibratory, Smooth Drum, Single Drum Page - 26
- Towed - Vibratory, Single Pad or Sheeps foot Page - 26
- Self Propelled, Vibratory, Single Drive, Single Smooth Drum Page - 26
- Self Propelled, Vibratory Drum Drive, Single Pad or Sheeps foot Page - 26
- Self Propelled, Drum Drive, Single Smooth for Asphalt Page - 26
- Self Propelled, Tandem Vibrating Smooth Drums For Asphalt or Soil Page - 26
- Rubber Tire, Self Propelled , Static Page - 27
- Steel, Self Propelled, Static, Tandem Page - 27
- Steel, Self Propelled Tandem with Transporting Wheels Page - 27
- Asphalt Patching Rollers Page - 27

CONCRETE EQUIPMENT

- Vibrators Page - 27
- Concrete Mixers Page - 27
- Concrete Saws Page - 27

CRANES

- Mobile Hydraulic Capacity Page - 28
- Mobile Cable Page - 28

DOZER

- Crawler with Dozer Page - 28

EXCAVATORS

- Crawler - Hydraulic Page - 28
- Rubber Tired - Hydraulic Page - 29

FRONT END LOADERS

- Crawler Type Page - 29
- Rubber Tired Page - 29

MOTOR GRADERS

- Horse Power Page - 29
- Two Wheel Tractor, Two wheel Scraper, Single Engine Drive Page - 30
- Twin Engine, all Wheel Drive Page - 30
- Self Loading, Elevating motor Scraper, Complete Unit Page - 30

PILE DRIVING EQUIPMENT

- Diesel Hammers

Page - 30

PUMPS

- C/W Suction and Discharge Hose
- C/W Secretion and Discharge Hose

Page - 30

Page - 31

SCALES

- Platform Truck

Page - 31

SKID STEER LOADERS

- Skid Steer Loader
- Attachments

Page - 31

Page - 31

SNOW REMOVAL EQUIPMENT

- Plows, Truck
- Snow Blowers
- Plows, Loaders
- Plows, Grader

Page - 32

Page - 32

Page - 32

Page - 32

TRACTOR

- Horse power
- Attachments

Page - 32

Page - 32

TRUCKS

- Maintenance
- Service Trucks
- Water
- Boom Trucks
- Distributer with Truck
- Off Highway
- Tractor and Float
- Truck and Tag Along Trailer

Page - 33

Page - 33

Page - 33

Page - 33

Page - 33

Page - 33

Page - 33

Page - 33

WELDERS

- Electric Arc Welders

Page - 33



Proof of liability insurance will be accepted on this form only (with no amendments).

Prince Edward Island Certificate of Insurance

Any personal information collected on this form is collected under the authority of Section 31 (c) of the *Prince Edward Island Freedom of Information and Protection of Privacy Act*, as it relates directly to and is necessary for the Department of Transportation and Public Works confirming the insurance of independent contractors and will be used solely for this purpose. For further information please contact FOIP Coordinator, Transportation and Public Works, PO Box 2000, Charlottetown, PE C1A 7N8.

This is to certify that the insured set forth is insured with the Insurance Company, which insurance is described below:

Name of Insured:	Address of Insured:
------------------	---------------------

Description of Operations to Which This Certificate Applies:
--

Type of Insurance	Policy Number	Effective Date (d/m/y)	Expiry Date (d/m/y)	Limits of Liability (Canadian dollars unless indicated otherwise)	
				Coverage	Amount of Insurance
Commercial General Liability <input type="checkbox"/> Claims made <u>or</u> <input type="checkbox"/> Occurrence <input type="checkbox"/> Products and/or completed operations <input type="checkbox"/> Contingent employer's liability <input type="checkbox"/> Cross liability <input type="checkbox"/> Non-owned automobiles <input type="checkbox"/> Owner's and contractor's protective coverage <input type="checkbox"/> Contractual liability <input type="checkbox"/> Operation of attached machinery				General aggregate	\$
				Each occurrence	\$
				Products and completed operations aggregate	\$
				Non-owned automobile	\$
Automobile Liability <input type="checkbox"/> All vehicles owned or leased by insured, or <input type="checkbox"/> Described automobiles as per Schedule A attached				Section A - Third Party Liability	\$
Excess Liability <input type="checkbox"/> Umbrella form <input type="checkbox"/> Other than umbrella form (specify) _____				Each occurrence	\$
				Aggregate	\$

Minimum Insurance Requirements:	Employee Owned/Leased Service Trucks and Mileage Vehicles:	• Motor Vehicle Liability – \$1,000,000
	Tandem and Single Axle Trucks:	• Motor Vehicle Liability – \$2,000,000 • Commercial General Liability – \$2,000,000
	Other (Backhoes, Loaders, etc. (unless otherwise specified):	• Motor Vehicle Liability – \$2,000,000 • Commercial General Liability – \$2,000,000
	Trucks Equipped with Sand Hoppers:	• Motor Vehicle Liability – \$1,000,000 • Commercial General Liability – \$2,000,000
	Snow Plows and Blowers (loaders, truck plows, graders, etc.):	• Motor Vehicle Liability – \$1,000,000 • Commercial General Liability – \$3,000,000

Other (Describe below)

Note:

This is to certify that:

1. THE GOVERNMENT OF PRINCE EDWARD ISLAND has been added as an additional insured on the Commercial General Liability Insurance Policy, but only with respect to its interest in the operations of the named insured.
2. The Policies of Insurance, as described above, have been issued by the undersigned to the insured named above and are in force at this time.
3. If cancelled or changed in any manner that would affect the Government of Prince Edward Island, as outlined in coverage specified herein for any reason so as to affect this certificate, 15 days prior written notice for Motor Vehicle Liability and 30 days prior written notice for all other insurance coverage except in the event of non-payment where policy conditions dealing with termination will apply. Written notice is to be given by the insurer(s) to the:

Risk Management and Insurance Section, Provincial Treasury
 Shaw Building, 95 Rochford Street, PO Box 2000, Charlottetown, PE C1A 7N8

This certificate is executed and issued to the aforesaid Government of PEI as represented by the Department of Transportation and Public Works.

Date:	Name of Insurance Company (not broker):
Name of Insurance Broker:	Signature of Authorized Representative or Official:



Transportation and Public Works

Certificate of Insurance – Schedule A Contractor Operated Equipment or Vehicle Rental Listing

Name of Contractor: _____

List the equipment/vehicle which the contractor has agreed will be used in the performance of the current contract with the Department of Transportation and Public Works:

Year	Make	Model	Serial Number

The following section is to be used in the event of equipment/vehicle changes occur over the term of the Certificate of Insurance:

It is hereby understood and agreed that the Certificate of Insurance completed on _____ 200__ has been amended as follows effective _____ 200__

The following vehicle/equipment is added:
Year: _____ Make: _____ Model: _____ Serial No.: _____

The following vehicle/equipment is deleted:
Year: _____ Make: _____ Model: _____ Serial No.: _____

Date:	Policy No:
Broker:	
Insurer:	

Signature of Authorized Representative or Official

Drivers Authorization Release Form

The Department of Transportation and Infrastructure Renewal has been given permission by

Driver's Name _____ Licence # _____

to obtain a copy of his/her Driving Record for purposes of satisfying the terms of this agreement.

(signature)

(date)

GST

If you are notified that your equipment will be required for maintenance operations, please complete either **PART 1** or **PART 2**, (which ever is applicable to your situation) and return the signed form to the Highway Maintenance Administration office in the County your equipment will be operating in.

PART 1

I, _____ am registered with a GST number.
(please print name)

My GST number is: _____

Date: _____

Signature: _____

PART 2

I, _____ Do not have a GST number.
(please print name)

Date: _____

Signature: _____

C - A - PEI Revenue Tax (PST)

Freedom of Information and Protection of Privacy

Information is collected on this form for the purpose of contracted services under the authority of section 31©) of the *Freedom of Information and Protection of Privacy Act*, as it relates directly to and is necessary for awarding of service contracts by _____ . If you have any questions about the collection of this information, please contact _____ .

Year	Make	Model	Serial Number	Type of Equipment

Certification

I hereby certify that the equipment listed above will be used to provide contracted services to the _____ . In accordance with the Request for Proposal/Quotation # _____ , Province of PEI's Standard Negotiated Rate Book, or in accordance with the contract dated _____ . For the provision of _____ , and that **all applicable PEI revenue tax (PST) has been paid on this equipment and not refunded.** I acknowledge that the information provided on this certification is subject to audit and accordingly may be provided to the Provincial Treasurer for the purposes of audit under the authority of the *Revenue Administration Act*.

Signature

Title (printed)

Name (printed)

Date

Name of Business or Company (if applicable)

RETURN FORM TO
 Tax Administration Supervisor
 taxation and Property Records Division
 P.O. Box 1150, Charlottetown, PE C1A
 7M8

DEFINITIONS

Maximum Engine Horsepower of Kilowatts:

base engine at sea level, which is equipped only with accessories to its operation, for short durations of 5 minutes at extra R.P.M..

Gross of Rated Horsepower of Kilowatts:

is the power output of a bare engine which is equipped only with the built-in accessories essential to it's operation such as a flywheel, fuel pump, and so forth.

Flywheel or net engine Horsepower or Kilowatts:

is the power output of a fully equipped engine which is equipped with all the accessories necessary to perform its intended function unaided, such a an air cleaner, fan, exhaust system, radiator, generator, starter and related parts.

Drawbar Horsepower:

is the observed horsepower at the drawbar of the vehicle. This horsepower reading is not available on torque convertor or automatic transmission type machines because of the variable R.P.M. produced under load by the torque converter.

Maximum Engine Power	x	.60	=	Flywheel Power
Gross or Rated Power	x	.90	=	Flywheel Power
Flywheel Power or Engine Power	x	.80	=	Drawbar Power
Flywheel or Net Engine Power	x	.90	=	Power Take Off Power
Flywheel or Net Engine Power	x	.75	=	Kilowatt
Power Take Off Power	x	.88	=	Drawbar Power

METRIC CONVERSION

Drawbar Horsepower	x	0.745700	=	kilowatts	kw
Net Flywheel Horsepower	x	0.745700	=	kilowatts	kw
Weight (lbs)	x	0.453592	=	kilograms	kg
Cubic Yards	x	0.764555	=	cubic metre	m ³
Tons	x	0.907184	=	tonne	t
Gallons (U.S.)	x	3.785	=	litres	L
Gallons (imperial)	x	4.54609	=	litres	L
Inches	x	2.54	=	centimetres	cm
Inches	x	25.40	=	millimetres	mm
Feet	x	0.3048	=	metres	m
Miles	x	1.609344	=	kilometres	km
Kilowatts (electrical 1,000 watts)	x	*NC	=	kilowatts	K.W.
Amperes	x	*NC	=	amperes	A
Cubic Inches	x	16.387	=	cubic centimetres	cm ³
Cubic Inches (in ³)	x	0.164	=	litres	L
Cubic Feet (ft ³)	x	0.0283	=	cubic metres	m ³
British Thermal Unit (BTU)	x	0.292810	=	watts	w
Square Feet (ft ²)	x	0.92903	=	square metre	m ²
Acre	x	0.404687	=	hectare	hec
Cubic feet per Minute (CFM)	x	0.472	=	litres/second	L/sec

P.E.I. Transportation and Infrastructure Renewal

Machinery Rental Rates

April 1, 2010

AIR EQUIPMENT

Hourly Non-Operated Rate

Air Compressors - Portable	100%	97%	90%
125 CFM	\$10.27	\$9.99	\$9.24
150 CFM	\$13.75	\$13.38	\$12.39
175-185 CFM	\$16.84	\$16.39	\$15.17
250 CFM	\$19.92	\$19.38	\$17.93
325-375 CFM	\$28.13	\$27.37	\$25.32
600 CFM	\$46.71	\$45.45	\$42.05
750 CFM	\$52.65	\$51.22	\$47.38
900 CFM	\$58.56	\$56.98	\$52.69

Hourly Rate

Attachments	100%	97%	90%
Chipping Hammer, Tampers, Paving Breakers, Drills, Jackhammers, Impact Wrenches, Clay Diggers and Rock Drills	\$2.81	\$2.73	\$2.53

Moil Points, Chisel, Spades, Dirt, Tampers, Frost Wedges, Asphalt Cutter, Rock Drill Steel	\$1.43	\$1.39	\$1.27
--	--------	--------	--------

Hourly Rate

Crawler Drills	100%	97%	90%
3 1/4 - 4" Bore	\$51.25	\$49.87	\$46.13
4 1/4 - 5" Bore	\$56.52	\$54.99	\$50.87
5 1/4 - 6" Bore	\$66.16	\$64.37	\$59.54

Air Compressor - up to 150 CFM c/w hammer, hose, steel & bits	\$61.66	\$60.00	\$55.50
--	---------	---------	---------

ASPHALT PAVERS

Hourly Rate

Crawler	100%	97%	90%
Medium	\$106.69	\$103.81	\$96.02
Large	\$152.04	\$147.93	\$136.83

Add 10% for units equipped with electronic control.

Hourly Rate

Rubber Tire Type	100%	97%	90%
Small	\$83.18	\$80.94	\$74.87
Medium	\$101.35	\$98.62	\$91.22
Large	\$160.02	\$155.70	\$144.02

Add 10% for units equipped with electric screen control.

BACKHOES

Hourly Operated Rate

Rubber Tired Backhoe Loader	100%	97%	90%
< 50 hp - < 0.75 cy or 0.57 m3	\$39.47	\$38.40	\$35.52
50-65 hp-0.63 cy/0.48 m3 to 1.00 cy/0.76 m3	\$44.59	\$43.39	\$40.13
66-79 hp-1.00 cy/0.76 m3 to 1.25 cy/0.96 m3	\$50.96	\$49.59	\$45.87
80-99 hp-1.25 cy/0.96 m3 to 1.50 cy/1.14 m3	\$57.36	\$55.81	\$51.62
> 100 hp - > 1.50 cy or 1.14 m3	\$70.10	\$68.21	\$63.09

BOATS

Hourly Non-Operated Rate

Boats	100%	97%	90%
12 - 15'	\$3.69	\$3.59	\$3.32
16 - 18'	\$4.72	\$4.59	\$4.25
19 - 21'	\$5.71	\$5.56	\$5.14
22 - 24'	\$6.54	\$6.37	\$5.89
25 - 27'	\$7.12	\$6.92	\$6.40

Hourly Non-Operated Rate

Outboard Motors	100%	97%	90%
To 10 h.p.	\$4.68	\$4.56	\$4.21
11 - 15 h.p.	\$5.71	\$5.56	\$5.14
16 - 25 h.p.	\$6.25	\$6.08	\$5.62
26 - 40 h.p.	\$6.73	\$6.55	\$6.06
41 - 50 h.p.	\$12.54	\$12.20	\$11.29

CHAINSAWS

Chainsaw - daily rental (non contineous use)	\$17.78
Chainsaw - hourly rental (contineous to a maximum of 4 hours/day)	\$4.09

COMPACTION EQUIPMENT

Daily Non-Operated Rate

Rammer	100%	97%	90%
80 - 119 lbs	\$67.93	\$66.10	\$61.14
120 - 160 lbs	\$78.73	\$76.60	\$70.85

Daily Non-Operated Rate

Vibratory Plate Tampers	100%	97%	90%
180 - 200 lbs	\$76.50	\$74.44	\$68.85
200 - 325 lbs	\$83.35	\$81.10	\$75.01
326 - 450 lbs	\$112.67	\$109.63	\$101.40

COMPACTION EQUIPMENT continued

Hourly Non-Operated Rate

Vibrating Roll - Manually Guided	100%	97%	90%
24 - 30" single drum	\$7.60	\$7.40	\$6.84
15 - 22" dual drum	\$9.30	\$9.05	\$8.37
24 - 26" dual drum	\$11.05	\$10.75	\$9.95
28 - 30" dual drum	\$13.97	\$13.59	\$12.57
32 - 36" dual drum	\$20.95	\$20.39	\$18.86

Hourly Non-Operated Rate

Towed, Vibratory, Smooth Drum, Single Drum, Drum Width and Operation Weight	100%	97%	90%
55 - 60" and 3,100 - 5,000 lbs	\$14.10	\$13.72	\$12.69
61 - 65" and 5,500 - 9,500 lbs	\$19.41	\$18.89	\$17.47
66 - 75" and 9,500 - 13,500 lbs	\$23.99	\$23.35	\$21.59
76 - 80" and 13,500 - 28,000 lbs	\$38.05	\$37.02	\$34.25
81 - 84" and Over 28,000 lbs	\$52.00	\$50.60	\$46.80

Hourly Non-Operated Rate

Towed, Vibratory, Single Pad or Sheepsfoot, Drum Width and Operation Weight	100%	97%	90%
54 - 60" and 3,000 - 5,000 lbs	\$15.46	\$15.04	\$13.92
61 - 65" and 5,500 - 10,600 lbs	\$26.68	\$25.96	\$24.01
66 - 75" and 9,500 - 15,000 lbs	\$32.20	\$31.33	\$28.98
76 - 84" and Over 15,000 lbs	\$44.59	\$43.38	\$40.13

Hourly Non-Operated Rate

Self Propelled, Vibratory, Single Drive, Single Smooth Drum, Drum Width and Operation Weight	100%	97%	90%
61 - 70" and 11,000 - 15,000 lbs	\$66.68	\$64.88	\$60.01
71 - 85" and 14,000 - 21,000 lbs	\$80.03	\$77.87	\$72.03
71 - 85" and 21,501 - 25,000 lbs	\$85.35	\$83.04	\$76.81
80 - 105" and Over 25,000 lbs	\$96.01	\$93.42	\$86.41

Hourly Non-Operated Rate

Self Propelled, Vibratory Drum Drive, Single Pad or Sheepsfoot, Drum Width and Operation Weight	100%	97%	90%
61 - 70" and 12,000 - 15,500 lbs	\$66.68	\$64.88	\$60.01
71 - 85" and 15,000 - 26,000 lbs	\$88.03	\$85.65	\$79.22
80 - 105" and 26,000 - 50,000 lbs	\$106.69	\$103.81	\$96.02

Hourly Non-Operated Rate

Self Propelled, Drum Drive, Single Smooth Drum for Asphalt, Drum Width and Operation Weight	100%	97%	90%
61 - 70" and 10,000 - 13,000 lbs	\$69.15	\$67.28	\$62.24
71 - 85" and 12,500 - 23,000 lbs	\$82.95	\$80.71	\$74.65

Hourly Non-Operated Rate

Self Propelled, Tandem Vibrating Smooth Drums for Asphalt or Soil, Drum Width and Operation Weight	100%	97%	90%
43 - 55" and 8,000 - 12,500 lbs	\$67.34	\$65.52	\$60.60
56 - 73" and 15,000 - 23,000 lbs	\$91.14	\$88.68	\$82.03
74 - 85" and Over 24,000 lbs	\$102.31	\$99.55	\$92.08

COMPACTION EQUIPMENT continued

Hourly Operated Rate

Rubber Tire, Self Propelled, Static	100%	97%	90%
10 - 12 ton	\$41.34	\$40.23	\$37.21
13 - 15 ton	\$46.67	\$45.41	\$42.00
20 - 25 ton	\$68.01	\$66.17	\$61.21

Hourly Operated Rate

Steel, Self Propelled, Static, Tandem	100%	97%	90%
3 - 5 ton	\$37.33	\$36.32	\$33.60
5 - 8 ton	\$41.34	\$40.23	\$37.21
8 - 10 ton	\$45.34	\$44.12	\$40.81
10 - 12 ton	\$48.01	\$46.72	\$43.21
12 - 14 ton	\$53.34	\$51.90	\$48.01

Steel, Self Propelled Tandem with Transporting Wheels	Hourly Operated Rate		
	100%	97%	90%
4 - 6 ton	\$43.99	\$42.80	\$39.59

Asphalt Patching	Weekly Rate	Monthly rate
1 ton Roller non vibratory c/w trailer	\$279.13	\$1,116.54
1 ton Roller non vibratory	\$225.34	\$901.36
1 - 1.5 ton roller vibratory c/w trailer	\$530.21	\$2,120.85
1 - 1.5 ton roller vibratory	\$486.62	\$1,946.48

CONCRETE EQUIPMENT

Hourly Non-Operated Rate

Vibrators	100%	97%	90%
Electric	\$4.40	\$4.28	\$3.96
Gas	\$4.27	\$4.16	\$3.85
Buggy Engine	\$8.52	\$8.29	\$7.67

Hourly Non-Operated Rate

Concrete Mixers	100%	97%	90%
3 1/2 cu. ft.	\$6.25	\$6.08	\$5.62
6 cu. ft.	\$11.16	\$10.86	\$10.05
11 cu. ft.	\$16.58	\$16.13	\$14.92
16 cu. ft.	\$19.19	\$18.67	\$17.27

Hourly Non-Operated Rate

Concrete Saws	100%	97%	90%
Up to 10 h.p.	\$10.53	\$10.25	\$9.48
11 - 20 h.p.	\$12.90	\$12.56	\$11.61
Over 20 h.p.	\$17.10	\$16.64	\$15.39

Cost of blades to be added.

CRANES

Hourly Operated Rate

Mobile - Hydraulic Capacity	100%	97%	90%
12 1/2 ton	\$82.69	\$80.45	\$74.42
15 ton	\$101.35	\$98.62	\$91.22
18 ton	\$117.36	\$114.19	\$105.63
25 ton	\$133.36	\$129.76	\$120.02
30 ton	\$146.72	\$142.76	\$132.05
45 ton	\$162.70	\$158.31	\$146.43
65 ton	\$234.74	\$228.40	\$211.26

Hourly Operated Rate

Mobile - Cable	100%	97%	90%
15 ton	\$74.68	\$72.66	\$67.21
20 ton	\$106.69	\$103.81	\$96.02
25 ton	\$128.14	\$124.68	\$115.33
35 ton	\$146.72	\$142.76	\$132.05
45 - 50 ton	\$176.04	\$171.29	\$158.44
60 - 65 ton	\$248.07	\$241.38	\$223.27
82 ton	\$293.42	\$285.50	\$264.08

DOZER - tractor

Hourly Operated Rate

Ripper Rate

Crawler with Dozer - Net Flywheel	100%	97%	90%	100%	97%	90%
40 - 60 hp.	\$45.34	\$44.12	\$40.81			
61 - 74 hp	\$56.01	\$54.50	\$50.41			
75 - 100 hp	\$61.35	\$59.69	\$55.22	\$13.31	\$12.95	\$11.98
101 - 129 hp	\$82.69	\$80.45	\$74.42	\$13.31	\$12.95	\$11.98
130 - 159 hp	\$102.68	\$99.91	\$92.41	\$18.65	\$18.15	\$16.79
160 - 199 hp	\$133.36	\$129.76	\$120.02	\$23.31	\$22.68	\$20.98
200 - 249 hp	\$156.05	\$151.83	\$140.44	\$26.68	\$25.96	\$24.01
250 - 349 hp	\$169.36	\$164.79	\$152.43	\$32.66	\$31.78	\$29.40
350 - 399 hp	\$197.39	\$192.06	\$177.65	\$32.66	\$31.78	\$29.40
400 hp and over	\$267.11	\$259.90	\$240.40	\$35.39	\$34.44	\$31.86

EXCAVATORS

Hourly Operated Rate

Crawler- Hydraulic (Tracked Type)	100%	97%	90%
Under 3/8 c.y./ 0.29 m3-< 29,000 lbs/13,200 kg	\$67.91	\$66.07	\$61.12
1/2 cy / 0.38 m3 - 25,000 lbs / 15,900 kg	\$79.53	\$77.39	\$71.58
5/8 cy / 0.48 m3 - 41,000 lbs / 18, 600 kg	\$86.79	\$84.44	\$78.11
3/4 cy / 0.57 m3 - 48,000 lbs / 21,800 kg	\$104.91	\$102.07	\$94.41
1.50 cy / 1.15 m3 - 55,000 lbs / 24,900 kg	\$112.03	\$109.01	\$100.83
1.75 cy / 1.35 m3 - 65,000 lbs / 29,500 kg	\$152.04	\$147.93	\$136.83
2.00 cy / 1.53 m3 - 75,000 lbs / 34,000 kg	\$159.96	\$155.64	\$143.96
Over 2.50 cy/1.91m3->90,000 lbs / 40,800 kg	\$181.37	\$176.47	\$163.23

EXCAVATORS Continued

Hourly Operated Rate

Rubber Tired - Hydraulic (Wheeled)	100%	97%	90%
1/2 cy / 0.38 m3 to 5/8 cy / 0.48 m3	\$99.85	\$97.16	\$89.87
3/4 cy / 0.57 m3 to 7/8 cy / 0.67 m3	\$113.74	\$110.67	\$102.36

FRONT END LOADERS

Hourly Operated Rate

Crawler type, Bucket (S.A.E. Heaped)	100%	97%	90%
Under 1.00 cy or 0.76 m3	\$45.34	\$44.12	\$40.81
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	\$65.34	\$63.57	\$58.80
1.50 cy / 1.14 m3 to 1.75 cy / 1.35 m3	\$70.62	\$68.71	\$63.55
1.75 cy / 1.35 m3 to 2.00 cy / 1.53 m3	\$79.64	\$77.49	\$71.68
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	\$85.35	\$83.04	\$76.81
2.50 cy / 1.92 m3 to 3.50 cy / 2.68 m3	\$106.69	\$103.81	\$96.02
3.50 cy / 2.68 m3 and up	\$126.14	\$122.74	\$113.53

Hourly Operated Rate

Rubber Tired	100%	97%	90%
Under 1.00 cy or 0.76 m3	\$56.01	\$54.50	\$50.41
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	\$66.69	\$64.89	\$60.02
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	\$70.69	\$68.78	\$63.62
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	\$78.01	\$75.90	\$70.20
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3	\$90.11	\$87.68	\$81.10
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3	\$114.32	\$111.23	\$102.89
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3	\$124.12	\$120.77	\$111.72
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3	\$133.93	\$130.31	\$120.54
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3	\$153.56	\$149.42	\$138.21
5.50 cy / 4.21 m3 to 6.00 cy / 4.59 m3	\$164.75	\$160.30	\$148.27
over 5.5 cy / 4.21 m3	\$175.93	\$171.18	\$158.34

MOTOR GRADERS

Hourly Operated Rate

Net Flywheel Horse Power	100%	97%	90%
50 - 70	\$36.02	\$35.04	\$32.41
71 - 90	\$40.00	\$38.92	\$36.00
91 - 100	\$57.74	\$56.18	\$51.96
111 - 130	\$73.51	\$71.52	\$66.16
131 - 150	\$79.50	\$77.35	\$71.55
151 - 170	\$91.73	\$89.25	\$82.56
171 - 190	\$98.03	\$95.38	\$88.22
191 - 220	\$103.74	\$100.94	\$93.36
Over 210	\$111.44	\$108.43	\$100.29

Note: Extra for Articulation or Equivalent

Up to 135	\$9.51	\$9.26	\$8.56
136 - 150	\$11.89	\$11.56	\$10.70
Over 150	\$14.27	\$13.88	\$12.84

MOTOR GRADERS Continued

Two wheel tractor, Two wheel Scraper, Single Engine Drive SAE Struck Capacity	Hourly Operated Rate		
	100%	97%	90%
10 - 13 c.y.	\$102.68	\$99.91	\$92.41
14 - 20 c.y.	\$148.04	\$144.04	\$133.23
21 - 25 c.y.	\$255.56	\$248.66	\$230.01

Twin engine, all wheel drive SAE Struck Capacity	Hourly Operated Rate		
	100%	97%	90%
14 - 21 c.y.	\$236.77	\$230.38	\$213.10
22 - 31 c.y.	\$311.33	\$302.92	\$280.19

Self loading, elevating motor scraper Complete Unit. SAE Heaped Capacity	Hourly Operated Rate		
	100%	97%	90%
8 - 11 c.y.	\$103.82	\$101.02	\$93.44
12 - 15 c.y.	\$123.46	\$120.13	\$111.11
21 - 25 c.y.	\$206.42	\$200.85	\$185.78

PILE DRIVING EQUIPMENT

Diesel Hammers	Monthly Operated Rate			Weekly Operated Rate		
	100%	97%	90%	100%	97%	90%
16,000 ft-lbs	\$4,382.28	\$4,263.96	\$3,944.05	\$1,627.16	\$1,583.23	\$1,464.44
22,400 ft-lbs	\$5,382.60	\$5,237.27	\$4,844.34	\$2,000.62	\$1,946.60	\$1,800.56
22,500 ft-lbs	\$7,192.66	\$6,998.46	\$6,473.39	\$2,667.48	\$2,595.46	\$2,400.73
32,000 ft-lbs	\$10,312.68	\$10,034.23	\$9,281.41	\$3,769.37	\$3,667.59	\$3,392.43
39,700 ft-lbs	\$12,718.16	\$12,374.77	\$11,446.35	\$4,748.10	\$4,619.90	\$4,273.29
54,250 ft-lbs	\$14,980.78	\$14,576.30	\$13,482.71	\$5,575.03	\$5,424.50	\$5,017.52

PUMPS

C/W Suction hose & discharge hose	Hourly Non-Operated Rate		
	100%	97%	90%
3" diaphragm	\$5.33	\$5.18	\$4.80
4" diaphragm	\$8.00	\$7.78	\$7.20
2" electric submersible	\$3.65	\$3.55	\$3.29
3" electric submersible	\$6.14	\$5.97	\$5.52
4" electric submersible	\$12.27	\$11.94	\$11.04
6" electric submersible	\$18.44	\$17.94	\$16.60
8" electric submersible	\$31.41	\$30.56	\$28.27

PUMPS Continued

	Hourly Non-Operated Rate		
C/W 20' of section hose & discharge	100%	97%	90%
2" centrifugal	\$3.99	\$3.88	\$3.59
3" centrifugal	\$5.33	\$5.18	\$4.80
4" centrifugal	\$9.59	\$9.33	\$8.63
6" centrifugal	\$16.38	\$15.94	\$14.74
8" centrifugal	\$19.99	\$19.46	\$18.00

SCALES

	Hourly Non-Operated Rate		
Scales - Platform Truck	100%	97%	90%
15 ton	\$5.51	\$5.37	\$4.96
20 ton	\$7.13	\$6.94	\$6.42
25 ton	\$9.97	\$9.70	\$8.98
30 ton	\$12.13	\$11.81	\$10.92
40 ton	\$14.24	\$13.86	\$12.82
50 ton	\$16.39	\$15.95	\$14.75
60 ton	\$19.97	\$19.43	\$17.97
80 ton	\$27.02	\$26.29	\$24.32
100 ton	\$28.51	\$27.74	\$25.66

SKID STEER LOADER

	Hourly Operated Rate		
Skid Steer Loader	100%	97%	90%
50 to 60 net Hp	\$45.83	\$44.46	\$41.25

Note: Add \$20.00 per hour for a tracked Skid Steer Loader if required to complete the assigned work. If a contractor chooses to supply a tracked Loader and the tracks are not a necessary requirement, the Loader will be paid at the hourly rate quoted above

Attachments	100%	97%	90%
Pick up Broom/ Sweeper	\$30.00	\$29.10	\$27.00
Broom / Sweeper	\$20.00	\$19.40	\$18.00
Auger / Post Hole	\$15.00	\$14.55	\$13.50
Brush Cutter	\$15.00	\$14.55	\$13.50
Excavator	\$15.00	\$14.55	\$13.50
Forks	\$5.00	\$4.85	\$4.50

For other misc attachments, which are not listed above, and have been requested by the Department , the contractor will be compensated \$5.00 per hour for hours worked

SNOW REMOVAL EQUIPMENT

Hourly Operated Rate

Truck Plows	100%	97%	90%
4 Wheel Drive c/w plow & wing	\$96.01	\$93.42	\$86.41
2 Wheel Drive c/w plow & wing	\$59.85	\$58.23	\$53.86

Hourly Operated Rate

Snow Blowers	100%	97%	90%
Self-propelled - large (4 wheel drive)	\$116.46	\$113.31	\$104.81
Self-propelled - small (2 wheel drive)	\$83.17	\$80.93	\$74.85

Hourly Operated Rate

Loader Mounted including Loader	100%	97%	90%
Less than 150 HP	\$88.03	\$85.65	\$79.22
150 HP or greater	\$143.30	\$139.42	\$128.97

Hourly Operated Rate

Plows, Loaders - Graders	100%	97%	90%
V-Plow	\$13.31	\$12.95	\$11.98
Hydraulic Wing	\$18.64	\$18.14	\$16.78
One-Way	\$13.31	\$12.95	\$11.98

TRACTOR

Hourly Operated Rate

Farm or Industrial Wheeled	Basic Tractor			Loader/Industrial Bucket		
	100%	97%	90%	100%	97%	90%
Horse Power						
Under 21	\$25.58	\$24.89	\$23.03	\$11.48	\$11.17	\$10.33
21 - 30	\$26.89	\$26.16	\$24.20	\$11.86	\$11.54	\$10.67
31 - 40	\$28.20	\$27.44	\$25.38	\$12.41	\$12.07	\$11.17
41 - 50	\$29.78	\$28.98	\$26.80	\$12.80	\$12.46	\$11.52
51 - 60	\$31.06	\$30.22	\$27.95	\$13.07	\$12.71	\$11.76
61 - 70	\$32.46	\$31.59	\$29.22	\$13.31	\$12.95	\$11.98
71 - 80	\$34.04	\$33.12	\$30.64	\$13.71	\$13.34	\$12.34
81 - 90	\$35.35	\$34.39	\$31.81	\$14.24	\$13.86	\$12.82
91 - 100	\$36.80	\$35.80	\$33.12	\$14.80	\$14.40	\$13.32
101 - 110	\$37.63	\$36.61	\$33.87	\$15.05	\$14.65	\$13.55
111 - 120	\$39.53	\$38.46	\$35.58	\$15.47	\$15.06	\$13.93
121 - 130	\$40.81	\$39.71	\$36.73	\$15.86	\$15.43	\$14.27
131 - 150	\$43.57	\$42.39	\$39.21	\$16.83	\$16.37	\$15.15
151 - 175	\$46.92	\$45.65	\$42.23	\$18.14	\$17.65	\$16.33
176 - 200	\$50.14	\$48.78	\$45.12	\$22.14	\$21.55	\$19.93

Hourly Rate

Other Attachments	100%	97%	90%
Drag	\$2.00	\$1.94	\$1.80
Blades	\$2.00	\$1.94	\$1.80
Buckets (snow, etc.)	\$3.30	\$3.21	\$2.97
Mowers (cutter bar)	\$3.83	\$3.72	\$3.44
Mowers (rotary)	\$5.71	\$5.56	\$5.14
Snow Blower	\$6.46	\$6.28	\$5.81
Post Hole Digger	\$3.30	\$3.21	\$2.97
Tractor Mounted Broom 6 - 8'	\$11.43	\$11.12	\$10.28

TRUCKS

Operated Rate

Trucks for Maintenance Work		Hourly
Dump Trucks reg for 13,400 kg min allowable		\$29.81
Tandem Truck-min reg weight of 22,500 kg		\$44.84
Single Axle Truck-min reg weight of 13,400 kg		\$29.81

Non-Operated Rate

Service Trucks		Hourly
1/4 ton Service Truck		\$8.39
1/4 ton Service Truck with tow behind		\$10.14
1/2 ton Service Truck		\$10.49
1/2 ton Service Truck with tow behind		\$12.37

Operated Rate

Water Truck		Hourly
Water truck c/w tank and pump - Tandem		\$50.78
Water truck c/w tank and pump - 3 tonne		\$35.13

Hourly Operated Rate

Boom Trucks	100%	97%	90%
Single Axle Truck	\$52.00	\$50.60	\$46.80
Tandem Axle Truck	\$66.68	\$64.88	\$60.01

Hourly Operated Rate

Distributor with Truck	100%	97%	90%
1000 gal. U.S.	\$67.61	\$65.78	\$60.85
1500 gal. U.S.	\$69.15	\$67.28	\$62.24
2000 gal. U.S.	\$75.82	\$73.77	\$68.24
2500 gal. U.S.	\$78.10	\$76.00	\$70.29

Hourly Operated Rate

Off Highway	100%	97%	90%
22 ton	\$130.69	\$127.16	\$117.62
28 ton	\$160.02	\$155.70	\$144.02
35 ton and over	\$189.38	\$184.27	\$170.44

Hourly Operated Rate

Tractor and Float	100%	97%	90%
Up to 15 ton	\$59.74	\$58.12	\$53.76
Tandem 16 - 20 ton	\$73.36	\$71.38	\$66.02
Tandem 21 - 25 ton	\$91.08	\$88.62	\$81.97
Tandem 26 - 35 ton	\$101.35	\$98.62	\$91.22
Tandem 36 - 45 ton	\$112.03	\$109.01	\$100.83
Triaxle 46 - 55 ton	\$123.19	\$119.86	\$110.87
Triaxle 56 - 65 ton	\$135.13	\$131.49	\$121.62

Hourly Operated Rate

Truck and Tag Along Trailor	100%	97%	90%
Up to 20 ton	\$57.35	\$55.80	\$51.62

WELDERS

Hourly Non-Operated Rate

Electric Arc Welders	100%	97%	90%
100 - 200 amps	\$4.21	\$4.10	\$3.79
200 - 300 amps	\$6.68	\$6.50	\$6.01
300 - 400 amps	\$8.90	\$8.66	\$8.01
400 - 600 amps	\$12.08	\$11.76	\$10.88

Engine driven rods extra.

EQUIPMENT SPECIFICATIONS

Backhoe Loader - Rubber Tired

- With Front end loader (backhoe combination: complete with standard hoe and loader bucket)

Key Specifications		Rubber Tired Backhoe Make - Model - HP - CY / M3 - Year							
HP Range	Nominal Bucket c.y./m3	Allis Chambers				Case			
< 50	0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3					480 D	47 hp	0.88 cy / 0.67 m3	1980 - 1986
51 - 65	0.63 cy / 0.48 m3 to 1.00 cy / 0.76 m3	715 B				480 E 480 F 580 C 580 D 580 SD 580 SE	63 hp 63 hp 55 hp 55 hp 60 hp 63 hp	0.88 cy / 0.67 m3 1.00 cy / 0.76 m3 0.63 cy / 0.48 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3	1987 - 1988 - 1975 - 1981 1980 - 1985 1980 - 1985 1983 - 1987
66 - 79	1.00 cy / 0.76 m3 to 1.25 cy / 0.96 m3					580 D Trbo 580 K 580 SK Trbo 580 M 580 M Trbo 680 C	78 hp 67 hp 70 hp 76 hp 80 hp 74 hp	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3	1983 - 1987 - 1991 - 2004 - 2004 - 1971 -
80 - 99	1.25 cy / 0.96 m3 to 1.50 cy / 1.14 m3					580 SM 580 SM Plus 590 Turbo 590 SM 680 E 680 G 680 H 680 K 680 L	90 hp 90 hp 86 hp 98 hp 80 hp 80 hp 80 hp 90 hp 90 hp	1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.55 cy / 1.14 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3	2004 - 2004 - 1991 - 2004 - 1974 - 1978 1978 - 1981 1980 - 1985 1984 - 1988 -
> 100	1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3					780 B 780 C 780 D	111 hp 112 hp 112 hp	1.75 cy / 1.34 m3 1.75 cy / 1.34 m3 1.75 cy / 1.34 m3	1981 - 1985 1984 - 1989 -

Backhoe Loader - Rubber Tired continued

Key Specifications		Rubber Tired Backhoe Make - Model - HP - CY / M3 - Year							
HP Range	Nominal Bucket c.y./m3	CAT				Continental Diversified Sales			
< 50	0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3								
51 - 65	0.63 cy / 0.48 m3 to 1.00 cy / 0.76 m3	416							
66 - 79	1.00 cy / 0.76 m3 to 1.25 cy / 0.96 m3	416 B 416 C 416 D 416 E	74 hp 75 hp 75 hp 74 hp	1.00 cy / 0.76 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.00 cy / 0.76 m3	1992 - 1996 - 2001 -	714 D 715 D			
80 - 99	1.25 cy / 0.96 m3 to 1.50 cy / 1.14 m3	420 D 420 D IT 420 E 420 E IT 426 426 C 428 C 430 D 430 D IT 430 E 430 E IT 436 B	85 hp 89 hp 93 hp 89 hp 80 hp 75 hp 94 hp 97 hp 97 hp 97 hp	1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.30 cy / 0.99 m3 1.31 cy / 1.00 m3 1.31 cy / 1.00 m3 1.31 cy / 1.00 m3 1.31 cy / 1.00 m3	2001 - 2002 - 1991 - 2000 - 1994 -				
> 100	1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	446 B 446 D	102 hp 102 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3	1995 - 2002 -				

Backhoe Loader - Rubber Tired continued

Key Specifications		Rubber Tired Backhoe Make - Model - HP - CY / M3 - Year							
HP Range	Nominal Bucket c.y./m3	Dynahoe				Ford - New Holland			
< 50	0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3					340 B 445 A 3500			
51 - 65	0.63 cy / 0.48 m3 to 1.00 cy / 0.76 m3					345 C 445 C 445 D 545 D 575 D	65 hp		1981 - 1994 -
66 - 79	1.00 cy / 0.76 m3 to 1.25 cy / 0.96 m3					555 C 555 D 555 E 655 E	75 hp 75 hp		1990 - 1994 - 1999 - 2001 -
80 - 99	1.25 cy / 0.96 m3 to 1.50 cy / 1.14 m3	160 160 III 190 190 III	95 hp 95 hp 95 hp 95 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3		LB 75.B LB 75.B Trbo LB 90 B 95 B 95 TC B 95 LR LB 95.B	85 hp 89 hp 93 hp 95 hp 95 hp 95 hp 95 hp	1.30 cy / 0.99 m3 1.30 cy / 0.99 m3 1.30 cy / 0.99 m3 1.10 cy / 0.84 m3 1.30 cy / 0.99 m3 1.10 cy / 0.84 m3 1.30 cy / 0.99 m3	2003 - 2005 - 2002 - 2005 - 2005 - 2005 -
> 100	1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	290 490 190 - 4 190 - 4III 200 - 4 200 - 4III	109 hp 120 hp 120 hp 120 hp 160 hp 160 hp	1.63 cy / 1.25 m3 1.75 cy / 1.34 m3 1.75 cy / 1.34 m3 1.75 cy / 1.34 m3 2.25 cy / 1.72 m3 2.25 cy / 1.72 m3	1990 - 1990 - 1985 - 1988 1985 - 1988 1980 - 1983	LB 90.B LB 110 LB 110.B B 110 LB 115.B B115	100 hp 103 hp 110 hp 110 hp 108 hp 110 hp	1.30 cy / 0.99 m3 1.30 cy / 0.99 m3 1.30 cy / 0.99 m3 1.30 cy / 0.99 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3	2001 - 2005 - 2004 -

Backhoe Loader - Rubber Tired continued

Key Specifications		Rubber Tired Backhoe Make - Model - HP - CY / M3 - Year							
HP Range	Nominal Bucket c.y./m3	International (Dresser)				J C B			
< 50	0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3								
51 - 65	0.63 cy / 0.48 m3 to 1.38 cy / 1.06 m3	2424				3 CX 1400 B 1500 B 1600 B 1700 B 214 - 4wd 214 E-2wd 214 E-4wd 214 S-4wd/4ws 215 - 4wd 215 S- 4wd/4ws 217 - 4wd 217 S-4wd/4ws	83 hp 70 hp 80 hp 90 hp 95 hp 86 hp 92 hp 92 hp 86 hp 92 hp 92 hp 92 hp	1.10 cy / 0.84 m3 1.00 cy / 0.76 m3 1.25 cy / 0.96 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.40 cy / 1.07 m3 1.40 cy / 1.07 m3 1.30 cy / 0.99 m3 1.30 cy / 0.99 m3	1984 - 1985 - 1985 - 1985 - 1985 - 1996 - 2000 - 2000 - 1997 - 1999 - 1999 - 1999 - 1999 -
66 - 79	1.00 cy / 0.76 m3 to 1.25 cy / 0.96 m3	260 A 500 A							
80 - 99	1.25 cy / 0.96 m3 to 1.50 cy / 1.14 m3	3820				3820			
> 100	1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	4100				4100			

Backhoe Loader - Rubber Tired continued

Key Specifications		Rubber Tired Backhoe Make - Model - HP - CY / M3 - Year							
HP Range	Nominal Bucket c.y./m3	John Deere				Massey Ferguson			
< 50	0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3	110 TLB 300 B 302 A	46 hp 43 hp 50 hp	0.75 cy / 0.57 m3 0.75 cy / 0.57 m3	2004 - 1974 - 1983 1974 - 1984	MF 30 B MF 30 D MF 30 E MF 30 H	42 hp 45 hp 48 hp 48 hp	0.75 cy / 0.57 m3 0.75 cy / 0.57 m3 0.75 cy / 0.57 m3 0.75 cy / 0.57 m3	1980 - 1983 1982 - 1983 1984 - 1987 1986 - 1987
51 - 65	0.63 cy / 0.48 m3 to 1.00 cy / 0.76 m3	210 C 300 D 310 A 310 B 310 C 410 410 B	55 hp 60 hp 58 hp 58 hp 65 hp 62 hp 62 hp	0.88 vy / 0.67 m3 0.88 vy / 0.67 m3 0.75 cy / 0.57 m3 0.75 cy / 0.57 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3	1986 - 1976 - 1981 1982 - 1985 1986 - 1991 1971 - 1982 1986 - 1991 1971 - 1984	MF 40 B MF 50 C MF 50 D MF 50 E-2wd MF 50 E-4wd MF 50 F-2wd MF 50 F-4wd MF 50 H-2wd MF 50 H-4wd	54 hp 62 hp 62 hp 65 hp 65 hp 65 hp 65 hp 65 hp 65 hp 65 hp	0.75 cy / 0.57 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3	1980 - 1983 1980 - 1983 1982 - 1983 1984 - 1984 - 1984 - 1985 1984 - 1985 1985 - 1985 -
66 - 79	1.00 cy / 0.76 m3 to 1.25 cy / 0.96 m3	310 D 310 G 410 C 510 B	70 hp 70 hp 75 hp 70 hp	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.25 cy / 0.96 m3	1983 - 1985 2001 - 1971 - 1983 1987 - 1991	MF 50 HX-2wd MF 50 HX-4wd MF 60 MF 60 H-4wd	74 hp 74 hp 68 hp 74 hp	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.05 cy / 0.80 m3	1984 - 1984 - 1980 - 1982 1986 -
80 - 99	1.25 cy / 0.96 m3 to 1.50 cy / 1.14 m3	310 SG 315 SG 410D 410 E 410G 500 C 510 510 C 510 D 610 B 610 C	86 hp 86 hp 85 hp 90 hp 92 hp 80 hp 80 hp 85 hp 95 hp 80 hp 95 hp	1.12 cy / 0.86 m3 1.30 cy / 0.99 m3 1.00 cy / 0.76 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.00 cy / 0.76 m3 1.12 cy / 0.86 m3 1.25 cy / 0.96 m3 1.30 cy / 0.99 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3	2000 - 2004 - 1983 - 1986 1997 - 2001 - 1987 - 1991 1984 - 1986 1983 - 1988 1988 - 1993	MF 70	84 hp	1.50 cy / 1.14 m3	
> 100	1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	710 B 710 C 710 D 710 G	105 hp 115 hp 115 hp 118 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.62 cy / 1.24 m3	2001 -	MF 80	100 hp	1.75 cy / 1.34 m3	

Backhoe Loader - Rubber Tired continued

Key Specifications		Rubber Tired Backhoe Make - Model - HP - CY / M3 - Year							
HP Range	Nominal Bucket c.y./m3	Volvo							
< 50	0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3								
51 - 65	0.63 cy / 0.48 m3 to 1.38 cy / 1.06 m3								
66 - 79	1.00 cy / 0.76 m3 to 1.25 cy / 0.96 m3								
80 - 99	1.25 cy / 0.96 m3 to 1.50 cy / 1.14 m3	BL 60 BL 61 BL 70 BL 71	83 hp 83 hp 90 hp 90 hp	1.25 cy / 0.96 m3 1.30 cy / 0.99 m3 1.30 cy / 0.99 m3 1.30 cy / 0.99 m3	2004 - 2003 -				
> 100	1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3								

Dozer

(Crawler Mounted, diesel, complete unit with power tilt blade.

Power shift machines rated by net engine HP and direct drive machines rated by draw bar HP)

Key Specifications	Tractor Dozer Make - Model - HP - Weight - Year							
Net Flywheel	Case				Cat			
40 hp - 60 hp	350450	45 hp 53 hp						
61 hp - 74 hp	550 E 550 G 550 G LT 550 LGP 550 H 650 K 850 B	67 hp 67 hp 67 hp 67 hp 67 hp 74.8 hp 72 hp			D3 D3 C D3 G D4 C	62hp 67hp 70 hp 65hp	17,160 lbs	1973 - 1979 1979 - 1959 - 1963
75 hp - 100 hp	650 650 G 750 K 850 D 850 G 850 G LGP 850 K	80 hp 80 hp 81 hp 82 hp 89 hp 89 hp 76 hp			D4 E D4 G D4 H Ser 11 D5 G D5 C D5C Ser 111 LGP D5C ser 111 XL	75 hp 80 hp 95 hp 90 hp 90 hp 91 hp 91 hp	18,073 lbs 20,034 lbs	1978 -
101 hp - 129 hp	1150 B 1150 E 1150G LGP 1150 H	105 hp 113 hp 118 hp 119 hp			D4H 111LGP D4H 111 XL D5 B D5 N D 5 H	105 hp 105 hp 105 hp 121 hp 120 hp	28,022 lbs	
130 hp - 159 hp	1450 B 1550 1550 LT 1550 LGP 1650 K	130 hp 150 hp 140 hp			D6 N D6N FA	150 hp 145 hp	35,020 lbs 38,113 lbs	
160 hp - 199 hp	1850 K	180 hp		2002 -	D6 R ser 11 D7 E D6H	185 hp 160hp to 180 hp 165 hp	40,400 lbs	1961 - 1969

Dozer continued

Key Specifications	Tractor Dozer Make - Model - HP - Weight - Year							
Net Flywheel	Case (continued)				Cat (continued)			
200 hp - 249 hp					D7 G D7 H D7 R ser 11	200 hp 215 hp 240 hp	55,786 lbs	1974 -
250 hp - 349 hp					D8 K D8 H(36A) D8 N	300 hp 270 hp 285 hp		1974 - 1985 1958 - 1974 1986 -
350 hp - 399 hp					D9 G D9 N	385 hp 370 hp		
400 hp and up					D9 H	410 hp		

Dozer continued

Key Specifications	Tractor Dozer Make - Model - HP - Weight - Year							
Net Flywheel	Fiat Ellis				International			
40 hp - 60 hp					TD 6			
61 hp - 74 hp	FD 5	70 hp		1982 -	TD 7 E TD 7 G TD 7 H TD 9	65 hp 70 hp 70 hp 43 hp		- 1974 1987 - 1992 - 1940 - 1956
75 hp - 100 hp	FD 5 LGP HD 8 HD 8 B FD 5 LT FD 7	87 hp 88 hp 84 hp		1979 - 1985 1983 -	TD 8 E TD 8 G TD 8 H TD 9 B TD 9H	78 hp 80 hp 80 hp 66 hp 90 hp		1974 - 1985 1987 - 1992 - 1962 - 1974 1993 -
101 hp - 129 hp	HD 10 C HD 10 HD 10 B HD 11 B FD 10 E FD 145	122 hp 128 hp 125 hp		1991 - 1993 -	TD 15 TD 12 TD 12 C TD 12T	105 hp 110 hp 140 hp 110 hp		1958 - 1961 1981 - 1992 - 1981 -
130 hp - 159 hp	FD 11 B FD 14 C	140 hp 150 hp		-1975	TD 15 C (ps) TD 15GD(B)	140 hp 140 hp		1985 - 1985 -
160 hp - 199 hp	FD 14 E FD 175 FD 16 B	168 hp 167 hp 195 hp		1989 - 1993 -	TD 20 C TD 15 E TD 15 LT TD 15 LGP	165 hp 165 hp		1986 - 1986 -
200 hp - 249 hp	FD 20	223 hp		1951 - 1955	TD 20 E TD 2 DG	210 hp		1974 - 1986
250 hp - 349 hp	FD 21 C FD 30 FD 30 B	300 hp 300 hp		1975 - 1981 1980 -	TD 25 C TD 25 G TD 25 E TD 20 G - Drawbart TD 20 G - DrawbartLGP	310 hp 320 hp 310 hp		1985 -
350 hp - 399 hp								
400 hp and up	HD 31 FD 41 B	425 hp 524 hp			TD 40	460 hp		1985 -

Dozer continued

Key Specifications	Tractor Dozer Make - Model - HP - Weight - Year							
Net Flywheel	John Deere				Komatsu			
40 hp - 60 hp	350 C 350 D 400 G	45 hp 48 hp 60 hp		1974 - 1986 1986 - 1987 - 1991	D 20 P-6 D 20 A-6 D 20 Pl-6 D 21 A-6 D 21 E-6 D 21 P-6 D 21 P-7	40 hp 40 hp 40 hp 40 hp 44 hp 40 hp 40 hp		1986 - 1992 1986 - 1992 1992 -
61 hp - 74 hp	450 C 450 E 450 G 450 G LT 450 G LGP 550	65 hp 70 hp 70 hp 70 hp 70 hp 72 hp		1970 - 1974 1985 - 1987 1986 - 1987 - 1991 1975 - 1983	D 31 A D 31 E 18 D 31 E 20 D-31 P 18	70 hp 70 hp 70 hp		1986 - 1992 1992 -
75 hp - 100 hp	550 A 550 B 550 G 550 G series iv 650 G 650 G series iv 650 G LGP series iv	78 hp 78 hp 80 hp 80 hp 90 hp 90 hp 90 hp		1983 - 1985 1985 - 1987 1987 - 1987 -	D 37 E-2 D 37 E-5 D 37 P-2 D 37 P-5 D 40 A-3 D 41 A-3 D 41 P-3	80 hp 80 hp 80 hp 80 hp 90 hp 90 hp 90 hp		
101 hp - 129 hp	750 750 B 750 C 750 BNG	110 hp 120 hp 140 hp 120 hp		1976 - 1985 1985 - 1985 -	D 41 E D 50 A-17 D 53 A-17 D 53 P-17	105 hp 120 hp 124 hp 124 hp		
130 hp - 159 hp	850 750 B Lg Track 750 B LGP 750 C LGP	145 hp 140 hp 140 hp 140 hp		1978 - 1985 1989 -	D 58 P-1 D 58 P-1B D 58 E-1 D 63 E-1 D 65 A-8 D 68P-1	130 hp 130 hp 130 hp 140 hp 155 hp 135 hp		
160 hp - 199 hp	850 B 850 B LT 850 B LGP 850 C 850 C LGP	165 hp 165 hp 165 hp 180 hp 180 hp		1985 - 1985 - 1985 -	D 60 E-8 D 65 E-8 D 65 P-8 KBD 65 E-6 D 68 E-1 D 65 EX-12 D 65 PX-12	170 hp 165 hp 165 hp 160 hp 180 hp 190 hp 190 hp		

Dozer continued

Key Specifications	Tractor Dozer Make - Model - HP - Weight - Year							
Net Flywheel	John Deere (continued)				Komatsu (continued)			
200 hp - 249 hp					D 60 F D 68 E-1 D 75 A-1 D 85 A-21B D 85 E-21 D 85 P K 85 P-21 L 85 A-21	205 hp 200 hp 225 hp 225 hp 225 hp 225 hp		
250 hp - 349 hp					D 80 F D 135 A-2 D 155 A-2 D 155 AX3	285 hp 320 hp 302 hp		
350 hp - 399 hp								
400 hp and up					D 355 A-3 D 355 A-5 D 375 A-2 D 455 A D 475 A-2 D 575 A	410 hp 410 hp 770 hp		

Dozer continued

Key Specifications	Tractor Dozer Make - Model - HP - Weight - Year							
Net Flywheel	Leibherr				Massey Ferguson			
40 hp - 60 hp					200 B 200 C	44hp		
61 hp - 74 hp					300	63hp		
75 hp - 100 hp	PR 712				400 400 C	85hp		-1975
101 hp - 129 hp	PR 722				500 B	125hp		-1975
130 hp - 159 hp					600C 600 D	144hp 151hp		
160 hp - 199 hp	PR 732				700 C	180hp		
200 hp - 249 hp	PR 742				700 D	210hp		
250 hp - 349 hp	PR 751							
350 hp - 399 hp								
400 hp and up								

Excavators - Hydraulic (Crawler Mounted)

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year								
Standard Bucket c.y./m3	Group Average Weight	Bantam /Koehring				Case -/Poulan Drott				
Under 0.38 cy / 0.29 m3	Under 29,000 lbs / 13,200 kg	S 155 C 166 C 450 C 450 A T 450 T 450 A C 451 T 451 T 644 6601 6608 6612 4465 4475 4470					T Y 45 T P 45 888 880 B 880 C 880 D 880 R L Y 80 L C 80 L Y 2 P 9010 9010 B 900 7B	0.43 m3 - 0.96m3 0.43 m3 - 0.96m3 0.63 cy /0.48m3 0.48 cy /0.37m3 0.92cy/0.70m3 0.54 cy/0.41m3	28,000 lbs 15,212 lbs	1980 - 1981 1981 - 1984 1985 - 1989
0.38 cy / 0.29 m3 to 0.50 cy / 0.38 m3	29,000 lbs / 13,200 kg to 35,000 lbs / 15,900 kg	T 725 5724 A C 166 C 725 A 166 6614 4475				35 D 35 E 40 D 40 E 9020 9020B 1085 C	0.75 cy /0.57m3 0.38 m3 - 0.86m3 0.38 m3 - 0.86m3	35,274 lb	-1984	
0.50 cy / 0.38 m3 to 0.63 cy / 0.48 m3	35,000 lbs / 15,900 kg to 41,000 lbs / 18,600 kg	T 744 C 744 4470 4475				40 E 680 888 980 980 B 1080 L C 1088 1088 C	0.75 cy /0.57m3 1.00 cy /0.77m3 0.95 cy /0.73m3		1988 - 1992 1975 - 1983 1989 - 1992	

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Bantam /Koehring (continued)				Case - Poulan Drott (continued)			
0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3	41,000 lbs / 18,600 kg to 48,000 lbs / 21,800 kg	C 260 C 266 C 475 6620				115 CL 170 B 50 50 D 1080 1080 B 1080 LC 9030 9030B 9030B narrow	1.00 cy /0.76m3 0.75 cy /0.57m3 1.00 cy /0.77m3 1.12 cy /0.86m3 1.38cy / 1.06m3 1.38cy / 1.06m3	44,540 lbs 44,000 lbs	1986 - 1989 1984 - 1986 1986 - 1989
0.75 cy / 0.57 m3 to 1.50 cy / 1.15 m3	48,000 lbs / 21,800 kg to 55,000 lbs / 24,900 kg	266 C 366 C 266				SC 150 125 B 50 E 1280 1280 B 9040 9040B	1.63 cy /1.25m3 1.25 cy /0.96m3 1.25 cy /0.96m3 1.00 cy /0.77m3 1.16 cy /0.89m3 1.82 cy /1.39m3	53,140 lbs	1986 - 1992 1981 - 1983 1983 - 1984 1985 - 1986
1.50 cy / 1.15 m3 to 1.75 cy / 1.34 m3	55,000 lbs / 24,900 kg to 65,000 lbs / 29,500 kg	366 466 D C 366 6627 6625				160 (Proclain) 170 C 9045B	1.62 cy /1.24m3 1.82cy /1.39m3	62,300 lbs	1987 - 1992

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Bantam /Koehring (continued)				Case - Poulan Drott (continued)			
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	65,000 lbs / 29,500 kg to 75,000 lbs / 34,000 kg	6633 6633 LC				80 170 B RC 200 RC 200 L 170 C 9050 9050B	1.20 cy /0.92m3 2.74cy / 2.10m3	73,590 lbs	
over 2.50 cy / 1.91 m3	over 90,000 lbs / 40,800 kg	466 E 566 666 666 D 666 E 6644				220 (Proclain) 220 B 220 C 220 S 120 120 C HC 300 HC 300 L 300 C 9060 9060 B	2.00cy/1.53m3 1.85 cy /1.41m3 4.17 cy/ 3.18m3		1986 - 1992

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	CAT				Fiat Allis			
Under 0.38 cy / 0.29 m3	Under 29,000 lbs / 13,200 kg	E 110 205 B 205 LC 206 307 C 307 C SB 311 312 370 370 B E 110 B E 120 B	0.68 cy /0.52m3 0.68 cy /0.52m3 0.68 cy /0.52m3 0.37 cy /0.28m3 0.59 cy /0.45m3	15,895 lbs 18,479 lbs	1986 - 1991 - 1994 - 1994	FH 120	1.06 cy /0.81m3		-1993
0.38 cy / 0.29 m3 to 0.50 cy / 0.38 m3	29,000 lbs / 13,200 kg to 35,000 lbs / 15,900 kg	211 211 BLC 211 LC 212 213 E 140 214 B 3120 B	0.68 cy /0.52m3 0.68 cy /0.52m3 0.32 cy /0.25m3	1984 - 1987 1987 - 1991 1984 - 1987		FE 18 FE 18 LC	0.88 cy /0.67m3 0.75 cy /0.57m3		1981 - 1986 1986 - 1988
0.50 cy / 0.38 m3 to 0.63 cy / 0.48 m3	35,000 lbs / 15,900 kg to 41,000 lbs / 18,600 kg	E 200 B 213 LC 213 B 213 BLC 214 B 214 FT 214 215 B 215 BSA 215 BLC	1.00 cy /0.77m3 0.32 cy /0.25m3 0.91 cy /0.70m3 1.00 cy /0.77m3		- 1992 1984 - 1989 1985 - 1992 1984 - 1987	FE 20			

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	CAT (continued)				Fiat Allis (continued)			
0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3	41,000 lbs / 18,600 kg to 48,000 lbs / 21,800 kg	224 224 B 215 SA E 180 320 320 N 219 D EL 180 214 B 219 215 DLC EL 200 B 215 C LC E 200 B 320 L	1.00 cy /0.77m3 0.50 cy /0.38m3 1.00 cy /0.77m3 1.00 cy /0.77m3 0.50 cy /0.38m3 1.00 cy /0.77m3 1.00 cy /0.77m3 1.00 cy /0.77m3 1.00 cy /0.77m3		1987 - 1988 - 1992 1987 - 1988 1987 - 1989 - 1992 1987 - 1992 1987 - 1990 1988 -	FH 200 LC FH 200 FE 20 HD FE 20 LC FX 210 LC	1.06 cy /0.81m3 1.06 cy /0.81m3 0.88 cy /0.67m3 0.88 cy /0.67m3 0.27m3 - 1.31 m3		- 1993 - 1993 1981 - 1986 1982 -
0.75 cy / 0.57 m3 to 1.50 cy / 1.15 m3	48,000 lbs / 21,800 kg to 55,000 lbs / 24,900 kg	E 240 E 240 B E 240 C 225 225 LC 219 DLC 219 LC EL 240 EL 240 B EL 240 C	1.25 cy /0.96m3 1.00 cy /0.77m3 1.25 cy /0.96m3 0.75 cy /0.57m3 0.50 cy /0.38m3 1.00 cy /0.77m3 1.50 y /1.15m3 1.00 cy /0.77m3 1.25 cy /0.96m3		1987 - 1990 - 1992 - 1984 - 1992 1988 - 1989 1987 - 1990 - 1992	FH 220 FH 220 LC	1.50 y /1.15m3 1.50 y /1.15m3		- 1993 - 1993
1.50 cy / 1.15 m3 to 1.75 cy / 1.34 m3	55,000 lbs / 24,900 kg to 65,000 lbs / 29,500 kg	225 229 225 BLC SA 180 225 B 325 (sacustum) 180 325 L 325 N	1.25 cy /0.96m3 1.50 cy /1.15m3 0.75 cy /0.57m3 0.75 cy /0.57m3 1.44 cy /1.10m3 1.44 cy /1.10m3		1972 - 1986 1986 - 1991 1986 - 1989 1986 - 1989	FE 28 FE 28 LC	1.50 cy /1.15m3 1.50 cy /1.15m3		1981 - 1986 1986 - 1989

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	CAT (continued)				Fiat Allis (continued)			
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	65,000 lbs / 29,500 kg to 75,000 lbs / 34,000 kg	235 E 300 EL 300 225 D 223 D-LC E 300 B 229 D 330 RB 325 EL 300 B 299 (custom)	1.88 cy /1.44m3 1.50 cy /1.15m3 1.50 cy /1.15m3 1.25 cy /0.96m3 1.25 cy /0.96m3 1.25 cy /0.96m3 1.83 cy /1.40m3 1.25 cy /0.96m3		1973 - 1985 1987 - 1989 1987 - 1989 - 1992 - 1992 - 1992 - 1992				
over 2.50 cy / 1.91 m3	over 90,000 lbs / 40,800 kg	235 B 235 C 231 D 231 D LC 245 245 B 245 D E 450 330 L 330 LN RB 330 235 D 235 SA 235 D LC 350 350 L 375 375 L	1.50 cy /1.15m3 2.00 cy /1.53m3 1.50 cy /1.15m3 1.50 cy /1.15m3 3.00 cy /2.29m3 3.13 cy /2.39m3 2.62 cy /2.00m3 1.83 cy /1.40m3 2.13 cy /1.63m3 2.13 cy /1.63m3 3.50 cy /2.68m3 3.00 cy /2.28m3 5.25 cy /4.01m3 4.25 cy /3.25m3		1985 - 1988 1988 - 1992 - 1994 - 1994 - 1994 1988 - 1990 - 1993 - 1994 - 1994	FE 40 L FH 400	2.00 cy /1.53 m3 1.66 cy /1.27m3		1984 - 1989 - 1991

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Gradall -Warner & Casey				Hydoe			
Under 0.38 cy / 0.29 m3	Under 29,000 lbs / 13,200 kg					380 480 485 580 590 600 2000 TT			
0.38 cy / 0.29 m3 to 0.50 cy / 0.38 m3	29,000 lbs / 13,200 kg to 35,000 lbs / 15,900 kg	G 440 G 660 G 3 W G 3 R G 3 WD				695 L			
0.50 cy / 0.38 m3 to 0.63 cy / 0.48 m3	35,000 lbs / 15,900 kg to 41,000 lbs / 18,600 kg	G 660 G 660 B 690 D				330 TT			
0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3	41,000 lbs / 18,600 kg to 48,000 lbs / 21,800 kg	XL 4100 G 660 E XL 4200				500 TT			

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Gradall -Warner & Casey (continued)				Hydoe (continued)			
0.75 cy / 0.57 m3 to 1.50 cy / 1.15 m3	48,000 lbs / 21,800 kg to 55,000 lbs / 24,900 kg	G 800 G 880 G 880 E G 880 B G 880 C							
1.50 cy / 1.15 m3 to 1.75 cy / 1.34 m3	55,000 lbs / 24,900 kg to 65,000 lbs / 29,500 kg	792 802 D 792 792 LC 892 E							
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	65,000 lbs / 29,500 kg to 75,000 lbs / 34,000 kg	892 D-LC 891 ELC				6000 TT			
over 2.50 cy / 1.91 m3	over 90,000 lbs / 40,800 kg	890 890 A 990 992 D 992 D-LC							

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	International - Dresser				John Deere			
Under 0.38 cy / 0.29 m3	Under 29,000 lbs / 13,200 kg	625 E LC	0.63 cy /0.48m3		1989 - 1990	30	0.10 cy/ 0.08m3	6,300 lbs	- 1993
		630	0.50 cy/0.38m3		1986 - 1988	50	0.16 cy /0.12m3	9,270 lbs	1986 - 1993
		635 W				70	0.31 cy /0.24m3	14,600 lbs	1986 - 1988
		3964				70 D	0.31 cy /0.24m3	14,020 lbs	1987 - 1993
		3664 B				190 E	0.19 cy /0.15m3	16,300 lbs	
		3965				490	0.50 cy /0.38m3	25,360 lbs	1984 - 1988
		3965 B				490 D	0.50 cy /0.38m3	27,430 lbs	1984 - 1988
		6120	0.75 cy /0.57m3			490 E	0.79 cy / 0.60m3	26,780 lbs	
						495 D		26,184 lbs	
						290 D	0.38 cy / 0.29 m3	20,743 lbs	1989 -
0.38 cy / 0.29 m3	29,000 lbs / 13,200 kg					690	0.75 cy / 0.57 m3		- 1972
to	to					690 A	0.75 cy / 0.57 m3		1971 - 1973
0.50 cy / 0.38 m3	35,000 lbs / 15,900 kg					590 D	0.63 cy / 0.48m3	33,180 lbs	1988 -
						595		37,100 lbs	
						595 DD			
0.50 cy / 0.38 m3	35,000 lbs / 15,900 kg	640	0.94 cy /0.72m3		1986 -1987	690 B	0.88 cy / 0.67m3		1974 - 1984
to	to	640 HD				690 C	0.56 cy / 0.43m3	40,894 lbs	1984 - 1987
0.63 cy / 0.48 m3	41,000 lbs / 18,600 kg	3984				690 D	0.88 cy / 0.67m3	40,690 lbs	1987 - 1991
0.63 cy / 0.48 m3	41,000 lbs / 18,600 kg	6200 LC	1.37 cy /1.05m3			690 D LC			
to	to					690 E LC			
0.75 cy / 0.57 m3	48,000 lbs / 21,800 kg								

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	International - Dresser (continued)				John Deere (continued)			
0.75 cy / 0.57 m3 to 1.50 cy / 1.15 m3	48,000 lbs / 21,800 kg to 55,000 lbs / 24,900 kg	650 6220 LC	1.49 cy /1.14m3			790 790 D 790 LC 790 DLC 790 ELC	1.00cy /0.77m3 1.00cy /0.77m3 1.75 cy / 1.34 m3	48,440 lbs 53,143 lbs 51,725 lbs	1984 - 1987 1987 - 1992
1.50 cy / 1.15 m3 to 1.75 cy / 1.34 m3	55,000 lbs / 24,900 kg to 65,000 lbs / 29,500 kg	650 HD 650 B	1.44 cy /1.10m3		1986 - 1990	792 802 D 792 LC 892 E	1.50 cy / 1.15 m3	60,280 lbs 97,450 lbs	1984 - 1989
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	65,000 lbs / 29,500 kg to 75,000 lbs / 34,000 kg	6300 LC	1.88 cy /1.44m3			892 D-LC 892 E LC	1.75 cy / 1.34 m3 1.26 cy / 0.96 m3	67,590 lbs 97,450 lbs	1988 - 1993
over 2.50 cy / 1.91 m3	over 90,000 lbs / 40,800 kg	6400 LC 6650 6550 LC	2.00 cy /1.53m3 4.00 cy /3.60m3 4.00 cy /3.60m3			890 890 A 990 992 D 992 D-LC	1.50 cy / 1.15 m3 1.88 cy / 1.44 m3 2.13 cy / 1.63 m3 2.38 cy / 1.82 m3	92,600 lbs 85,000 lbs 88,300 lbs 97,600 lbs	1978 - 1982 1982 - 1987 1982 - 1988 1989 -

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Komatsu				Leibherr			
Under 0.38 cy / 0.29 m3	Under 29,000 lbs / 13,200 kg	PC 60-3				A 901			
		PC 60-5	0.37cy/0.28m3		1986 - 1989	A 901B			
		PC 60-6	0.37cy/0.28m3		1989 -	R 901 B			
		PC 60 U5	0.10cy/0.08m3		1987 - 1990	R 901 C			
		PC 60 L5				R 911 B			
		PC 80-3	0.47cy/0.36m3		1986 - 1990	A 902			
		PC 100-3				R 902			
		PC 100-5				R 904 C	0.92cy - 1.31 cy	45,592 lbs	
		PC 120 -3	0.65cy/0.50m3		1984 - 1988	A 911			
		PC 120-5	0.63cy/0.48m3		1989 -	A 911 B			
		PC 150 LC-1				A 911 C			
		PW 60-3				R 900 C	0.33cy - 1.11cy	41,667 lbs	
		PW 90-1				R 911			
0.38 cy / 0.29 m3	29,000 lbs / 13,200 kg	PC 150-1	0.98cy/0.75m3		1983 - 1985	R 911 C			
to	to	PC 150-3	0.90cy/0.69m3		1984 - 1990	A 912			
0.50 cy / 0.38 m3	35,000 lbs / 15,900 kg	PC 150				A 921			
		PC 150-5	0.75cy/0.57m3			R 900 BCL			
		PC 150 LC 3	0.90cy/0.69m3		1984 - 1990	R 902			
		PC 150 LC 5	0.87cy/0.67m3		- 1991	A 902			
						R 914 B	0.39 cy - 1.83 cy	53,263 lbs	
0.50 cy / 0.38 m3	35,000 lbs / 15,900 kg	PC 180 LC 3	1.05cy/0.80m3		1986 - 1989	R912			
to	to					R 902 LC			
0.63 cy / 0.48 m3	41,000 lbs / 18,600 kg					A 921 B			
						A 912 C			
						R 921			
						R 921 C			
						R 921 CHD			
						R 924 B	0.39 cy - 2.62 cy	57,673 lbs	

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Komatsu (continued)				Leibherr (continued)			
0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3	41,000 lbs / 18,600 kg to 48,000 lbs / 21,800 kg	PC 220-3 PC 200-1 PC 200-3 PC 200-5 PC 200 LC-1 PC 200 LC-2 PC 200 LC-3 PC 200 LC-5 PF 55 L	1.05cy/0.80m3 1.00cy/0.77m3 1.05cy/0.80m3 1.05cy/0.80m3 1.25cy/0.96m3 0.60cy/0.46m3		1984 - 1989 1989 - 1984 - 1990 1984 - 1990 1989 - 1994 1988 - 1991	R 922 R 925 R 925 B R 912 HD R 912 LC R 922 LC A 912 litronic AR 912 LC Litronic A 922			
0.75 cy / 0.57 m3 to 1.50 cy / 1.15 m3	48,000 lbs / 21,800 kg to 55,000 lbs / 24,900 kg	PC 220 LC-3 PC 220 LC-5 PC 220-3 PL 55 L-1 PW 210-1 PC 220 LC-2	1.31cy/1.00m3 1.31cy/1.00m3 1.31cy/1.00m3 1.31cy/1.00m3		- 1990 1989 - 1984 - 1988 1983 - 1984	R 932 R932 HD R 922 HDLC R 912 HDLC R 934 B R 944 B	0.31 cy - 2.88 cy 0.78cy - 3.40 cy	65,235 lbs 80,777 lbs	
1.50 cy / 1.15 m3 to 1.75 cy / 1.34 m3	55,000 lbs / 24,900 kg to 65,000 lbs / 29,500 kg	PC 300-2 PC 300-1 PC 300-3 PC 280 LC-3 PC 280 NLC-3	1.83cy/1.40m3		1987 - 1988	A 942 R 942 R 9042 HD R 9042 LD R 9042HDSL R 945 R 945 B R 932 HDSL			

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Komatsu (continued)				Leibherr (continued)			
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	65,000 lbs / 29,500 kg to 75,000 lbs / 34,000 kg	PC 360 LC PC 360 LC-3 PC 300 LC-1 PC 300 LC-2 PC 300 LC-3 PC 300 LC-5 PC 300 HD-5	2.22cy/1.70m3 1.73cy/1.32m3 1.73cy/1.32m3 1.73cy/1.32m3 2.00cy/1.53m3		1987 - 1990 1983 - 1984 1983 - 1984 1984 - 1989	R 961 R942 HDS Li R 954 B Li	2.61cy - 5.10 cy	109,349lbs	
over 2.50 cy / 1.91 m3	over 90,000 lbs / 40,800 kg	PC 400 LC-1 PC 400-1 PC 400 LC-3 PC 400-3 PC 650-3 PC 650-3 SE PC 400 LC-5 PC 650 LC-3 PC 1000-1 PC 1600-1 PC 400 HD-5	1.80cy/1.38m3 2.35cy/1.80m3 3.70cy/2.83m3 2.50cy/1.91m3 3.70cy/2.83m3 5.60cy/4.28m3		1983 - 1975 1985 - 1989 1986 - 1993 1989 - 1996 1989 - 1993 1987 -	R 965 R 965 B R 965 BHD R 971 R 962 R 971 HD R 952 HD Li R 962 LC Li R 974 LB Li R 984 C	2.88 cy - 6.88 cy 6.10 cy - 13.1 cy	181,330lbs 262,041lbs	

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Linkbelt							
Under 0.38 cy / 0.29 m3	Under 29,000 lbs / 13,200 kg	LS 1600 LS 1600 C LS 2650 quant LS 2650 C LS 2650 C 11	0.37m3 - 0.67m3 0.37m3 - 0.48m3						
0.38 cy / 0.29 m3 to 0.50 cy / 0.38 m3	29,000 lbs / 13,200 kg to 35,000 lbs / 15,900 kg	LS 2700 LS 2700 C LS 270 C 11	0.37m3 - 0.76m3						
0.50 cy / 0.38 m3 to 0.63 cy / 0.48 m3	35,000 lbs / 15,900 kg to 41,000 lbs / 18,600 kg								
0.63 cy / 0.48 m3 to 0.75 cy / 0.57 m3	41,000 lbs / 18,600 kg to 48,000 lbs / 21,800 kg	LS 3400 LS 2800 quan LS 2800 B LS 2800 C LS 2800 C11 LS 280 LFC11 LS 280 LFC LS 280 LF	0.48 m3- 1.15m3 0.48m3 - 0.96m3						

Excavators - Hydraulic (Crawler Mounted) continued

Key Specifications		Hydraulic Excavators Make - Model - Weight - CY / M3 - Year							
Standard Bucket c.y./m3	Group Average Weight	Linkbelt (continued)							
0.75 cy / 0.57 m3 to 1.50 cy / 1.15 m3	48,000 lbs / 21,800 kg to 55,000 lbs / 24,900 kg	LC 3400 LC 3400 C LS 3400 C11	0.57m3 - 1.00m3						
1.50 cy / 1.15 m3 to 1.75 cy / 1.34 m3	55,000 lbs / 24,900 kg to 65,000 lbs / 29,500 kg	LS 3400 LF LS 3400 LF C11							
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	65,000 lbs / 29,500 kg to 75,000 lbs / 34,000 kg	LS 4800 LS 4300 LS 4300 C LS 4300 C11 LS 430 WLF							
over 2.50 cy / 1.91 m3	over 90,000 lbs / 40,800 kg	LS 5400 5800 A LS 4300 C LS 5800 LS 5800 C LS 5800 A							

Grader (Motor)

Key Specifications		Motor Grader Make - Model - Engine - HP - Year						
Net Flywheel	Cat				Champion			
50 - 70 hp					D 581A	65 hp	GN 4-53	1958 - 1967
71 - 90 hp	112 E (68E,91G)	85 hp	D 330	1959 - 1968	D 560A D 560 A C 50 A C 56 A AWD C 60 C 60 A C 66 A AWD C 70 C 70 A C 76 A AWD C 80 A C 86 A AWD	85 hp 75 hp 75 hp 75 hp 75 hp 75 hp 75 hp 75 hp 75 hp 75 hp 75 hp 75 hp	UD 14 A GM 371 4B3.9 4B3.9 4B3.9 4B3.9 4B3.9 4B3.9 4B3.9 4B3.9 4B3.9 4B3.9	- 1960 - 1960 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 -
91 - 110 hp	112 F (89J)	100 hp	D 330	1968 - 1974	D 560 B 568 A C 50 A C 56 A AWD C 60 C 60 A C 66 A AWD C 70 C 70 A C 76 A AWD C 80 A C 86 A AWD	100 hp 100 hp 100 hp 100 hp 100 hp 100 hp 100 hp 100 hp 100 hp 100 hp 100 hp 100 hp	GM 4-71N IHC UD-451 4BT3.9 4BT3.9 4BT3.9 4BT3.9 4BT3.9 4BT3.9 4BT3.9 4BT3.9 4BT3.9 4BT3.9	- 1975 - 1975 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 -
111 - 130 hp	120 B 120 G 12 E (99E) 12 F (73 G) 12 F (89 H) 12 F(13 K)	125 hp 125 hp 115 hp 125 hp 125 hp 125 hp	3306 3304 D333 D333 D333 D333	1974 - 1974 - 1959 - 1965 1965 - 1968 1968 - 1973 1971 - 1973	D 560A D 560 HD D 562 D 562 710 710 710 A 710 A 710 A	103 hp 130 hp 125 hp 125 hp 125 hp 128 hp 128 hp 125 hp 128 hp 128 hp	UD 14 A GM 371 GM 4-71N GM 4-71 AC 2900 CUM V378 PER T6.3544 AC 2900 GM 4-53 PERK T6.3544	- 1960 1972 - 1975 - 1975 - 1975 1979 - 1984 1981 - 1984 1978 - 1984 1979 - 1984 1981 - 1984 1978 - 1984

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - Engine - HP - Year						
Net Flywheel	Cat ... continued				Champion ... continued			
131 - 150 hp	130 G 12 G	135 hp 135 hp	33043306	1974 - 1973 -	D 640 D 650 D 562 HD 710 710 710 710 A 710 A 710 A 715 715 A 716 A	135 hp 150 hp 145 hp 135 hp 132 hp 132 hp 135 hp 132 hp 132 hp 150 hp 150 hp 135 hp	GM 4-71E GM 6 V-63 CUM H-743 CUM 6BT5.9 CUM V 378 CUM VT378 6 BT5.9 CUM V3 78 CUM VT378 GM 4-71N4 GM 4-71N4 6BT5.9	1964 - 1969 1965 - 1969 1956 - 1972 1984 - 1981 - 1984 1981 - 1984 1984 - 1981 - 1984 1981 - 1984 1976 - 1984 1976 - 1984 1989 -
151 - 170 hp	140 (11R) 140 (14 U) 140 G 14 B (64C,78E) 14 C (35F) 14 E (99G) 14 E (12 K)	150 hp 150 hp 150 hp 150 hp 150 hp 150 hp 150 hp	D333 D333 3306 D318 D318 D333 D33	1970 - 1974 1971 - 1974 1974 - 1958 - 1960 1950 - 1951 1965 - 1968 1968 - 1973	D 562 HD D 565 D 565 T D 600 D 600 D 600 715 715 A 720 720 720 720 720 A 720 A 720 A 720 A 720 A 720 A 720 A 726 A 726 AWD	152 hp 152 hp 152 hp 160 hp 164 hp 170 hp 152 hp 152 hp 152 hp 168 hp 152 hp 153hp 152 hp 153 hp 152 hp 152 hp 168 hp 155 hp 153 hp 155 hp	GN 4-71N GM 4-71N GM 4-71N GM 6-71N CUM N -855 GM 6-71N AC 3500 MK11 AC 3500 MK11 GM 4-71N4 AC3700 MK 11 CUM V504-C CUM 6CT8.3 GM 4-71N4 CUM 6CT8.3 CUM V504-C GM 4-71N4 AC 3500 MK11 6CT8.3 6CT8.3 6CT8.3	1956 - 1972 1956 - 1972 1972 - 1975 - 1975 - 1975 - 1975 1976 - 1984 1976 - 1984 1976 - 1984 1976 - 1984 1984 - 1985 1985 - 1976 - 1984 1985 - 1989 1984 - 1985 1976 - 1984 1976 - 1984 1989 - 1989 - 1989 - 1989 -

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - Engine - HP - Year						
Net Flywheel	Cat ... continued				Champion ... continued			
171 - 190 hp					D 600 D 600 D 686 D 680 D 680 D 680 D 605 T 720 730 730 730 A 730 A 736 A AWD 740 740 A	175 hp 190 hp 190 hp 190 hp 190 hp 190 hp 179 hp 172 hp 180 hp 187 hp 180 hp 187 hp 187 hp 181 hp 181 hp	CUM H-743 CUM H-855 CUM H-855 GM 6-71 GM 6V-57N CUM H-743 GM 6V-71N GM 4-71T CUM VT-504-C CUM 6CT8.3 CUM VT-504-C 6CT8.3 6CT8.3 6CT8.3 GM 6-71N2 GM 6-71N2	1960 - 1975 1960 - 1975 1972 - 1975 - 1972 - 1972 1968 - 1972 - 1975 1981 - 1984 1984 - 1985 1985 - 1985 - 1987 - 1989 - 1976 - 1984 1976 - 1984
191 - 210 hp	14 G	200 hp	3306	1973 -	D 600 D 605 T D 680 D 680 740 740 A 740 D 686 750 A 780 A	203 hp 197 hp 205 hp 208 hp 210 hp 210 hp 205 hp 200 hp 200 hp	GM 6-71N GN 6-71 N GM 6-71E GM 6-71 N CUM LT-10-C CUM LT-10-C GM 6-71N LT 10 LT 10	1960 - 1975 1972 - 1975 - 1972 1968 - 1972 1984 - 1984 - - 1975 1987 - 1987 -
over 210 hp	16 (49 G) 16G	225 hp 275 hp	D 343 D3406	1964 - 1973 1973 -	D 686 740 740 740 740 A 740 A	228 hp 220 hp 231 hp 231 hp 214 hp 231 hp	GM 7-41N CUM -855 GM 6-71N4 GM 6-71T GM 6-71N4 GM 6-71T	1972 - 1975 1976 - 1984 1981 - 1984 1981 - 1984 1976 - 1984 1981 - 1984

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - Engine -HP - Year						
Net Flywheel	Dresser (Galion)				Fiat Allis			
50 - 70 hp	503 A 503 L 503 L	68 hp 62 hp 68 hp	IHUD-236 GM 3-53 IHUD-236	1966 - 1972 1972 - 1982 1972 - 1978	D DD M 65 65 65 B	63 hp 63 hp 63 hp 59 hp 68 hp	G-226 Cont. gas DD-262 ACG-226,ACD-262 D-262 Fiat 8065	1449 - 1971 1954 - 1971 1974 - 1979 1979 -
71 - 90 hp	503 A 503 L 503 L	74 hp 74 hp 74 hp	IHUD-220 IHUD-220 IHUC-221	1966 - 1972 1972 - 1980 1972 - 1978				
91 - 110 hp	104 B 104 B	100 hp 105 hp	CUM J-401-C GM 3-71 C	1966 - 1970 1966 - 1970				
111 - 130 hp	104 C 104 H 104 HB 104 HB A 400 E T 400 A T 400 A T 400 A	115 hp 125 hp 125 hp 125 hp 125 hp 120 hp 120 hp 120 hp	GM 3-71-C GM 4-71 GM 4-71-C CUM J-401-C Dresser D 466 GN 4-53 CUM C-407 IH D-466	1970 - 1973 1964 - 1966 1966 - 1970 1966 - 1970 1983 - 1969 - 1982 1969 - 1976 1977 - 1982	M 100 B M 100 C	130 hp 130 hp	AC 11000 AC 11000	1965 - 1973 1973 - 1981
131 - 150 hp	118 C 118 C T 500 T 500 A T 500 A T 500 A T 500 C T 500 C A 450 E S 450 E T 450 E A 500 S 500 E	135 hp 145 hp 140 hp 140 hp 140 hp 150 hp 150 hp 150 hp 150 hp 138 hp 138 hp 150 hp 150 hp	GM 4-71N(2WD) CUM H-743-C CUM C-160-C1 GN 4-71N CUM C0464-C IH D-466 IH D-466 GM 4-71 GM 8.2L GM 8.2 L IH D-466 GM 8.2 L	1970 - 1974 1970 - 1973 1956 - 1965 1966 - 1977 1966 - 1973 1975 - 1977 1977 - 1984 1977 - 1984 1983 - 1983 - 1979 - 1983 1983 -	100 C 150 C FG 70 B FG 75 FG 75 A	135 hp 160 hp 135 hp 135 hp 135 hp	AC 11000 AC 11000 6C8.3 Fiat 8365 Fiat 8365	1992 - 1982 - 1984 -

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - Engine -HP - Year						
Net Flywheel	Dresser (Galion) continued				Fiat Allis ... continued			
151 - 170 hp	A 500 T 500 A T 500 C T 500 L T 500 L T 500 L T 600 B 160 B 160 B 160 C 160 C 160 L	155 hp 152 hp 155 hp 158 hp 155 hp 160 hp 158 hp 160 hp 160 hp 160 hp 155 hp 160 hp 160 L	GM 4-53 T IH D-466 CUM V-504C IH DT-407 GM 4-71N IH DT-466 IH DT-407 GM 4-71N CUM H-743-C GM 4-71N CUM H-743-C CUM H-743-C	1979 - 1983 1966 - 1975 1977 - 1984 1972 - 1975 1972 - 1977 1975 - 1977 1970 - 1974 1965 - 1973 1965 - 1973 1970 - 1974 1970 - 1973 1964 - 1973	200 C FG 85 FG 85 A	160 hp 152 hp 180 hp	AC 11000 Fiat 8365T Fiat 8365T	1982 - 1984 -
171 - 190 hp	160 L A 550 A 550 A 556 A 560 E T 500 L T 600 B T 600 B T 600 B T 600 C	190 hp 175 hp 175 hp 175 hp 175 hp 175 hp 190 hp 175 hp 186 hp 186 hp	GM 6-71N IH DT-466 GM 4-53T IH DT-466 GN 8-2T/DT466 CUM CT-464-C GM 6-71-C CUM CT-464-C IH DT-466 IH DT-466	1964 - 1974 1979 - 1979 - 1983 1983 - 1984 - 1959 - 1973 1965 -1977 1965 -1977 1974 - 1977 1977 - 1983	FG 95 FG 95 A	160 hp 180 hp	Fiat 8365T Fiat 8365T	1982 - 1984 -
191 - 210 hp	A 600 T 600 C T 600 C A 606 870	200 hp 200 hp 197 hp	GM 6-71 WAUK F674 D IH DT-466	1977 - 1983 1977 - 1983 1983 -	FG 105	200 hp	6CT8.3	1992 -
over 210 hp	T 700 2225	250 hp	CUM NH-250-C1	1956 - 1966				

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - HP - Year						
Net Flywheel	Huber				John Deere			
50 - 70 hp								
71 - 90 hp					570 570 A	83 hp 85 hp	JD 6-303 JD 6-359T	1968 - 1972 1972 - 1987
91 - 110 hp								
111 - 130 hp	P 100 P 101 S 101 P 200 S 200 SR				570 B 670 670 B	125 hp 125 hp 125 hp	JD 6-359T JD 6-414T JD 6-414T	1987 - 1975 - 1978 1986 -
131 - 150 hp	P 300 S 300 P 301				670 A 672 A 672 B	135 hp 135 hp 142 hp	JD 6-414T JD 6-414T JD 6-414T	1978 - 1986 1978 - 1986 1986 -
151 - 170 hp	S 301 P 400 P 400 SR S 400 S 401				770 770 A 770 B 772 772 B	155 hp 150 hp 150 hp 155 hp 155 hp	JD 6-531T JD 466 A JD 6-466 T JD 466 A JD 6-466 T	1975 - 1978 1978 - 1985 1978 - 1985 1986 - 1978 - 1986
171 - 190 hp	P 500 P 500 S 501	175 hp 179 hp 187 hp			770 B-H 770 B-H(Dual pow) 772 B-H 772 B-H(Dual pow) 770 A-H 772 A-H	155/185 hp 155/186 hp	JD 6-466A JD 6-466 A JD 6-466 A JD 6-466 A JD 6-466 A JD 6-466 A	1986 - 1986 - 1986 - 1987 - 1985 - 1985 -
191 - 210 hp	P 500 5500 5501	200 hp 200 hp 200 hp						
over 210 hp								

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - Engine - HP - Year						
Net Flywheel	Komatsu (Clark) Austin				Wabco			
50 - 70 hp								
71 - 90 hp								
91 - 110 hp								
111 - 130 hp	GD 500 R-2 GD 505 R-2 GD 515 A-1 GD 505 A-2	130 hp	S6 D105		440 440 440 H 440 H 444 444 666 B	115 hp 115 hp 125 hp 128 hp 125 hp 128 hp 125 hp	GM 4-71 CUM JNR-100-C1 GM 4-71 CUM N-855C GM 4-71 N CUM N-855C GM 4-71	- 1970 - 1970 - 1979 - 1979 - 1973
131 - 150 hp	GD 600 R GD 605 A-2 GD 604 R GD 615 A-1 GD 525 A-1	145 hp 135 hp	NH 220 CI S6 D105	-1985	440 H-PS 444 PS 666 B 666 B-PS	134 hp 134 hp 135 hp 134 hp	GM 4-71N GM 4-71N CUM -855 C GM 4-71N	- 1972 - 1979 - 1974 - 1973
151 - 170 hp	GD 605 A-3 GD 650 R GD 655 A-3 GD 655 R GD 625 A-1	165 hp 165 hp 155 hp	NH 220 CI 6D125	1981 - 1985	555 555 660 B 777 B 777 B	160 hp 160 hp 160 hp 160 hp 160 hp	GM 6-71 CUM -855 C GM 6-71 GM 6-71 CUM 855 C	-1972
171 - 190 hp	P 501							
191 - 210 hp	GD 705 A-3 GD 705 A-4 GD 705 R-2 GD 725 A-1	200 hp 200 hp	NTO-6-C1 S6D-125	- 1984 1981 -	777 B-PS 777 B-PS	201 hp 201 hp	CUM H-A-3C GM 6-71	-1972
over 210 hp	GD 825 A-1 GD 825 A-2	280 hp 280 hp	S6D-140 S6D-140	1986 - 1993 1993 -	888 PS 888 B-PS	230 hp 230 hp	GM 8V-71	- 1971 - 1975

Grader (Motor) continued

Key Specifications		Motor Grader Make - Model - Engine -HP - Year						
Net Flywheel	Warco							
50 - 70 hp	M 600 M 650 M 700 M 750 M 800 M 850 M 850 A	65 hp 59 hp 65 hp 59 hp 56 hp 52 hp 66 hp	D-172 DD-172 D-172 gas DD-172 D-172 gas DF-192 PERK 4-236	1967 - 1972 1967 - 1972 1972 - 1976 1972 - 1976 1977 - 1979 1977 - 1980 1980 -				
71 - 90 hp								
91 - 110 hp	D 1100 D 1100 D 1100	107 hp 107 hp 107 hp	GM 4-53 CUM V-352-C CUM V-378-C	1965 - 1968 1965 - 1971 1971 - 1974				
111 - 130 hp								
131 - 150 hp	P 1300 P 1300 P 1300 D 1400 D 1400 D 1400	130 hp 130 hp 130 hp 145 hp 135 hp 135 hp	GM 4-53 CUM V-352-C CUM V-378-C GM 4-71 CUM H-672-C CUM H-743-C	1965 - 1978 1965 - 1971 1971 - 1975 1968 - 1978 1968 - 1969 1969 - 1973				
151 - 170 hp	D 1500 F 1500 F 1500 F 1500	159 hp 159 hp 161 hp 161 hp	GM 4-71 GM 4-71 CUM V-470-C CUM V-504-C	1965 - 1978 1968 - 1984 1968 - 1971 1971 - 1973				
171 - 190 hp	D 1700	160 hp	CUM H-743-C	1965 - 1973				
191 - 210 hp	D 1700 F 1700 F 1900	195 hp 210 hp 195 hp	GM 6V-71 GM 6V-53N GM6V-71	1965 - 1974 1975 - 1984 1969 - 1984				
over 210 hp								

Loader - Crawler Mounted

Key Specifications		Crawler Mounted Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	Case				Cat			
Under 1.00 cy / 0.76 m3	475 CL	78 hp	0.75 cy / 0.57 m3	1972 - 1981				
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	450 450 B 455 455 C 850	51 hp 53 hp 63 hp 72 hp	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.33 cy / 1.01 m3	1965 - 1968 1979 - 1983 1983 - 1967 - 1977	931 931 B 931 C 935 B 935 C 941 C	62 hp 65 hp 67 hp 80 hp	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.05 cy / 0.80 m3 1.25 cy / 0.96 m3	1979 - 1988 1988 - - 1972
1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	850 B 850 C 855 855 C 855 D 1000 1150	75 hp 78 hp 85 hp 85 hp 92 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3	1977 - 1981 1981 - 1984 1985 - 1991 1991 - 1965 - 1972	941 941 B 943 943 LGP 951 A 951 B	80 hp 80 hp 80 hp 80 hp 70 hp 85 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3	1968 - 1971 1972 - 1980 1980 - 1980 - 1988 1967 - 1972
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	1150 B 1150 C 1155 1155 D	105 hp 105 hp 110 hp	1.75 cy / 1.34 m3 1.75 cy / 1.34 m3 1.75 cy / 1.34 m3	1973 - 1978 1978 - 1983 1983 - 1986	951 C	95 hp	1.75 cy / 1.34 m3	1972 - 1980
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	1155 E 1450 1450 B 1455 1455 B	118 hp 130 hp 140 hp 140 hp	2.00 cy / 1.53 m3 2.25 cy / 1.72 m3 	1986 - 1973 - 1980 1980 - 1984 1983 - 1988	953 953 LGP 955 L	110 hp 110 hp 130 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3	1981 - 1981 - 1987 1972 - 1981
2.50 cy / 1.92 m3 to 3.50 cy / 2.68 m3					963 963 LGP	150 hp 150 hp	2.60 cy / 1.99 m3 2.50 cy / 1.92 m3	1981 - 1981 - 1987
3.50 cy/2.68 and up					973 973 LGP	210 hp 210 hp	3.75 cy / 2.86 m3 3.75 cy / 2.86 m3	1982 - 1982

Loader - Crawler Mounted continued

Key Specifications	Crawler Mounted Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	Clarke Liebherr				Fiat Allis			
Under 1.00 cy / 0.76 m3								
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3					FL 5 FL 5 B FL 7	70 hp 70 hp 78 hp	1.00 cy / 0.76 m3 1.30 cy / 1.00 m3 1.30 cy / 1.00 m3	1982 - 1988 1988 - 1983 - 1988
1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	LR 611				FL 7B FL 9	85 hp 87 hp	1.50 cy / 1.14 m3 1.62 cy / 1.24 m3	1988 - 1975 - 1986
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	LR 621				FL 10 B	110 hp	1.88 cy / 1.44 m3	1975 - 1978
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	LR 631				FL 10 C FL 10 E	122 127 hp	2.00 cy / 1.53 m3 2.20 cy / 1.68 m3	1978 - 1988 1988 -
2.50 cy / 1.92 m3 to 3.50 cy / 2.68 m3	LR 641				FL 14 B FL 14 C FL 14 E			
3.50 cy/2.68 and up					FL 20			

Loader - Crawler Mounted continued

Key Specifications		Crawler Mounted Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	John Deere				International - Dresser			
Under 1.00 cy / 0.76 m3	350 C 355 C	42 hp 48 hp	0.75 cy / 0.57 m3 0.75 cy / 0.57 m3	1974 - 1986 1986 - 1988	500 E			
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	450 C 455 D 455 E 455 G 555 555 A 555 B	65 hp 67 hp 70 hp 70 hp 72 hp 78 hp 78 hp	1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.38 cy / 1.06 m3 1.38 cy / 1.06 m3	1974 - 1983 1983 - 1985 1985 - 1988 1988 - 1974 - 1983 1983 - 1985 1985 - 1988	100 C 100 E 100 G 125 C 125 E 125 G	56 hp 65 hp 70 hp 69 hp 78 hp 80 hp	1.00 cy / 0.76 m3 1.13 cy / 0.86 m3 1.13 cy / 0.86 m3 1.25 cy / 0.96 m3 1.38 cy / 1.06 m3 1.38 cy / 1.06 m3	1970 - 1974 1985 - 1987 1987 - 1970 - 1974 1985 - 1987
1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	555 G	90 hp	1.50 cy / 1.14 m3	1988 -	150 150 LPS 165	71 hp 75 hp 80 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.62 cy / 1.24 m3	1962 - 1972 1962 - 1974 1963 - 1965
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3					175	115 hp	1.75 cy / 1.34 m3	1963 - 1965
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	655 655 B 655 B (wide track) 755 755 A 755 B	110 hp 120 hp 120 hp 110 hp 130 hp 140 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.25 cy / 1.72 m3 2.25 cy / 1.72 m3	1981 - 1985 1985 - 1985 - 1976 - 1981 1981 - 1985 1985 -	175 B 175 C	120 hp 140 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3	1965 - 1972 1985 -
2.50 cy / 1.92 m3 to 3.50 cy / 2.68 m3	755 B (wide track) 855	140 hp 200 hp	2.50 cy / 1.92 m3 1.75 cy / 2.10 m3	1985 - - 1986	200 250 250 B 250 C 250 E	140 hp 150 hp 160 hp 190 hp	2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.75 cy / 2.10 m3 3.25 cy / 2.49 m3	1963 - 1966 1966 - 1969 1985 - 1986 1986 -
3.50 cy/2.68 and up								

Loader - Crawler Mounted continued

Key Specifications		Crawler Mounted Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	Komatsu				Massey Ferguson			
Under 1.00 cy / 0.76 m3	D 21S-6 D 21S-7	44 hp 40 hp	0.75 cy / 0.57 m3	1986 - 1992 1992 -	200 200 B 200 C	44 hp 44 hp 44 hp	0.75 cy / 0.57 m3 0.75 cy / 0.57 m3 0.75 cy / 0.57 m3	1970 - 1975 1975 - 1978 1978 - 1979
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	D 31S-7 D 31S-17 3315-16 D3 31Q-16	70 hp 66 hp 63 hp	1.30 cy / 0.99 m3 1.00 cy / 0.76 m3	1992 - 1983 - 1987 1978 - 1982	300 L	0.35 hp	1.25 cy / 0.96 m3	1969 - 1979
1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3	D 41S-3 D 45S-1	90 hp	1.60 cy / 1.22 m3	1981 - 1988	400 400 C 400 (L) 3366	87 hp 85 hp 75 hp	1.50 cy / 1.14 m3 1.62 cy / 1.24 m3 1.50 cy / 1.14 m3	1978 - 1979 1970 - 1977 1967 - 1971
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3	D 53S-16 D 55S-2	110 hp 110 hp	1.80 cy / 1.38 m3 1.80 cy / 1.38 m3	1979 - 1984 - 1970				
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	D 53S -17 D 55S-1 D 55S-3 D 53S-17 D 644-6 D 644-8 D 57S-1 D 60S-8	110 hp 125 hp 110 hp 135 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.40 cy / 1.84 m3	1984 - 1990 - 1976 1984 - 1990 1978 -	500 500 B 600 C 700 C	136 hp 136 hp 144 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.38 cy / 1.82 m3	1969 - 1972 1972 - 1975 1975 - 1979
2.50 cy / 1.92 m3 to 3.50 cy / 2.68 m3	D 75S-2 D 66S-1 D 766-3 D 75S.5	175 hp 160 hp 200 hp	2.50 cy / 1.92 m3 2.80 cy / 2.14 m3 2.9 cy / 2.22 m3	- 1976 1984 - 1984 -				
3.50 cy/2.68 and up	D 95S-1 D 944-2 D 15S-1	240 hp 350 hp	4.20 cy / 3.21 m3 5.90 cy / 4.51 m3	1991 - 1981 - 1987				

Loader - Crawler Mounted continued

Key Specifications	Crawler Mounted Front End Loader				Make - Model - HP - CY / M3 - Year			
Standard Bucket c.y./m3	Terex							
Under 1.00 cy / 0.76 m3								
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3								
1.50 cy / 1.14 m3 to 1.75 cy / 1.34 m3								
1.75 cy / 1.34 m3 to 2.00 cy / 1.53 m3								
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3								
2.50 cy / 1.92 m3 to 3.50 cy / 2.68 m3	L 600 D L 700 D			1981 - 1985 1982 - 1985				
3.50 cy/2.68 and up								

Loader (wheel) - Rubber Tired

Key Specifications		Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	Allis- Chambers, Fiat Allis				Case			
Under 1.00 cy / 0.76 m3					W3 430 1845 1830 1816 B 1816 C 1816 D 1835 B 1835 C 1825 1845 C 1818 1840 1845 B W11 W11 B	52 hp 38.5 hp	0.70 cy / 0.54 m3 0.70 cy / 0.54 m3	1960 - 1962 1960 - 1964
						55 hp 69 hp	0.70 cy / 0.54 m3 1.00 cy / 0.76 m3	1978 - 1984 1984 - 1993
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	FR 7 FR 7B FR 7C TL 12	67 hp 71 hp 71 hp 70 hp	1.25 cy / 0.96 m3 1.38 cy / 1.06 m3 1.38 cy / 1.06 m3 1.12 cy / 0.86 m3		21 D W14 221 D 321 D W14 B	53 hp 83 hp 59 hp 71 hp 90 hp	1.05 cy / 0.80 m3 1.25 cy / 0.96 m3 1.30 cy / 0.99 m3 1.44 cy / 1.10 m3 1.50 cy / 1.14 m3	1972 - 1986 2003 -
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	345 B FR 9 B 545 545 G	80 hp 90 hp 95 hp 95 hp	1.50 cy / 1.14 m3 1.88 cy / 1.44 m3 2.00 cy / 1.53 m3 1.75 cy / 1.33 m3	1957 - 1964 1991 - 1961 - 1966 1975 - 1987	W18 B W14 C 521 D X T W20 C W20 B W20	110 hp 103 hp 110 hp 100 hp 103 hp 103 hp	2.00 cy / 1.53 m3 1.75 cy / 1.34 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3	1986 - 1989 1982 - 1984 1971 - 1983 1982 - 1988 1976 - 1983 1971 - 1981
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	545 B 545 H FR 10 FR 11 FR 10 B FR 10 C FR 12 605 B FR 100	102 hp 95 hp 105 hp 125 hp 110 hp 110 hp 120 hp 108 hp 110 hp	2.00 cy / 1.53 m3 2.50 cy / 1.92 m3 2.00 cy / 1.53 m3 2.25 cy / 1.72 m3 2.25 cy / 1.72 m3 2.25 cy / 1.72 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.25 cy / 1.72 m3	1962 - 1966 1965 - 1972 1975 - 1984 1982 - 1986 1987 - 1993 - 1986 - 1972 - 1981 1986 -	621 W26 521 D	116 hp 140 hp 110 hp	2.25 cy / 1.72 m3 2.25 cy / 1.72 m3 2.25 cy / 1.72 m3	1988 - 1993 1968 - 1970

Loader (wheel) - Rubber Tired continued

Key Specifications		Rubber Tired Front End Loader			Make - Model - HP - CY / M3 - Year			
Standard Bucket c.y./m3	Allis- Chambers, Fiat Allis (continued)				Case (continued)			
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3	FR 12 B FR 130	140 hp 135 hp	2.62 cy / 2.00 m3 3.00 cy / 2.29 m3	1993 - 1982 - 1986	621 D 621 DXR 621 DXT W24 B W24 C	136 hp 136 hp 136 hp 132 hp 132 hp	2.75 cy / 2.10 m3 2.75 cy / 2.10 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3	1995 - 1972 - 1977 1978 - 1984
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3	FR 15 645 645 B FR 15 B FR 15 B FR 140	151 p 151 hp 160 hp	3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 3.00 cy / 2.29 m3	1965 - 1967 1967 - 1972 1986 - 1990 1991 - 1986 -	721 721 D 721 DXT 821	160 hp 170 hp 170 hp 170 hp	2.50 cy / 1.92 m3 3.25 cy / 2.49 m3 3.00 cy / 2.29 m3 3.00 cy / 2.29 m3	1988 - 1993 1989 -
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3	FR 160 FR 180	185 hp 190 hp	3.75 cy / 2.87 m3 4.00 cy / 3.06 m3	1994 - 1992 -	W30	153 hp	4.00 cy / 3.06 m3	1984 - 1989
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3	745 745 B 745 C 745 H 745 HB	202 hp 202 hp 202 hp 202 hp 202 hp	4.00 cy / 3.06 m3 4.00 cy / 3.06 m3 4.00 cy / 3.06 m3 4.50 cy / 3.44 m3 4.50 cy / 3.44 m3	1972 - 1981 1965 - 1972 1972 - 1981 1967 - 1973 1973 - 1977	821 C	198 hp	4.00 cy / 3.06 m3	1999 -
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3	FR 20 FR 20 B FR 30 FR 220	 235	 5.00 cy / 3.83 m3	 1993 -	921 C	248 hp	5.25 cy / 4.01 m3	1998 -
6.00 cy / 4.59 m3 and over	945 B FR 35	335	6.5 hp / 4.97 m3	-1976				

Loader (wheel) - Rubber Tired continued

Key Specifications	Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	CAT				Clark Michigan			
Under 1.00 cy / 0.76 m3	904 B	52 hp	0.78 cy / 0.60 m3					
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	902 906 908 910 IT 12 916	45 hp 60 hp 76 hp 65 hp 65 hp 65 hp	1.30 cy / 0.99 m3 1.04 cy / 0.80 m3 1.31 cy / 1.00 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.50 cy / 1.14 m3	1973 - 1985 - 1984 -	35 AWS 35 AWS L50 75 B	77ho 78hp 84 hp 96 / 100hp	1.00 cy / 0.76 m3 1.25 cy / 0.96 m3 1.50 cy / 1.14 m3 1.25 cy / 0.96 m3	1965 - 1969 1978 - 1983 1986 - 1993 1954 - 1959
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	914 G IT 14 G 910 E 918 F 920 IT 18 1818 B 1812 B	95 hp 95 hp 80 hp 85 hp	1.80 cy / 1.38 m3 1.80 cy / 1.38 m3 1.75 cy / 1.34 m3 1.50 cy / 1.14 m3	1969 -1985 1984 -1987	45 B 45 C 45 C 45 C L 50 B	104 / 107hp 104 / 111hp 117 / 120hp 117 / 120hp 91 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.75 cy / 1.34 m3 2.00 cy / 1.53 m3	1973 - 1979 1973 - 1986 1984 - 1978 - 1983 1993 -
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	924 G 924 Gz 926 926 E 930 930 T IT 2 B 926 E IT 18 F IT 28 B IT 28 F	129 hp 129 hp 105 hp 110 hp 100 hp 110 hp	2.20 cy / 1.70m3 2.20 cy / 1.70m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3	1984 - 1987 1987 - 1969 - 1985 1988 -	L 70 75 B 75 B 55 B 55 B 55 C 55 C	110 hp 142 / 154hp 157 / 175hp 136 hp 150 hp 130 / 133 hp 130 hp	2.10 cy / 1.61 m3 2.50 cy / 1.92 m3 2.00 cy / 1.53 m3 2.25 cy / 1.72 m3 2.00 cy / 1.53 m3 2.25 cy / 1.72 m3	1986 - - 1986 1971 - 1981 1969 - 1970 1970 - 1980 1979 - 1979 - 1983
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3	924 Gz 928 Gz 928 Gz 930 G 621 D 621 DXR 621 DXT W24 B W24 C	129 hp 143 hp 143 hp 149 hp 136 hp 136 hp 136 hp 132 hp 132 hp	2.70 cy./ 2.10 m3 2.60 cy / 2.00 m3 3.00 cy / 2.29 m3 2.60 cy / 1.99 m3 2.75 cy / 2.10 m3 2.75 cy / 2.10 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3	1995 - 1972 - 1977 1978 - 1984				

Loader (wheel) - Rubber Tired continued

Key Specifications	Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	CAT (continued)				Clark Michigan (continued)			
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3	950 B 950 E	155 hp 160 hp	3.00 cy / 2.29 m3 3.25 cy / 2.48 m3	1698 - 1981 1981 - 1987	75 C L 90 L 90 B	152 / 172 hp 145 hp 148 hp	3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 3.25 cy / 2.48 m3	1981 - 1986 - 1992 1992 -
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3	924 G 938 G IT 28 G	129 hp 160 hp 160 hp	3.60 cy / 2.80 m3 3.65 cy / 2.79 m3 3.65 cy / 2.79 m3		L 120 L120 B	190 hp 190 hp	3.50 cy / 2.68 m3 4.00 cy / 3.06 m3	1986 - 1992 1992 -
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3	966 C 950 F Ser 11 950 G 11 966 D	183 HP 200 hp	4.50 cy / 3.44 m3 4.00 cy / 3.06 m3	1994 - 1981 - 1967	125 B 125 C L 140	222 hp 224 / 225 hp 225 hp	4.00 cy / 3.06 m3 4.00 cy / 3.06 m3 4.00 cy / 3.06 m3	1973 - 1981 1981 - 1987 1987 - 1992
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3	962 G 966 E 966 F Ser 11 970 F 980 B 980 E 966 G11 988	204 hp 216 hp 260 hp 246 hp 325 hp	5.00 cy / 3.82 m3 425 hp / 3.25 m3 4.50 cy / 3.44 m3 5.25 cy / 4.01 m3 5.50 cy / 4.21 m3	1987 - 1997 - 1970 - 1978 1963 - 1977	175 B 175 C L 160	304 / 310 hp 304 / 311 hp 252 hp	5.00 cy / 3.82 m3 5.00 cy / 3.82 m3 5.00 cy / 3.82 m3	1971 - 1981 1981 - 1983 1986 - 992
5.50 cy / 4.21 m3 to 6.00 cy / 4.59 m3					275 B L 180 L 190	360 hp 231 hp 270 hp	5.90 cy / 4.51 m3 5.20 cy / 3.98 m3 5.75 cy / 4.39 m3	- 1986 1991 - 1987 - 1992
6.00 cy / 4.59 m3 and over	930 G 972 G11 980 G 980 G11 988 B 988 G 990 11	149 hp 270 hp 311 hp 375 hp 620 hp	6.50 cy / 5.00 m3 6.00 cy / 4.59 m3 7.50 cy / 5.73 m3 7.00 cy / 5.35 m3 12.0 cy / 9.17 m3		L 150 275 B 275 B 275 C L 270 L320	275 hp 342 hp 380 / 400 hp 400 hp 360 hp 417 hp	6.30 cy / 4.82 m3 6.50 cy / 4.97 m3 7.00 cy / 5.35 m3 7.00 cy / 5.35 m3 7.00 cy / 5.35 m3 8.00 cy / 6.12 m3	1992 - - 1979 1971 - 1981 1981 - 1987 1987 - 1993 1986 -

Loader (wheel) - Rubber Tired continued

Key Specifications		Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	Ford				International - Dresser				
Under 1.00 cy / 0.76 m3	CL 20 CL 25 CL 30 CL 35 CL 40 CL 45 CL 55 CL 65 340 A 340 B	25 hp 18 / 20 hp 30 hp 28 / 30 hp 40 hp 42 hp 43 hp 64 hp 44 hp 54 hp	0.20 cy / 0.15 m3 0.20 cy / 0.15 m3 0.40 cy / 0.31 m3 0.30 cy / 0.23 m3 0.40 cy / 0.31 m3 0.30 cy / 0.23 m3 0.40 cy / 0.31 m3 0.50 cy / 0.38 m3 0.70 cy / 0.54 m3 0.59 cy / 0.45 m3	1974 - 1981 1974 - 1986 1974 - 1981 1984 - 1986 1974 - 1981 1983 - 1986 1983 - 1986 1983 - 1986 1982 - 1984 1984 - 1988	3300 B 3200 B 500	38.7 hp	0.70 cy / 0.54 m3	1979 - 1983	
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	555 A 555 B 5500 655 A 655 A	60 hp 62 hp 63 hp 67 hp 71.5	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3	1978 - 1984 1983 - 1988 1986 - 1985 - 1985 1986 -	510 510 B 510 C 3850 3820 3800 H 50 C H 30 FB H 30 B 515	74 hp 80 hp 93 hp 90 hp 84 hp 80 hp 69 hp 69 hp 95 hp	1.25 cy / 0.96 m3 1.37 cy / 1.05 m3 1.50 cy / 1.14 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.50 cy / 1.14 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.50 cy / 1.14 m3	1976 - 1983 1981 - 1990 - 1967 - 1986 1967 - 1976 1966 - 1976 1961 - 1974 1961 - 1976 1976 - 1983	
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	A 62	88 hp	1.50 cy / 1.14 m3	1974 - 1984	H 50 C 515 B 515 C H 60 E H 60 C 512	103 hp 100 hp 115 hp 100 hp	1.50 cy / 1.14 m3 1.62 cy / 1.24 m3 2.00 cy / 1.53 m3 1.75 cy / 1.34 m3	1981 - 1973 - 1976	
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	A 64	107 hp	2.00 cy / 1.53 m3	1974 - 1984	515 CH 520 B 520 C	120 hp 144 hp	2.25 cy / 1.72 m3 2.50 cy / 1.92 m3	1981 - 1989 -	
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3	A 66	136 hp	2.50 cy / 1.92 m3	1980 - 1984	530 530 530 C H 80 A H 65 C	155 hp 165 hp 165 hp 160 hp 135 hp	2.75 cy / 2.10 m3 2.75 cy / 2.10 m3 3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 2.75 cy / 2.10 m3	1977 - 1985 1985 - 1989 - 1968 - 1972 - 1973	

Loader (wheel) - Rubber Tired continued

Key Specifications		Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	Ford (continued)				International - dresser (continued)			
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3					530 530 530 C H 80 A H 65 C	155 hp 165 hp 165 hp 160 hp 135 hp	2.75 cy / 2.10 m3 2.75 cy / 2.10 m3 3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 2.75 cy / 2.10 m3	1977 - 1985 1985 - 1989 - 1968 - 1972 - 1973
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3					H 80 B	184 hp	3.50 cy / 2.68 m3	1972 - 1980
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3					H 90 E H 100 B 540 540	230 hp 226 hp 189 hp 205 hp	3.50 cy / 2.68 m3 3.75 cy / 2.88 m3 3.75 cy / 2.88 m3 3.75 cy / 2.88 m3	- 1978 1964 - 1968 1980 - 1985 1985 -
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3					H 90 E 538 H 100 C	239 hp 275 hp	4.50 cy / 3.44 m3 4.25 cy / 3.25m3	1968 - 1982 1985 - 1974 - 1981
5.50 cy / 4.21 m3 to 6.00 cy / 4.59 m3					H 100 C H 550 H 550 542 545 555	290 hp	4.50 cy / 3.44m3	1974 - 1981 1980 - 1985 1985 -
6.00 cy / 4.59 m3 and over					560 560 560 B	380 hp 415 hp 415 hp	6.50 cy / 4.97 m3 6.50 cy / 4.97 m3 7.00 cy / 5.35 m3	1974 - 1982 1974 - 1981

Loader (wheel) - Rubber Tired continued

Key Specifications		Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	J C B				John Deere			
Under 1.00 cy / 0.76 m3	406				14 24 24 24 A 244 E 300 B 301 A	25 hp 37 hp 37 hp 37 hp 58 hp 43 hp 43 hp	0.20 cy / 0.15 m3 0.20 cy / 0.15 m3 0.40 cy / 0.31 m3 0.40 cy / 0.31 m3 0.88 cy / 0.67 m3 0.75 cy / 0.57 m3 0.75 cy / 0.57 m3	1975 - 1978 1970 - 1976 1970 - 1976 1976 - 1991 - 1974 - 1986 1974 - 1986
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	408 3 CS6000 3 CX 3 C1400 1400 B 3C1550 1550 B	62 hp 70 hp 67 hp 70 hp 67 hp 80 hp	1.38 cy / 1.06 m3 1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3 1.25 cy / 0.96 m3	1981 - 1983 1985 - 1980 - 1985 1985 - 1980 - 1985 1985 -	244 h 244 J 84 304 H 304 J 344 E 510 510 B 510 C 610 B 610 C	55 hp 58 hp 52 hp 65 hp 73 hp 65 hp 80 hp 70 hp 85 hp 80 hp 95 hp	1.00 cy / 0.76 m3 1.00 cy / 0.76 m3 1.05 cy / 0.80 m3 1.40 cy / 1.07 m3 1.40 cy / 1.07 m3 1.00 cy / 0.76 m3 1.12 cy / 0.86 m3 1.33 cy / 1.02 m3 1.25 cy / 0.96 m3 1.30 cy / 0.99 m3 1.25 cy / 0.96 m3	1987 - 2000 - 1986 - 1991 1971 - 1983 1983 - 1986 1986 - 1991 1986 - 1974 - 1981
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	3D 1700 1700 B 4 CN	80 hp 85 hp 85 hp	1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3	1980 - 1985 1985 - 1985 -	324 H 344 H 344 J 544 A 444 C 444 D 444 E	80 hp 98 hp 98 hp 94 hp 85 hp 90 hp 95 hp	1.75 cy / 1.34 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.50 cy / 1.14 m3 1.75 cy / 1.34 m3	2000 - 1971 - 1974 1981 - 1985 1985 - 1987 1987 -
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3					444 H 544 B 544 C 544 D 544 E 544 B 544 G 544 GTC 644 644 A	110 hp 105 hp 105 hp 105 hp 115 hp 105 hp 120 hp 120 hp 131hp 131hp	2.50 cy / 1.92 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.25 cy / 1.72 m3 2.00 cy / 1.53 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.00 cy / 1.53 m3 2.25 cy / 1.72 m3	1998 - 1974 - 1981 1981 - 1985 1985 - 1987 1987 - 1993 1974 - 1981 1963 - 1970 1963 - 1970 1981 - 1985 1985 - 1987

Loader (wheel) - Rubber Tired continued

Key Specifications	Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	J C B (continued)				John Deere (continued)			
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3					544 H 624 E 644 B 644 C	130 hp 145 hp 145 hp	3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 2.50 cy / 1.92 m3	1987 - 1993 1983 - 1988
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3					624 G 624 H 644 D 644 E 644 G 644 J	160hp 155 hp 160 hp 170 hp 185 hp	3.25 cy / 2.49 m3 3.50 cy / 2.68 m3 3.00 cy / 2.29 m3 3.25 cy / 2.49 m3 4.00 cy / 3.06 m3 3.50 cy / 2.68 m3	1971 - 1974- 1985 - 1988 1979 - 1988 1961- 1965 2004 -
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3								
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3								
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3					724 J 744 E 744 J 844	205 hp 288 hp	4.75 cy / 3.63 m3 4.50 cy / 3.44 m3	2003 - 1996 - 2004 -
6.00 cy / 4.59 m3 and over					824 J 844 J	316 hp 380 hp	6.00 cy / 4.59 m3 6.00 cy / 4.59 m3	2003 - 2006 -

Loader (wheel) - Rubber Tired continued

Key Specifications		Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year						
Standard Bucket c.y./m3	Komatsu				Massey Ferguson			
Under 1.00 cy / 0.76 m3	WA 20-1	21.7 hp	0.30 cy / 0.23 m3	1987 -	20 C	42 hp	0.62 cy / 0.47 m3	1976 - 1979
	WA 30-2	27.2 hp	0.44 cy / 0.34 m3	1986 -	20 C	45 hp	0.62 cy / 0.47 m3	1976 - 1983
	WA 30-5	41 hp	0.78 cy / 0.60 m3	1986 -	20 D	45 hp	0.75 cy / 0.57 m3	1983 - 1985
	WA 40-1	28 hp	0.52 cy / 0.40 m3		20 F	46 hp	0.75 cy / 0.57 m3	1986 -
	WA 50-3	36 hp	0.73 cy / 0.56 m3		30	61 hp	0.75 cy / 0.57 m3	1973 - 1977
	WA 65-5	53 hp	0.70 cy / 0.54 m3		30 E	45 hp	0.75 cy / 0.57 m3	1983 -
					40 E	58 hp	0.58 cy / 0.44 m3	1987 -
					711			
					711 B	30 hp	0.40 cy / 0.31 m3	1973 - 1978
					811	41 hp	0.33 cy / 0.25 m3	1975 - 1978
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	WA 70-1 WA 70-5 WA 80-5 WA 95-3 WA 100-1	55 hp 59 hp 59 hp 73 hp 73 hp	1.00 cy / 0.76 m3 1.10 cy / 0.84 m3 1.10 cy / 0.84 m3 1.40 cy / 1.08 m3 1.30 cy / 0.99 m3	1988 - 2003 - 1985 - 1987	33 60 H 50 D 50 E 50 F 50 H 50 HX	74 hp 74 hp 62 hp 65 hp 65 hp 65 hp 74 hp	1.38 cy / 1.06 m3 1.25 cy / 0.96 m3 1.00 cy / 0.76 m3 1.05 cy / 0.80 m3 1.00 cy / 0.76 m3 1.05 cy / 0.80 m3 1.00 cy / 0.76 m3	1973 - 1979 1986 - 1982 1983 1983 - 1985 1984 - 1984 -
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	WA 120-1 WA 120-1 WA 150-1 WA 150-5	85 hp 85 hp 94 hp 94 hp	1.50 cy / 1.14 m3 1.75 cy / 1.34 m3 1.60 cy / 1.22 m3 1.70 cy / 1.30 m3	1986 - 1986 - 1985 - 1987				
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	WA 180-1 WA 180-1 WA 200-1 WA 200-5 WA 200PT-5 WA 250	110 hp 118 hp 108 hp 118 hp 118 hp 130 hp	2.00 cy / 1.53 m3 2.25 cy / 0.96 m3 2.20 cy / 1.68 m3 2.50 cy / 1.92 m3 2.35 cy / 1.03 m3	1986 - 1986 - 1985 - 1987 1986 -	44 44 B 44 C	93 hp 93 hp 115 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.50 cy / 1.92 m3	1973 - 1979 1973 - 1979 1973 - 1979
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3	WA 250-1 WA 250-5 WA 250PT-5 WA 300-1 WA 320-1	144 hp 131hp 131hp 143 hp 150 hp	2.75 cy / 2.10 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 3.00 cy / 2.29 m3 2.75 cy / 2.10 m3	1986 - 1984 - 1987 1986 -	55 55 C	138 hp 144 hp	2.50 cy / 1.92 m3 3.00 cy / 2.29 m3	1973 - 1979 1973 - 1979

Loader (wheel) - Rubber Tired continued

Key Specifications	Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	Komatsu (continued)				Massey Ferguson (continued)			
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3	WA 320-1 WA 320-5 WA 320PT-5 WA 350-1	166 hp 163 hp 163 hp	3.25 cy / 2.48 m3 3.00 cy / 2.29 m3 3.25 cy / 2.48 m3	1986 - 1984 -				
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3	WA 380-1 WA 380-1 WA 380-5	180 hp 196 hp 183 hp	3.50 cy / 2.68 m3 4.00 cy / 3.06 m3 3.80 cy / 2.91 m3	1986 - 1986	66 66 C 66 C	175 hp 180 hp 180 hp	3.50 cy / 2.68 m3 3.50 cy / 2.68 m3 4.00 cy / 3.06 m3	1976 - 1979 1976 - 1979 1976 - 1979
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3	WA 400-1 WA 400-5 WA 420-1	197 hp 197 hp 224 hp	4.10 cy / 3.14 m3 4.10 cy / 3.14 m3 4.40 cy / 3.36 m3	1984 - 1987 1986 -				
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3	WA 450-1 WA 450-5 WA 420-1 WA 450-2 WA 470-1 WA 480-5 WA 500-1 WA 500 AP-3	237 hp 255 hp 224 hp 264 hp 260 hp 266 hp 291 hp 309 hp	4.50 cy / 3.44 m3 4.70 cy / 3.59 m3 4.50 cy / 3.44 m3 5.50 cy / 4.21 m3 5.00 cy / 3.83 m3 5.50 cy / 4.21 m3 5.20 cy / 3.98 m3 5.70 cy / 4.36 m3	1985 - 1986 - 1992 - 1986 - 1992 1985 -	77 77 C 77 C	224 hp 254 hp 258 hp	4.50 cy / 3.44 m3 5.00 cy / 3.83 m3 5.00 cy / 3.83 m3	1970 - 1976 1976 - 1979 1976 - 1979
6.00 cy / 4.59 m3 and over	WA 500-1 WA 600-1 WA 600-1 WA 700-1 WA 800-1	291 hp 415 hp 415 hp 641 hp 789 hp	6.05 cy / 4.63 m3 7.10 cy / 5.43 m3 7.50 cy / 5.73 m3 11.10 cy / 8.49 m3 13.70 cy / 10.47 m3	1985 - 1985 - 1985 - 1989 - 1986 - 1988	8888	254 hp 284 hp	6.00 cy / 4.59 m3 6.00 cy / 4.59 m3	1970 - 1978 1970 - 1978

Loader (wheel) - Rubber Tired continued

Key Specifications	Rubber Tired Front End Loader Make - Model - HP - CY / M3 - Year							
Standard Bucket c.y./m3	Terex							
Under 1.00 cy / 0.76 m3								
1.00 cy / 0.76 m3 to 1.50 cy / 1.14 m3	11 C	40 hp	1.00 cy / 0.76 m3	1981 - 1984				
1.50 cy / 1.14 m3 to 2.00 cy / 1.53 m3	22 C 33C	80 hp 94 hp	2.00 cy / 1.53 m3 1.75 cy / 1.34 m3	1981 - 1984 1981 - 1982				
2.00 cy / 1.53 m3 to 2.50 cy / 1.92 m3	33 C -2 72-21 72-21B	103 hp 109 hp 115 hp	2.00 cy / 1.53 m3 2.00 cy / 1.53 m3 2.00 cy / 1.53 m3	1981 - 1985 1967 - 1976 1979 - 1983				
2.50 cy / 1.92 m3 to 3.00 cy / 2.29 m3	40 C 44 C 44 D 72 -31 72 -31 - 1	113 hp 123 hp 134 hp 146 hp	2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3 2.50 cy / 1.92 m3	1981 - 1984 1984 - 1985 1967 - 1972 1972 - 1975				
3.00 cy / 2.29 m3 to 3.50 cy / 2.68 m3	72-41 55 B 55 C - 2B 55 C - 3B 72-31 B 60 C	153 hp 144 hp 158 hp 160 hp 160 hp	3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 3.00 cy / 2.29 m3 3.25 cy / 2.48 m3 3.25 cy / 2.48 m3	1967 - 1976 1981 - 1985 1984 - 1986 1977 - 1983 1983 -				

Loader (wheel) - Rubber Tired continued

Key Specifications	Rubber Tired Front End Loader				Make - Model - HP - CY / M3 - Year			
Standard Bucket c.y./m3	Terex (continued)							
3.50 cy / 2.68 m3 to 4.00 cy / 3.06 m3	72 - 51	194 hp	3.50 cy / 2.68 m3	1967 - 1976				
4.00 cy / 3.06 m3 to 4.50 cy / 3.44 m3	66 C	210 hp	4.00 cy / 3.06 m3	1981 - 1985				
4.50 cy / 3.44 m3 to 5.50 cy / 4.21 m3	72 - 51 B 70 C 72 - 61 72 - 61- 2 80 C	231 hp 247 hp 307 hp 307 hp 315 hp	4.50 cy / 3.44 m3 4.50 cy / 3.44 m3 5.50 cy / 4.21 m3 4.40 cy / 3.36 m3 5.50 cy / 4.21 m3	1977 - 1983 1983 - 1976 - 1983 1983 -				
6.00 cy / 4.59 m3 and over	72 - 71 72 - 71 B 90 B 90 C 85 B 72 -81	366 hp 388 hp 388 hp 460 hp 434 hp	6.50 cy / 4.96 m3 7.50 cy / 5.74 m3 7.50 cy / 5.74 m3 7.50 cy / 5.74 m3 9.00 cy / 6.88 m3	1971 - 1977 1977 - 1983 1983 - 1986 1983 - 1971 - 1983				

Tractor (4 x 2) - Rubber Tired

(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Allis Chambers (Fiat - allis)		50205030	D-10 D-10 S-11 D-12 D-12 S-11 D-14 D-14 S-11 D-15 D-15 S-11	T 400 T 600 1400 1600 615 One Sixty 5040 6040	D-17 One Seventy 5050	Crop Hustler 175 One Eighty 714 B 714 C 715 B 715 C 6060	Crop Hustler 185 6070 D-19	One Ninety XT Gas 816 816 B 918	One Ninety XT Diesel 6080
Belarus		250255		5150	4.0042041e+15	5.0056056e+15	5.7057280e+15	8228055190	9029506100
Canada Co-op		No 2 No 3 E 35 540 550 E 2 E 3	E 4 E 5	560570					

Tractor (4 x 2) - Rubber Tired continued
(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Case	2351120	1.1302453e+15	385 395 402 series 430 series 431 470 series 480 B 480 C 1140	380 series 380 CK 480 480 D 485 495 530 series 531 531 C 541 541 C 570 series 885 1190 1194 3230	380 B 480 E series 480 F series 580 B CK 580 C CK 580 D CK 585 595 730 series 731 731 C 731 CK series 741 741 C 770 series 990 995 1290 1365 2130 2140 3240	480 480 FLL 580 G 580 K 580 SK 580 Super D 580 Super E 584 E 585 E 586 E 685 690 695 770 AK series 830 CK series 841 CK series 1210 1390 2150 4210	580 H 680 CK 680 C BK 680 C CK 870 series 870 AK 885 895 1394 turbo 1490 1494 4230	590 turbo 680 E 680 G 680 H 680 K 680 L 930 CK series 931 941 970 series 1410 1494 5120 5220	780 940 series 940 AK 995 1594 1690 5130 5230
CAT						416	426436428438		446
Cockshutt - White - Oliver		2-30 2-35 FB 21	2-35 1250 1255 series FB 31	2-44 2-45 2-50 1265 FB 37	1355 series 1365 1450 1550 1555 series FB 43	2-55 2-60 2-62 2-63 1650 series	2-70 2-65 2-78 1465 1655 series	2-75 2-85 1750 series 1755 series	1850 series 1855 series

Tractor (4 x 2) - Rubber Tired continued

(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
David Brown		770 diesel	770 gas 885 gas 3800	780 785 880 880 diesel 4600	990995	120012101212		14101412	
Deutz - Allis	5015 5215 H	D 2506 5220 5230	D 3006 D 4006 6035	D 4506 D 4507 6140 6240	D 5206 D 5207 D 5506 6250	D 606 D 6206 D 6207 D 6806 D 6807 6260 F 6260 L 6265	6275 6275 F 6275 L D 7206	DX 90 D 8006 6280	D 900 G 7085
Fendt			231 GT 240 S	F 345 GT	303 LS 250 S 260 S 360 GT	305 LS 304 LS F 360 GT	307 LSA 380 GT	308 LS 309 LS 380 GT 307 LS	310 LS
Ford	LG T 14 D 1110 1120 1210 1320 1330 1100 series 1200 series 1220 1300 series 1310	15201720	970 1000 1070 1080 1910 1920 1930 2000 - 2910 2100 LCM 2120 2600 Baiser 2810 2910 LCG 3230 3430 4110 LCG series	230 A 250 C 300 AP diesel 335 340 340 A 340 B 420 445 445 A 445 C 2120 3100 3400 3300 series 3400 3500 3550 3600 3830 3910 3930 4000 series 4100 CA2	345 C 455 C 510 HC 515 530 A 540 540 A 540 B 5100 550 550 565 3430 4100 4100 KA 2 4100 LCG 4200 series 4400 4410 4500 4600 series 4610 4630 500 series	260 555 A 555 B 555 C 560 655 A (>1986) 5000-505 5100 5200 series 5600 5600 LA 1 series 5900 6600 6700 EC2 5000 - 8 5610 6600	555 C turbo 575 D 655 (> 1987) 655 C 655 B 5000 AP 5500 6500 6610	7000 7100 series 7600 7600-FA1 series 7700-FC2 series 6640	750 755 755 A 755 B 7500 7610 7710 7810 7840

Tractor (4 x 2) - Rubber Tired continued
(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Hesston			45-66	55-66	60-66 6-90	70-66 60-90	80-66 80-90	90-90	100-60
Inter- national		284	238 B 276 354 384 444 2444 364 434 454	240 A 2504 464 484 4500 B 2412	2400 B hydro 84 250 A 474 584 674 gas 754 544 624 2400 A	70 86 656 666 674 diesel 684 724 2400 B 2544 2656 3600 A 260 A 3600 A 686 784	70 756 766 gas 884 2500 B 270 A 3820 A 2500 A	270 280 A 766 diesel 826 hydro 886 2756	826 844 856 gas 966
Inter- national Hough			500			260 A	3500 A 3600 A		
JCB						3 C 1400 3 C 1550 3 CS 6000 214	1550 B 1400 B turbo 1400 B 3 CX 3 D 3 D 11 215 1500	4 CN 1700 B 3 D 1700 1600 B	

Tractor (4 x 2) - Rubber Tired continued

(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
John Deere	240655670755	8.5095077e+14	8.3088592e+23	JD 300 JD 300 B JD 300 TRF JD 301 JD 301 A JD 380 1120 1250 1520 1530 2040 2150 2155 5200	JD 210 C JD 302 JD 310 A JD 310 B JD 401 A 2155 2255 2355 5300	JD 310 C JD 401 B JD 401 D JD 410 JD 410 B JD 410 D 1650 2030 2120 2130 2350 2520 SR 2550 3020 PS 2440	JD 410 C JD 410 D JD 440 A JD 440 B JD 510 B 2555 2630 2640 2750 3020 SR 6300	JD 500 C JD 510 JD 510 C JD 610 B 2755 2840 2940 2950 4020 PS gas 4030 6400	Jd 540 JD 610 C 2955 400 Sr 4020 SR 4020 SR diesel 4040
Kioti	LB 2202								
Kubota	B 1550 DT B 1550 HSDT B 1750 DT B 1750 HSDT B 6100 B 6200 T B 7100 B 7100 HST B 8200 HST B 6200 HST B 7200 T B 8200 T L 175 L 185 L 450 5200 E 61700 61700 H 61800 61800 HS 62000 S L 2350	L 225 L 245 DT L 275 L 285 L 295 L 305 F L 2250 L 2550 L 2850	L 345 L 285 L 2850 L 3350	M 4500 L 4150 DT M 4050 M 4030 F M 4030 DT	M 5500 F M 4150 DT M 5030 DT	M 5950 M 6030 F	M 7500 F M 6950 M M 6950 F M 7030 DT	M 8030 DT	M 8950 DT

Tractor (4 x 2) - Rubber Tired continued
(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Leyland			500			260 A	3500 A 3500 A		
Massey Ferguson	10101020205	MF 1030 1035 210 220 1125 1140 1250-2	1.3523524e+28	20 F 20 TS 20 C 3075 165 gas 255 253 30 H 308 40 250 360	40 B 165 diesel 1745 670 356 375 265 362	30 31 50 C 175 180 194 F 293 390 270 MF 375 60 H 275 302 304 3050 3165 Turf 50 EX 50 H 50 HX	398690 383 283 3060 MF 390 3945	285 399 1080 60 698 390 T 1085 70 398	1100 3505 MF 3090 MF 398 393 399 396 2640 3505
Minneapolis Moline				Jet Star 3	U 302 G 450 G 550		M 670 G 750	G 850	G 900 G 940 G 950
Mitsubishi		MT 210 MT 210 D MT 250 MT 250 D							
Satch		5650 G							

Tractor (4 x 2) - Rubber Tired continued
(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Universal			300340350	445 445 V 445 L 453	530 550 530 L 530 SD	640 640 V 640 L 643 640 SD 703		850	
Viking								T 800	
Volvo		T 425			T 55				
White	FB 16	FB 21	FB 31	FB 37	FB 43	2-55	2-65	2-75 2-88	
Yanmar	YM 169 YM 187	YN 226 YM 276 YM 336							

**Tractor (4 x 2) - Rubber Tired
(Over 100 HP)**

Make	101 hp - 110 hp	111hp - 120hp	121hp - 130 40 hp	131 hp - 150 hp	151 hp -175 hp	176 hp - 200 hp
Allis Chambers (Fiat Allis)	D 200 turbo 780 7000 7010 turbo		D 21 D 21 turbo D 210 7020 turbo	D 220 7030 turbo 7040 turbo 7045 turbo 8030	7050 turbo 8050 7060 turbo 8070	7080 turbo
Belarus		100				
Case	1030 series 1031 GP 1032 SW 1070 series]1070 AK series 1090 series 1896 2090 5140	780 B 780 C 780 D 780 CK 1170 turbo 2094	1170 turbo AK series 1175 turbo AK series 1270 turbo AK series 2290 2096	229471107210	1370 turbo AK series 2390 2394 7120 7220	1.57025902595e+23
CockShutt- White-Oliver	2-105 2-105 MT 1950 turbo 1955 turbo series	S-115 MT 2050 series 2150		2-135 2150 turbo series 2-144 MT 2-150 2155 2255 - series		170 2-180
Deutz Allis	DX 110 D 10006 8010		DX 130 D 13006 DX 650 7010 7110	DX 140 7120 DX 160	71459150	DX 830 9170
Dynahoe	290490					
Fendt	311 LS F 390 GHA	312 LSA				

Tractor (4 x 2) - Rubber Tired

(Over 100 HP) ... continued

Make	101 hp - 110 hp	111hp - 120hp	121hp - 130 40 hp	131 hp - 150 hp	151 hp -175 hp	176 hp - 200 hp
Ford	755 C 7910 8000 series 8000 AP 8100 8200 8210 8240 8400 8600	TW 5 TW 10 series 8700 GCZ series 8340 8530 8700 GC2 series	TW 15	TW 20 series 9000 9600 9700 HC 2 series TW 25 8630	TW 30 series TW 35 8670 8730 8770	88308870
Hesston		130-90		140-90	160-90 180-90	
International	100 186 856 diesel 986	1026 D 1026 1066 turbo 1256 2656 21256	106628262102621460	1.08614361456e+19	1568146615661586	
John Deere	JD 710 B 4050 4230 710 C 7200 7400	JD 710 B 4240 4320 JD 710 C 4055 7600	425044304520	4255 4440 4450 4620 5020 SR 5020 turbo 7800 JD 700 A JD 760	JD 760 A 4630 4640 4650 4455 4555 6030	4840485047554760
Massey- Ferguson	110526753090803120	3525	1130 turbo 1135 turbo 2705 3630 3140	1150 3545 MF 3630 1155 2745 MF 3650	MF 3545 3660 2775 MF 3680	1.80528053690e+19
Minneapolis Moline		G 1000 vista 1050		G 1350		

Tractor (4 x 2) - Rubber Tired
(Over 100 HP) ... continued

Make	101 hp - 110 hp	111hp - 120hp	121hp - 130 40 hp	131 hp - 150 hp	151 hp -175 hp	176 hp - 200 hp
Universal	1010					
Versatile						500555168756
Viking	810 turbo					
White (WFE)		2-110				

Tractor (4 x 4) - Rubber Tired

(Under 100 HP)

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Allis Chalmers								8406080	480 B 940
Belarus					4004204255150	5.0052053e+15	5.7057280e+15	8228255180	9229525190
Cat.						416	426428436438		446
Case	2351120	2.4525528e+15	FH 4 385 395 1140	1.1944855e+13	480 E Ser. 585 595 1290 1294 2130 2140 3240	480 F 480 FLL 580 G 580 K 580 SK 580 Super D 580 Super E 584 series 585 series 586 E Ser. 685 695 1210 1390 2150 4210	8.8589514e+17	590 Turbo 680 L 1410 1494 5120 5220	9.9515944e+18
Cockshut- White- Oliver			12501255	12651270	7-79 1355 1365 1450 1655 G	1365 1370 1650 1655 D	4-78 1470 1655	175017551855	1850 1855 1950 Gas
Deutz - Allis	5015 5215 H	52205230		61406240	625 V 6250	6260 F 6260 L 6265	6275 F 6275 L	6280	7085

Tractor (4 x 4) - Rubber Tired

(Under 100 HP).... continued

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Fendt			240 S	250 250 S 250 SA 250 V 250 VA	260 P/ 260 V 260 SA 303 LSA 365 GTA 304 LS 304 LSA	305 LS 305 LSA 270 V 270 P	2755 2755 SA 306 LSA 307 LSA 380 GHA 380 GTA 280 P	308 LSA 309 LSA	310 LSA
Ford	LGT- 18 H 1110 1120 1210 1220 1310 1320 LGT 14 D	1.510152e+15	1.910192e+15	250 C 340 B 345 C 345 D 445 A 445 C 445 D 3910 3930	445 C 445 D 455 C 455 D 545 550 545 C 545 D 4030 4610	Country Super 4 (754) 555 A 555 B 555 C 655 A (1986 +) 4230 4630 5030 5900 5610 260 C	FS-4 Super 4 (854) 6610 555 C Turbo 575 D 655 A (1987 +) 655 C 655 D 4430 5640	6640	Country Super (1164) 7610 7710 755 B 7740 7810 7840
Hesston				55-66	60-66 60-90	70-66 70-99 70-90	80-66 80-90 780 DT	90-90	100-90
International Hough						H 30 RB			
J C B						3 BC-1400 3 BC-1500 3 BCS-6000 214 1400 B	3 CX 3 D 525 B 1500 1550 B 3/4 Sitemaster	4 CN 214 Super Sitemaster 215 215 S 217 217 S 530	

Tractor (4 x 4) - Rubber Tired

(Under 100 HP).... continued

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
John Deere	655670755	770855870955	9701070	1.2502150e+15	JD 210 C 300 D 1450 2255 2350 5300	JD 310 C 2550 410 A 410 B 2355 2750 6200	JD 410 C JD 410 D 440 440 A 440 B 2355 2750 6300	JD 510 C JC 510 D 440 B-PS 2755 2950 6400	JD 610 C 2955
Kioti	LB 2204 LB 1714								
Kubota	18005 L 185 DT L 2350 B 20 B 1550 D B 1550 HSD B 1750 D B 1750 HSD B 2150/HSD B 4200 B 5200 DT B 6100 B 6100 DT B 6200 DT B 7100 D B 7100 DT B 7200 HST B 7200 DT B 8200 DT B 8200 HST B 9200	L 235 DT L 245 DT L 275 DT L 295 DT L 305 DT L 305 F L 310 L 2250 DT L 2550 DT L 2350 L 2650 L 2850 L 2950 L 2550 GST L 2850 GST	L 345 DT 2250 2550 2850 DT L 3350 DT L 255 SS R 400 B L 3450 L 3650	M 4050 L 4150 M 4030 DT L 4350 DT L 4360 HDT-W L 48501 HDT-W R 510	M 4500 DT M 5500 DT M 4950 DT M 5030 DT L 5450 HDT-W	M 5950 DT M 6030 DT	M 7500 DT M 6950 DT M 69050 DTC M 7030 DTC M 7580 DT	M 7950 M 8030 DT M 8580 DT	M 8950 DT M 8950 DTC M 8980 DT
Leyland						472			

Tractor (4 x 4) - Rubber Tired

(Under 100 HP).... continued

Make	under 21 hp	21 hp - 30 hp	31 hp - 40 hp	41 hp - 50 hp	51 hp - 60 hp	61 hp - 70 hp	71 hp - 80 hp	81 hp - 90 hp	91 hp - 100 hp
Massey Ferguson	205-4 1010	210-4 220-4 1030 1135 1125 1140 1150-4	1045 1145 1160 1260-4	1543602541180	3.6211902e+14	MF 375 194 F 274 670 184-4 3050 374S	3060 3845 294 MF 390 383	3070 3945 398 390 T	2.64035054e+16
Mrs. Minneapolis					G 450		G 750	G 850	G 940
Mitsubishi		MT 210 MT 210 D MT 250 MT 250 D							
Muir Hill									101
Universal			300 DTC 340 DTC 350 DTC	445 DTC	530 530 DTC 530 DTCE 550 550 DTC	640 DTC 640 DTCE 643 DT 703 DT		850 DT	
Yanmar		YM 226 D YM 276 D YM 336 D							
Versatile							160		256
White (WFE)	FB 16	FB 21 2-30 2-35	FB 31 2-32	FB 37 2-45	FB 43	2-55 2-60 2-62	2-65	2-75 2-80 2-88	

Tractor (4 x 4) - Rubber Tired (Over 100 HP)

Make	101 hp - 110 hp	111hp - 120hp	121hp - 130 40 hp	131 hp - 150 hp	151 hp -175 hp	176 hp - 200 hp
Allis Chalmers (Fiat-Allis)			4 W 220 DX 650	220	758080508070	4408580
Austin Western	22					
Belarus	1001026100				15001770	K 107 7011 7100 7111
Case	1690189651405240	2094 780 B 780 C 780 D	120020965250	1740229471107210	2394449071207220	2.59432947131e+23
Cockshutt- White-Oliver	4-105 4-105 MT 1950 Diesel 1950 T 1955	4-115 4-115 MT 2050		2150 4-144 MT 4-144 HD 2225 2655	4-150 4-175	4-180 4-210
Deutz-Allix	8010	DX 630	70107110	7120 DX 710	71459150	91709190
Dynahoe	290490					
Fendt	311 LSA	312 LSA	611 LSA	612 LSA 614 LSA	615 LSA	
Ford	Super Six (954/1124) 8210 7910 8240	TW 5 8530 7600	TW 15	TW 25 8630	FW 20 TW 35 8670 8730	88308870
Hesston	100-90	130- 90		140-90	160-90 180-90	

Tractor (4 x 4) - Rubber Tired (Over 100 HP) ... continued

Make	101 hp - 110 hp	111hp - 120hp	121hp - 130 40 hp	131 hp - 150 hp	151 hp -175 hp	176 hp - 200 hp
International	10563820	964		33883588	36883788	4386
John Deere	4050 4055 JD 170 B JD 170 C 710 B 710 C 3155 7200 7400	7600	4250	445042557700	4.45545554560e+19	4850844047554760
Massey Ferguson	30903120	3525	36303140	3545 MF 3650	3660367036804800	36904840
Minneapolis Moline		C 1000			A 4 T 1400 A 4 T 1600	
Mrs Minneapolis				A-80 B	A 90 B 1-905 A-95	
Muir Hill				161		
Raygo-Wagner			WA-4 WSC-4 TC WS-4		WA 9 TR 14 A	
Versatile		276	300			555835836
White (WFE)		2-110		2-135 125	2-155 145	170 2-180 1-185