

2006 Machinery Ownership And Operation Costs

Operation	Unit	Labor	\$ Cost per Acre, Diesel @ \$2.00 per gallon, Wage \$10.00/hr						THI@ 6.5%	Equipment			Pwr to Trade			Imp to Trade			% Life	
			Fuel & Lube		Repairs		Deprec			Total	Pwr	Imp	Pwr	Bot Yrs	Hrs /yr	% Life	Imp	Bot Yrs		Ann'l use
			Lube	Power	Impl	Power	Impl	Power												
Primary Tillage																				
Chisel	1 ac	\$0.98	\$1.49	\$0.15	\$0.58	\$0.86	\$0.78	\$0.85	\$0.94	\$6.63	130HP	19FT	New	15	400	38%	New	20	760 ac	73%
Chisel	1 ac	0.98	1.49	0.27	0.58	0.50	0.78	0.48	0.94	6.02	130HP	19FT	New	15	700	66%	New	20	760 ac	73%
Disc	1 ac	1.00	1.52	0.16	0.83	0.88	0.85	0.86	0.71	6.81	130HP	21FT	New	15	400	38%	New	15	1,260 ac	93%
Field Cult	1 ac	0.51	0.77	0.08	0.47	0.44	0.48	0.44	0.47	3.66	130HP	28FT	New	15	400	38%	New	15	2,380 ac	88%
Field Cult	1 ac	0.51	0.77	0.14	0.47	0.44	0.48	0.25	0.47	3.34	130HP	28FT	New	15	700	66%	New	15	2,380 ac	88%
Plow	1 ac	1.65	2.51	0.53	1.82	1.10	1.15	0.91	1.14	10.82	160HP	8-18	New	15	700	66%	New	15	800 ac	97%
Subsoil	1 ac	1.32	2.00	0.30	0.40	1.86	2.77	1.58	3.16	13.41	200HP	12.5FT	New	15	400	38%	New	20	200 ac	26%
Disk ripper	1 ac	1.58	2.71	0.63	0.57	1.30	3.31	1.08	3.08	14.25	200HP	12.5FT	New	15	700	66%	New	20	300 ac	47%
Seed Bed Preparation																				
Fallow Master	1 ac	0.51	0.81	0.20	0.49	0.41	1.05	0.34	1.20	5.02	200HP	28FT	New	15	700	66%	New	20	1,200 ac	59%
Harrow	1 ac	0.59	0.22	0.43	0.08	0.04	0.28	0.12	0.43	2.18	60HP	24FT	Used	10	200	77%	New	30	500 ac	43%
Rod Weeder	1 ac	0.83	0.82	0.22	0.61	0.42	1.12	0.41	1.04	5.46	130HP	24FT	New	15	700	66%	New	20	800 ac	65%
Roll	1 ac	1.10	1.10	1.05	0.30	0.09	1.81	0.28	2.15	7.89	75HP	15FT	Used	10	200	77%	New	30	300 ac	49%
Roller Harrow	1 ac	1.38	0.98	1.00	0.46	0.09	0.61	0.27	0.59	5.38	60HP	12FT	Used	10	200	77%	New	20	720 ac	97%
Application of Fertilizers and Chemicals																				
Anhy Apply	1 ac	1.04	1.47	0.18	Incl	1.13	Incl	0.96	Incl	4.78	200HP	Incl	New	15	400	38%	New	12	800 ac	84%
Anhy Apply	1 ac	1.39	1.62	0.20	0.60	1.23	0.59	1.04	0.52	7.19	160HP	22.5FT	New	15	400	38%	New	15	800 ac	79%
Anhy Apply	1 ac	1.05	1.22	0.18	1.21	1.13	1.16	0.96	1.28	8.20	200HP	30FT	New	15	400	38%	New	12	800 ac	84%
Anhy Apply(attach)	1 ac	0.27			0.16		0.16		0.14	0.73		22.5FT					New	12	800 ac	84%
Anhy Apply(attach)	1 ac	0.16			0.16		0.16		0.14	0.62		22.5FT					New	12	800 ac	84%
Apply Nemat	1 ac										Custom						New	15	2,500 ac	98%
Spray	1 ac	0.49	0.23	0.29	0.25	0.03	0.21	0.08	0.23	1.81	60HP	50FT	Used	10	200	77%	New	15	1,200 ac	78%
Spray	1 ac										Custom						New	15	1,200 ac	78%
Spray	1 ac	0.81	0.25	0.48	0.16	0.04	0.18	0.13	0.20	2.26	60HP	30FT	Used	10	200	77%	New	15	1,200 ac	78%
Spray(attach)	1 ac	0.16			0.16		0.18		0.20	0.71		30FT					New	15	1,200 ac	78%
Spray liquid fert	1 ac	0.81	0.25	0.48	0.16	0.04	0.18	0.13	0.20	2.26	60HP	30FT	Used	10	200	77%	New	15	1,200 ac	78%
Spread Fert.	1 ac	0.78	0.55	0.46	Incl	0.04	Incl	0.12	Incl	1.96	60HP	Incl	Used	10	200	77%				
Spread manure	1 ac										Custom									
Planting																				
Drill	1 ac	0.68	0.95	0.10	2.34	0.55	2.94	0.54	3.78	11.88	130HP	35FT	New	15	400	38%	New	20	1,000 ac	82%
No-Till Drill	1 ac	1.59	1.80	0.23	1.99	1.28	1.81	1.26	2.32	12.28	130HP	15FT	New	15	400	38%	New	20	500 ac	95%
Drill	1 ac	1.49	1.36	1.31	0.84	0.12	0.87	0.35	1.12	7.46	75HP	16FT	Used	10	200	77%	New	20	500 ac	89%
Plant	1 ac	1.82	0.91	0.25	0.54	1.41	2.08	1.38	1.63	10.02	130HP	6-30	New	15	400	38%	New	8	500 ac	42%
Plant	1 ac	1.82	0.91	0.44	0.54	0.81	2.08	0.79	1.63	9.02	130HP	6-30	New	15	700	66%	New	8	500 ac	42%
Plant No-Till	1 ac	2.03	1.27	0.28	1.05	1.56	1.56	1.54	1.53	10.83	130HP	6-30	New	15	400	38%	New	12	500 ac	70%
Till Plant Beets	1 ac	1.52	2.54	0.53	0.51	1.10	3.84	0.91	4.94	15.89	200HP	8-30	New	15	700	66%	New	20	200 ac	35%
Plant Narrow Row	1 ac	2.03	1.27	0.28	1.74	1.56	2.59	1.54	2.54	13.54	130HP	6-30/15	New	15	400	38%	New	12	500 ac	70%
Ridge Plant	1 ac	2.03	1.27	0.28	1.05	1.56	1.56	1.54	1.53	10.83	130HP	6-30	New	15	400	38%	New	12	500 ac	70%
Seeder/Packer	1 ac	2.22	1.75	1.49	Rent	0.13	Rent	0.40	Rent	5.99	60HP	Rent	Used	10	200	77%				
Grass Drill	1 ac	2.22	1.75	1.49	Rent	0.13	Rent	0.40	Rent	5.99	60HP	Rent	Used	10	200	77%				
Row Crop Tillage																				
Hoe	1 ac	0.66	0.47	0.10	0.05	0.58	0.31	0.57	0.29	3.03	130HP	15FT	New	15	400	38%	New	20	500 ac	32%
Ridge Cult	1 ac	1.68	1.64	0.26	0.66	1.45	0.63	1.42	0.62	8.37	130HP	6-30	New	15	400	38%	New	15	750 ac	91%
Row Crop Cult	1 ac	1.68	0.94	1.08	0.29	0.57	0.28	0.89	0.27	5.99	105HP	6-30	Used	20	200	70%	New	15	750 ac	91%
Hill/ditch	1 ac	1.68	1.64	0.26	0.66	1.45	0.63	1.42	0.62	8.37	130HP	6-30	New	15	400	38%	New	15	750 ac	91%

THI = Taxes, Housing, Interest, Insurance

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		Fuel & Lube		Repairs		Deprec		THHl @ 6.5%		Equipment		Pwr Bot Yrs	Hrs /yr	% Life	Imp Bot Yrs	Ann'l use	% Life			
		Labor	Power	Impl	Power	Impl	Power	Impl	Total	Pwr	Imp									
Irrigation																				
Corrigate	1 ac	\$1.55	\$0.86	\$0.09	\$0.46	\$0.39	\$0.71	\$0.60	\$5.91	105HP	15FT	Used	20	200	70%	New	30	200 ac	39%	
Ditch	1 ac	2.28	2.21	0.30	1.70	0.24	1.67	0.29	8.76	130HP	Ditch	New	15	400	38%	New	30	200 ac	57%	
Labor																				
Thin	1 ac																			
Weed	1 ac																			
PreHarvest																				
Cut Dry Beans	1 ac	1.80	1.88	0.45	0.83	0.89	0.81	1.05	8.06	130HP	15FT	New	15	700	66%	New	30	300 ac	73%	
Top Beets	1 ac	1.88	1.36	0.52	0.97	2.65	0.94	2.55	12.05	130HP	6ROW	New	15	700	66%	New	20	300 ac	94%	
Lift Beets	1 ac	2.13	2.42	0.53	0.99	8.90	0.96	6.58	35.03	130HP	6ROW	New	15	700	66%	New	12	600 ac	92%	
Turn Windrows	1 ac	0.88	0.34	0.65	0.06	0.64	0.17	0.60	3.42	60HP	9FT	Used	10	200	77%	New	20	300 ac	25%	
Double Windrows	1 ac	0.88	0.34	0.65	0.06	2.04	0.17	1.92	6.30	60HP	9FT	Used	10	200	77%	New	20	300 ac	25%	
Rod Dry Beans	1 ac	1.94	1.88	0.45	0.83	0.55	0.81	0.65	7.39	130HP	15FT	New	15	700	66%	New	30	300 ac	73%	
Swath/Cond Hay	1 ac	1.23	1.25	0.82	0.43	1.19	0.67	1.08	7.72	105HP	14FT	Used	20	200	70%	New	20	1,000 ac	98%	
Windrow Grain	1 ac	1.15	0.69	0.64	0.34	2.23	0.52	2.09	7.83	105HP	18FT	Used	20	200	70%	New	20	500 ac	32%	
Pickett Windrower	1 ac	1.55	1.75	0.43	0.88	2.88	0.73	3.41	12.69	160HP	15FT	New	15	700	66%	New	30	300 ac	58%	
Harvesting																				
Sm Sq Bale	1 ton	2.55	0.89	1.71	0.15	2.49	0.46	3.04	12.53	60HP	50Lb	Used	10	200	77%	New	30	200 ton	69%	
Lg Rd Bale	1 ton	0.82	0.43	0.12	0.66	2.39	0.65	2.31	7.70	130HP	1500Lb	New	15	400	38%	New	20	300 ton	30%	
Lg Sq Bale	1 ton	0.68	0.77	0.12	0.72	1.45	0.61	1.77	6.86	160HP	1350Lb	New	15	400	38%	New	30	1,200 ton	74%	
Lg Sq Bale	1 ton									Custom										
Combine	1 ac	1.94	3.13	2.42	9.90	0.67	5.82	0.54	24.63	190HP	Pickup	New	10	200	67%	New	20	750 ac	87%	
Combine	1 ac	1.52	2.92	1.90	7.77	1.13	4.57	0.97	20.89	190HP	G20FT	New	10	200	67%	New	20	500 ac	46%	
Combine	1 ac	1.52	2.92	1.98	8.09	1.13	4.75	0.97	21.47	220HP	G20FT	New	10	200	67%	New	20	500 ac	46%	
Combine	1 ac	0.97	2.32	1.40	5.73	0.61	3.37	0.51	15.05	275HP	G30FT	New	10	200	67%	New	20	1,200 ac	70%	
Combine dryland	1 ac	2.02	3.87	2.52	10.31	1.79	6.06	1.28	28.70	190HP	6-30	New	10	200	67%	New	15	800 ac	95%	
Combine irrig	1 ac	2.64	5.07	3.30	13.50	1.79	7.93	1.28	36.37	190HP	6-30	New	10	200	67%	New	15	800 ac	95%	
Combine	1 ac	1.94	3.72	2.42	9.90	0.87	5.82	0.72	25.76	190HP	15Flex	New	10	200	67%	New	20	800 ac	93%	
Chop Silage	1 ac									Custom										
Handling																				
Auger	100 bu	0.36	0.12	0.23	0.02	0.15	0.06	0.15	1.16	60HP	10"	Used	10	200	77%	New	20	200 bu000	61%	
Cart	100 bu	0.46	0.59	0.07	0.45	0.58	0.38	0.54	3.41	160HP	750BU	New	15	400	38%	New	20	200 bu000	76%	
Dry	1 bu									Custom										
Gravity wagon	100 bu									240BU										
Stack Sm Sq	1 ton	3.20	1.03	1.98	0.18	0.39	0.53	0.47	8.06	60HP	Wagon	Used	10	200	77%	New	30	200 bu000	80%	
Load Lg Sq	1 ton	1.20	0.88	0.19	1.17	0.79	0.99	0.74	6.02	160HP	Loader	New	15	400	38%	New	20	450 ton	17%	
Move Lg Rd	1 ton	0.89	0.65	0.12	0.66	0.08	0.65	0.09	3.15	130HP	Fork	New	15	400	38%	New	30	200 ton	22%	
Truck	1 bu									Custom										
Truck	1 cwt									Custom										
Truck	1 ton									Custom										
Miscellaneous																				
Chop Stalks	1 ac	0.88	0.93	0.12	0.66	0.61	0.65	0.56	4.66	130HP	20FT	New	15	400	38%	New	20	800 ac	98%	
Pack Silage	1 ton	0.30	0.22	0.05	0.29	0.79	0.25	0.74	2.69	160HP	Loader	New	15	400	38%	New	20	450 ton	17%	

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