

2009 Alabama Major Row Crops Machinery Costs													
Adapted from AgEcon Budgets of Mississippi State University 2009			Labor Rate Charged at:		\$10.91 per hour		Diesel Fuel		\$2.46 per gal				
			Unallocated labor :		1.25 time machine labor								
Machinery Type		Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Fuel	R&M	Total Variable	Fixed Cost	Total Cost		
		HP				gal/hr			-----\$/hour-----				
Combine	(250-299 hp)	275	194,693	300	8	14.15	34.8	20.28	65.99	88.48	154.48		
Combine	(300-349 hp)	325	228,109	300	8	16.73	41.15	23.76	75.82	103.67	179.49		
Combine	(350-379 hp)	370	240,137	300	8	19.04	46.83	25.01	82.76	109.13	191.9		
Combine	(395-420 hp)	400	273,622	300	8	20.58	50.62	28.5	90.03	124.35	214.39		
Cotton Stripper		173	134,267	200	8	8.08	19.87	20.97	51.76	91.53	143.29		
Tractor(40-59hp)CB	2WD	50	28,984	600	8	2.57	6.33	0.9	18.14	6.11	24.25		
Tractor(40-59hp)CB	MFWD	50	31,863	600	8	2.57	6.33	0.99	18.23	6.71	24.95		
Tractor(40-59hp)RB	2WD	50	18,617	600	8	2.57	6.33	0.58	17.82	3.92	21.74		
Tractor(40-59hp)RB	MFWD	50	23,528	600	8	2.57	6.33	0.73	17.97	4.96	22.93		
Tractor(60-89hp)CB	2WD	75	36,964	600	8	3.86	9.49	1.15	21.56	7.79	29.35		
Tractor(60-89hp)CB	MFWD	75	41,620	600	8	3.86	9.49	1.3	21.7	8.77	30.48		
Tractor(60-89hp)RB	2WD	75	27,169	600	8	3.86	9.49	0.84	21.25	5.72	26.98		
Tractor(60-89hp)RB	MFWD	75	33,056	600	8	3.86	9.49	1.03	21.43	6.96	28.4		
Tractor(90-119hp)CB	2WD	105	54,137	600	8	5.4	13.29	1.69	25.89	11.41	37.31		
Tractor(90-119hp)CB	MFWD	105	64,936	600	8	5.4	13.29	2.02	26.23	13.69	39.92		
Tractor(90-119hp)RB	2WD	105	37,544	600	8	5.4	13.29	1.17	25.37	7.91	33.29		
Tractor(90-119hp)RB	MFWD	105	44,843	600	8	5.4	13.29	1.4	25.6	9.45	35.06		
Tractor(120-139hp)CB	2WD	130	76,003	600	8	6.69	16.46	2.37	29.74	16.02	45.77		
Tractor(120-139hp)CB	MFWD	130	88,605	600	8	6.69	16.46	2.76	30.13	18.68	48.82		
Tractor(140-159hp)CB	2WD	150	88,335	600	8	7.72	18.99	2.76	32.66	18.62	51.28		
Tractor(140-159hp)CB	MFWD	150	102,055	600	8	7.72	18.99	3.18	33.09	21.51	54.61		
Tractor(160-179hp)CB	2WD	170	95,567	600	8	8.75	21.52	2.98	35.42	20.93	56.35		
Tractor(160-179hp)CB	MFWD	170	116,823	600	8	8.75	21.52	3.65	36.08	25.58	61.67		
Tractor(180-199hp)CB	2WD	190	109,958	600	8	9.77	24.05	3.43	38.4	24.08	62.49		
Tractor(180-199hp)CB	MFWD	190	118,310	600	8	9.77	24.05	3.69	38.66	25.91	64.58		
Tractor(200-249hp)CB	4WD	225	147,066	600	8	11.58	28.49	4.59	43.99	32.21	76.2		
Tractor(200-249hp)CB	MFWD	225	146,615	600	8	11.58	28.49	4.58	43.98	32.11	76.09		
Tractor(200-249hp)CB	Track	225	168,214	600	8	11.58	28.49	5.25	44.65	36.84	81.5		
Tractor(250-349hp)CB	4WD	300	171,753	600	8	15.44	37.98	5.36	54.26	37.62	91.88		
Tractor(250-349hp)CB	MFWD	300	175,962	600	8	15.44	37.98	5.49	54.39	38.54	92.93		
Tractor(250-349hp)CB	Track	300	185,222	600	8	15.44	37.98	5.78	54.68	40.57	95.25		
Tractor(350-449hp)CB	4WD	400	203,681	600	8	20.58	50.64	6.36	67.92	44.61	112.53		
Tractor(350-449hp)CB	Track	400	245,097	600	8	20.58	50.64	7.65	69.21	53.68	122.9		
Tractor(450-550hp)CB	Track	475	279,879	600	8	24.44	60.14	8.74	79.8	61.3	141.1		
Tractor(450-550hp)CB	4WD	500	246,077	600	8	24.44	60.14	7.68	78.74	53.9	132.64		

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Equipment Type	Tractor/Power Unit			Purchase	Annual	Useful	Fuel	Perf	Machine	Fuel	R&M	Total	Fixed	Total
	Size		Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost	
							gal/hr	hr/acre	hr/acre		-----\$/acre-----			
Bedder/Roller-Fold.	21'	MFWD	190	15,239	160	10		0.089	0.098	2.14	0.67	2.81	3.32	6.13
Bedder/Roller-Fold.	26'	MFWD	190	19,611	160	10		0.072	0.079	1.73	0.61	2.34	2.90	5.24
Bedder/Roller-Fold.	30'	MFWD	190	25,485	160	10		0.062	0.068	1.50	0.62	2.12	2.79	4.91
Bedder/Roller-Rigid	21'	MFWD	190	14,888	160	10		0.089	0.098	2.14	0.66	2.80	3.29	6.09
Bedder/Roller-Rigid	26'	MFWD	190	16,295	160	10		0.072	0.079	1.73	0.55	2.28	2.73	5.01
Blade-Box	6'-7'	2WD	130	1,313	200	20		0.020	0.022	0.32	0.05	0.37	0.33	0.70
Boll Buggy-1st pick	4R-30(250)	MFWD	190	26,045	200	10		0.327	0.360	7.87	3.34	11.21	13.38	24.59
Boll Buggy-1st pick	4R-30(325)	MFWD	190	26,045	200	10		0.327	0.360	7.87	3.34	11.21	13.38	24.59
Boll Buggy-1st pick	4R-38(255)	MFWD	190	26,045	200	10		0.257	0.283	6.20	2.62	8.82	10.54	19.36
Boll Buggy-1st pick	4R-38(325)	MFWD	190	26,045	200	10		0.257	0.283	6.20	2.62	8.82	10.54	19.36
Boll Buggy-1st pick	6R-30(325)	MFWD	190	26,045	200	10		0.218	0.240	5.25	2.22	7.47	8.92	16.39
Boll Buggy-1st pick	6R-38(330)	MFWD	190	26,045	200	10		0.172	0.189	4.14	1.75	5.89	7.04	12.93
Boll Buggy-2nd pick	4R-30(250)	MFWD	190	26,045	200	10		0.277	0.305	6.67	2.82	9.49	11.33	20.82
Boll Buggy-2nd pick	4R-30(325)	MFWD	190	26,045	200	10		0.277	0.305	6.67	2.82	9.49	11.33	20.82
Boll Buggy-2nd pick	4R-38(255)	MFWD	190	26,045	200	10		0.218	0.240	5.25	2.22	7.47	8.92	16.39
Boll Buggy-2nd pick	4R-38(325)	MFWD	190	26,045	200	10		0.218	0.240	5.25	2.22	7.47	8.92	16.39
Boll Buggy-2nd pick	6R-30(325)	MFWD	190	26,045	200	10		0.184	0.202	4.44	1.88	6.32	7.56	13.88
Boll Buggy-2nd pick	6R-38(330)	MFWD	190	26,045	200	10		0.145	0.160	3.51	1.48	4.99	5.96	10.95
Boll Buggy-Stripper	4R-36	MFWD	150	26,045	200	10		0.272	0.299	5.18	2.64	7.82	9.95	17.77
Boll Buggy-Stripper	4R-38	MFWD	150	26,045	200	10		0.257	0.283	4.89	2.49	7.38	9.40	16.78
Boll Buggy-Stripper	6R-30	MFWD	150	26,045	200	10		0.218	0.240	4.14	2.11	6.25	7.96	14.21
Boll Buggy-Stripper	6R-38	MFWD	150	26,045	200	10		0.172	0.189	3.27	1.66	4.93	6.28	11.21
Boll Buggy-Stripper	8R-30	MFWD	150	26,045	200	10		0.163	0.179	3.10	1.58	4.68	5.97	10.65
Chisel Plow(Folding)	16'	2WD	130	12,422	150	12		0.115	0.127	1.90	0.78	2.68	2.87	5.55
Chisel Plow(Folding)	24'	MFWD	190	25,073	150	12		0.076	0.084	1.83	0.97	2.80	3.35	6.15
Chisel Plow(Folding)	32'	MFWD	225	30,224	150	12		0.057	0.063	1.64	0.89	2.53	3.09	5.62
Chisel Plow(Folding)	42'	MFWD	225	34,465	150	12		0.044	0.048	1.25	0.74	1.99	2.49	4.48
Chisel Plow(Rigid)	15'	2WD	130	9,338	150	12		0.123	0.135	2.02	0.70	2.72	2.79	5.51
Chisel Plow(Rigid)	24'	MFWD	190	8,244	150	12		0.077	0.085	1.85	0.50	2.35	2.44	4.79
Chisel-Harrow	21 shank	2WD	190	8,951	150	12		0.088	0.097	2.11	0.58	2.69	2.68	5.37
Chisel-Harrow	27 shank	MFWD	225	11,186	150	12		0.068	0.075	1.95	0.58	2.53	2.73	5.26
Colter-Chisel-Harrow	21 shank	2WD	190	15,679	150	12		0.088	0.097	2.11	0.79	2.90	3.10	6.00
Colter-Chisel-Harrow	27 shank	MFWD	225	19,837	150	12		0.068	0.075	1.95	0.80	2.75	3.16	5.91
Corn Grain Cart 8R30	500 bu	MFWD	190	16,979	200	12		0.031	0.034	0.76	0.25	1.01	1.11	2.12

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	Size			Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost
							gal/hr	hr/acre	hr/acre			-----\$/acre-----		
Cult & Post	4R-30	2WD	105	15,184	150	10		0.220	0.242	2.92	1.14	4.06	4.38	8.44
Cult & Post	4R-38	2WD	105	15,243	150	10		0.173	0.190	2.30	0.90	3.20	3.46	6.66
Cult & Post	6R-30	MFWD	150	19,672	150	10		0.146	0.161	2.78	1.22	4.00	5.43	9.43
Cult & Post	6R-38	MFWD	150	21,022	150	10		0.115	0.127	2.19	1.00	3.19	4.41	7.60
Cult & Post	8R-30	MFWD	190	22,731	150	10		0.110	0.121	2.64	1.06	3.70	4.82	8.52
Cult & Post	8R-38	MFWD	190	25,776	150	10		0.086	0.095	2.09	0.91	3.00	4.02	7.02
Cult & Post	12R-30	MFWD	225	38,690	150	10		0.073	0.080	2.08	1.08	3.16	4.59	7.75
Cult & Post	12R-38	MFWD	225	36,848	150	10		0.057	0.063	1.64	0.82	2.46	3.53	5.99
Cult & Post	16R-30	MFWD	225	45,579	150	10		0.055	0.061	1.56	0.91	2.47	3.74	6.21
Cultipacker	12'	2WD	130	4,640	300	12		0.124	0.136	2.04	0.42	2.46	2.20	4.66
Cultipacker	20'	MFWD	150	12,011	300	12		0.074	0.081	1.41	0.44	1.85	1.92	3.77
Cultivate	4R-30	2WD	105	9,689	150	10		0.206	0.227	2.74	0.87	3.61	3.93	7.54
Cultivate	4R-38	2WD	105	9,748	150	10		0.162	0.178	2.15	0.61	2.76	2.53	5.29
Cultivate	6R-30	MFWD	150	14,177	150	10		0.137	0.151	2.61	0.94	3.55	4.49	8.04
Cultivate	6R-38	MFWD	150	15,527	150	10		0.108	0.119	2.06	0.78	2.84	3.66	6.50
Cultivate	8R-30	MFWD	190	17,236	150	10		0.103	0.113	2.48	0.85	3.33	4.07	7.40
Cultivate	8R-38	MFWD	190	20,281	150	10		0.081	0.089	1.96	0.74	2.70	3.41	6.11
Cultivate	12R-30	MFWD	225	28,375	150	10		0.068	0.075	1.95	0.83	2.78	3.74	6.52
Cultivate	12R-38	MFWD	225	30,828	150	10		0.054	0.059	1.54	0.68	2.22	3.06	5.28
Disk Harrow	14'	2WD	130	16,544	180	10		0.140	0.154	2.30	0.97	3.27	3.77	7.04
Disk Harrow	24'	MFWD	190	29,462	180	10		0.081	0.089	1.96	0.96	2.92	3.71	6.63
Disk Harrow	28'	MFWD	225	33,301	180	10		0.070	0.077	1.99	0.96	2.95	3.79	6.74
Disk Harrow	32'	MFWD	225	38,421	180	10		0.061	0.067	1.74	0.93	2.67	3.52	6.19
Disk & Incorporate	14'	2WD	130	22,039	200	10		0.149	0.164	2.46	1.33	3.79	4.34	8.13
Disk & Incorporate	24'	MFWD	190	34,957	200	10		0.087	0.096	2.10	1.23	3.33	4.07	7.40
Disk & Incorporate	28'	MFWD	225	38,796	200	10		0.074	0.081	2.13	1.21	3.34	4.12	7.46
Disk & Incorporate	32'	MFWD	225	43,916	200	10		0.065	0.072	1.86	1.16	3.02	3.80	6.82
Disk Bed (Hipper)	4R-38	MFWD	150	7,781	160	10		0.147	0.162	2.80	0.75	3.55	4.02	7.57
Disk Bed (Hipper)	6R-30	MFWD	170	12,271	160	10		0.125	0.138	2.69	0.83	3.52	4.32	7.84
Disk Bed (Hipper)	6R-38	MFWD	170	12,271	160	10		0.098	0.108	2.12	0.66	2.78	3.41	6.19
Disk Bed (Hipper)	8R-30	MFWD	190	13,070	160	10		0.093	0.102	2.25	0.64	2.89	3.32	6.21
Disk Bed (Hipper)	12R-30	MFWD	225	19,414	160	10		0.062	0.068	1.78	0.58	2.36	2.90	5.26
Disk Bed (Hipper)	12R-38	MFWD	225	24,825	160	10		0.049	0.054	1.40	0.52	1.92	2.48	4.40
Disk Bed (Hipper)Fld	8R-38	MFWD	190	18,404	160	10		0.074	0.081	1.78	0.61	2.39	2.93	5.32
Disk Bed (Hipper)Rdg	8R-38	MFWD	190	16,166	160	10		0.074	0.081	1.78	0.56	2.34	2.80	5.14
Disk Bed w/roller	8R-30	MFWD	190	15,186	160	10		0.093	0.102	2.25	0.69	2.94	3.47	6.41
Disk Bed w/roller	12R-30	MFWD	225	26,498	160	10		0.062	0.068	1.78	0.69	2.47	3.22	5.69

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	Size		Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost	
						gal/hr	hr/acre	hr/acre			-----\$/acre-----			
Fert Appl (Liquid)	4R-38	MFWD	150	12,995	150	8		0.154	0.169	2.93	1.82	4.75	5.01	9.76
Fert Appl (Liquid)	6R-30	MFWD	170	15,834	150	8		0.130	0.143	2.81	1.85	4.66	5.09	9.75
Fert Appl (Liquid)	6R-38	MFWD	170	12,360	150	8		0.103	0.113	2.22	1.22	3.44	3.71	7.15
Fert Appl (Liquid)	8R-30	MFWD	190	15,032	150	8		0.098	0.108	2.36	1.34	3.70	3.78	7.48
Fert Appl (Liquid)	8R-38	MFWD	190	14,694	150	8		0.077	0.085	1.86	1.04	2.90	2.97	5.87
Fert Appl (Liquid)	12R-30	MFWD	225	17,187	150	8		0.078	0.086	2.23	1.25	3.48	3.65	7.13
Fert Appl (Liquid)	12R-38	MFWD	225	17,350	150	8		0.051	0.056	1.47	0.82	2.29	2.41	4.70
Field Cult & Inc Fld	24'	MFWD	170	24,679	100	10		0.066	0.073	1.42	0.64	2.06	3.62	5.68
Field Cult & Inc Fld	32'	MFWD	190	33,211	100	10		0.049	0.054	1.19	0.59	1.78	3.23	5.01
Field Cult & Inc Rdg	12'	2WD	150	13,605	100	10		0.132	0.145	2.51	0.80	3.31	4.59	7.90
Field Cultivate Fld	24'	MFWD	170	19,184	100	10		0.062	0.068	1.33	0.51	1.84	3.00	4.84
Field Cultivate Fld	32'	MFWD	190	27,716	100	10		0.046	0.051	1.12	0.49	1.61	2.73	4.34
Field Cultivate Rdg	12'	2WD	150	8,110	100	10		0.124	0.136	2.36	0.59	2.95	3.50	6.45
Grain Drill	8'	2WD	130	19,229	150	8		0.235	0.259	3.87	2.24	6.11	7.44	13.55
Grain Drill	10'	2WD	130	21,337	150	8		0.188	0.207	3.10	1.94	5.04	6.28	11.32
Grain Drill	12'	2WD	130	16,364	150	8		0.157	0.173	2.58	1.33	3.91	4.59	8.50
Grain Drill	20'	MFWD	170	31,813	150	8		0.094	0.103	2.02	1.46	3.48	4.84	8.32
Grain Drill	24'	MFWD	190	40,244	150	8		0.078	0.086	1.89	1.47	3.36	4.59	7.95
Grain Drill & Pre	8'	2WD	130	24,723	150	8		0.253	0.278	4.17	2.95	7.12	9.14	16.26
Grain Drill & Pre	10'	2WD	130	26,831	150	8		0.203	0.223	3.34	2.52	5.86	7.66	13.52
Grain Drill & Pre	12'	2WD	130	21,859	150	8		0.169	0.186	2.78	1.78	4.56	5.70	10.26
Grain Drill & Pre	20'	MFWD	170	37,308	150	8		0.101	0.111	2.18	1.79	3.97	5.66	9.63
Grain Drill & Pre	24'	MFWD	190	45,739	150	8		0.084	0.092	2.03	1.76	3.79	5.32	9.11
Header Corn	4R-38		275hp	25,147	300	8		0.201	0.221	7.00	5.33	12.33	19.92	32.25
Header Corn	6R30"		275hp	33,754	300	8		0.170	0.187	5.92	4.88	10.80	17.48	28.28
Header Corn	6R38"		275hp	34,739	300	8		0.134	0.147	4.67	3.88	8.55	13.85	22.40
Header Corn	8R-38		325hp	44,579	300	8		0.100	0.110	4.15	3.51	7.66	12.35	20.01
Header - Soybean/Wheat	18'	Flex	275hp	20,309	300	8		0.141	0.155	4.93	3.59	8.52	13.76	22.28
Header - Soybean/Wheat	22'	Flex	275hp	22,537	300	8		0.116	0.128	4.04	3.00	7.04	11.37	18.41
Header - Soybean/Wheat	25'	Flex	325hp	24,801	300	8		0.102	0.112	4.20	3.05	7.25	11.65	18.90
Header - Soybean/Wheat	30'	Flex	325hp	28,376	300	8		0.085	0.094	3.50	2.62	6.12	9.83	15.95
Header - Soybean/Wheat	35'	Flex	370hp	33,556	300	8		0.072	0.079	3.41	2.43	5.84	8.99	14.83
Heavy Disk	14'	MFWD	150	18,791	180	10		0.145	0.160	2.77	1.22	3.99	4.94	8.93
Heavy Disk	21'	MFWD	170	23,720	180	10		0.097	0.107	2.09	0.99	3.08	4.00	7.08
Heavy Disk	27'	MFWD	190	34,304	180	10		0.075	0.083	1.82	0.99	2.81	3.67	6.48

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	Size		Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost	
							gal/hr	hr/acre	hr/acre		-----\$/acre-----			
Middle Buster	4R-38	MFWD	150	8,279	160	8		0.228	0.251	4.33	1.16	5.49	6.46	11.95
Middle Buster	6R-38	MFWD	150	10,503	160	8		0.120	0.132	2.28	0.67	2.95	3.61	6.56
Middle Buster	8R-30	MFWD	190	15,548	160	8		0.114	0.125	2.74	0.83	3.57	4.40	7.97
Middle Buster	8R-38	MFWD	190	14,075	160	8		0.090	0.099	2.17	0.62	2.79	3.37	6.16
Middle Buster	8R-38 2 1	MFWD	190	23,063	160	8		0.060	0.066	1.44	0.54	1.98	2.68	4.66
Middle Buster	10R-30	MFWD	225	17,561	160	8		0.091	0.100	2.60	0.78	3.38	4.24	7.62
Middle Buster	10R-38	MFWD	225	18,654	160	8		0.072	0.079	2.05	0.64	2.69	3.41	6.10
Middle Buster	12R-38	MFWD	225	23,063	160	8		0.060	0.066	1.71	0.59	2.30	3.06	5.36
Module Builder-1st	4R-30(250)	MFWD	190	35,588	200	10		0.327	0.360	7.87	4.12	11.99	15.18	27.17
Module Builder-1st	4R-30(325)	MFWD	190	35,588	200	10		0.327	0.360	7.87	4.12	11.99	15.18	27.17
Module Builder-1st	4R-38(255)	MFWD	190	35,588	200	10		0.257	0.283	6.20	3.24	9.44	11.95	21.39
Module Builder-1st	4R-38(325)	MFWD	190	35,588	200	10		0.257	0.283	6.20	3.24	9.44	11.95	21.39
Module Builder-1st	6R-30(325)	MFWD	190	35,588	200	10		0.218	0.240	5.25	2.74	7.99	10.12	18.11
Module Builder-1st	6R-38(330)	MFWD	190	35,588	200	10		0.172	0.189	4.14	2.16	6.30	7.98	14.28
Module Builder-2nd	4R-30(250)	MFWD	190	35,588	200	10		0.277	0.305	6.67	3.48	10.15	12.85	23.00
Module Builder-2nd	4R-30(325)	MFWD	190	35,588	200	10		0.277	0.305	6.67	3.48	10.15	12.85	23.00
Module Builder-2nd	4R-38(255)	MFWD	190	35,588	200	10		0.218	0.240	5.25	2.74	7.99	10.12	18.11
Module Builder-2nd	4R-38(325)	MFWD	190	35,588	200	10		0.218	0.240	5.25	2.74	7.99	10.12	18.11
Module Builder-2nd	6R-30(325)	MFWD	190	35,588	200	10		0.184	0.202	4.44	2.32	6.76	8.57	15.33
Module Builder-2nd	6R-38(330)	MFWD	190	35,588	200	10		0.145	0.160	3.51	1.82	5.33	6.76	12.09
Module Builder-Strip	13' Bcast	MFWD	150	35,588	200	10		0.251	0.276	4.78	3.04	7.82	10.56	18.38
Module Builder-Strip	16' Bcast	MFWD	150	35,588	200	10		0.204	0.224	3.88	2.47	6.35	8.59	14.94
Module Builder-Strip	19' Bcast	MFWD	150	35,588	200	10		0.172	0.189	3.27	2.07	5.34	7.22	12.56
Module Builder-Strip	4R-36	MFWD	150	35,588	200	10		0.272	0.299	5.18	3.29	8.47	11.45	19.92
Module Builder-Strip	4R-38	MFWD	150	35,588	200	10		0.257	0.283	4.89	3.11	8.00	10.81	18.81
Module Builder-Strip	6R-30	MFWD	150	35,588	200	10		0.218	0.240	4.14	2.63	6.77	9.16	15.93
Module Builder-Strip	6R-38	MFWD	190	35,588	200	10		0.172	0.189	4.14	2.16	6.30	7.98	14.28
NT Grain Drill	10'	2WD	130	25,016	150	8		0.235	0.259	3.87	2.76	6.63	8.54	15.17
NT Grain Drill	12'	2WD	130	29,184	150	8		0.163	0.179	2.69	2.17	4.86	6.49	11.35
NT Grain Drill	20'	MFWD	170	47,785	150	8		0.098	0.108	2.11	2.10	4.21	6.31	10.52
NT Grain Drill & Pre	10'	2WD	130	30,511	150	8		0.211	0.232	3.48	2.92	6.40	8.61	15.01
NT Grain Drill & Pre	12'	2WD	130	34,679	150	8		0.176	0.194	2.90	2.70	5.60	7.77	13.37
NT Grain Drill & Pre	20'	MFWD	170	53,280	150	8		0.105	0.116	2.27	2.49	4.76	7.26	12.02
NT Plant&Pre-Folding	8R-38	MFWD	170	46,723	150	8		0.083	0.091	1.79	1.76	3.55	5.29	8.84
NT Plant&Pre-Folding	10R-30	MFWD	190	57,555	150	8		0.084	0.092	2.03	2.13	4.16	6.13	10.29
NT Plant&Pre-Folding	10R-38	MFWD	190	52,893	150	8		0.066	0.073	1.60	1.56	3.16	4.58	7.74
NT Plant&Pre-Folding	12R-20	MFWD	190	57,452	150	8		0.105	0.116	2.54	2.66	5.20	7.66	12.86
NT Plant&Pre-Folding	12R-30	MFWD	190	61,566	150	8		0.070	0.077	1.69	1.88	3.57	5.33	8.90
NT Plant&Pre-Folding	12R-38	MFWD	190	61,553	150	8		0.055	0.061	1.33	1.48	2.81	4.21	7.02

2009 Alabama Major Row Crops Machinery Costs														
Equipment Type	Tractor/Power Unit			Purchase	Annual	Useful	Fuel	Perf	Machine	Fuel	R&M	Total	Fixed	Total
	Size		Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost	
							gal/hr	hr/acre	hr/acre		-----\$/acre-----			
NT Plant&Pre-Rigid	4R-30	2WD	130	23,638	150	8		0.211	0.232	3.48	2.37	5.85	7.43	13.28
NT Plant&Pre-Rigid	4R-38	2WD	130	23,687	150	8		0.166	0.183	2.74	1.86	4.60	5.85	10.45
NT Plant&Pre-Rigid	6R-30	MFWD	150	30,411	150	8		0.141	0.155	2.67	2.04	4.71	6.50	11.21
NT Plant&Pre-Rigid	6R-38	MFWD	150	30,249	150	8		0.111	0.122	2.11	1.61	3.72	5.12	8.84
NT Plant&Pre-Rigid	8R-30	MFWD	170	35,957	150	8		0.105	0.116	2.27	1.80	4.07	5.78	9.85
NT Plant&Pre-Rigid	8R-38	MFWD	170	32,670	150	8		0.083	0.091	1.79	1.32	3.11	4.34	7.45
NT Plant&Pre-Rigid	10R-30	MFWD	190	38,169	150	8		0.084	0.092	2.03	1.52	3.55	4.80	8.35
NT Plant&Pre-Rigid	12R-20	MFWD	190	51,926	150	8		0.105	0.116	2.54	2.44	4.98	7.19	12.17
NT Plant&Pre-Rigid	12R-30	MFWD	190	51,065	150	8		0.070	0.077	1.69	1.61	3.30	4.73	8.03
NT Plant&Pre-Rigid	16R-30	MFWD	225	91,735	150	8		0.052	0.057	1.50	2.05	3.55	5.62	9.17
NT Plant-Folding	8R-38	MFWD	170	41,228	150	8		0.077	0.085	1.67	1.48	3.15	4.57	7.72
NT Plant-Folding	10R-30	MFWD	190	52,061	150	8		0.078	0.086	1.89	1.82	3.71	5.34	9.05
NT Plant-Folding	10R-38	MFWD	190	47,646	150	8		0.061	0.067	1.49	1.32	2.81	3.99	6.80
NT Plant-Folding	12R-20	MFWD	190	51,957	150	8		0.098	0.108	2.36	2.27	4.63	6.67	11.30
NT Plant-Folding	12R-30	MFWD	190	56,071	150	8		0.065	0.072	1.57	1.61	3.18	4.66	7.84
NT Plant-Folding	12R-38	MFWD	190	55,533	150	8		0.051	0.056	1.24	1.26	2.50	3.65	6.15
NT Plant-Folding	16R-30	MFWD	190	80,260	150	8		0.049	0.054	1.18	1.65	2.83	4.46	7.29
NT Plant-Folding	36R-30	MFWD	225	207,664	150	8		0.021	0.023	0.62	1.79	2.41	4.37	6.78
NT Plant-Rigid	4R-30	2WD	130	18,143	150	8		0.196	0.216	3.23	1.79	5.02	6.02	11.04
NT Plant-Rigid	4R-38	2WD	130	18,192	150	8		0.154	0.169	2.54	1.41	3.95	4.75	8.70
NT Plant-Rigid	6R-30	MFWD	150	24,916	150	8		0.130	0.143	2.48	1.63	4.11	5.45	9.56
NT Plant-Rigid	6R-38	MFWD	150	24,754	150	8		0.103	0.113	1.96	1.27	3.23	4.29	7.52
NT Plant-Rigid	8R-30	MFWD	170	30,462	150	8		0.098	0.108	2.11	1.47	3.58	4.93	8.51
NT Plant-Rigid	8R-38	MFWD	170	27,175	150	8		0.077	0.085	1.67	1.07	2.74	3.69	6.43
NT Plant-Rigid	12R-20	MFWD	190	46,431	150	8		0.098	0.108	2.36	2.07	4.43	6.23	10.66
NT Plant-Rigid	12R-30	MFWD	190	45,570	150	8		0.065	0.072	1.57	1.35	2.92	4.10	7.02
NT Plant-Rigid	16R-30	MFWD	225	85,715	150	8		0.049	0.054	1.39	1.79	3.18	4.98	8.16
Paratill & Bed Fold	8R-38	MFWD	225	35,136	150	12		0.080	0.088	2.30	1.39	3.69	4.61	8.30
Paratill & Bed Fold	12R-38	MFWD	225	48,077	150	12		0.053	0.058	1.53	1.17	2.70	3.56	6.26
Paratill & Bed Rigid	4R-30	MFWD	225	10,389	150	12		0.204	0.224	5.82	1.69	7.51	8.07	15.58
Paratill & Bed Rigid	4R-38	MFWD	225	11,137	150	12		0.160	0.176	4.58	1.37	5.95	6.44	12.39
Paratill & Bed Rigid	6R-30	MFWD	225	14,468	150	12		0.136	0.150	3.88	1.33	5.21	5.77	10.98
Paratill & Bed Rigid	6R-38	MFWD	225	17,739	150	12		0.107	0.118	3.06	1.17	4.23	4.81	9.04
Paratill & Bed Rigid	8R-30	MFWD	225	19,561	150	12		0.102	0.112	2.91	1.18	4.09	4.70	8.79
Paratill & Bed Rigid	8R-38	MFWD	225	22,598	150	12		0.080	0.088	2.30	1.02	3.32	3.89	7.21
Peanut Cond. & Lifter	6-Row	MFWD	190	11,455	300	20		0.100	0.110	2.40	0.55	2.95	2.92	5.87

2009 Alabama Major Row Crops Machinery Costs														
Equipment Type	Tractor/Power Unit			Purchase	Annual	Useful	Fuel	Perf	Machine	Fuel	R&M	Total	Fixed	Total
	Size			Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost
							gal/hr	hr/acre	hr/acre			-----\$/acre-----		
Peanut Conditioner	4-Row	MFWD	190	6,035	300	20		0.142	0.156	3.43	0.76	4.19	3.93	8.12
Peanut Conditioner	6-Row	MFWD	190	10,407	300	20		0.100	0.110	2.40	0.56	2.96	2.86	5.82
Peanut Dig/Invertor	4R-30	MFWD	190	20,563	300	15		0.235	0.259	5.67	2.07	7.74	7.75	15.49
Peanut Dig/Invertor	4R-38	MFWD	190	20,563	300	15		0.186	0.205	4.48	1.63	6.11	6.12	12.23
Peanut Dig/Invertor	6R-38	MFWD	190	29,188	300	15		0.124	0.136	2.98	1.08	4.06	4.44	8.50
Peanut Dump Cart	6-Row	MFWD	190	29,580	300	20		0.310	0.341	7.45	1.67	9.12	10.62	19.74
Peanut Harvester	4R-30	MFWD	225	101,125	300	20		1.176	1.294	33.51	12.13	45.64	69.51	115.15
Peanut Harvester	4R-38	MFWD	225	101,125	300	20		0.934	1.027	26.62	9.63	36.25	56.01	92.26
Peanut Harvester	6R-38	MFWD	225	118,913	300	20		0.625	0.688	17.80	6.45	24.25	40.51	64.76
Peanut Lifter	6-Row	MFWD	225	4,569	300	20		0.100	0.110	2.84	0.54	3.38	3.33	6.71
Peanut Plt&Pre Fold	12R-38	MFWD	190	55,991	150	8		0.080	0.088	1.93	1.97	3.90	5.72	9.62
Peanut Plt&Pre Rigid	8R-30	MFWD	190	32,249	150	8		0.152	0.167	3.67	2.40	6.07	7.94	14.01
Peanut Plt&Pre Rigid	8R-38	MFWD	190	27,175	150	8		0.120	0.132	2.90	1.67	4.57	5.78	10.35
Plant & Pre-Folding	8R-38	MFWD	170	43,015	150	8		0.080	0.088	1.72	1.58	3.30	4.84	8.14
Plant & Pre-Folding	10R-30	MFWD	190	52,920	150	8		0.081	0.089	1.95	1.91	3.86	5.58	9.44
Plant & Pre-Folding	10R-38	MFWD	190	48,258	150	8		0.064	0.070	1.54	1.38	2.92	4.16	7.08
Plant & Pre-Folding	12R-20	MFWD	190	51,890	150	8		0.101	0.111	2.44	2.34	4.78	6.90	11.68
Plant & Pre-Folding	12R-30	MFWD	190	56,004	150	8		0.067	0.074	1.62	1.67	3.29	4.82	8.11
Plant & Pre-Folding	12R-38	MFWD	190	55,991	150	8		0.053	0.058	1.28	1.31	2.59	3.80	6.39
Plant & Pre-Rigid	4R-30	2WD	130	21,784	150	8		0.203	0.223	3.34	2.13	5.47	6.83	12.30
Plant & Pre-Rigid	4R-38	2WD	130	21,833	150	8		0.159	0.175	2.63	1.67	4.30	5.38	9.68
Plant & Pre-Rigid	6R-30	MFWD	150	28,557	150	8		0.135	0.149	2.57	1.87	4.44	6.04	10.48
Plant & Pre-Rigid	6R-38	MFWD	150	27,468	150	8		0.106	0.117	2.03	1.44	3.47	4.66	8.13
Plant & Pre-Rigid	8R-30	MFWD	170	32,249	150	8		0.101	0.111	2.18	1.59	3.77	5.24	9.01
Plant & Pre-Rigid	8R-38	MFWD	170	28,962	150	8		0.080	0.088	1.72	1.16	2.88	3.93	6.81
Plant & Pre-Rigid	12R-20	MFWD	190	46,364	150	8		0.101	0.111	2.44	2.13	4.57	6.44	11.01
Plant & Pre-Rigid	12R-30	MFWD	190	45,503	150	8		0.067	0.074	1.62	1.40	3.02	4.24	7.26
Plant & Pre-Rigid	13R-36/40	MFWD	225	36,197	150	8		0.049	0.054	1.41	0.89	2.30	3.04	5.34
Plant & Pre-Rigid	15R-20	MFWD	190	45,144	150	8		0.081	0.089	1.95	1.67	3.62	5.07	8.69
Plant & Pre-Rigid	16R30	MFWD	225	84,319	150	8		0.050	0.055	1.44	1.83	3.27	5.10	8.37
Plant - Folding	8R-38	MFWD	170	37,520	150	8		0.074	0.081	1.60	1.31	2.91	4.16	7.07
Plant - Folding	12R-20	MFWD	190	46,395	150	8		0.094	0.103	2.26	1.98	4.24	5.98	10.22
Plant - Folding	12R-30	MFWD	190	50,509	150	8		0.062	0.068	1.51	1.42	2.93	4.19	7.12
Plant - Folding	12R-38	MFWD	190	49,971	150	8		0.049	0.054	1.19	1.10	2.29	3.28	5.57
Plant - Rigid	4R-30	2WD	130	16,289	150	8		0.188	0.207	3.10	1.59	4.69	5.50	10.19
Plant - Rigid	4R-38	2WD	130	16,338	150	8		0.148	0.163	2.44	1.25	3.69	4.33	8.02
Plant - Rigid	6R-30	MFWD	150	23,062	150	8		0.125	0.138	2.38	1.48	3.86	5.05	8.91
Plant - Rigid	6R-38	MFWD	150	21,973	150	8		0.099	0.109	1.88	1.12	3.00	3.89	6.89
Plant - Rigid	8R-30	MFWD	170	26,754	150	8		0.094	0.103	2.02	1.28	3.30	4.45	7.75
Plant - Rigid	8R-38	MFWD	170	23,467	150	8		0.074	0.081	1.60	0.92	2.52	3.31	5.83
Plant - Rigid	12R-20	MFWD	190	40,869	150	8		0.094	0.103	2.26	1.78	4.04	5.56	9.60
Plant - Rigid	12R-30	MFWD	190	40,008	150	8		0.062	0.068	1.51	1.17	2.68	3.65	6.33
Plant - Rigid	16R-30	MFWD	225	78,299	150	8		0.047	0.052	1.34	1.59	2.93	4.50	7.43

2009 Alabama Major Row Crops Machinery Costs														
Equipment Type	Tractor/Power Unit		Purchase	Annual	Useful	Fuel	Perf	Machine	Fuel	R&M	Total	Fixed	Total	
	Size		Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost	
						gal/hr	hr/acre	hr/acre	-----\$/acre-----					
Rip/Bed/Till Fold	8R-38	MFWD	190	28,400	300	20		0.073	0.080	1.75	0.37	2.12	2.47	4.59
Rip/Bed/Till Fold	12R-30	MFWD	225	39,652	300	20		0.061	0.067	1.75	0.40	2.15	2.66	4.81
Rip/Bed/Till Fold	12R-38	MFWD	225	39,652	300	20		0.046	0.051	1.31	0.30	1.61	1.99	3.60
Rip/Bed/Till Rigid	4R-30	MFWD	190	12,552	300	20		0.184	0.202	4.44	0.79	5.23	5.44	10.67
Rip/Bed/Till Rigid	4R-38	MFWD	190	12,552	300	20		0.146	0.161	3.53	0.63	4.16	4.32	8.48
Rip/Bed/Till Rigid	6R-38	MFWD	190	18,341	300	20		0.097	0.107	2.34	0.43	2.77	3.02	5.79
Rip/Bed/Till Rigid	8R-30	MFWD	190	23,276	300	20		0.139	0.153	3.34	0.67	4.01	4.51	8.52
Rip/Bed/Till Rigid	8R-38	MFWD	190	23,276	300	20		0.073	0.080	1.75	0.35	2.10	2.37	4.47
Rip/Bed/Till Rigid	6R-30	MFWD	190	18,341	300	20		0.123	0.135	2.96	0.56	3.52	3.83	7.35
Ripper Conditioner	4-Row	MFWD	225	11,470	150	12		0.160	0.176	4.58	1.39	5.97	6.47	12.44
Ripper Conditioner	8-Row	MFWD	225	17,610	150	12		0.080	0.088	2.30	0.88	3.18	3.60	6.78
Roller	32'-12R30	MFWD	170	12,595	100	12		0.046	0.051	1.00	0.26	1.26	1.82	3.08
Ripper Conditioner	6-Row	MFWD	225	15,305	150	12		0.107	0.118	3.06	1.08	4.14	4.62	8.76
Roller/Bed Shaper Fl	8R-38	MFWD	190	18,395	160	10		0.074	0.081	1.78	0.61	2.39	2.93	5.32
Roller/Bed Shaper Fl	12R-30	MFWD	225	19,995	160	10		0.062	0.068	1.78	0.59	2.37	2.92	5.29
Roller/Bed Shaper Fl	12R-38	MFWD	225	22,595	160	10		0.049	0.054	1.40	0.49	1.89	2.40	4.29
Roller/Bed Shaper Fl	16R-30	MFWD	225	21,655	160	10		0.046	0.051	1.33	0.46	1.79	2.25	4.04
Roller/Bed Shaper Rd	8R-38	MFWD	190	13,695	160	10		0.074	0.081	1.78	0.52	2.30	2.67	4.97
Rotary Cutter	7'	MFWD	130	3,712	185	10		0.168	0.185	2.77	0.96	3.73	3.54	7.27
Rotary Cutter	12'	2WD	150	8,455	185	10		0.098	0.108	1.86	0.94	2.80	2.35	5.15
Rotary Cutter-Flex	15'	MFWD	150	14,627	185	10		0.078	0.086	1.49	1.18	2.67	2.42	5.09
Rotary Cutter-Flex	20'	MFWD	150	21,890	185	10		0.058	0.064	1.11	1.22	2.33	2.08	4.41
Row Cond & Inc Fold	26'	MFWD	190	20,486	100	10		0.063	0.069	1.52	0.55	2.07	3.18	5.25
Row Cond Fold	26'	MFWD	225	14,991	100	10		0.059	0.065	1.70	0.49	2.19	2.97	5.16
Row Cond Fold	38'	MFWD	225	17,480	100	10		0.040	0.044	1.16	0.35	1.51	2.15	3.66
Row Cond Rgd	13'	2WD	130	5,440	100	10		0.119	0.131	1.96	0.44	2.40	2.68	5.08
Row Cond Rgd	21'	2WD	170	8,498	100	10		0.073	0.080	1.59	0.37	1.96	2.28	4.24
RT Cult	8R-30	2WD	170	20,774	200	12		0.103	0.113	2.21	1.32	3.53	3.32	6.85
RT Cult	12R-30	2WD	190	29,998	200	12		0.068	0.075	1.65	1.21	2.86	2.78	5.64
RT Cult + PD	8R-30	2WD	150	26,269	200	12		0.110	0.121	2.08	1.68	3.76	3.62	7.38
Soybean Grain Cart	500 Bu	MFWD	190	16,979	200	12		0.025	0.028	0.61	0.20	0.81	0.89	1.70
Soybean Grain Cart	700 Bu	MFWD	190	23,337	200	12		0.021	0.023	0.51	0.20	0.71	0.81	1.52
Spin Spreader	5 Ton	MFWD	190	11,529	100	8		0.042	0.046	1.01	0.42	1.43	1.70	3.13
Spray (Band)	27' Fold	MFWD	170	5,459	200	8		0.062	0.068	1.34	0.38	1.72	1.81	3.53
Spray (Band)	40' Fold	MFWD	170	6,020	200	8		0.042	0.046	0.91	0.26	1.17	1.24	2.41
Spray (Band)	50' Fold	MFWD	170	5,957	200	8		0.033	0.036	0.72	0.21	0.93	0.98	1.91
Spray (Band)	60' Fold	MFWD	170	7,580	200	8		0.028	0.031	0.60	0.20	0.80	0.85	1.65

2009 Alabama Major Row Crops Machinery Costs														
Equipment Type	Tractor/Power Unit			Purchase	Annual	Useful	Fuel	Perf	Machine	Fuel	R&M	Total	Fixed	Total
	Size			Price	Use	Life	Use	Rate	Labor		(Imp+Trac)	Variable	Cost	Cost
							gal/hr	hr/acre	hr/acre			-----\$/acre-----		
Spray (Bcast/HB)	13' Rigid	MFWD	150	4,873	200	8		0.130	0.143	2.47	0.70	3.17	3.20	6.37
Spray (Bcast/HB)	20' Rigid	MFWD	150	5,734	200	8		0.084	0.092	1.60	0.48	2.08	2.12	4.20
Spray (Bcast/HB)	27' Rigid	MFWD	170	6,657	200	8		0.062	0.068	1.34	0.41	1.75	1.86	3.61
Spray (Bcast/HB)	30' Rigid	MFWD	170	13,025	200	8		0.056	0.062	1.21	0.54	1.75	1.90	3.65
Spray (Bcast/HB)	40' Rigid	MFWD	170	13,627	200	8		0.042	0.046	0.91	0.42	1.33	1.44	2.77
Spray (Bcast/HB/HD)	27'	MFWD	170	20,451	200	8		0.062	0.068	1.34	0.82	2.16	2.41	4.57
Spray (Bcast/HB/HD)	40'	MFWD	170	24,379	200	8		0.042	0.046	0.91	0.63	1.54	1.73	3.27
Spray (Broadcast)	27'	MFWD	170	5,495	200	8		0.062	0.068	1.34	0.38	1.72	1.81	3.53
Spray (Broadcast)	40'	MFWD	170	6,020	200	8		0.042	0.046	0.91	0.26	1.17	1.24	2.41
Spray (Broadcast)	50'	MFWD	170	5,957	200	8		0.033	0.036	0.72	0.21	0.93	0.98	1.91
Spray (Broadcast)	60'	MFWD	170	7,580	200	8		0.028	0.031	0.60	0.20	0.80	0.85	1.65
Spray (Direct/Hood)	8R-30	MFWD	170	14,472	200	8		0.084	0.092	1.82	0.87	2.69	2.93	5.62
Spray (Direct/Hood)	8R-38	MFWD	170	15,668	200	8		0.066	0.073	1.43	0.73	2.16	2.37	4.53
Spray (Direct/Hood)	12R-30	MFWD	170	18,370	200	8		0.056	0.062	1.21	0.68	1.89	2.09	3.98
Spray (Direct/Hood)	12R-38	MFWD	170	18,837	200	8		0.044	0.048	0.95	0.55	1.50	1.66	3.16
Spray (Direct/Layby)	8R-30	MFWD	170	9,112	200	8		0.084	0.092	1.82	0.66	2.48	2.64	5.12
Spray (Direct/Layby)	8R-38	MFWD	170	10,176	200	8		0.066	0.073	1.43	0.55	1.98	2.14	4.12
Spray (Direct/Layby)	12R-30	MFWD	170	11,817	200	8		0.056	0.062	1.21	0.51	1.72	1.86	3.58
Spray (Direct/Layby)	12R-38	MFWD	170	17,524	200	8		0.044	0.048	0.95	0.52	1.47	1.62	3.09
Spray (Spot)	27'	MFWD	170	5,495	200	8		0.062	0.068	1.34	0.38	1.72	1.81	3.53
Spray (Spot)	40'	MFWD	170	6,020	200	8		0.042	0.046	0.91	0.26	1.17	1.24	2.41
Spray (Spot)	50'	MFWD	170	5,957	200	8		0.033	0.036	0.72	0.21	0.93	0.98	1.91
Spray (Spot)	53'	MFWD	170	6,823	200	8		0.031	0.034	0.68	0.21	0.89	0.94	1.83
Spray (Spot)	60'	MFWD	170	7,580	200	8		0.028	0.031	0.60	0.20	0.80	0.85	1.65
Stalk Shredder	14'	MFWD	150	10,850	200	10		0.117	0.129	2.23	1.48	3.71	3.28	6.99
Stalk Shredder	20'	MFWD	150	25,301	200	10		0.082	0.090	1.56	2.08	3.64	3.00	6.64
Stalk Shredder-Flail	12'	MFWD	150	13,201	200	10		0.137	0.151	2.61	2.01	4.62	4.02	8.64
Stalk Shredder-Flail	15'	MFWD	150	15,022	200	10		0.110	0.121	2.08	1.79	3.87	3.34	7.21
Stalk Shredder-Flail	18'	MFWD	150	21,133	200	10		0.091	0.100	1.74	1.98	3.72	3.12	6.84
Stalk Shredder-Flail	20'	MFWD	150	19,813	200	10		0.082	0.090	1.56	1.69	3.25	2.74	5.99
Stalk Shredder-Flail	25'	MFWD	150	24,347	200	10		0.066	0.073	1.25	1.61	2.86	2.37	5.23
Subsoiler	3 shank	MFWD	190	3,773	100	15		0.204	0.224	4.91	1.00	5.91	6.02	11.93
Subsoiler	4 shank	MFWD	225	5,769	100	15		0.153	0.168	4.37	0.99	5.36	5.77	11.13
Subsoiler	5 shank	MFWD	225	6,450	100	15		0.122	0.134	3.48	0.82	4.30	4.67	8.97
Subsoiler low-till	4 shank	MFWD	225	1,058	100	15		0.153	0.168	4.37	0.75	5.12	5.08	10.20
Subsoiler low-till	6 shank	MFWD	225	13,153	100	15		0.102	0.112	2.91	0.90	3.81	4.56	8.37