

Projected Costs and Returns Crop Enterprise Budgets for Cotton Production in Louisiana, 2021

Michael A. Deliberto and Brian M. Hilbun



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by

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Introduction

This publication presents estimates of projected costs and returns for cotton production in Louisiana for the 2021 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2021 crop year.

Crop enterprise budgets in this report are presented in two budget formats. The first budget format (table A) is a summary of costs and returns for the crop enterprise. The second budget format (table B) provides a table listing the sequence of production operations, indicating the equipment and implements used, month of operation, labor required, machine time required, and materials used. Labor costs, material costs, custom costs, and direct and fixed costs for tractors and equipment are also included for each operation. All costs are summed giving the total cost per operation or practice. In addition, breakeven prices to cover

direct production costs and total specified production costs are presented in tables C and D.

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2021 planning budgets. Machinery and other input cost data are presented in the Appendix.

The budgets included in this report are categorized by per acre total direct expenses and per acre total fixed expenses for a production season. Within these two broad categories, the various inputs are itemized with their respective costs. Although a particular enterprise budget is presented on a per acre basis, some individual cost items are specified on an hourly or price per unit basis. Direct expenses include such cost items as seed, fertilizer, chemicals, fuel, labor, repairs, and irrigation. Fixed expenses include such items as depreciation and interest on investment which are generally incurred during the production period.

Due to the detailed nature of the cost computations, a computerized budget generator procedure was utilized. The Mississippi State Budget Generator Program, developed at Mississippi State University, is utilized by the LSU Agricultural Center in developing these crop enterprise costs and returns budgets. The budget generator provides a standard format for crop and livestock budgets and this

computational procedure is widely accepted for estimating projected commodity costs and returns information for upcoming crop year planning purposes.

Expected Crop Yields and Market Prices

Projected crop enterprise budgets in this report include a calculation of expected market returns for the crop. Expected crop yields and market prices are selected at the beginning of the crop year. Projected crop yields are determined based on recent production history for expected yield given normal weather conditions. Projected market prices are specified as expected marketing year average prices for the commodity, based on harvest time futures price quotes as well as other market information at the beginning of the crop year. No estimate of income from farm program participation or crop insurance is included in this budgets due to the wide variety of farm program and crop insurance choices available to producers.

Direct Production Costs

Direct or variable production costs were estimated by utilizing updated crop production input price data. Input price data for various crop production inputs were updated by obtaining prices from farm input suppliers in the fall and winter prior to the crop year. Herbicide, fertilizer, and insecticide expenditures for each enterprise budget are based upon the types of chemicals producers generally reported using for that situation. Suggested prices for selected farm inputs and aerial application rates are presented in the appendix.

Hired labor was charged at \$11.83 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's

compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 4.00% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$1.73 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 4.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

Machinery cost data were obtained from a sample of machinery dealers. New machinery prices were used to reflect the economic cost of acquiring and maintaining capital assets in current dollar values. Purchase prices for selected power and machinery items included in this report are presented in the appendix. Other data included in the appendix indicate hours of annual use and years of life for each selected machinery item. Fuel consumption, accumulated repair costs, and other machinery performance data are based on ASAE standards. Machinery fixed costs are calculated using the capital recovery method which includes estimates of both annual depreciation and interest on investment.

Overhead Costs

Overhead costs reflect significant expenses associated with the operation of the entire farm business, but are not necessarily attributable to a specific crop enterprise. Examples of farm overhead costs include tax services, record keeping, utilities, farmstead maintenance, and insurance and property taxes where applicable. General farm overhead costs can vary greatly from farm to farm based on many factors including farm size, land tenure and crop production technology utilized. As the primary purpose of this report is to estimate production costs associated with a specific commodity, no charges for general farm overhead are included.

Land and Management Charges

The estimated production expenses included in this report include only direct and fixed expenses associated with the production of the specific crop enterprise. Labor charges included in the enterprise budgets only include charges for field labor. No charges for management are included. In addition, no charges for land are included in the enterprise cost tables. Following each set of enterprise cost tables, two sets of net return tables are included. One set, representing owner operators, includes estimates of net returns above direct and total specified costs, which would represent returns to land, management and general farm overhead. Another set, representing tenant operators, includes estimates net returns above direct and total specified costs with a crop share taken out of revenue, representing net returns to management and general farm overhead.

Acknowledgments

Several individuals were instrumental in making this report possible. The authors are particularly indebted to Louisiana crop producers and LSU Agricultural Center Extension Service agents and Experiment Station scientists for their cooperation and assistance in providing specific production practice information, as well as farm suppliers and agribusiness firms for supplying input price information.

Internet Access

This publication, along with projected costs and returns reports for other major agricultural crop commodities produced in Louisiana, as well as other farm management publications, are available on the Internet on the LSU AgCenter web page under the “*Extension and Outreach*” section of the Department of Agricultural Economics and Agribusiness web page. These projected costs and returns reports are also available on the LSU Ag Center crop commodities web pages. The web address for the LSU AgCenter is: www.lsuagcenter.com

Table 1.A Estimated costs per Acre
Cotton, B2/RRFlex,8-row equipment, non-irrigated, alluvial soil, Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
App by Air (5 gal)	appl	7.00	1.0000	7.00	_____
HARVEST AIDS					
Dropp SC	oz	1.70	1.2000	2.04	_____
Prep	pt	3.84	1.3300	5.11	_____
Def/Folex	pt	7.68	0.7500	5.76	_____
FERTILIZERS					
LA Phosphate	lb	0.39	60.0000	23.40	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	90.0000	34.20	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	88.0000	16.72	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.5000	8.75	_____
Cotoran 4L	pt	6.01	1.2000	7.21	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.85	1.2800	1.09	_____
Dimethoate 4E	pt	5.44	0.4000	2.18	_____
Centric 40WG	oz	5.08	4.0000	20.32	_____
Karate Z	oz	1.00	6.3900	6.39	_____
Orthene 90S	lb	6.00	1.1500	6.90	_____
Diamond .83EC	pt	19.52	0.7500	14.64	_____
Bidrin 8L	oz	1.33	12.0000	15.96	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	2.61	52.5000	137.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	62.69	1.0000	62.69	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.40	16.0000	6.40	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Crop Consultant	acre	7.00	1.0000	7.00	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
Cotton Checkoff	bale	2.56	1.9800	5.07	_____
OPERATOR LABOR					
Self-Propelled	hour	15.30	0.2428	3.72	_____
HAND LABOR					
Self-Propelled	hour	9.06	0.2075	1.88	_____
LA Hired Labor					
Implements	hour	11.83	0.3636	4.31	_____
Tractors	hour	11.83	1.0916	12.93	_____
DIESEL FUEL					
Tractors	gal	1.73	10.1428	17.55	_____
Self-Propelled	gal	1.73	3.8741	6.69	_____
REPAIR & MAINTENANCE					
Implements	Acre	11.44	1.0000	11.44	_____
Tractors	Acre	6.03	1.0000	6.03	_____
Self-Propelled	Acre	13.32	1.0000	13.32	_____
INTEREST ON OP. CAP.	Acre	10.84	1.0000	10.84	_____
TOTAL DIRECT EXPENSES				584.92	_____
FIXED EXPENSES					
Implements	Acre	17.31	1.0000	17.31	_____
Tractors	Acre	36.58	1.0000	36.58	_____
Self-Propelled	Acre	53.12	1.0000	53.12	_____
TOTAL FIXED EXPENSES				107.01	_____
TOTAL SPECIFIED EXPENSES				691.93	_____

Table 1.B Estimated resource use and costs for field operations, per Acre
 Cotton, B2/RRFlex,8-row equipment, non-irrigated, alluvial soil, Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----						-----dollars-----			
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Paratill & Bed Fold.	8R-38	MFWD 225	0.080	0.50	Nov	1.10	1.79	0.68	1.14	0.04	0.48				5.19
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Nov	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Phosphate	lb											60.0000	0.39	23.40	23.40
LA Potash	lb											60.0000	0.28	16.80	16.80
Lime (Spread)	ton			0.33	Nov							0.3300	38.00	12.54	12.54
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Nov	1.69	2.67	0.36	0.93	0.07	0.88				6.53
Row Cond (Harrow)	27'	MFWD 190	0.057	1.00	Nov	1.31	2.07	0.18	0.73	0.05	0.68				4.97
Roller	32'	MFWD 170	0.046	1.00	Nov	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Ditcher		2WD 130	0.020	1.00	Nov	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Sprayer(600-750Gal)	60'		0.017	1.00	Mar	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	5.83	8.75	8.75
Plant & Pre Folding	8R-38	MFWD 170	0.080	1.00	Apr	1.62	2.45	1.84	3.38	0.16	1.90				11.19
Cotoran 4L	pt											1.2000	6.01	7.21	7.21
Cotton Seed BGII/RRF	thous											52.5000	2.61	137.03	137.03
Ammo 2.5 EC	oz											1.2800	0.85	1.09	1.09
BGII/RRF Cot Tech Fe cap/ac												1.0000	62.69	62.69	62.69
Ditcher		2WD 130	0.020	1.00	Apr	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											90.0000	0.38	34.20	34.20
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Dimethoate 4E	pt											0.4000	5.44	2.18	2.18
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Centric 40WG	oz											2.0000	5.08	10.16	10.16
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Centric 40WG	oz											2.0000	5.08	10.16	10.16
Pix Plus	oz											4.0000	0.40	1.60	1.60
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.34	2.04	0.49	0.56	0.10	1.19				5.62
Layby Pro	qt											1.0000	12.60	12.60	12.60
Eradication Fee	acre			1.00	Jul							1.0000	6.00	6.00	6.00
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Pix Plus	oz											12.0000	0.40	4.80	4.80
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.5500	6.00	3.30	3.30
Karate Z	oz											2.1300	1.00	2.13	2.13
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Dropp SC	oz											1.2000	1.70	2.04	2.04
Prep	pt											1.3300	3.84	5.11	5.11
Def/Folex	pt											0.7500	7.68	5.76	5.76
Cotton Picker-1st-BB	6R38"330hp		0.172	1.00	Sep	17.97	47.92			0.34	4.20				70.09
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.49	2.93	0.34	4.08				18.64
Boll Buggy-1st pick	6R38"325hp	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.31	2.57	0.17	2.04				16.06
Stalk Shredder-Flail	12'	MFWD 150	0.137	1.00	Nov	2.45	3.57	2.61	1.52	0.13	1.63				11.78
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Digital Ag Fee	acre			1.00	Nov							1.0000	8.50	8.50	8.50
Cotton Checkoff	bale			1.00	Nov							1.9800	2.56	5.07	5.07
TOTALS						43.59	89.70	11.44	17.31	1.90	22.84			496.21	681.09
INTEREST ON OPERATING CAPITAL															10.84
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															691.93

Table 1.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Cotton, B2/RRFlex,8-row equipment, non-irrigated, alluvial soil, Louisiana, 2021.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.31	0.34	0.36	0.39	0.43	0.47	0.52	0.59	0.68	0.79	0.95
PERCENT	YIELD	UNIT	-----dollars-----										
50	500.00	1b	-317	-306	-292	-277	-259	-238	-211	-178	-136	-79	0
			-424	-413	-400	-384	-366	-345	-318	-285	-243	-186	-107
60	600.00	1b	-285	-272	-256	-238	-216	-190	-158	-119	-68	0	95
			-392	-379	-363	-345	-323	-297	-265	-226	-175	-107	-11
70	700.00	1b	-253	-238	-219	-198	-173	-142	-105	-59	0	79	190
			-360	-345	-326	-305	-280	-249	-212	-166	-107	-27	83
80	800.00	1b	-222	-204	-183	-158	-129	-95	-52	0	68	158	285
			-329	-311	-290	-265	-236	-202	-159	-107	-38	51	178
90	900.00	1b	-190	-170	-146	-119	-86	-47	0	59	136	238	380
			-297	-277	-253	-226	-193	-154	-107	-47	29	131	273
100	1000.00	1b	-158	-136	-109	-79	-43	0	52	119	204	317	476
			-265	-243	-216	-186	-150	-107	-54	12	97	210	369
110	1100.00	1b	-126	-102	-73	-39	0	47	105	178	272	396	571
			-233	-209	-180	-146	-107	-59	-1	71	165	289	464
120	1200.00	1b	-95	-68	-36	0	43	95	158	238	340	476	666
			-202	-175	-143	-107	-63	-11	51	131	233	369	559
130	1300.00	1b	-63	-34	0	39	86	142	211	297	408	555	761
			-170	-141	-107	-67	-20	35	104	190	301	448	654
140	1400.00	1b	-31	0	36	79	129	190	264	357	476	634	857
			-138	-107	-70	-27	22	83	157	250	369	527	750
150	1500.00	1b	0	34	73	119	173	238	317	416	544	714	952
			-107	-73	-33	12	66	131	210	309	437	607	845

The top number in each cell is Returns Above Direct Expenses.
The bottom number in each cell is Returns Above Total Specified Expenses.
Only the product listed has been varied to calculate net returns.

Table 1.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Cotton, B2/RRFlex,8-row equipment, non-irrigated, alluvial soil, Louisiana, 2021.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.38	0.41	0.44	0.48	0.53	0.58	0.64	0.72	0.83	0.97	1.16
PERCENT	YIELD	UNIT	-----dollars-----										
50	500.00	1b	-281	-267	-251	-233	-211	-184	-152	-111	-59	9	107
			-388	-374	-358	-340	-318	-291	-259	-218	-166	-97	0
60	600.00	1b	-242	-226	-206	-184	-158	-126	-87	-38	23	107	223
			-349	-333	-313	-291	-265	-233	-194	-145	-83	0	116
70	700.00	1b	-203	-184	-162	-135	-105	-67	-22	34	107	204	340
			-311	-291	-269	-242	-212	-174	-129	-72	0	97	233
80	800.00	1b	-165	-142	-117	-87	-52	-9	42	107	190	301	456
			-272	-249	-224	-194	-159	-116	-64	0	83	194	349
90	900.00	1b	-126	-101	-72	-38	0	48	107	179	273	398	573
			-233	-208	-179	-145	-106	-58	0	72	166	291	466
100	1000.00	1b	-87	-59	-27	9	53	107	171	252	356	495	690
			-194	-166	-134	-97	-53	0	64	145	249	388	583
110	1100.00	1b	-48	-17	17	58	107	165	236	325	440	592	806
			-155	-124	-89	-48	0	58	129	218	333	485	699
120	1200.00	1b	-9	23	62	107	160	223	301	398	523	690	923
			-116	-83	-44	0	53	116	194	291	416	583	816
130	1300.00	1b	29	65	107	155	213	281	366	471	606	787	1040
			-77	-41	0	48	106	174	259	364	499	680	933
140	1400.00	1b	68	107	151	204	266	340	430	544	690	884	1156
			-38	0	44	97	159	233	323	437	583	777	1049
150	1500.00	1b	107	148	196	252	319	398	495	617	773	981	1273
			0	41	89	145	212	291	388	510	666	874	1166

The top number in each cell is Returns Above Direct Expenses.
The bottom number in each cell is Returns Above Total Specified Expenses.
Only the product listed has been varied to calculate net returns.

Table 2.A Estimated costs per Acre Cotton, B2/RRFlex Cotton, 8-row equipment, irrigated, alluvial soil, Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
App by Air (5 gal)	appl	7.00	1.0000	7.00	_____
HARVEST AIDS					
Dropp SC	oz	1.70	1.2000	2.04	_____
Prep	pt	3.84	1.3300	5.11	_____
Def/Folex	pt	7.68	0.7500	5.76	_____
FERTILIZERS					
LA Phosphate	lb	0.39	60.0000	23.40	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	90.0000	34.20	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	88.0000	16.72	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.5000	8.75	_____
Cotoran 4L	pt	6.01	1.2000	7.21	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.85	1.2800	1.09	_____
Dimethoate 4E	pt	5.44	0.4000	2.18	_____
Orthene 90S	lb	6.00	1.8000	10.80	_____
Centric 40WG	oz	5.08	4.0000	20.32	_____
Karate Z	oz	1.00	6.3900	6.39	_____
Bidrin 8L	oz	1.33	12.0000	15.96	_____
Diamond .83EC	pt	19.52	0.7500	14.64	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	2.61	52.5000	137.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	62.69	1.0000	62.69	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.40	24.0000	9.60	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Crop Consultant	acre	7.00	1.0000	7.00	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
Cotton Checkoff	bale	2.56	2.2900	5.86	_____
OPERATOR LABOR					
Self-Propelled	hour	15.30	0.2428	3.72	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
HAND LABOR					
Self-Propelled	hour	9.06	0.2075	1.88	_____
LA Hired Labor					
Implements	hour	11.83	0.3636	4.31	_____
Tractors	hour	11.83	1.3665	16.18	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	12.8637	22.27	_____
Self-Propelled	gal	1.73	3.8293	6.61	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	11.93	1.0000	11.93	_____
Tractors	Acre	7.67	1.0000	7.67	_____
Self-Propelled	Acre	13.32	1.0000	13.32	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	11.55	1.0000	11.55	_____

TOTAL DIRECT EXPENSES				635.26	_____
FIXED EXPENSES					
Implements	Acre	18.66	1.0000	18.66	_____
Tractors	Acre	46.60	1.0000	46.60	_____
Self-Propelled	Acre	53.12	1.0000	53.12	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____

TOTAL FIXED EXPENSES				166.17	_____

TOTAL SPECIFIED EXPENSES				801.43	_____

Table 2.B Estimated resource use and costs for field operations, per Acre
 Cotton, B2/RRFlex Cotton, 8-row equipment, irrigated, alluvial soil, Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Paratill & Bed Fold.	8R-38	MFWD 225	0.080	0.50	Nov	1.10	1.79	0.68	1.14	0.04	0.48				5.19
Lime (Spread)	ton			0.33	Nov							0.3300	38.00	12.54	12.54
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Nov	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Phosphate	lb											60.0000	0.39	23.40	23.40
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.69	2.67	0.41	1.04	0.07	0.88				6.69
Row Cond (Harrow)	38'	MFWD 225	0.039	1.00	Nov	1.08	1.74	0.22	0.89	0.03	0.46				4.39
Roller	32'	MFWD 170	0.046	1.00	Nov	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Ditcher		2WD 130	0.020	1.00	Nov	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Sprayer (600-750Gal)	60'		0.017	1.00	Mar	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	5.83	8.75	8.75
Plant & Pre Folding	8R-38	MFWD 170	0.080	1.00	Apr	1.62	2.45	1.84	3.38	0.16	1.90				11.19
Cotoran 4L	pt											1.2000	6.01	7.21	7.21
Cotton Seed BGII/RRF	thous											52.5000	2.61	137.03	137.03
Ammo 2.5 EC	oz											1.2800	0.85	1.09	1.09
BGII/RRF Cot Tech Fe cap/ac												1.0000	62.69	62.69	62.69
Ditcher		2WD 130	0.020	1.00	Apr	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											90.0000	0.38	34.20	34.20
Sprayer (600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Dimethoate 4E	pt											0.4000	5.44	2.18	2.18
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
Sprayer (600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Sprayer (600-750Gal)	60'		0.017	1.00	Jun	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Centric 40WG	oz											2.0000	5.08	10.16	10.16
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Centric 40WG	oz											2.0000	5.08	10.16	10.16
Pix Plus	oz											12.0000	0.40	4.80	4.80
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.34	2.04	0.49	0.56	0.10	1.19				5.62
Layby Pro	qt											1.0000	12.60	12.60	12.60
Eradication Fee	acre			1.00	Jul							1.0000	6.00	6.00	6.00
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Pix Plus	oz											12.0000	0.40	4.80	4.80
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Karate Z	oz											2.1300	1.00	2.13	2.13
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.6000	6.00	3.60	3.60
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Dropp SC	oz											1.2000	1.70	2.04	2.04
Prep	pt											1.3300	3.84	5.11	5.11
Def/Folex	pt											0.7500	7.68	5.76	5.76
Cotton Picker-1st-Tr	6R38"330hp		0.172	1.00	Sep	17.89	47.92			0.34	4.20				70.01
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.49	2.93	0.34	4.08				18.64
Boll Buggy-1st pick	6R38"325hp	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.31	2.57	0.17	2.04				16.06
Stalk Shredder-Flail	12'	MFWD 150	0.137	1.00	Nov	2.45	3.57	2.61	1.52	0.13	1.63				11.78
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Digital Ag Fee	acre			1.00	Nov							1.0000	8.50	8.50	8.50
Cotton Checkoff	bale			1.00	Nov							2.2900	2.56	5.86	5.86
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32				101.40
TOTALS						49.87	99.72	33.88	66.45	2.33	27.94			512.02	789.88
INTEREST ON OPERATING CAPITAL															11.55
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															801.43

Table 2.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre Cotton, B2/RRFlex Cotton, 8-row equipment, irrigated, alluvial soil, Louisiana, 2021.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.22	0.24	0.26	0.28	0.31	0.34	0.38	0.43	0.49	0.57	0.68
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	1b	-321	-310	-297	-281	-263	-241	-214	-181	-137	-80	0
			-488	-476	-463	-447	-429	-407	-380	-347	-304	-246	-166
60	840.00	1b	-289	-275	-260	-241	-219	-193	-160	-120	-68	0	96
			-455	-442	-426	-407	-385	-359	-327	-286	-235	-166	-69
70	980.00	1b	-257	-241	-222	-201	-175	-144	-107	-60	0	80	193
			-423	-407	-389	-367	-341	-311	-273	-226	-166	-85	27
80	1120.00	1b	-225	-206	-185	-160	-131	-96	-53	0	68	160	289
			-391	-373	-351	-327	-297	-262	-219	-166	-97	-5	123
90	1260.00	1b	-193	-172	-148	-120	-87	-48	0	60	137	241	386
			-359	-338	-314	-286	-253	-214	-166	-105	-28	75	220
100	1400.00	1b	-160	-137	-111	-80	-43	0	53	120	206	321	482
			-327	-304	-277	-246	-210	-166	-112	-45	40	155	316
110	1540.00	1b	-128	-103	-74	-40	0	48	107	181	275	402	579
			-294	-269	-240	-206	-166	-117	-58	14	109	236	413
120	1680.00	1b	-96	-68	-37	0	43	96	160	241	344	482	676
			-262	-235	-203	-166	-122	-69	-5	75	178	316	509
130	1820.00	1b	-64	-34	0	40	87	144	214	301	413	563	772
			-230	-200	-166	-125	-78	-21	48	135	247	397	606
140	1960.00	1b	-32	0	37	80	131	193	268	362	482	643	869
			-198	-166	-129	-85	-34	27	102	196	316	477	703
150	2100.00	1b	0	34	74	120	175	241	321	422	551	724	965
			-166	-131	-91	-45	9	75	155	256	385	558	799

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.

Table 2.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre Cotton, B2/RRFlex Cotton, 8-row equipment, irrigated, alluvial soil, Louisiana, 2021.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.30	0.33	0.35	0.38	0.42	0.46	0.51	0.57	0.66	0.77	0.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	1b	-266	-251	-233	-212	-187	-158	-122	-77	-19	57	166
			-432	-417	-399	-378	-354	-324	-288	-243	-185	-108	0
60	840.00	1b	-223	-204	-183	-158	-128	-93	-50	3	73	166	295
			-389	-370	-349	-324	-295	-259	-216	-162	-92	0	129
70	980.00	1b	-180	-158	-133	-104	-69	-28	21	85	166	274	425
			-346	-324	-299	-270	-236	-194	-144	-81	0	108	259
80	1120.00	1b	-136	-112	-83	-50	-10	36	94	166	258	382	555
			-302	-278	-249	-216	-177	-129	-72	0	92	216	389
90	1260.00	1b	-93	-65	-33	3	48	101	166	247	351	490	685
			-259	-231	-199	-162	-118	-64	0	81	185	324	519
100	1400.00	1b	-50	-19	16	57	107	166	238	328	444	598	815
			-216	-185	-149	-108	-59	0	72	162	278	432	649
110	1540.00	1b	-6	27	66	112	166	231	310	409	537	707	945
			-173	-139	-99	-54	0	64	144	243	370	540	778
120	1680.00	1b	36	73	116	166	225	295	382	490	629	815	1074
			-129	-92	-49	0	59	129	216	324	463	649	908
130	1820.00	1b	79	119	166	220	284	360	454	571	722	923	1204
			-86	-46	0	54	118	194	288	405	556	757	1038
140	1960.00	1b	122	166	216	274	343	425	526	653	815	1031	1334
			-43	0	49	108	177	259	360	486	649	865	1168
150	2100.00	1b	166	212	266	328	402	490	598	734	908	1139	1464
			0	46	99	162	236	324	432	567	741	973	1298

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.

Table 3.A Estimated costs per Acre
 Cotton, B2/RR Flex Cotton, 8-row equipment, irrigated, Macon Ridge Area, Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
App by Air (5 gal)	appl	7.00	1.0000	7.00	_____
HARVEST AIDS					
Dropp SC	oz	1.70	1.2000	2.04	_____
Prep	pt	3.84	1.3300	5.11	_____
Def/Folex	pt	7.68	0.7500	5.76	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	90.0000	34.20	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	88.0000	16.72	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.5000	8.75	_____
Cotoran 4L	pt	6.01	1.2000	7.21	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.85	1.2800	1.09	_____
Dimethoate 4E	pt	5.44	0.4000	2.18	_____
Orthene 90S	lb	6.00	1.8000	10.80	_____
Centric 40WG	oz	5.08	4.0000	20.32	_____
Karate Z	oz	1.00	6.3900	6.39	_____
Bidrin 8L	oz	1.33	12.0000	15.96	_____
Diamond .83EC	pt	19.52	0.3750	7.32	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	2.61	52.5000	137.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	62.69	1.0000	62.69	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.40	24.0000	9.60	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
Cotton Checkoff	bale	2.56	2.0800	5.32	_____
OPERATOR LABOR					
Self-Propelled	hour	15.30	0.2428	3.72	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
HAND LABOR					
Self-Propelled	hour	9.06	0.2075	1.88	_____
LA Hired Labor					
Implements	hour	11.83	0.3636	4.31	_____
Tractors	hour	11.83	1.3594	16.10	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	12.8904	22.31	_____
Self-Propelled	gal	1.73	3.8741	6.69	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	11.88	1.0000	11.88	_____
Tractors	Acre	7.70	1.0000	7.70	_____
Self-Propelled	Acre	13.32	1.0000	13.32	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	11.43	1.0000	11.43	_____
TOTAL DIRECT EXPENSES				610.86	_____
FIXED EXPENSES					
Implements	Acre	19.35	1.0000	19.35	_____
Tractors	Acre	46.82	1.0000	46.82	_____
Self-Propelled	Acre	53.12	1.0000	53.12	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				167.08	_____
TOTAL SPECIFIED EXPENSES				777.94	_____

Table 3.B Estimated resource use and costs for field operations, per Acre
 Cotton, B2/RR Flex Cotton, 8-row equipment, irrigated, Macon Ridge Area, Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
-----dollars-----															
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Nov	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.69	2.67	0.41	1.04	0.07	0.88				6.69
Row Cond (Harrow)	27'	MFWD 190	0.057	1.00	Nov	1.31	2.07	0.18	0.73	0.05	0.68				4.97
Roller	32'	MFWD 170	0.046	1.00	Nov	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Ditcher		2WD 130	0.020	1.00	Nov	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Sprayer (600-750Gal)	60'		0.017	1.00	Mar	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	5.83	8.75	8.75
Plant & Pre Folding	8R-38	MFWD 170	0.080	1.00	Apr	1.62	2.45	1.84	3.38	0.16	1.90				11.19
Cotoran 4L	pt											1.2000	6.01	7.21	7.21
Cotton Seed BGII/RRF	thous											52.5000	2.61	137.03	137.03
Ammo 2.5 EC	oz											1.2800	0.85	1.09	1.09
BGII/RRF Cot Tech Fe cap/ac												1.0000	62.69	62.69	62.69
Ditcher		2WD 130	0.020	1.00	Apr	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											90.0000	0.38	34.20	34.20
Sprayer (600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Dimethoate 4E	pt											0.4000	5.44	2.18	2.18
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
Sprayer (600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Sprayer (600-750Gal)	60'		0.017	1.00	Jun	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Centric 40WG	oz											2.0000	5.08	10.16	10.16
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Centric 40WG	oz											2.0000	5.08	10.16	10.16
Pix Plus	oz											12.0000	0.40	4.80	4.80
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.34	2.04	0.49	0.56	0.10	1.19				5.62
Layby Pro	qt											1.0000	12.60	12.60	12.60
Eradication Fee	acre			1.00	Jul							1.0000	6.00	6.00	6.00
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Pix Plus	oz											12.0000	0.40	4.80	4.80
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Karate Z	oz											2.1300	1.00	2.13	2.13
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.6000	6.00	3.60	3.60
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Dropp SC	oz											1.2000	1.70	2.04	2.04
Prep	pt											1.3300	3.84	5.11	5.11
Def/Folex	pt											0.7500	7.68	5.76	5.76
Cotton Picker-1st-BB	6R38"330hp		0.172	1.00	Sep	17.97	47.92			0.34	4.20				70.09
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.49	2.93	0.34	4.08				18.64
Boll Buggy-1st pick	6R38"325hp	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.31	2.57	0.17	2.04				16.06
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Nov	1.47	2.14	2.19	1.28	0.08	0.98				8.06
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Digital Ag Fee	acre			1.00	Nov							1.0000	8.50	8.50	8.50
Cotton Checkoff	bale			1.00	Nov							2.0800	2.56	5.32	5.32
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32	1.0000		7.92	101.40
TOTALS						50.02	99.94	33.83	67.14	2.32	27.86			487.72	766.51
INTEREST ON OPERATING CAPITAL															11.43
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															777.94

Table 3.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre Cotton, B2/RR Flex Cotton, 8-Row Equipment,Irrigated, Macon Ridge Area, Louisiana, 2021.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.26	0.28	0.30	0.33	0.36	0.40	0.44	0.50	0.57	0.66	0.80
PERCENT	YIELD	UNIT	-----dollars-----										
50	600.00	1b	-320	-308	-295	-280	-261	-240	-213	-180	-137	-80	0
			-487	-475	-462	-447	-429	-407	-380	-347	-304	-247	-167
60	720.00	1b	-288	-274	-258	-240	-218	-192	-160	-120	-68	0	96
			-455	-441	-425	-407	-385	-359	-327	-287	-235	-167	-71
70	840.00	1b	-256	-240	-221	-200	-174	-144	-106	-60	0	80	192
			-423	-407	-388	-367	-341	-311	-273	-227	-167	-87	25
80	960.00	1b	-224	-205	-184	-160	-130	-96	-53	0	68	160	288
			-391	-372	-351	-327	-298	-263	-220	-167	-98	-6	121
90	1080.00	1b	-192	-171	-147	-120	-87	-48	0	60	137	240	384
			-359	-338	-314	-287	-254	-215	-167	-107	-29	73	217
100	1200.00	1b	-160	-137	-110	-80	-43	0	53	120	205	320	480
			-327	-304	-277	-247	-210	-167	-113	-47	38	153	313
110	1320.00	1b	-128	-102	-73	-40	0	48	106	180	274	400	576
			-295	-270	-240	-207	-167	-119	-60	13	107	233	409
120	1440.00	1b	-96	-68	-36	0	43	96	160	240	343	480	672
			-263	-235	-204	-167	-123	-71	-6	73	175	313	505
130	1560.00	1b	-64	-34	0	40	87	144	213	300	411	560	768
			-231	-201	-167	-127	-79	-22	46	133	244	393	601
140	1680.00	1b	-32	0	36	80	130	192	266	360	480	640	864
			-199	-167	-130	-87	-36	25	99	193	313	473	697
150	1800.00	1b	0	34	73	120	174	240	320	420	548	720	960
			-167	-132	-93	-47	7	73	153	253	381	553	793

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.

Table 3.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre Cotton, B2/RR Flex Cotton, 8-Row Equipment,Irrigated, Macon Ridge Area, Louisiana, 2021.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.35	0.38	0.41	0.44	0.49	0.53	0.59	0.67	0.77	0.89	1.07
PERCENT	YIELD	UNIT	-----dollars-----										
50	600.00	1b	-264	-249	-231	-210	-186	-156	-120	-75	-17	59	167
			-431	-416	-398	-377	-353	-323	-287	-242	-184	-107	0
60	720.00	1b	-221	-202	-181	-156	-127	-91	-48	5	74	167	296
			-388	-369	-348	-323	-294	-258	-215	-161	-92	0	129
70	840.00	1b	-178	-156	-131	-102	-68	-27	23	86	167	274	426
			-345	-323	-298	-269	-235	-194	-143	-80	0	107	258
80	960.00	1b	-135	-110	-81	-48	-9	37	95	167	259	382	555
			-302	-277	-248	-215	-176	-129	-71	0	92	215	388
90	1080.00	1b	-91	-64	-32	5	49	102	167	248	352	490	684
			-258	-231	-199	-161	-117	-64	0	80	184	323	517
100	1200.00	1b	-48	-17	17	59	108	167	239	328	444	598	814
			-215	-184	-149	-107	-58	0	71	161	277	431	647
110	1320.00	1b	-5	28	67	113	167	231	310	409	537	706	943
			-172	-138	-99	-53	0	64	143	242	369	539	776
120	1440.00	1b	37	74	117	167	225	296	382	490	629	814	1073
			-129	-92	-49	0	58	129	215	323	462	647	906
130	1560.00	1b	80	120	167	221	284	361	454	571	721	922	1202
			-86	-46	0	53	117	194	287	404	554	755	1035
140	1680.00	1b	123	167	216	274	343	426	526	652	814	1030	1332
			-43	0	49	107	176	258	359	485	647	863	1165
150	1800.00	1b	167	213	266	328	402	490	598	733	906	1138	1461
			0	46	99	161	235	323	431	566	739	971	1294

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.

Table 4.A Estimated costs per Acre
 Cotton, B2/RRFlex Cotton, 12-row equipment, irrigated, Alluvial Soil, Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
App by Air (5 gal)	appl	7.00	1.0000	7.00	_____
HARVEST AIDS					
Dropp SC	oz	1.70	1.2000	2.04	_____
Prep	pt	3.84	1.3300	5.11	_____
Def/Folex	pt	7.68	0.7500	5.76	_____
FERTILIZERS					
LA Phosphate	lb	0.39	60.0000	23.40	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	90.0000	34.20	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	88.0000	16.72	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.5000	8.75	_____
Cotoran 4L	pt	6.01	1.2000	7.21	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.85	1.2800	1.09	_____
Dimethoate 4E	pt	5.44	0.4000	2.18	_____
Orthene 90S	lb	6.00	1.8000	10.80	_____
Centric 40WG	oz	5.08	4.0000	20.32	_____
Karate Z	oz	1.00	6.3900	6.39	_____
Bidrin 8L	oz	1.33	12.0000	15.96	_____
Diamond .83EC	pt	19.52	0.7500	14.64	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	2.61	52.5000	137.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	62.69	1.0000	62.69	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.40	24.0000	9.60	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
Cotton Checkoff	bale	2.56	2.2900	5.86	_____
OPERATOR LABOR					
Self-Propelled	hour	15.30	0.2428	3.72	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
HAND LABOR					
Self-Propelled	hour	9.06	0.2075	1.88	_____
LA Hired Labor					
Implements	hour	11.83	0.2997	3.55	_____
Tractors	hour	11.83	1.1722	13.87	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	11.4327	19.80	_____
Self-Propelled	gal	1.73	3.8741	6.69	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	10.84	1.0000	10.84	_____
Tractors	Acre	6.91	1.0000	6.91	_____
Self-Propelled	Acre	13.32	1.0000	13.32	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	11.44	1.0000	11.44	_____
TOTAL DIRECT EXPENSES				615.30	_____
FIXED EXPENSES					
Implements	Acre	18.03	1.0000	18.03	_____
Tractors	Acre	41.86	1.0000	41.86	_____
Self-Propelled	Acre	53.12	1.0000	53.12	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				160.80	_____
TOTAL SPECIFIED EXPENSES				776.10	_____

Table 4.B Estimated resource use and costs for field operations, per Acre
Cotton, B2/RRFlex Cotton, 12-row equipment, irrigated, Alluvial Soil, Louisiana, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----						dollars		-----dollars-----	
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Paratill & Bed Fold.	12R-38	MFWD 225	0.053	0.50	Nov	0.74	1.19	0.66	1.10	0.02	0.32				4.01
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Nov	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Phosphate	lb											60.0000	0.39	23.40	23.40
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Row Cond (Harrow)	38'	MFWD 225	0.039	1.00	Nov	1.08	1.74	0.22	0.89	0.03	0.46				4.39
Roller	32'	MFWD 170	0.046	1.00	Nov	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Ditcher		2WD 130	0.020	1.00	Nov	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Sprayer(600-750Gal)	60'		0.017	1.00	Mar	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	5.83	8.75	8.75
Plant & Pre Folding	12R-38	MFWD 190	0.053	1.00	Apr	1.22	1.92	1.86	3.42	0.10	1.26				9.68
Cotoran 4L	pt											1.2000	6.01	7.21	7.21
Cotton Seed BGII/RRF	thous											52.5000	2.61	137.03	137.03
Ammo 2.5 EC	oz											1.2800	0.85	1.09	1.09
BGII/RRF Cot Tech Fe cap/ac												1.0000	62.69	62.69	62.69
Ditcher		2WD 130	0.020	1.00	Apr	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Nitrogen	lb											90.0000	0.38	34.20	34.20
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Dimethoate 4E	pt											0.4000	5.44	2.18	2.18
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.51	1.30			0.02	0.35				2.16
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Centric 40WG	oz											2.0000	5.08	10.16	10.16
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Centric 40WG	oz											2.0000	5.08	10.16	10.16
Pix Plus	oz											12.0000	0.40	4.80	4.80
Spray (Direct/Layby)	12R-38	MFWD 170	0.044	1.00	Jun	0.89	1.36	0.40	0.47	0.06	0.79				3.91
Layby Pro	qt											1.0000	12.60	12.60	12.60
Eradication Fee	acre			1.00	Jul							1.0000	6.00	6.00	6.00
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Pix Plus	oz											12.0000	0.40	4.80	4.80
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Karate Z	oz											2.1300	1.00	2.13	2.13
Bidrin 8L	oz											6.0000	1.33	7.98	7.98
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.6000	6.00	3.60	3.60
Karate Z	oz											2.1300	1.00	2.13	2.13
Diamond .83EC	pt											0.3750	19.52	7.32	7.32
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Orthene 90S	lb											0.6000	6.00	3.60	3.60
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Dropp SC	oz											1.2000	1.70	2.04	2.04
Prep	pt											1.3300	3.84	5.11	5.11
Def/Folex	pt											0.7500	7.68	5.76	5.76
Cotton Picker-1st-BB	6R38"330hp		0.172	1.00	Sep	17.97	47.92			0.34	4.20				70.09
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.49	2.93	0.34	4.08				18.64
Boll Buggy-1st pick	6R38"325hp	MFWD 190	0.172	1.00	Sep	3.94	6.20	1.31	2.57	0.17	2.04				16.06
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Nov	1.47	2.14	2.19	1.28	0.08	0.98				8.06
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Digital Ag Fee	acre			1.00	Nov							1.0000	8.50	8.50	8.50
Cotton Checkoff	bale			1.00	Nov							2.2900	2.56	5.86	5.86
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32	1.0000		7.92	101.40
TOTALS						46.72	94.98	32.79	65.82	2.07	24.87			499.48	764.66
INTEREST ON OPERATING CAPITAL															11.44
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															776.10

Table 4.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre Cotton, B2/RRFlex Cotton, 12-row equipment, irrigated, Alluvial Soil, Louisiana, 2021.

Cotton Lint			-----BREAKEVEN PRICE-----										
			0.22	0.23	0.25	0.27	0.30	0.33	0.36	0.41	0.47	0.55	0.66
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	lb	-308	-297	-284	-270	-252	-231	-205	-173	-132	-77	0
			-469	-458	-445	-430	-413	-392	-366	-334	-293	-237	-160
60	840.00	lb	-277	-264	-249	-231	-210	-185	-154	-115	-66	0	92
			-438	-425	-410	-392	-371	-345	-315	-276	-226	-160	-68
70	980.00	lb	-246	-231	-213	-192	-168	-138	-102	-57	0	77	185
			-407	-392	-374	-353	-329	-299	-263	-218	-160	-83	24
80	1120.00	lb	-216	-198	-178	-154	-126	-92	-51	0	66	154	277
			-376	-359	-338	-315	-287	-253	-212	-160	-94	-6	116
90	1260.00	lb	-185	-165	-142	-115	-84	-46	0	57	132	231	370
			-345	-326	-303	-276	-244	-207	-160	-102	-28	70	209
100	1400.00	lb	-154	-132	-106	-77	-42	0	51	115	198	308	462
			-315	-293	-267	-237	-202	-160	-109	-45	37	147	302
110	1540.00	lb	-123	-99	-71	-38	0	46	102	173	264	385	555
			-284	-260	-232	-199	-160	-114	-57	12	103	225	394
120	1680.00	lb	-92	-66	-35	0	42	92	154	231	330	462	648
			-253	-226	-196	-160	-118	-68	-6	70	169	302	487
130	1820.00	lb	-61	-33	0	38	84	138	205	289	396	540	740
			-222	-193	-160	-122	-76	-21	44	128	236	379	579
140	1960.00	lb	-30	0	35	77	126	185	257	347	462	617	833
			-191	-160	-125	-83	-34	24	96	186	302	456	672
150	2100.00	lb	0	33	71	115	168	231	308	405	529	694	925
			-160	-127	-89	-45	7	70	147	244	368	533	765

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.

Table 4.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre Cotton, B2/RRFlex Cotton, 12-row equipment, irrigated, Alluvial Soil, Louisiana, 2021.

Cotton Lint			-----BREAKEVEN PRICE-----										
			0.29	0.31	0.34	0.37	0.40	0.44	0.49	0.55	0.63	0.74	0.89
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	lb	-255	-240	-223	-203	-179	-151	-116	-73	-17	56	160
			-415	-401	-383	-363	-340	-311	-277	-233	-178	-103	0
60	840.00	lb	-213	-195	-175	-151	-122	-88	-47	4	71	160	285
			-374	-356	-335	-311	-283	-249	-207	-155	-89	0	124
70	980.00	lb	-171	-151	-127	-99	-66	-26	22	82	160	264	410
			-332	-311	-287	-259	-226	-187	-138	-77	0	103	249
80	1120.00	lb	-130	-106	-79	-47	-9	36	91	160	249	368	535
			-291	-267	-239	-207	-170	-124	-69	0	89	207	374
90	1260.00	lb	-88	-61	-31	4	47	98	160	238	339	472	659
			-249	-222	-191	-155	-113	-62	0	77	178	311	499
100	1400.00	lb	-47	-17	16	56	104	160	230	316	428	576	784
			-207	-178	-143	-103	-56	0	69	155	267	415	623
110	1540.00	lb	-5	27	64	108	160	223	299	394	517	680	909
			-166	-133	-95	-51	0	62	138	233	356	519	748
120	1680.00	lb	36	71	112	160	217	285	368	472	606	784	1034
			-124	-89	-47	0	56	124	207	311	445	623	873
130	1820.00	lb	77	116	160	212	274	347	438	550	695	888	1158
			-83	-44	0	51	113	187	277	389	534	727	998
140	1960.00	lb	119	160	208	264	330	410	507	628	784	992	1283
			-41	0	47	103	170	249	346	467	623	831	1122
150	2100.00	lb	160	205	256	316	387	472	576	706	873	1096	1408
			0	44	95	155	226	311	415	545	712	935	1247

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.

Appendix Table 1 Estimated costs per Acre
Poly pipe irrigation system, 160 acres
applying 10.5 inches in three applications Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	11.83	0.2930	3.47	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	2.8274	4.90	_____
Engine, RPF, 75	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.40	1.0000	0.40	_____
Tractors	Acre	1.69	1.0000	1.69	_____
Well & Pump, Furrow	each	472.80	0.0062	2.96	_____
Engine, RPF, 75	ac-in	0.39	10.5000	4.20	_____
INTEREST ON OP. CAP.	Acre	0.59	1.0000	0.59	_____
TOTAL DIRECT EXPENSES				42.77	_____
FIXED EXPENSES					
Implements	Acre	1.08	1.0000	1.08	_____
Tractors	Acre	10.35	1.0000	10.35	_____
Well & Pump, Furrow	each	1328.54	0.0062	8.30	_____
Main Line Pipe	each	734.41	0.0062	4.59	_____
Land Forming (\$300)	each	26.30	1.0000	26.30	_____
Engine, RPF, 75	each	1376.08	0.0062	8.60	_____
TOTAL FIXED EXPENSES				59.22	_____
TOTAL SPECIFIED EXPENSES				101.99	_____

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	11.83	0.2036	2.41	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	1.73	11.2011	19.37	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	472.80	0.0074	3.50	_____
Engine, 1/4 CP, 65	ac-in	0.66	7.5000	4.97	_____
Pivot, 1/4 CP	1320'	1820.00	0.0074	13.48	_____
INTEREST ON OP. CAP.	Acre	0.70	1.0000	0.70	_____
TOTAL DIRECT EXPENSES				44.43	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1328.54	0.0074	9.84	_____
Engine, 1/4 CP, 65	each	1376.08	0.0074	10.19	_____
Pivot, 1/4 CP	each	6995.72	0.0074	51.82	_____
TOTAL FIXED EXPENSES				71.85	_____
TOTAL SPECIFIED EXPENSES				116.28	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
dollars		
CUSTOM HARVEST/HAUL		
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.50
App by Air (5 gal)	appl	7.00
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.50
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	18.62
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	3.00
DAP	cwt	20.99
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	24.08
Fert 10-34-0	gal	2.80
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	18.22
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.38
LA Phosphate	lb	0.39
LA Potash	lb	0.28
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	12.03
UAN + Sulfur (28% N)	cwt	14.49
Urea, Solid (46% N)	cwt	19.74
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.90
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	5.94
Crop Oil (Petroleum)	pt	2.86
Cruiser 5FS	oz	0.90
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	0.94
Ridomil GoldPC 10G	lb	2.08

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	77.60
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.76
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.19
Mepex	oz	0.06
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.21
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	3.84
CottonQuik	pt	6.06
Def 6	pt	7.68
Def/Folex	pt	7.68
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.70
Ethephon 6E	pt	4.00
Finish 6	pt	8.00
Folex 6EC	pt	10.21
Ginstar EC	pt	26.68
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.19
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.84
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	6.77
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	2.68
AAtrex 4L	pt	2.23
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.00
Aim DF	oz	9.65
App Fert by Air	cwt	7.00
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.59
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	6.67
Basagran	pt	5.43
Basis Gold	lb	9.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	11.07
Bucril 4EC	pt	17.06
Butoxone 175 (2,4-DB)	pt	3.24
Butoxone 200 (2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	3.64
Canopy 75%	oz	2.74
Canopy XL	oz	2.32
Caparol 4L	pt	4.67
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	10.73
Classic	oz	16.86
Clincher EC	oz	1.95
Cobra 2EC	oz	1.70
Command 3ME	pt	18.56
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	6.01
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.75
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.02
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.03
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.56
Dual Magnum	pt	13.33
Duet	pt	5.63
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	42.57
Flexstar HL	pt	4.66
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29
Fusilade DX	oz	1.15
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.08
Glystar Plus	pt	2.17
Goal 2XL	pt	7.52
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	3.00
Gramoxone Max	pt	3.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Grandstand R	qt	17.15
Guardsman	pt	4.66
Guardsman Max	pt	7.22
Harmony Extra	oz	11.03
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.00
LA Weedmaster	qt	5.76
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.60
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	3.86
MSMA6 + Surfactant	pt	3.86
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.66
Pendimax 3.3	pt	2.47
Permit 75DF	oz	15.00
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.76
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.10
Raptor	oz	4.38
Reflex 2LC	pt	6.20
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	24.49
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	3.04
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.19
Scepter 70 DG	oz	4.82
Select 2EC	oz	0.71
Sencor 4F	pt	14.74
Sencor DF	lb	14.25
Squadron CE	pt	12.50
Stam 4E	qt	7.72
Stam 80 EDF	lb	9.45
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.91
Strongarm	oz	56.42
Superwham	qt	8.61
Suprend	lb	13.52
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	10.21
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	10.21
Treflan HFP	pt	2.88
Treflan TR-10	lb	1.10

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.68
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	5.83
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	6.42
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.85
App Fert by Air (Min)	appl	7.50
Asana .66 XL	oz	0.55
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Brigade EC	pt	9.60
Brigade WSB	lb	26.04
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.08
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Custom Apply Fert	acre	7.00
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Diamond .83EC	pt	19.52
Dimethoate 4E	pt	5.44
Dimilin 2L	oz	2.16
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	7.28
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.94
Intruder 70WP	oz	1.80
Karate Z	oz	1.00
Lannate LV	pt	9.00
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	10.56
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.50
Organophosphate	oz	0.00
Orthene 90S	lb	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	16.50
Pounce 3.2 EC	oz	0.34

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Prevathon	oz	1.05
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	12.16
Spintor 2SC	oz	4.93
Steward	pt	39.51
Surfactant	pt	3.30
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	2.57
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.24
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LA Rice Insurance	Dollar	1.00
LA Rice Misc. Overhd	dollar	1.00
LA Rice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	4.38
Corn Seed Conv.	thous	2.76
Corn Seed RR	thous	3.38
Corn Seed VT3	thous	3.91
Corn Seed VT3Pro	thous	3.91
Cotton Seed BG/RR	thous	0.62
Cotton Seed BGII/RRF	thous	2.61
Cotton Seed Bt	thous	2.60
Cotton Seed BtRR	thous	3.15
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
Cotton Seed WS	thous	0.49
Cotton Seed WS/RR	thous	0.00
Cotton Seed WS/RRF	thous	0.59
Rice Clearfield 161	lb	0.90
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.90
Rice Seed CF (Levees)	lb	0.95
Rice Seed Conv.	lb	0.32
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.64
Sorghum Hybrid Sudax	lb	1.20
Sorghum NonConcept	lb	1.18
Soybean Seed LL	lb	1.16
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	0.84
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.28
Wheat Seed Public	lb	0.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
dollars		
SERVICE FEE		
Cotton Checkoff	bale	2.56
Cotton Storage	bale	25.00
Crop Consultant	acre	7.00
Custom Combine Rice	acre	0.00
Custom Spread(Truc	appl	4.50
Digital Ag Fee	acre	8.50
Digital Ag Fee	acre	8.50
Insect Scouting	acre	7.00
Lime (Spread)	ton	38.00
Rice Consultant	acre	8.00
RRF Cotton Tech Fee	cap/ac	48.25
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BGII/RRF Cot Tech Fe	thous	1.49
BGII/RRF Cot Tech Fe	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00
Eradication Zone 1B	acre	6.00
Eradication Zone 2	acre	6.00
Eradication Zone 3	acre	6.00
Eradication Zone 4	acre	6.00
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66
RRF Cotton Tech Fee	thous	1.04

Appendix Table 4. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2021.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (170-199 hp)	190hp	0	300	8	9.78	13.51	16.91	0.00	30.42	0.00	30.42
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	21.36	16.82	51.70	64.41	116.12
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	22.26	0.00	35.77	0.00	35.77
Combine (250-299 hp)	275hp	352,000	300	8	14.15	13.51	24.47	36.66	74.65	140.36	215.01
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	26.26	22.73	62.50	87.01	149.52
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	25.82	0.00	39.33	0.00	39.33
Combine (300-349 hp)	325hp	383,000	300	8	16.73	13.51	28.94	39.89	82.34	152.72	235.07
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	28.49	0.00	42.00	0.00	42.00
Combine (350-379 hp)	370hp	390,000	300	8	19.04	13.51	32.93	40.62	87.07	155.51	242.58
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	32.50	0.00	46.01	0.00	46.01
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	13.97	26.56	54.05	101.68	155.73
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.83	8.28	2.72	22.83	7.55	30.39
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.83	6.05	1.57	19.46	4.37	23.83
Tractor (40-59hp)Cab	2WD 50	30,900	600	8	2.57	11.83	4.45	0.96	17.24	5.61	22.85
Tractor (40-59hp)Cab	MFWD 50	41,400	600	8	2.57	11.83	4.45	1.29	17.57	7.51	25.09
Tractor (40-59hp)RB	2WD 50	30,900	600	8	2.57	11.83	4.45	0.96	17.24	5.61	22.85
Tractor (40-59hp)RB	MFWD 50	27,200	600	8	2.57	11.83	4.45	0.85	17.13	4.93	22.07
Tractor (60-89hp)CAB	2WD 75	53,200	600	8	3.86	11.83	6.67	1.66	20.17	9.66	29.83
Tractor (60-89hp)CAB	MFWD 75	57,600	600	8	3.86	11.83	6.67	1.80	20.30	10.46	30.76
Tractor (60-89hp)RB	2WD 75	38,400	600	8	3.86	11.83	6.67	1.20	19.70	6.97	26.68
Tractor (60-89hp)RB	MFWD 75	41,800	600	8	3.86	11.83	6.67	1.30	19.81	7.59	27.40
Tractor (90-119hp)CB	2WD 105	71,200	600	8	5.40	11.83	9.34	2.22	23.40	12.93	36.33
Tractor (90-119hp)CB	MFWD 105	91,700	600	8	5.40	11.83	9.34	2.86	24.04	16.65	40.69
Tractor (90-119hp)RB	2WD 105	64,600	600	8	5.40	11.83	9.34	2.01	23.19	11.73	34.93
Tractor (90-119hp)RB	MFWD 105	71,900	600	8	5.40	11.83	9.34	2.24	23.42	13.05	36.48
Tractor (120-139hp)CB	2WD 130	113,000	600	8	6.69	11.83	11.57	3.53	26.93	20.52	47.45
Tractor (120-139hp)CB	MFWD 130	126,000	600	8	6.69	11.83	11.57	3.93	27.34	22.88	50.22
Tractor (140-159hp)CB	2WD 150	111,000	600	8	7.72	11.83	13.35	3.46	28.65	20.15	48.81
Tractor (140-159hp)CB	MFWD 150	143,000	600	8	7.72	11.83	13.35	4.46	29.65	25.97	55.62
Tractor (160-179hp)CB	2WD 170	160,000	600	8	8.75	11.83	15.13	5.00	31.96	30.47	62.44
Tractor (160-179hp)CB	MFWD 170	160,000	600	8	8.75	11.83	15.13	5.00	31.96	30.47	62.44
Tractor (160-199hp)CB	Track 180	142,710	600	8	9.26	11.83	16.02	4.45	32.31	27.18	59.50
Tractor (180-199hp)CB	2WD 190	143,000	600	8	9.77	11.83	16.91	4.46	33.21	27.24	60.45
Tractor (180-199hp)CB	MFWD 190	189,000	600	8	9.77	11.83	16.91	5.90	34.65	36.00	70.65
Tractor (200-249hp)CB	4WD 225	147,066	600	8	11.58	11.83	20.03	4.59	36.46	28.01	64.47
Tractor (200-249hp)CB	MFWD 225	233,000	600	8	11.58	11.83	20.03	7.28	39.14	44.38	83.53
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	11.83	20.03	8.65	40.52	52.76	93.28
Tractor (250-349hp)CB	4WD 300	298,000	600	8	15.44	11.83	26.71	9.31	47.85	56.76	104.62
Tractor (250-349hp)CB	Track 300	329,000	600	8	15.44	11.83	26.71	10.28	48.82	62.67	111.49
Tractor (350-449hp)CB	4WD 400	366,000	600	8	20.58	11.83	35.61	11.43	58.88	69.72	128.60
Tractor (350-449hp)CB	Track 400	453,000	600	8	20.58	11.83	35.61	14.15	61.60	86.29	147.89
Tractor (450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.83	42.29	8.74	62.87	53.31	116.18

Appendix Table 5. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.50	0.43	3.63	2.23	5.87
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.60	8.54	18.03	36.25	54.29
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	10.27	13.40	31.07	56.86	87.93
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	14.38	17.90	39.67	75.96	115.64
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	8.21	11.66	25.79	49.48	75.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.50	9.21	20.39	39.09	59.49
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.92	9.72	15.85	30.51	67.28	97.79
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.68	12.51	24.08	53.11	77.20
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.57	8.67	20.13	36.79	56.93
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	10.27	13.39	31.06	56.82	87.88
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.38	13.36	15.91	36.66	67.51	104.18
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	8.38	11.67	25.97	49.53	75.51
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.50	9.40	20.58	39.90	60.48
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.90	15.85	29.69	67.28	96.97
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.57	12.51	23.98	53.11	77.10
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.67	9.96	28.57	42.28	70.86
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	6.41	7.34	17.05	31.17	48.23
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.70	11.34	26.31	48.13	74.44
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.31	13.47	31.05	57.19	88.25
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.99	9.14	21.06	38.79	59.85
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.59	11.97	26.49	50.81	77.30
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.10	9.88	22.00	41.96	63.96
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.51	7.80	17.27	33.11	50.39
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.17	8.12	13.43	25.72	56.99	82.72
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.41	10.60	20.31	44.99	65.30
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.67	9.96	28.57	42.28	70.86
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	6.41	7.34	17.05	31.16	48.22
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.70	11.34	26.31	48.13	74.44
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.31	13.47	31.05	57.19	88.25
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.99	9.14	21.06	38.79	59.85
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.59	11.97	26.49	50.81	77.30
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.10	9.88	22.00	41.96	63.96
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.51	7.96	17.43	33.79	51.23
Cotton Picker-2nd-Tr	6R30"325hp	465,000	200	8	16.72	0.184	4.17	7.54	13.43	25.15	56.99	82.14
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.41	10.60	20.31	44.99	65.30
LA Pickup Truck	1/2 ton	28,000	800	5	2.50	1.000	11.33	6.25	3.15	20.73	7.74	28.47
LA Rice Combine	25 ft	181,500	300	10	8.60	0.300	5.05	6.30	14.53	25.89	23.61	49.50
LA Rice Combine-2	25 ft	181,500	300	10	8.60	0.300	5.05	6.30	14.53	25.89	23.61	49.50
LARice Combine Med	20 ft	165,000	300	10	7.10	0.210	3.53	3.63	9.24	16.41	15.01	31.43
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.24	0.06	0.99	0.44	1.44
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	20.49	29.77	62.05	38.25	100.30
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	14.51	23.05	52.30	31.84	84.14
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	7.57	18.67	32.77	25.78	58.56
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.46	7.45	9.61	24.53	17.12	41.65
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.74	5.12	8.51	17.38	15.15	32.53
SC Transloader		33,000	120	12	4.70	0.250	3.11	2.86	4.12	10.10	7.91	18.01
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	12.46	17.08	8.66	38.20	16.08	54.29
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.29	0.00	0.70	0.00	0.70
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.24	0.09	0.65	0.68	1.34
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.18	0.07	0.49	0.51	1.00
Sprayer(600-750Gal)	60'	216,000	350	8	10.29	0.017	0.31	0.44	0.20	0.96	1.44	2.40
Sprayer(600-825Gal)	80'	215,000	350	8	10.29	0.013	0.23	0.33	0.15	0.72	1.07	1.79
Sprayer(600-825Gal)	90'	316,000	350	8	10.29	0.011	0.21	0.29	0.19	0.70	1.40	2.11
Sprayer(1000-1400Gal)	90'	316,000	350	8	14.15	0.014	0.25	0.48	0.23	0.98	1.68	2.66
Sprayer(1200PlusGal)	120'	376,000	350	8	15.44	0.008	0.15	0.33	0.17	0.66	1.25	1.92

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---	Total Direct	---Fixed---	Total Cost		
			dollars	hours	years	hr/ac	\$/acre							
Blade-Box	6'	2WD 130	1,470	200	20	0.020	0.23	0.23	0.01	0.07	0.55	0.01	0.41	0.97
Blade-Box	10'	2WD 50	3,830	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	14'	2WD 50	6,190	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'	2WD 50	1,270	200	20	1.176	13.91	5.23	0.70	1.13	21.00	0.53	6.60	28.14
Blade-Scraper	10'	2WD 50	3,870	200	20	1.176	13.91	5.23	2.16	1.13	22.45	1.64	6.60	30.69
Blade-Scraper	14'	2WD 50	9,810	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	6.14	8.79	3.96	3.06	21.97	7.75	18.70	48.43
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	2.03	2.91	1.31	1.01	7.28	2.57	6.20	16.06
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.87	5.53	2.49	1.93	13.84	4.88	11.78	30.51
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.87	5.53	2.49	1.93	13.84	4.88	11.78	30.51
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	3.04	4.36	1.96	1.52	10.89	3.84	9.28	24.02
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	3.04	4.36	1.96	1.52	10.89	3.84	9.28	24.02
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	3.09	4.43	1.99	1.54	11.07	3.90	9.42	24.41
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.45	3.50	1.57	1.22	8.76	3.09	7.45	19.31
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.58	3.69	1.66	1.28	9.22	3.25	7.85	20.34
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	2.03	2.91	1.31	1.01	7.28	2.57	6.20	16.06
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	5.20	7.44	3.35	2.59	18.61	6.57	15.84	41.03
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.72	2.46	1.11	0.86	6.17	2.17	5.25	13.60
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	3.28	4.69	2.11	1.63	11.72	4.14	9.98	25.84
Boll Buggy-2nd pick	4R30"325hp	MFWD 190	30,500	200	10	0.277	3.28	4.69	2.11	1.63	11.72	4.14	9.98	25.84
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.58	3.69	1.66	1.28	9.23	3.25	7.86	20.35
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.58	3.69	1.66	1.28	9.23	3.25	7.86	20.35
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.62	3.75	1.69	1.31	9.37	3.31	7.98	20.67
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	2.07	2.96	1.33	1.03	7.42	2.62	6.31	16.35
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	2.18	3.12	1.40	1.09	7.81	2.75	6.65	17.23
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.72	2.46	1.11	0.86	6.17	2.17	5.25	13.60
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.97	3.36	1.92	1.12	9.38	3.75	6.54	19.68
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.42	2.73	1.56	0.91	7.62	3.05	5.31	15.99
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	2.03	2.30	1.31	0.77	6.42	2.57	4.47	13.47
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.58	2.91	1.66	0.97	8.13	3.25	5.66	17.06
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.87	4.37	2.49	1.46	12.20	4.88	8.50	25.59
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	2.03	2.30	1.31	0.77	6.42	2.57	4.47	13.47
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	3.04	3.44	1.96	1.15	9.61	3.84	6.69	20.15
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	3.09	3.49	1.99	1.17	9.76	3.90	6.80	20.47
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.45	2.76	1.57	0.92	7.72	3.09	5.38	16.19
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.58	2.91	1.66	0.97	8.13	3.25	5.66	17.06
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.36	1.33	0.93	0.40	4.05	1.56	2.37	7.98
Chisel Plow(Folding)	24'	MFWD 190	43,500	150	12	0.076	0.90	1.29	1.20	0.45	3.85	2.00	2.75	8.60
Chisel Plow(Folding)	32'	MFWD 225	54,500	150	12	0.057	0.68	1.15	1.13	0.42	3.39	1.89	2.56	7.85
Chisel Plow(Folding)	42'	MFWD 225	65,700	150	12	0.044	0.52	0.88	1.04	0.32	2.76	1.74	1.95	6.46
Chisel Plow(Rigid)	15'	2WD 130	13,200	150	12	0.123	1.45	1.42	0.58	0.43	3.90	0.97	2.52	7.41
Chisel Plow(Rigid)	24'	MFWD 190	13,400	150	12	0.077	0.91	1.30	0.37	0.45	3.04	0.62	2.77	6.43
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	1.04	1.48	0.21	0.39	3.13	0.35	2.39	5.89
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.81	1.37	0.34	0.49	3.02	0.58	3.03	6.64
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	1.04	1.48	0.61	0.39	3.53	1.01	2.39	6.95
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.81	1.37	0.59	0.49	3.27	0.98	3.03	7.30
Corn Grain Cart 8R30	500 bu	MFWD 190	27,300	200	12	0.031	0.37	0.54	0.23	0.18	1.34	0.39	1.14	2.88
Corn Grain Cart 8R40	700bu	MFWD 190	44,000	200	12	0.025	0.29	0.42	0.29	0.14	1.16	0.49	0.90	2.56
Cult & Post	4R-38	2WD 105	21,600	150	10	0.173	3.07	1.61	0.99	0.34	6.04	2.54	2.03	10.61
Cult & Post	6R-30	MFWD 150	25,900	150	10	0.146	5.20	1.95	1.01	0.65	8.83	2.58	3.80	15.22
Cult & Post	6R-38	MFWD 150	26,600	150	10	0.115	2.05	1.54	0.82	0.51	4.94	2.09	3.00	10.04
Cult & Post	8R-30	MFWD 190	31,200	150	10	0.110	1.95	1.86	0.91	0.64	5.37	2.33	3.96	11.67
Cult & Post	8R-38	MFWD 190	35,800	150	10	0.086	1.54	1.47	0.83	0.51	4.35	2.11	3.13	9.60
Cult & Post	8R-38 2x1	MFWD 190	45,400	150	10	0.057	1.02	0.97	0.70	0.34	3.04	1.78	2.08	6.92
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.56	1.76	0.75	0.64	4.71	1.91	3.90	10.53
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.15	1.30	0.00	0.47	2.93	0.00	2.88	5.81
Cult & Post	12R-30	MFWD 225	49,800	150	10	0.073	1.30	1.46	0.97	0.53	4.27	2.48	3.25	10.01
Cult & Post	12R-38	MFWD 225	54,000	150	10	0.057	1.02	1.15	0.83	0.42	3.44	2.12	2.56	8.13
Cultipacker	12'	2WD 130	6,720	300	12	0.124	1.47	1.44	0.19	0.43	3.54	0.26	2.55	6.36
Cultipacker	20'	MFWD 150	10,900	300	12	0.074	0.88	0.99	0.19	0.33	2.40	0.25	1.93	4.59
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	1.92	1.51	0.61	0.32	4.38	1.56	1.90	7.85
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	1.62	1.83	0.67	0.61	4.75	1.72	3.57	10.05
Cultivate	6R-38	MFWD 150	19,300	150	10	0.108	1.28	1.44	0.55	0.48	3.77	1.42	2.81	8.02
Cultivate	8R-30	MFWD 190	23,800	150	10	0.103	1.22	1.74	0.65	0.60	4.22	1.66	3.71	9.61
Cultivate	8R-38	MFWD 190	28,400	150	10	0.081	0.96	1.37	0.61	0.48	3.44	1.57	2.93	7.95
Cultivate	8R-38 2x1	MFWD 190	35,200	150	10	0.054	0.64	0.91	0.50	0.32	2.39	1.29	1.95	5.64
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.97	1.65	0.62	0.60	3.85	1.58	3.66	9.09
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.76	1.30	0.00	0.47	2.54	0.00	2.88	5.43
Cultivate	12R-30	MFWD 225	42,500	150	10	0.068	0.81	1.37	0.77	0.50	3.47	1.98	3.05	8.50
Cultivate	12R-38	MFWD 225	43,800	150	10	0.054	0.64	1.08	0.63	0.39	2.75	1.61	2.40	6.78
Disk & Incorporate	14'	2WD 130	33,700	200	10	0.149	2.65	1.73	1.51	0.52	6.42	2.57	3.07	12.07
Disk & Incorporate	24'	MFWD 190	53,600	200	10	0.087	1.54	1.47	1.40	0.51	4.94	2.38	3.14	10.47
Disk & Incorporate	32'	4WD 225	68,700	200	10	0.068	1.21	1.37	1.41	0.31	4.33	2.40	1.92	8.66
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.87	0.98	0.44	0.35	2.66	0.76	2.17	5.60
Disk Bed (Hipper)	4R-38	MFWD 150	10,500	160	10	0.147	1.74	1.97	0.38	0.65	4.76	0.98	3.83	9.58
Disk Bed (Hipper)	6R-30	MFWD 170	16,200	160	10	0.125	1.47	1.89	0.50	0.62	4.50	1.29	3.80	9.60
Disk Bed (Hipper)	6R-38	MFWD 170	16,200	160	10	0.098	1.16	1.49	0.39	0.49	3.55	1.01	3.00	7.58
Disk Bed (Hipper)	8R-30	MFWD 190	20,800	160	10	0.093	1.10	1.58	0.48	0.55	3.73	1.24	3.37	8.35
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	51,400	160	10	0.049	0.58	0.83	0.63	0.29	2.34	1.61	1.77	5.73
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.88	1.50	0.37	0.54	3.30	0.95	3.32	7.58
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.69	1.18	0.34	0.43	2.65	0.87	2.62	6.15
Disk Bed (Hipper)	12R-30	MFWD 225	40,100	160	10	0.062	0.73	1.25	0.62	0.45	3.07	1.59	2.77	7.44

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp. P.U.		Total Direct	--Fixed-- Imp. P.U.		Total Cost
			dollars	hours	years	hr/ac			-----\$/acre-----					
Disk Bed (Hipper)	12R-38	MFWD 225	51,400	160	10	0.049	0.58	0.98	0.63	0.35	2.56	1.61	2.18	6.37
Disk Bed (Hipper)Fld	8R-38	MFWD 190	22,000	160	10	0.074	0.87	1.25	0.40	0.43	2.97	1.03	2.66	6.68
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	19,700	160	10	0.074	0.87	1.25	0.36	0.43	2.93	0.93	2.66	6.53
Disk Bed w/roller	8R-30	2WD 190	26,900	160	10	0.093	1.10	1.58	0.63	0.41	3.74	1.60	2.55	7.90
Disk Bed w/roller	12R-30	MFWD 225	50,900	160	10	0.062	0.73	1.25	0.79	0.45	3.24	2.02	2.77	8.04
Disk Harrow	14'	2WD 130	26,400	180	10	0.140	1.65	1.62	1.02	0.49	4.80	2.09	2.87	9.78
Disk Harrow	24'	MFWD 190	46,200	180	10	0.081	0.96	1.38	1.05	0.48	3.88	2.14	2.94	8.97
Disk Harrow	28'	MFWD 225	56,000	180	10	0.070	0.82	1.40	1.09	0.51	3.83	2.22	3.11	9.17
Disk Harrow	32'		61,400	180	10	0.061	0.82	0.00	1.04	0.00	0.00	2.13	0.00	0.00
Disk Harrow	42'	MFWD 225	107,000	180	10	0.046	0.55	0.93	1.39	0.34	3.22	2.83	2.07	8.13
Ditcher		2WD 130	6,120	200	10	0.020	0.23	0.23	0.04	0.07	0.58	0.06	0.41	1.06
Ditcher (1m/160a)		2WD 130	6,120	200	10	0.009	0.11	0.10	0.02	0.03	0.27	0.02	0.19	0.49
Fert Appl (Liquid)	4R-38	MFWD 150	15,200	150	8	0.154	2.74	2.06	1.56	0.69	7.06	1.70	4.01	12.79
Fert Appl (Liquid)	6R-30	MFWD 170	17,900	150	8	0.130	2.32	1.98	1.56	0.65	6.52	1.70	3.99	12.21
Fert Appl (Liquid)	6R-38	MFWD 170	17,900	150	8	0.103	1.83	1.56	1.23	0.51	5.15	1.34	3.15	9.64
Fert Appl (Liquid)	8R-30	MFWD 190	18,600	150	8	0.098	1.74	1.66	1.21	0.58	5.20	1.32	3.53	10.06
Fert Appl (Liquid)	8R-38	MFWD 190	20,600	150	8	0.077	1.37	1.31	1.06	0.45	4.21	1.16	2.79	8.17
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	21,000	150	8	0.051	0.91	0.87	0.72	0.30	2.82	0.78	1.86	5.47
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.39	1.57	0.97	0.57	4.51	1.06	3.48	9.06
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	1.09	1.24	0.83	0.45	3.63	0.91	2.75	7.29
Fert Appl (Liquid)	12R-30	MFWD 225	24,760	150	8	0.078	1.39	1.57	1.29	0.57	4.83	1.41	3.48	9.73
Fert Appl (Liquid)	12R-38	MFWD 225	19,300	150	8	0.051	0.91	1.03	0.66	0.37	2.99	0.72	2.29	6.01
Field Cult & Inc	12'	2WD 150	19,600	100	10	0.132	2.34	1.76	0.64	0.45	5.21	2.64	2.66	10.52
Field Cult & Inc	24'	MFWD 170	38,500	100	10	0.066	1.17	1.00	0.63	0.33	3.14	2.59	2.01	7.75
Field Cult & Inc	32'	MFWD 190	50,900	100	10	0.049	0.87	0.83	0.63	0.29	2.64	2.57	1.78	7.00
Field Cult & Inc	42'	MFWD 225	69,000	100	10	0.037	0.67	0.75	0.65	0.27	2.35	2.65	1.67	6.68
Field Cultivate	12'	2WD 150	19,600	100	10	0.124	1.47	1.66	0.60	0.43	4.17	2.48	2.50	9.17
Field Cultivate	24'	MFWD 170	31,100	100	10	0.062	0.73	0.94	0.48	0.31	2.47	1.97	1.89	6.34
Field Cultivate	32'	MFWD 190	43,500	100	10	0.046	0.55	0.78	0.50	0.27	2.12	2.06	1.67	5.87
Field Cultivate	42'	MFWD 225	59,400	100	10	0.035	0.42	0.71	0.52	0.25	1.91	2.15	1.57	5.65
Field Cultivate	50'	MFWD 225	69,000	100	10	0.029	0.35	0.59	0.51	0.21	1.68	2.10	1.32	5.11
Gate Installer		2WD 130	2,960	10	10	0.020	0.47	0.23	0.17	0.07	0.95	0.57	0.41	1.94
Grain Drill	12'	2WD 130	28,100	150	8	0.157	3.71	1.81	1.65	0.55	7.74	3.05	3.22	14.02
Grain Drill	15'	MFWD 150	33,900	150	8	0.125	2.97	1.67	1.59	0.56	6.81	2.94	3.26	13.02
Grain Drill	20'	MFWD 170	41,400	150	8	0.094	2.23	1.42	1.46	0.47	5.59	2.69	2.87	11.16
Grain Drill	24'	MFWD 190	66,800	150	8	0.078	1.85	1.32	1.96	0.46	5.62	3.62	2.82	12.07
Grain Drill	30'	MFWD 225	68,500	150	8	0.062	1.48	1.25	1.61	0.45	4.81	2.97	2.79	10.58
Grain Drill & Pre	12'	2WD 130	35,400	150	8	0.169	4.00	1.95	2.24	0.59	8.80	4.13	3.47	16.41
Grain Drill & Pre	15'	MFWD 150	41,200	150	8	0.135	3.20	1.80	2.09	0.60	7.70	3.85	3.51	15.07
Grain Drill & Pre	20'	MFWD 170	46,800	150	8	0.101	2.40	1.53	1.78	0.50	6.22	3.28	3.09	12.60
Grain Drill & Pre	24'	MFWD 190	74,200	150	8	0.084	2.00	1.43	2.35	0.49	6.28	4.33	3.04	13.67
Grain Drill & Pre	30'	MFWD 225	75,800	150	8	0.067	1.60	1.35	1.92	0.49	5.37	3.54	3.00	11.92
Harrow	13'	2WD 130	4,360	200	10	0.119	1.41	1.38	0.18	0.42	3.40	0.26	2.45	6.11
Harrow	21'	2WD 150	6,750	200	10	0.073	0.87	0.98	0.17	0.25	2.29	0.25	1.49	4.03
Harrow	40'	MFWD 190	21,300	200	10	0.038	0.45	0.65	0.28	0.22	1.63	0.42	1.39	3.45
Harrow	47'	MFWD 190	26,000	200	10	0.033	0.39	0.55	0.30	0.19	1.44	0.43	1.18	3.07
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	4.29	1.26	3.38	11.66	1.83	12.95	26.45
Header - Corn	6R30"	240hp	51,400	300	8	0.170	2.30	3.63	2.18	2.86	10.99	3.17	10.96	25.14
Header - Corn	6R38"	240hp	52,300	300	8	0.134	1.81	2.87	1.75	2.26	8.70	2.55	8.65	19.92
Header - Corn	8R-30	240hp	66,800	300	8	0.127	1.72	2.72	2.13	2.14	8.73	3.09	8.22	20.06
Header - Corn	8R-38	275hp	67,000	300	8	0.100	1.36	2.47	1.69	3.70	9.22	2.45	14.17	25.85
Header - Corn	12R-20	275hp	102,000	300	8	0.127	1.72	3.12	3.25	4.68	12.79	4.73	17.92	35.44
Header - Corn	12R-30	275hp	112,000	300	8	0.085	1.15	2.08	2.38	3.12	8.74	3.46	11.95	24.15
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	6.16	4.64	4.85	19.55	6.74	18.58	44.88
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	5.42	4.08	4.27	17.21	5.93	16.35	39.50
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	5.17	3.91	7.75	19.71	5.69	29.69	55.09
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	5.34	4.02	4.20	16.95	5.84	16.10	38.90
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	4.70	3.54	3.70	14.91	5.14	14.17	34.23
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	4.48	3.39	6.72	17.08	4.93	25.73	47.74
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	3.63	0.00	2.86	8.80	0.00	10.96	19.77
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	3.03	0.72	2.38	8.05	1.04	9.14	18.24
Header - Soybean	22' Flex	240hp	33,500	300	8	0.116	1.56	2.48	0.97	1.95	6.97	1.41	7.47	15.86
Header - Soybean	25' Flex	275hp	35,900	300	8	0.102	1.38	2.50	0.91	3.74	8.54	1.33	14.34	24.21
Header - Soybean	30' Flex	275hp	42,400	300	8	0.085	1.15	2.08	0.90	3.12	7.25	1.31	11.95	20.52
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	3.03	0.67	2.38	8.01	0.98	9.14	18.13
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	2.48	0.57	1.95	6.57	0.83	7.47	14.89
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.38	2.18	0.53	1.71	5.81	0.77	6.58	13.17
Header Wheat/Sorghum	30' Rigid	275hp	25,700	300	8	0.085	1.15	2.08	0.54	3.12	6.90	0.79	11.95	19.64
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.38	3.52	1.00	6.68	17.59	2.92	25.60	46.12
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	5.18	2.86	0.91	5.43	14.39	2.65	20.80	37.85
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.36	2.40	0.84	4.57	12.19	2.45	17.52	32.17
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	8.29	4.57	1.25	8.69	22.82	3.66	33.28	59.77
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.53	3.05	1.40	5.79	15.78	4.09	22.19	42.06
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.53	3.60	1.64	6.84	18.62	4.77	26.21	49.61
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.36	2.40	1.16	4.57	12.51	3.37	17.52	33.41

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---	Total Direct	---Fixed---	Total Cost
							\$/acre					
			dollars	hours	years	hr/ac						
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.63	3.66	2.10	6.95	19.35	6.10 26.63 52.09
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	5.25	2.89	1.72	5.50	15.37	5.00 21.06 41.44
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.53	3.05	2.15	5.79	16.53	6.26 22.19 44.99
Heavy Disk	14'	MFWD 150	25,900	180	10	0.145	1.72	1.94	1.05	0.65	5.37	2.14 3.79 11.30
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.15	1.47	1.09	0.48	4.20	2.23 2.96 9.41
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.89	1.28	1.05	0.44	3.68	2.16 2.72 8.56
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.70	0.80	0.13	0.26	1.91	0.14 1.55 3.61
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.87	4.10	0.29	1.43	8.70	0.74 8.73 18.18
Land Plane	50'x16'	MFWD 190	10,800	200	10	0.151	1.79	2.56	0.32	0.89	5.58	0.83 5.45 11.87
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.91	6.67	2.64	2.23	17.46	3.54 12.98 34.00
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.24	2.53	0.15	0.84	5.79	0.62 4.93 11.36
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.59	1.33	0.07	0.46	2.46	0.18 2.83 5.48
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.77	4.00	0.23	1.39	7.40	0.46 8.51 16.37
Levee Splitter (1/80	2 blade	2WD 150	8,270	50	10	0.004	0.04	0.05	0.00	0.01	0.12	0.07 0.08 0.27
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.72	2.46	0.26	0.85	5.31	0.46 5.24 11.01
Middle Buster	6R-30	MFWD 150	12,800	160	8	0.120	1.42	1.60	0.36	0.53	3.92	1.09 3.12 8.14
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.35	1.93	0.55	0.67	4.51	1.69 4.11 10.32
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.06	1.52	0.38	0.53	3.51	1.16 3.25 7.92
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.71	1.01	0.41	0.35	2.49	1.25 2.16 5.91
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.08	1.83	0.62	0.66	4.20	1.91 4.05 10.16
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.85	1.44	0.54	0.52	3.36	1.65 3.19 8.21
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.71	1.20	0.41	0.43	2.76	1.25 2.66 6.68
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	12.29	8.79	4.06	3.06	28.22	7.96 18.70 54.89
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	7.74	5.53	2.84	1.93	18.05	5.56 11.78 35.40
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	7.74	5.53	2.84	1.93	18.05	5.56 11.78 35.40
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	6.09	4.36	2.23	1.52	14.21	4.37 9.28 27.87
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	6.09	4.36	2.23	1.52	14.21	4.37 9.28 27.87
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	4.07	2.91	1.49	1.01	9.50	2.92 6.20 18.63
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	6.19	4.43	2.27	1.54	14.44	4.44 9.42 28.32
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.90	3.50	1.79	1.22	11.42	3.51 7.46 22.40
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	5.16	3.69	1.89	1.28	12.03	3.70 7.85 23.60
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	4.07	2.91	1.49	1.01	9.50	2.92 6.20 18.63
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	10.41	7.44	3.81	2.59	24.28	7.47 15.84 47.60
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	6.56	4.69	2.40	1.63	15.29	4.71 9.98 29.99
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	6.56	4.69	2.40	1.63	15.29	4.71 9.98 29.99
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	5.16	3.69	1.89	1.28	12.04	3.70 7.86 23.61
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	5.16	3.69	1.89	1.28	12.04	3.70 7.86 23.61
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.45	2.46	1.26	0.86	8.05	2.47 5.25 15.78
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	5.24	3.75	1.92	1.31	12.23	3.76 7.98 23.99
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	4.15	2.96	1.52	1.03	9.68	2.98 6.31 18.98
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	4.37	3.12	1.60	1.09	10.19	3.14 6.65 19.99
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	3.45	2.46	1.26	0.86	8.05	2.47 5.25 15.78
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.95	3.36	2.18	1.12	12.63	4.27 6.54 23.44
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.84	2.73	1.77	0.91	10.26	3.47 5.31 19.05
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	4.07	2.30	1.49	0.77	8.64	2.92 4.47 16.04
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	7.74	4.37	2.84	1.46	16.42	5.56 8.50 30.48
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	5.16	2.91	1.89	0.97	10.94	3.70 5.66 20.32
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	6.09	3.44	2.23	1.15	12.93	4.37 6.69 24.00
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	4.07	2.30	1.49	0.77	8.64	2.92 4.47 16.04
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	6.19	3.49	2.27	1.17	13.13	4.44 6.80 24.38
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.90	2.76	1.79	0.92	10.39	3.51 5.38 19.29
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	5.16	2.91	1.89	0.97	10.94	3.70 5.66 20.32
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.80	1.36	0.00	0.49	2.66	0.00 3.02 5.68
NT Grain Drill	12'	2WD 130	46,600	150	8	0.163	3.87	1.89	2.86	0.57	9.20	5.27 3.35 17.83
NT Grain Drill	15'	MFWD 150	56,000	150	8	0.130	3.09	1.74	2.74	0.58	8.18	5.06 3.40 16.65
NT Grain Drill	20'	MFWD 170	67,400	150	8	0.098	2.32	1.48	2.48	0.49	6.78	4.57 2.99 14.35
NT Grain Drill	24'	MFWD 190	98,000	150	8	0.081	1.93	1.38	3.00	0.48	6.81	5.54 2.94 15.30
NT Grain Drill	30'	MFWD 225	104,300	150	8	0.065	1.54	1.31	2.56	0.47	5.89	4.71 2.90 13.52
NT Grain Drill & Pre	12'	2WD 130	54,000	150	8	0.176	4.17	2.04	3.56	0.62	10.40	6.57 3.61 20.59
NT Grain Drill & Pre	15'	MFWD 150	63,300	150	8	0.141	3.33	1.88	3.34	0.63	9.19	6.16 3.66 19.02
NT Grain Drill & Pre	20'	MFWD 170	74,700	150	8	0.105	2.50	1.60	2.96	0.52	7.59	5.45 3.22 16.27
NT Grain Drill & Pre	24'	MFWD 190	105,000	150	8	0.088	2.08	1.49	3.47	0.52	7.56	6.39 3.17 17.13
NT Grain Drill & Pre	30'	MFWD 225	112,000	150	8	0.070	1.66	1.41	2.96	0.51	6.55	5.45 3.12 15.14
NT Plant&Pre-Folding	8R-38	MFWD 170	67,700	150	8	0.083	1.97	1.26	2.12	0.41	5.78	3.91 2.54 12.24
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	103,000	150	8	0.055	1.31	0.84	2.15	0.27	4.58	3.96 1.69 10.24
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	2.00	1.43	1.82	0.49	5.75	3.36 3.04 12.17
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.57	1.12	1.32	0.39	4.42	2.43 2.40 9.26
NT Plant&Pre-Folding	12R-20	MFWD 190	82,600	150	8	0.105	2.50	1.78	3.27	0.62	8.19	6.03 3.80 18.03
NT Plant&Pre-Folding	12R-30	MFWD 190	91,000	150	8	0.070	1.66	1.19	2.40	0.41	5.68	4.43 2.53 12.65
NT Plant&Pre-Folding	12R-38	MFWD 190	103,000	150	8	0.055	1.31	0.94	2.15	0.32	4.73	3.96 2.00 10.70
NT Plant&Pre-Folding	16R-30	MFWD 190	137,000	150	8	0.052	1.25	0.89	2.71	0.31	5.17	5.00 1.90 12.08
NT Plant&Pre-Folding	23R-15	MFWD 190	186,000	150	8	0.073	1.73	1.24	5.12	0.43	8.53	9.43 2.64 20.62
NT Plant&Pre-Folding	24R-20	MFWD 190	207,000	150	8	0.052	1.25	0.89	4.10	0.31	6.56	7.56 1.90 16.03
NT Plant&Pre-Folding	24R-30	MFWD 190	217,000	150	8	0.035	0.83	0.59	2.86	0.20	4.50	5.28 1.26 11.06
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	5.00	2.44	2.74	0.74	10.94	5.05 4.34 20.34
NT Plant&Pre-Rigid	4R-38	2WD 130	36,000	150	8	0.166	3.94	1.92	2.24	0.58	8.70	4.14 3.41 16.26
NT Plant&Pre-Rigid	6R-30	MFWD 150	44,300	150	8	0.141	3.33	1.88	2.34	0.63	8.19	4.31 3.66 16.17
NT Plant&Pre-Rigid	6R-38	MFWD 150	43,500	150	8	0.111	2.63	1.48	1.81	0.49	6.43	3.34 2.89 12.67
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	3.40	2.17	1.41	0.71	7.71	2.60 4.38 14.71
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,500	150	8	0.105	2.50	1.60	2.16	0.52	6.79	3.98 3.22 14.00
NT Plant&Pre-Rigid	8R-38	MFWD 170	52,400	150	8	0.077	1.82	1.16	1.51	0.38	4.89	2.79 2.35 10.04
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	2.00	1.43	1.64	0.49	5.58	3.03 3.04 11.66

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	----- P.U. -----	Total Direct	--Fixed-- Imp.	----- P.U. -----	Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,700	150	8	0.105	2.50	1.78	2.60	0.62	7.52	4.80	3.80	16.13
NT Plant&Pre-Rigid	12R-30	MFWD 190	82,800	150	8	0.070	1.66	1.19	2.18	0.41	5.46	4.03	2.53	12.03
NT Plant-Folding	8R-38	MFWD 170	60,400	150	8	0.077	1.83	1.17	1.75	0.38	5.15	3.23	2.36	10.76
NT Plant-Folding	8R-38 2x1	MFWD 170	93,400	150	8	0.051	1.22	0.78	1.81	0.25	4.07	3.33	1.57	8.98
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.85	1.32	1.53	0.46	5.18	2.82	2.82	10.84
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.46	1.04	1.10	0.36	3.98	2.03	2.23	8.25
NT Plant-Folding	12R-20	MFWD 190	75,200	150	8	0.098	2.32	1.66	2.76	0.58	7.33	5.10	3.53	15.97
NT Plant-Folding	12R-30	MFWD 190	81,700	150	8	0.065	1.54	1.10	2.00	0.38	5.04	3.69	2.35	11.10
NT Plant-Folding	12R-38	MFWD 190	93,400	150	8	0.051	1.22	0.87	1.81	0.30	4.21	3.33	1.86	9.41
NT Plant-Folding	16R-30	MFWD 190	128,000	150	8	0.049	1.16	0.83	2.35	0.29	4.63	4.34	1.76	10.75
NT Plant-Folding	23R-15	MFWD 190	176,000	150	8	0.068	1.61	1.15	4.50	0.40	7.67	8.29	2.45	18.42
NT Plant-Folding	24R-20	MFWD 190	197,000	150	8	0.049	1.16	0.83	3.62	0.29	5.91	6.68	1.76	14.36
NT Plant-Folding	24R-30	MFWD 190	204,000	150	8	0.032	0.77	0.55	2.50	0.19	4.02	4.61	1.17	9.81
NT Plant-Rigid	4R-30	2WD 130	27,200	150	8	0.196	4.64	2.27	2.00	0.69	9.61	3.69	4.03	17.34
NT Plant-Rigid	4R-38	2WD 130	28,600	150	8	0.154	3.65	1.79	1.65	0.54	7.65	3.05	3.17	13.88
NT Plant-Rigid	6R-30	MFWD 150	37,000	150	8	0.130	3.09	1.74	1.81	0.58	7.24	3.34	3.40	13.99
NT Plant-Rigid	6R-38	MFWD 150	36,100	150	8	0.103	2.44	1.38	1.39	0.46	5.68	2.57	2.68	10.95
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	3.16	2.02	1.05	0.66	6.91	1.95	4.07	12.93
NT Plant-Rigid	8R-30	MFWD 170	47,100	150	8	0.098	2.32	1.48	1.73	0.49	6.03	3.19	2.99	12.22
NT Plant-Rigid	8R-38	MFWD 170	44,300	150	8	0.077	1.83	1.17	1.28	0.38	4.69	2.37	2.36	9.43
NT Plant-Rigid	10R-30	MFWD 190	45,000	150	8	0.078	1.85	1.32	1.32	0.46	4.97	2.44	2.82	10.24
NT Plant-Rigid	12R-20	MFWD 190	58,400	150	8	0.098	2.32	1.66	2.15	0.58	6.71	3.96	3.53	14.21
NT Plant-Rigid	12R-30	MFWD 190	73,500	150	8	0.065	1.54	1.10	1.80	0.38	4.84	3.32	2.35	10.53
Paratill & Bed	4R-30	MFWD 225	18,700	150	12	0.204	2.41	4.09	1.37	1.48	9.37	2.29	9.06	20.74
Paratill & Bed	4R-38	MFWD 225	18,700	150	12	0.160	1.90	3.22	1.08	1.17	7.38	1.81	7.14	16.33
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.61	2.72	0.85	0.99	6.18	1.41	6.04	13.64
Paratill & Bed	6R-38	MFWD 225	25,500	150	12	0.107	1.27	2.15	0.99	0.78	5.20	1.65	4.77	11.62
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.20	2.04	0.83	0.74	4.83	1.38	4.53	10.75
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.63	1.07	1.34	0.39	3.44	2.23	2.38	8.06
Paratill & Bed Fold.	8R-38	MFWD 225	46,900	150	12	0.080	0.95	1.61	1.36	0.58	4.52	2.27	3.58	10.39
Paratill & Bed Fold.	12R-38	MFWD 225	67,900	150	12	0.053	0.63	1.07	1.31	0.39	3.42	2.19	2.38	8.00
Paratill & Bed Rigid	8R-38	MFWD 225	39,800	150	12	0.080	0.95	1.61	1.16	0.58	4.32	1.93	3.58	9.84
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.61	0.69	0.00	0.17	1.49	0.02	1.04	2.55
Pipe Spool 160ac	1/4m roll	2WD 130	5,400	15	12	0.003	0.09	0.03	0.00	0.01	0.15	0.10	0.06	0.31
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.18	0.04	0.00	0.01	0.23	0.00	0.07	0.32
Plant & Pre Folding	8R-38	MFWD 170	61,000	150	8	0.080	1.89	1.21	1.83	0.40	5.35	3.38	2.44	11.18
Plant & Pre Folding	8R38 2x1	MFWD 170	92,700	150	8	0.053	1.26	0.80	1.85	0.26	4.19	3.42	1.62	9.24
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.92	1.37	1.58	0.47	5.35	2.91	2.92	11.19
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.51	1.08	1.15	0.37	4.13	2.13	2.30	8.57
Plant & Pre Folding	12R-20	MFWD 190	72,600	150	8	0.101	2.40	1.71	2.76	0.59	7.48	5.09	3.65	16.23
Plant & Pre Folding	12R-30	MFWD 190	81,000	150	8	0.067	1.60	1.14	2.05	0.39	5.20	3.78	2.43	11.42
Plant & Pre Folding	12R-38	MFWD 190	92,700	150	8	0.053	1.26	0.90	1.85	0.31	4.34	3.42	1.92	9.68
Plant & Pre Folding	16R-30	MFWD 190	124,000	150	8	0.050	1.20	0.85	2.36	0.29	4.72	4.34	1.82	10.89
Plant & Pre Folding	23R-15	MFWD 190	166,000	150	8	0.070	1.66	1.19	4.38	0.41	7.66	8.08	2.53	18.29
Plant & Pre Folding	24R-20	MFWD 190	187,000	150	8	0.050	1.20	0.85	3.56	0.29	5.92	6.55	1.82	14.30
Plant & Pre Folding	24R-30	MFWD 190	197,000	150	8	0.033	0.80	0.57	2.50	0.19	4.07	4.60	1.21	9.89
Plant & Pre Rigid	4R-30	2WD 130	31,600	150	8	0.203	4.80	2.35	2.40	0.71	10.27	4.43	4.16	18.88
Plant & Pre Rigid	4R-38	2WD 130	32,600	150	8	0.159	3.78	1.85	1.95	0.56	8.15	3.60	3.28	15.03
Plant & Pre Rigid	6R-30	MFWD 150	39,300	150	8	0.135	3.20	1.80	1.99	0.60	7.61	3.67	3.51	14.80
Plant & Pre Rigid	6R-38	MFWD 150	38,900	150	8	0.106	2.52	1.42	1.55	0.47	5.99	2.87	2.77	11.64
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	3.26	2.09	1.22	0.69	7.27	2.24	4.21	13.72
Plant & Pre Rigid	8R-30	MFWD 170	47,800	150	8	0.101	2.40	1.53	1.82	0.50	6.26	3.35	3.09	12.71
Plant & Pre Rigid	8R-38	MFWD 170	45,700	150	8	0.080	1.89	1.21	1.37	0.40	4.89	2.53	2.44	9.87
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.92	1.37	1.40	0.47	5.17	2.58	2.92	10.68
Plant & Pre Rigid	12R-20	MFWD 190	55,700	150	8	0.101	2.40	1.71	2.12	0.59	6.84	3.90	3.65	14.40
Plant & Pre Rigid	12R-30	MFWD 190	72,700	150	8	0.067	1.60	1.14	1.84	0.39	4.99	3.40	2.43	10.82
Plant - Folding	8R-38	MFWD 170	53,700	150	8	0.074	1.76	1.12	1.50	0.37	4.76	2.76	2.27	9.80
Plant - Folding	8R-38 2x1	MFWD 170	83,400	150	8	0.049	1.17	0.75	1.55	0.24	3.72	2.85	1.51	8.09
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.78	1.27	1.34	0.44	4.84	2.47	2.71	10.03
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.40	1.00	0.95	0.35	3.72	1.76	2.14	7.63
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.23	1.59	2.30	0.55	6.68	4.24	3.39	14.32
Plant - Folding	12R-30	MFWD 190	71,700	150	8	0.062	1.48	1.06	1.69	0.37	4.61	3.11	2.26	9.98
Plant - Folding	12R-38	MFWD 190	83,400	150	8	0.049	1.17	0.83	1.55	0.29	3.85	2.85	1.78	8.50
Plant - Folding	16R-30	MFWD 190	114,000	150	8	0.047	1.11	0.79	2.01	0.27	4.20	3.71	1.69	9.61
Plant - Folding	23R-15	MFWD 190	157,000	150	8	0.065	1.54	1.10	3.85	0.38	6.89	7.10	2.35	16.35
Plant - Folding	24R-20	MFWD 190	177,000	150	8	0.047	1.11	0.79	3.12	0.27	5.32	5.76	1.69	12.78
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.74	0.53	2.16	0.18	3.62	3.99	1.13	8.75
Plant - Rigid	4R-30	2WD 130	24,200	150	8	0.188	4.46	2.18	1.71	0.66	9.02	3.15	3.86	16.04
Plant - Rigid	4R-38	2WD 130	25,300	150	8	0.148	3.51	1.71	1.40	0.52	7.16	2.59	3.04	12.80
Plant - Rigid	6R-30	MFWD 150	32,000	150	8	0.125	2.97	1.67	1.50	0.56	6.72	2.77	3.26	12.76
Plant - Rigid	6R-38	MFWD 150	31,100	150	8	0.099	2.34	1.32	1.15	0.44	5.27	2.13	2.57	9.98
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	3.02	1.93	0.88	0.63	6.48	1.63	3.89	12.01
Plant - Rigid	8R-30	MFWD 170	40,900	150	8	0.094	2.23	1.42	1.44	0.47	5.57	2.66	2.87	11.11
Plant - Rigid	8R-38	MFWD 170	38,400	150	8	0.074	1.76	1.12	1.07	0.37	4.33	1.97	2.27	8.58
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.78	1.27	1.15	0.44	4.65	2.12	2.71	9.49
Plant - Rigid	12R-20	MFWD 190	48,300	150	8	0.094	2.23	1.59	1.70	0.55	6.09	3.14	3.39	12.63
Plant - Rigid	12R-30	MFWD 190	63,400	150	8	0.062	1.48	1.06	1.49	0.37	4.41	2.75	2.26	9.43
Plant - Rigid	15R-15	2WD 150	60,200	150	8	0.094	2.23	1.25	2.12	0.32	5.94	3.92	1.90	11.76
Pull Levee (1m/80a))	4 blade	2WD 50	3,180	100	10	0.003	0.04	0.01	0.00	0.00	0.06	0.01	0.02	0.09
Roller	32'	MFWD 170	22,800	100	12	0.046	0.55	0.70	0.17	0.23	1.66	0.96	1.42	4.05
Rotary Cutter	7'	MFWD 130	4,500	185	10	0.168	1.99	1.94	0.61	0.66	5.21	0.41	3.85	9.48
Rotary Cutter	12'	2WD 150	13,100	185	10	0.098	1.16	1.31	1.04	0.34	3.85	0.70	1.97	6.54
Rotary Cutter	15'	MFWD 150	22,100	185	10	0.078	0.92	1.04	1.40	0.35	3.73	0.95	2.04	6.73

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
									-----\$/acre-----					
Row Cond & Inc	13'	2WD 130	16,000	100	10	0.137	2.44	1.59	0.55	0.48	5.08	2.25	2.83	10.16
Row Cond & Inc	21'	2WD 170	21,600	100	10	0.085	1.51	1.29	0.46	0.42	3.69	1.88	2.60	8.18
Row Cond & Inc	26'	MFWD 190	28,500	100	10	0.063	1.12	1.07	0.45	0.37	3.02	1.84	2.28	7.14
Row Cond & Inc	38'	MFWD 225	38,000	100	10	0.047	0.83	0.94	0.44	0.34	2.57	1.82	2.09	6.49
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.71	0.80	0.20	0.29	2.01	0.83	1.78	4.63
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.35	1.32	0.20	0.40	3.30	0.85	2.35	6.51
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.84	1.07	0.21	0.35	2.48	0.87	2.16	5.52
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.67	0.97	0.17	0.33	2.16	0.72	2.06	4.96
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.46	0.78	0.21	0.28	1.75	0.88	1.74	4.39
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.42	0.71	0.13	0.25	1.53	0.56	1.57	3.67
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.85	1.81	0.27	0.55	4.51	1.14	3.22	8.88
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.15	1.47	0.28	0.48	3.39	1.16	2.96	7.52
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.92	1.32	0.24	0.46	2.96	0.99	2.82	6.79
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.63	1.07	0.22	0.39	2.32	0.90	2.38	5.62
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.57	0.97	0.18	0.35	2.09	0.77	2.15	5.02
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.22	1.56	1.02	0.51	4.32	1.00	3.14	8.46
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.81	1.16	0.98	0.30	3.27	0.96	1.87	6.10
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.52	1.95	1.28	0.64	5.40	1.25	3.92	10.58
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	1.01	1.45	1.23	0.38	4.09	1.20	2.34	7.63
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.95	1.46	1.09	0.38	4.89	1.06	2.21	8.18
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.30	1.46	1.05	0.53	4.35	1.02	3.25	8.64
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.43	2.08	1.73	0.68	6.93	1.68	4.19	12.81
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.62	1.55	1.55	0.40	5.14	1.52	2.49	9.16
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.42	1.60	1.43	0.53	5.01	0.41	3.12	8.55
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.42	1.60	0.68	0.53	4.24	0.80	3.11	8.17
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.42	1.60	0.58	0.53	4.14	0.67	3.11	7.94
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.42	1.60	0.69	0.53	4.25	0.81	3.11	8.18
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.42	1.60	0.46	0.53	4.02	0.55	3.11	7.69
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.42	2.03	1.11	0.70	5.27	1.30	4.32	10.90
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	10.37	11.71	2.55	3.91	28.57	2.05	22.78	53.40
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.42	1.60	0.25	0.53	3.81	0.27	3.11	7.20
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.77	1.40	0.24	0.33	3.75	0.41	1.93	6.10
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	11.83	13.35	8.43	4.46	38.09	16.57	25.97	80.64
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.92	8.94	3.68	2.99	23.55	7.24	17.40	48.19
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.36	0.89	5.10	0.19	8.54	10.02	1.12	19.69
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.92	8.94	3.68	2.99	23.55	7.24	17.40	48.19
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	6.50	7.34	0.62	2.45	16.93	0.82	12.98	30.74
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.80	8.81	5.33	2.94	24.90	3.95	15.58	44.44
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.60	3.71	0.96	1.29	8.58	1.18	7.91	17.67
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.42	2.03	0.49	0.70	4.65	1.28	4.32	10.26
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.30	1.02	0.29	0.24	2.87	0.44	1.42	4.73
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.30	1.66	0.39	0.55	3.91	0.53	3.35	7.80
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.65	1.87	0.32	0.48	4.34	0.44	2.82	7.60
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.77	0.66	0.56	0.14	3.14	0.75	0.84	4.74
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.18	1.69	0.77	0.59	4.23	1.03	3.60	8.87
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.82	1.05	0.64	0.34	2.88	0.86	2.13	5.88
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.18	1.51	0.40	0.50	3.60	0.54	3.04	7.19
SC Double Hitch	DBLHTCH	2WD 50	0	1000	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SC Drain Cleaner	6 ft	MFWD 75	3,750	300	9	0.080	0.94	0.53	0.13	0.10	1.71	0.12	0.60	2.45
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.53	1.73	0.36	0.58	4.22	0.53	3.37	8.13
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.70	0.80	0.22	0.26	2.00	0.30	1.55	3.87
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.24	2.53	0.47	0.84	6.11	0.45	4.93	11.50
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	11.83	20.03	0.13	4.59	36.59	0.17	28.01	64.78
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.55	4.01	0.66	1.34	9.56	1.32	7.79	18.69
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.95	3.33	3.12	1.11	10.53	3.69	6.49	20.72
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.94	0.92	0.41	0.28	2.56	0.48	1.64	4.69
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.95	1.66	0.51	0.32	5.46	1.37	1.89	8.74
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.60	3.71	3.51	1.29	11.13	3.46	7.91	22.51
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	11.83	9.34	0.86	2.22	24.26	3.09	12.93	40.28
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.30	1.02	0.04	0.24	2.61	0.06	1.42	4.10
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	11.83	11.57	0.23	3.53	27.17	0.88	20.52	48.57
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	11.83	13.35	7.26	4.46	36.92	11.45	25.97	74.34
Spin Spreader	5 ton	MFWD 190	11,600	100	8	0.042	0.99	0.71	0.27	0.24	2.23	0.53	1.51	4.27
Spin Spreader	5 ton	MFWD 190	11,600	100	8	0.042	0.99	0.71	0.27	0.24	2.23	0.53	1.51	4.27
Spray (Band)	27'	MFWD 170	7,400	200	8	0.062	1.11	0.94	0.21	0.31	2.59	0.25	1.91	4.75
Spray (Band)	40'	MFWD 170	9,300	200	8	0.042	0.75	0.64	0.18	0.21	1.78	0.21	1.28	3.29
Spray (Band)	50'	MFWD 170	10,100	200	8	0.033	0.60	0.51	0.16	0.16	1.44	0.18	1.03	2.66
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.56	0.48	0.14	0.15	1.35	0.17	0.97	2.50
Spray (Band)	60'	MFWD 170	13,200	200	8	0.028	0.50	0.42	0.17	0.14	1.24	0.20	0.85	2.30
Spray (Bcast/HB)	13' Rigid	MFWD 150	7,860	200	8	0.130	2.31	1.73	0.47	0.58	5.11	0.55	3.38	9.04
Spray (Bcast/HB)	20' Rigid	2WD 50	9,400	200	8	0.084	1.50	0.37	0.37	0.08	2.33	0.43	0.47	3.24
Spray (Bcast/HB)	27' Fold	MFWD 170	16,200	200	8	0.062	1.11	0.94	0.47	0.31	2.85	0.55	1.91	5.31

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Spray (Bcast/HB)	27' Rigid	MFWD 170	10,900	200	8	0.062	1.11	0.94	0.32	0.31	2.69	0.37	1.91	4.97
Spray (Bcast/HB)	30' Fold	MFWD 170	18,900	200	8	0.056	1.00	0.85	0.49	0.28	2.63	0.58	1.71	4.93
Spray (Bcast/HB)	40' Fold	MFWD 170	19,100	200	8	0.042	0.75	0.64	0.37	0.21	1.98	0.44	1.28	3.71
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.11	0.94	0.65	0.31	3.03	0.76	1.91	5.70
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.75	0.64	0.63	0.21	2.24	0.74	1.28	4.27
Spray (Broadcast)	27'	MFWD 170	7,400	200	8	0.062	1.11	0.94	0.21	0.31	2.59	0.25	1.91	4.75
Spray (Broadcast)	40'	MFWD 170	9,300	200	8	0.042	0.75	0.64	0.18	0.21	1.78	0.21	1.28	3.29
Spray (Broadcast)	50'	MFWD 170	10,100	200	8	0.033	0.60	0.51	0.16	0.16	1.44	0.18	1.03	2.66
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.56	0.48	0.14	0.15	1.35	0.17	0.97	2.50
Spray (Broadcast)	60'	MFWD 170	13,200	200	8	0.028	0.50	0.42	0.17	0.14	1.24	0.20	0.85	2.30
Spray (Direct/Hood)	8R-30	MFWD 170	17,000	200	8	0.084	1.50	1.28	0.67	0.42	3.87	0.78	2.57	7.24
Spray (Direct/Hood)	8R-38	MFWD 170	17,900	200	8	0.066	1.18	1.01	0.56	0.33	3.09	0.65	2.03	5.78
Spray (Direct/Hood)	12R-30	MFWD 170	23,900	200	8	0.056	1.00	0.85	0.63	0.28	2.76	0.73	1.71	5.22
Spray (Direct/Hood)	12R-38	MFWD 170	25,100	200	8	0.044	0.79	0.67	0.52	0.22	2.21	0.60	1.35	4.17
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.50	1.28	0.61	0.42	3.82	0.71	2.57	7.11
Spray (Direct/Layby)	8R-38	MFWD 170	15,500	200	8	0.066	1.18	1.01	0.48	0.33	3.01	0.56	2.03	5.62
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	19,400	200	8	0.044	0.79	0.67	0.40	0.22	2.09	0.47	1.35	3.91
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.20	1.02	0.38	0.33	2.95	0.44	2.06	5.46
Spray (Direct/Layby)	12R-30	MFWD 170	19,400	200	8	0.056	1.00	0.85	0.51	0.28	2.64	0.59	1.71	4.96
Spray (Direct/Layby)	12R-38	MFWD 170	19,400	200	8	0.044	0.79	0.67	0.40	0.22	2.09	0.47	1.35	3.91
Spray (Direct/Layby)	16R-20	MFWD 170	22,300	200	8	0.063	1.12	0.95	0.66	0.31	3.06	0.77	1.93	5.76
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.11	0.94	0.21	0.31	2.59	0.25	1.91	4.75
Spray (Spot)	40'	MFWD 170	9,300	200	8	0.042	0.75	0.64	0.18	0.21	1.78	0.21	1.28	3.29
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.60	0.51	0.21	0.16	1.49	0.25	1.03	2.78
Spray (Spot)	53'	MFWD 170	10,100	200	8	0.031	0.56	0.48	0.15	0.15	1.36	0.17	0.97	2.50
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.50	0.42	0.20	0.14	1.27	0.23	0.85	2.37
Stalk Shredder	14'	MFWD 150	14,900	200	10	0.117	1.39	1.57	1.53	0.52	5.03	0.89	3.06	8.98
Stalk Shredder	20'	MFWD 150	33,100	200	10	0.082	0.97	1.10	2.38	0.36	4.83	1.39	2.14	8.37
Stalk Shredder-Flail	12'	MFWD 150	21,700	200	10	0.137	1.62	1.83	2.61	0.61	6.68	1.52	3.57	11.78
Stalk Shredder-Flail	20'	MFWD 150	30,400	200	10	0.082	0.97	1.10	2.19	0.36	4.64	1.27	2.14	8.06
Subsoiler	3 shank	MFWD 190	6,360	100	15	0.204	2.41	3.45	0.43	1.20	7.51	1.02	7.35	15.89
Subsoiler	4 shank	MFWD 225	11,210	100	15	0.153	1.81	3.07	0.57	1.11	6.58	1.35	6.81	14.76
Subsoiler	5 shank	MFWD 225	14,300	100	15	0.122	1.44	2.45	0.58	0.89	5.37	1.37	5.43	12.18
Subsoiler low-till	4 shank	MFWD 225	9,830	100	15	0.153	1.81	3.07	0.50	1.11	6.51	1.18	6.81	14.52
Subsoiler low-till	6 shank	MFWD 225	19,400	100	15	0.102	1.20	2.04	0.66	0.74	4.66	1.55	4.53	10.75
Subsoiler low-till	8 shank	MFWD 225	21,400	100	15	0.076	0.90	1.53	0.54	0.55	3.54	1.28	3.39	8.22
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.90	3.22	0.83	1.17	7.12	1.38	7.14	15.65
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.27	2.15	0.75	0.78	4.96	1.25	4.77	10.99
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.41	4.09	1.05	1.48	9.05	1.75	9.06	19.88
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.61	2.72	0.75	0.99	6.08	1.25	6.04	13.38