

Projected Costs and Returns Crop Enterprise Budgets for Cotton Production in Louisiana, 2016

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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 2016 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 2016 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 2016 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 \$9.60 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 4.50% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel and gasoline were \$2.00 per gallon and \$2.25 per gallon, respectively. 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 5.00%. 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, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Dropp SC	oz	0.44	1.2000	0.53	_____
Prep	pt	4.00	1.3300	5.32	_____
Def/Folex	pt	7.55	0.7500	5.66	_____
FERTILIZERS					
LA Phosphate	lb	0.54	60.0000	32.40	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	90.0000	38.70	_____
HERBICIDES					
Roundup WeatherMax	oz	0.08	88.0000	7.04	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.5000	6.35	_____
Cotoran 4L	pt	5.99	1.2000	7.19	_____
Dual II Magnum	pt	13.50	1.0000	13.50	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.92	1.2800	1.18	_____
Dimethoate 4E	pt	6.51	0.4000	2.60	_____
Centric 40WG	oz	4.95	4.0000	19.80	_____
Karate Z	oz	3.40	6.3900	21.73	_____
Orthene 90S	lb	5.75	1.1500	6.61	_____
Diamond .83EC	pt	19.50	0.7500	14.63	_____
Bidrin 8L	oz	0.98	12.0000	11.76	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	0.61	52.5000	32.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	69.25	1.0000	69.25	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.19	16.0000	3.04	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
Cotton Checkoff	bale	2.56	1.9800	5.07	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
OPERATOR LABOR					
Self-Propelled	hour	13.40	0.2428	3.27	_____
HAND LABOR					
Self-Propelled	hour	9.06	0.2075	1.88	_____
LA Hired Labor					
Implements	hour	10.18	0.3636	3.71	_____
Tractors	hour	10.18	1.0916	11.08	_____
DIESEL FUEL					
Tractors	gal	2.00	10.1428	20.29	_____
Self-Propelled	gal	2.00	3.8741	7.74	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.48	1.0000	9.48	_____
Tractors	Acre	5.89	1.0000	5.89	_____
Self-Propelled	Acre	13.16	1.0000	13.16	_____
INTEREST ON OP. CAP.	Acre	9.05	1.0000	9.05	_____
TOTAL DIRECT EXPENSES				485.05	_____
FIXED EXPENSES					
Implements	Acre	15.72	1.0000	15.72	_____
Tractors	Acre	36.79	1.0000	36.79	_____
Self-Propelled	Acre	53.72	1.0000	53.72	_____
TOTAL FIXED EXPENSES				106.23	_____
TOTAL SPECIFIED EXPENSES				591.28	_____

Table 1.B Estimated resource use and costs for field operations, per Acre
 Cotton, B2/RRFlex,8-row equipment, non-irrigated, alluvial soil, Louisiana, 2016.

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	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Paratill & Bed Fold.	8R-38	MFWD 225	0.080	0.50	Nov	1.23	1.81	0.79	1.38	0.04	0.41				5.62
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Nov	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Phosphate	lb											60.0000	0.54	32.40	32.40
LA Potash	lb											60.0000	0.35	21.00	21.00
Lime (Spread)	ton			0.33	Nov							0.3300	46.00	15.18	15.18
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Nov	1.87	2.63	0.35	0.92	0.07	0.75				6.52
Row Cond (Harrow)	27'	MFWD 190	0.057	1.00	Nov	1.44	2.03	0.18	0.75	0.05	0.58				4.98
Roller	32'	MFWD 170	0.046	1.00	Nov	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Ditcher		2WD 130	0.020	1.00	Nov	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Sprayer(600-750Gal)	60'		0.017	1.00	Mar	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	4.23	6.35	6.35
Plant & Pre Folding	8R-38	MFWD 170	0.080	1.00	Apr	1.82	2.62	1.44	2.76	0.16	1.64				10.28
Cotoran 4L	pt											1.2000	5.99	7.19	7.19
Cotton Seed BGII/RRF	thous											52.5000	0.61	32.03	32.03
Ammo 2.5 EC	oz											1.2800	0.92	1.18	1.18
BGII/RRF Cot Tech Fe cap/ac												1.0000	69.25	69.25	69.25
Ditcher		2WD 130	0.020	1.00	Apr	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Nitrogen	lb											90.0000	0.43	38.70	38.70
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Dimethoate 4E	pt											0.4000	6.51	2.60	2.60
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Dual II Magnum	pt											1.0000	13.50	13.50	13.50
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Centric 40WG	oz											2.0000	4.95	9.90	9.90
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Centric 40WG	oz											2.0000	4.95	9.90	9.90
Pix Plus	oz											4.0000	0.19	0.76	0.76
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.52	2.19	0.28	0.34	0.10	1.02				5.35
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	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Pix Plus	oz											12.0000	0.19	2.28	2.28
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.5500	5.75	3.16	3.16
Karate Z	oz											2.1300	3.40	7.24	7.24
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Dropp SC	oz											1.2000	0.44	0.53	0.53
Prep	pt											1.3300	4.00	5.32	5.32
Def/Folex	pt											0.7500	7.55	5.66	5.66
Cotton Picker-1st-BB	6R38*330hp		0.172	1.00	Sep	18.82	49.40			0.34	3.87				72.09
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.49	3.04	0.34	3.50				18.47
Boll Buggy-1st pick	6R38*325hp	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.31	2.67	0.17	1.75				16.17
Stalk Shredder-Flail	12'	MFWD 150	0.137	1.00	Nov	2.76	3.85	1.82	1.10	0.13	1.40				10.93
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Cotton Checkoff	bale			1.00	Nov							1.9800	2.56	5.07	5.07
TOTALS						47.08	90.51	9.48	15.72	1.90	19.94			399.50	582.23
INTEREST ON OPERATING CAPITAL															9.05
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															591.28

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, 2016.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.22	0.23	0.25	0.27	0.30	0.33	0.37	0.41	0.47	0.55	0.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	500.00	lb	-223	-215	-206	-195	-182	-167	-149	-125	-95	-55	0
			-329	-321	-312	-301	-289	-273	-255	-232	-202	-162	-106
60	600.00	lb	-201	-191	-180	-167	-152	-134	-111	-83	-47	0	67
			-307	-297	-286	-273	-258	-240	-218	-190	-154	-106	-39
70	700.00	lb	-178	-167	-154	-139	-121	-100	-74	-41	0	55	134
			-285	-273	-261	-246	-228	-206	-180	-148	-106	-50	27
80	800.00	lb	-156	-143	-129	-111	-91	-67	-37	0	47	111	201
			-262	-249	-235	-218	-197	-173	-143	-106	-58	5	95
90	900.00	lb	-134	-119	-103	-83	-60	-33	0	41	95	167	268
			-240	-226	-209	-190	-167	-139	-106	-64	-10	61	162
100	1000.00	lb	-111	-95	-77	-55	-30	0	37	83	143	223	335
			-218	-202	-183	-162	-136	-106	-68	-22	37	117	229
110	1100.00	lb	-89	-71	-51	-27	0	33	74	125	191	279	402
			-195	-178	-157	-134	-106	-72	-31	19	85	173	296
120	1200.00	lb	-67	-47	-25	0	30	67	111	167	239	335	469
			-173	-154	-132	-106	-75	-39	5	61	133	229	363
130	1300.00	lb	-44	-23	0	27	60	100	149	209	287	391	536
			-150	-130	-106	-78	-45	-5	42	103	181	285	430
140	1400.00	lb	-22	0	25	55	91	134	186	251	335	447	603
			-128	-106	-80	-50	-14	27	80	145	229	341	497
150	1500.00	lb	0	23	51	83	121	167	223	293	383	503	670
			-106	-82	-54	-22	15	61	117	187	277	396	564

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, 2016.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.29	0.31	0.33	0.36	0.40	0.44	0.49	0.55	0.63	0.73	0.88
PERCENT	YIELD	UNIT	-----dollars-----										
50	500.00	lb	-188	-177	-165	-151	-134	-114	-90	-59	-19	32	106
			-294	-283	-271	-257	-240	-220	-196	-165	-126	-73	0
60	600.00	lb	-158	-146	-131	-114	-94	-70	-40	-4	43	106	194
			-265	-252	-237	-220	-200	-176	-147	-110	-63	0	88
70	700.00	lb	-129	-114	-97	-77	-54	-26	8	51	106	179	282
			-235	-220	-203	-184	-160	-132	-98	-55	0	73	176
80	800.00	lb	-99	-83	-63	-40	-14	17	57	106	169	253	371
			-206	-189	-169	-147	-120	-88	-49	0	63	147	265
90	900.00	lb	-70	-51	-29	-4	25	62	106	161	232	327	459
			-176	-157	-135	-110	-80	-44	0	55	126	220	353
100	1000.00	lb	-40	-19	4	32	66	106	155	216	295	400	547
			-147	-126	-101	-73	-40	0	49	110	189	294	441
110	1100.00	lb	-11	11	38	69	106	150	204	271	358	474	636
			-117	-94	-67	-36	0	44	98	165	252	368	530
120	1200.00	lb	17	43	72	106	146	194	253	327	421	547	724
			-88	-63	-33	0	40	88	147	220	315	441	618
130	1300.00	lb	47	74	106	143	186	238	302	382	484	621	812
			-58	-31	0	36	80	132	196	276	378	515	706
140	1400.00	lb	76	106	140	179	226	282	351	437	547	695	901
			-29	0	33	73	120	176	245	331	441	588	795
150	1500.00	lb	106	137	174	216	266	327	400	492	611	768	989
			0	31	67	110	160	220	294	386	504	662	883

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, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Dropp SC	oz	0.44	1.2000	0.53	_____
Prep	pt	4.00	1.3300	5.32	_____
Def/Folex	pt	7.55	0.7500	5.66	_____
FERTILIZERS					
LA Phosphate	lb	0.54	60.0000	32.40	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	90.0000	38.70	_____
HERBICIDES					
Roundup WeatherMax	oz	0.08	88.0000	7.04	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.5000	6.35	_____
Cotoran 4L	pt	5.99	1.2000	7.19	_____
Dual II Magnum	pt	13.50	1.0000	13.50	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.92	1.2800	1.18	_____
Dimethoate 4E	pt	6.51	0.4000	2.60	_____
Orthene 90S	lb	5.75	1.8000	10.35	_____
Centric 40WG	oz	4.95	4.0000	19.80	_____
Karate Z	oz	3.40	6.3900	21.73	_____
Bidrin 8L	oz	0.98	12.0000	11.76	_____
Diamond .83EC	pt	19.50	0.7500	14.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	0.61	52.5000	32.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	69.25	1.0000	69.25	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.19	24.0000	4.56	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
Cotton Checkoff	bale	2.56	2.2900	5.86	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
OPERATOR LABOR					
Self-Propelled	hour	13.40	0.2428	3.27	_____
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	10.18	0.3636	3.71	_____
Tractors	hour	10.18	1.3665	13.89	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	12.8637	25.74	_____
Self-Propelled	gal	2.00	3.8293	7.65	_____
Roll-Out Pipe Irr.	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.97	1.0000	9.97	_____
Tractors	Acre	7.46	1.0000	7.46	_____
Self-Propelled	Acre	13.16	1.0000	13.16	_____
Roll-Out Pipe Irr.	Acre	6.34	1.0000	6.34	_____
INTEREST ON OP. CAP.	Acre	9.80	1.0000	9.80	_____
TOTAL DIRECT EXPENSES				535.67	_____
FIXED EXPENSES					
Implements	Acre	17.10	1.0000	17.10	_____
Tractors	Acre	46.68	1.0000	46.68	_____
Self-Propelled	Acre	53.72	1.0000	53.72	_____
Roll-Out Pipe Irr.	Acre	48.24	1.0000	48.24	_____
TOTAL FIXED EXPENSES				165.74	_____
TOTAL SPECIFIED EXPENSES				701.41	_____

Table 2.B Estimated resource use and costs for field operations, per Acre
 Cotton, B2/RRFlex Cotton, 8-row equipment, irrigated, alluvial soil, Louisiana, 2016.

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		-----dollars-----			
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Paratill & Bed Fold.	8R-38	MFWD 225	0.080	0.50	Nov	1.23	1.81	0.79	1.38	0.04	0.41				5.62
Lime (Spread)	ton			0.33	Nov							0.3300	46.00	15.18	15.18
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Nov	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Phosphate	lb											60.0000	0.54	32.40	32.40
LA Potash	lb											60.0000	0.35	21.00	21.00
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.87	2.63	0.37	0.98	0.07	0.75				6.60
Row Cond (Harrow)	38'	MFWD 225	0.039	1.00	Nov	1.19	1.76	0.22	0.92	0.03	0.40				4.49
Roller	32'	MFWD 170	0.046	1.00	Nov	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Ditcher		2WD 130	0.020	1.00	Nov	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Sprayer(600-750Gal)	60'		0.017	1.00	Mar	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	4.23	6.35	6.35
Plant & Pre Folding	8R-38	MFWD 170	0.080	1.00	Apr	1.82	2.62	1.44	2.76	0.16	1.64				10.28
Cotoran 4L	pt											1.2000	5.99	7.19	7.19
Cotton Seed BGII/RRF	thous											52.5000	0.61	32.03	32.03
Ammo 2.5 EC	oz											1.2800	0.92	1.18	1.18
BGII/RRF Cot Tech Fe cap/ac												1.0000	69.25	69.25	69.25
Ditcher		2WD 130	0.020	1.00	Apr	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Nitrogen	lb											90.0000	0.43	38.70	38.70
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Dimethoate 4E	pt											0.4000	6.51	2.60	2.60
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Dual II Magnum	pt											1.0000	13.50	13.50	13.50
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Centric 40WG	oz											2.0000	4.95	9.90	9.90
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Centric 40WG	oz											2.0000	4.95	9.90	9.90
Pix Plus	oz											12.0000	0.19	2.28	2.28
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.52	2.19	0.28	0.34	0.10	1.02				5.35
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	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Pix Plus	oz											12.0000	0.19	2.28	2.28
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Karate Z	oz											2.1300	3.40	7.24	7.24
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.6000	5.75	3.45	3.45
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Dropp SC	oz											1.2000	0.44	0.53	0.53
Prep	pt											1.3300	4.00	5.32	5.32
Def/Folex	pt											0.7500	7.55	5.66	5.66
Cotton Picker-1st-Tr	6R38*330hp		0.172	1.00	Sep	18.73	49.40			0.34	3.87				72.00
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.49	3.04	0.34	3.50				18.47
Boll Buggy-1st pick	6R38*325hp	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.31	2.67	0.17	1.75				16.17
Stalk Shredder-Flail	12'	MFWD 150	0.137	1.00	Nov	2.76	3.85	1.82	1.10	0.13	1.40				10.93
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Cotton Checkoff	bale			1.00	Nov							2.2900	2.56	5.86	5.86
Roll-Out Pipe Irr.	Acre				Jul	7.27	10.16	23.87	49.39	0.44	4.56	1.0000		8.58	103.83
TOTALS						54.01	100.40	33.41	65.34	2.33	24.32			414.13	691.61
INTEREST ON OPERATING CAPITAL															9.80
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															701.41

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, 2016.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.15	0.16	0.17	0.19	0.21	0.23	0.25	0.29	0.33	0.38	0.46
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	lb	-217	-209	-200	-190	-177	-163	-144	-122	-93	-54	0
			-383	-375	-366	-356	-343	-328	-310	-288	-258	-220	-165
60	840.00	lb	-195	-186	-175	-163	-148	-130	-108	-81	-46	0	65
			-361	-352	-341	-328	-314	-296	-274	-247	-212	-165	-100
70	980.00	lb	-173	-163	-150	-135	-118	-97	-72	-40	0	54	130
			-339	-328	-316	-301	-284	-263	-238	-206	-165	-111	-35
80	1120.00	lb	-152	-139	-125	-108	-88	-65	-36	0	46	108	195
			-317	-305	-291	-274	-254	-230	-201	-165	-119	-56	29
90	1260.00	lb	-130	-116	-100	-81	-59	-32	0	40	93	163	260
			-296	-282	-266	-247	-225	-198	-165	-124	-72	-2	95
100	1400.00	lb	-108	-93	-75	-54	-29	0	36	81	139	217	326
			-274	-258	-241	-220	-195	-165	-129	-84	-25	51	160
110	1540.00	lb	-86	-69	-50	-27	0	32	72	122	186	271	391
			-252	-235	-215	-192	-165	-133	-93	-43	20	106	225
120	1680.00	lb	-65	-46	-25	0	29	65	108	163	233	326	456
			-230	-212	-190	-165	-136	-100	-56	-2	67	160	290
130	1820.00	lb	-43	-23	0	27	59	97	144	203	279	380	521
			-209	-189	-165	-138	-106	-67	-20	38	113	214	356
140	1960.00	lb	-21	0	25	54	88	130	181	244	326	434	587
			-187	-165	-140	-111	-76	-35	15	78	160	269	421
150	2100.00	lb	0	23	50	81	118	163	217	285	372	489	652
			-165	-142	-115	-84	-47	-2	51	119	207	323	486

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, 2016.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.23	0.25	0.27	0.29	0.31	0.35	0.39	0.43	0.50	0.58	0.70
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	lb	-162	-150	-137	-121	-102	-80	-52	-18	25	83	165
			-327	-316	-302	-286	-268	-245	-218	-184	-140	-81	0
60	840.00	lb	-129	-115	-99	-80	-57	-31	1	42	95	165	264
			-295	-281	-264	-245	-223	-196	-163	-122	-70	0	98
70	980.00	lb	-96	-80	-61	-39	-13	18	56	104	165	247	362
			-262	-245	-227	-204	-178	-147	-109	-61	0	81	196
80	1120.00	lb	-63	-45	-23	1	31	67	111	165	236	329	460
			-229	-210	-189	-163	-134	-98	-54	0	70	163	295
90	1260.00	lb	-31	-9	14	42	76	116	165	227	306	411	559
			-196	-175	-151	-122	-89	-49	0	61	140	245	393
100	1400.00	lb	1	25	52	83	121	165	220	288	376	493	657
			-163	-140	-113	-81	-44	0	54	122	210	327	491
110	1540.00	lb	34	60	90	124	165	214	275	350	446	575	756
			-131	-105	-75	-40	0	49	109	184	281	409	590
120	1680.00	lb	67	95	127	165	210	264	329	411	517	657	854
			-98	-70	-37	0	44	98	163	245	351	491	688
130	1820.00	lb	100	130	165	206	255	313	384	473	587	739	952
			-65	-35	0	40	89	147	218	307	421	573	787
140	1960.00	lb	132	165	203	247	299	362	439	534	657	821	1051
			-32	0	37	81	134	196	273	368	491	655	885
150	2100.00	lb	165	200	241	288	344	411	493	596	727	903	1149
			0	35	75	122	178	245	327	430	562	737	983

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, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Dropp SC	oz	0.44	1.2000	0.53	_____
Prep	pt	4.00	1.3300	5.32	_____
Def/Folex	pt	7.55	0.7500	5.66	_____
FERTILIZERS					
LA Phosphate	lb	0.54	50.0000	27.00	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	90.0000	38.70	_____
HERBICIDES					
Roundup WeatherMax	oz	0.08	88.0000	7.04	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.5000	6.35	_____
Cotoran 4L	pt	5.99	1.2000	7.19	_____
Dual II Magnum	pt	13.50	1.0000	13.50	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.92	1.2800	1.18	_____
Dimethoate 4E	pt	6.51	0.4000	2.60	_____
Orthene 90S	lb	5.75	1.8000	10.35	_____
Centric 40WG	oz	4.95	4.0000	19.80	_____
Karate Z	oz	3.40	6.3900	21.73	_____
Bidrin 8L	oz	0.98	12.0000	11.76	_____
Diamond .83EC	pt	19.50	0.3750	7.31	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	0.61	52.5000	32.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	69.25	1.0000	69.25	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.19	24.0000	4.56	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
Cotton Checkoff	bale	2.56	2.0800	5.32	_____
OPERATOR LABOR					
Self-Propelled	hour	13.40	0.2428	3.27	_____
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	10.18	0.3636	3.71	_____
Tractors	hour	10.18	1.3594	13.81	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	12.8904	25.78	_____
Self-Propelled	gal	2.00	3.8741	7.74	_____
Roll-Out Pipe Irr.	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	10.26	1.0000	10.26	_____
Tractors	Acre	7.45	1.0000	7.45	_____
Self-Propelled	Acre	13.16	1.0000	13.16	_____
Roll-Out Pipe Irr.	Acre	6.34	1.0000	6.34	_____
INTEREST ON OP. CAP.	Acre	9.65	1.0000	9.65	_____
TOTAL DIRECT EXPENSES				507.42	_____
FIXED EXPENSES					
Implements	Acre	17.69	1.0000	17.69	_____
Tractors	Acre	46.75	1.0000	46.75	_____
Self-Propelled	Acre	53.72	1.0000	53.72	_____
Roll-Out Pipe Irr.	Acre	48.24	1.0000	48.24	_____
TOTAL FIXED EXPENSES				166.40	_____
TOTAL SPECIFIED EXPENSES				673.82	_____

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, 2016.

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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.12	3.15	0.97	2.05	0.07	0.71				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Nov	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Phosphate	lb											50.0000	0.54	27.00	27.00
LA Potash	lb											60.0000	0.35	21.00	21.00
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Nov	1.87	2.63	0.37	0.98	0.07	0.75				6.60
Row Cond (Harrow)	27'	MFWD 190	0.057	1.00	Nov	1.44	2.03	0.18	0.75	0.05	0.58				4.98
Roller	32'	MFWD 170	0.046	1.00	Nov	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Ditcher		2WD 130	0.020	1.00	Nov	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Sprayer (600-750Gal)	60'		0.017	1.00	Mar	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	4.23	6.35	6.35
Plant & Pre Folding	8R-38	MFWD 170	0.080	1.00	Apr	1.82	2.62	1.44	2.76	0.16	1.64				10.28
Cotoran 4L	pt											1.2000	5.99	7.19	7.19
Cotton Seed BGII/RRF	thous											52.5000	0.61	32.03	32.03
Ammo 2.5 EC	oz											1.2800	0.92	1.18	1.18
BGII/RRF Cot Tech Fe cap/ac												1.0000	69.25	69.25	69.25
Ditcher		2WD 130	0.020	1.00	Apr	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Nitrogen	lb											90.0000	0.43	38.70	38.70
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Dimethoate 4E	pt											0.4000	6.51	2.60	2.60
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Dual II Magnum	pt											1.0000	13.50	13.50	13.50
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Centric 40WG	oz											2.0000	4.95	9.90	9.90
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Centric 40WG	oz											2.0000	4.95	9.90	9.90
Pix Plus	oz											12.0000	0.19	2.28	2.28
Spray (Direct/Layby)	8R-38	MFWD 170	0.066	1.00	Jun	1.52	2.19	0.28	0.34	0.10	1.02				5.35
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	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Pix Plus	oz											12.0000	0.19	2.28	2.28
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Karate Z	oz											2.1300	3.40	7.24	7.24
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.6000	5.75	3.45	3.45
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Dropp SC	oz											1.2000	0.44	0.53	0.53
Prep	pt											1.3300	4.00	5.32	5.32
Def/Foalex	pt											0.7500	7.55	5.66	5.66
Cotton Picker-1st-BB	6R38"330hp		0.172	1.00	Sep	18.82	49.40			0.34	3.87				72.09
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.49	3.04	0.34	3.50				18.47
Boll Buggy-1st pick	6R38"325hp	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.31	2.67	0.17	1.75				16.17
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Nov	1.65	2.31	1.97	1.19	0.08	0.84				7.96
Cotton Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Cotton Checkoff	bale			1.00	Nov							2.0800	2.56	5.32	5.32
Roll-Out Pipe Irr.	Acre				Jul	7.27	10.16	23.87	49.39	0.44	4.56	1.0000		8.58	103.83
TOTALS						54.13	100.47	33.70	65.93	2.32	24.24			385.70	664.17
INTEREST ON OPERATING CAPITAL															9.65
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															673.82

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, 2016.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.18	0.19	0.21	0.22	0.24	0.27	0.30	0.34	0.39	0.45	0.54
PERCENT	YIELD	UNIT	-----dollars-----										
50	600.00	lb	-218	-210	-201	-191	-178	-163	-145	-122	-93	-54	0
			-385	-377	-368	-357	-345	-330	-312	-289	-260	-221	-166
60	720.00	lb	-196	-187	-176	-163	-149	-131	-109	-81	-46	0	65
			-363	-353	-342	-330	-315	-297	-275	-248	-213	-166	-100
70	840.00	lb	-174	-163	-151	-136	-119	-98	-72	-40	0	54	131
			-341	-330	-317	-303	-285	-264	-239	-207	-166	-111	-35
80	960.00	lb	-153	-140	-126	-109	-89	-65	-36	0	46	109	196
			-319	-306	-292	-275	-255	-231	-202	-166	-119	-57	30
90	1080.00	lb	-131	-117	-100	-81	-59	-32	0	40	93	163	262
			-297	-283	-267	-248	-226	-199	-166	-125	-72	-2	95
100	1200.00	lb	-109	-93	-75	-54	-29	0	36	81	140	218	327
			-275	-260	-242	-221	-196	-166	-129	-84	-25	52	161
110	1320.00	lb	-87	-70	-50	-27	0	32	72	122	187	273	393
			-253	-236	-216	-193	-166	-133	-93	-43	20	106	227
120	1440.00	lb	-65	-46	-25	0	29	65	109	163	234	327	459
			-231	-213	-191	-166	-136	-100	-57	-2	67	161	292
130	1560.00	lb	-43	-23	0	27	59	98	145	204	281	382	524
			-210	-189	-166	-139	-106	-68	-20	38	114	216	358
140	1680.00	lb	-21	0	25	54	89	131	182	245	327	437	590
			-188	-166	-141	-111	-76	-35	15	79	161	270	423
150	1800.00	lb	0	23	50	81	119	163	218	286	374	491	655
			-166	-142	-115	-84	-47	-2	52	120	208	325	489

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, 2016.

			-----BREAKEVEN PRICE-----										
Cotton Lint			0.27	0.29	0.31	0.34	0.37	0.41	0.45	0.51	0.58	0.68	0.82
PERCENT	YIELD	UNIT	-----dollars-----										
50	600.00	lb	-163	-151	-137	-121	-103	-80	-53	-18	25	84	166
			-329	-317	-304	-288	-269	-247	-219	-185	-141	-82	0
60	720.00	lb	-130	-116	-99	-80	-58	-31	1	42	95	166	265
			-296	-282	-266	-247	-224	-197	-164	-123	-70	0	98
70	840.00	lb	-97	-80	-61	-39	-13	18	56	104	166	248	364
			-263	-247	-228	-205	-179	-148	-109	-61	0	82	197
80	960.00	lb	-64	-45	-23	1	31	67	111	166	237	331	462
			-230	-211	-190	-164	-134	-98	-54	0	70	164	296
90	1080.00	lb	-31	-10	14	42	76	116	166	228	307	413	561
			-197	-176	-152	-123	-89	-49	0	61	141	247	395
100	1200.00	lb	1	25	52	84	121	166	221	289	378	495	660
			-164	-141	-114	-82	-44	0	54	123	211	329	494
110	1320.00	lb	34	60	90	125	166	215	276	351	448	578	759
			-131	-105	-76	-41	0	49	109	185	282	411	593
120	1440.00	lb	67	95	128	166	211	265	331	413	519	660	858
			-98	-70	-38	0	44	98	164	247	353	494	692
130	1560.00	lb	100	131	166	207	256	314	386	475	590	743	957
			-65	-35	0	41	89	148	219	308	423	576	790
140	1680.00	lb	133	166	204	248	301	364	441	537	660	825	1056
			-32	0	38	82	134	197	274	370	494	659	889
150	1800.00	lb	166	201	242	289	346	413	495	598	731	907	1155
			0	35	76	123	179	247	329	432	564	741	988

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, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Dropp SC	oz	0.44	1.2000	0.53	_____
Prep	pt	4.00	1.3300	5.32	_____
Def/Folex	pt	7.55	0.7500	5.66	_____
FERTILIZERS					
LA Phosphate	lb	0.54	60.0000	32.40	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	90.0000	38.70	_____
HERBICIDES					
Roundup WeatherMax	oz	0.08	88.0000	7.04	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.5000	6.35	_____
Cotoran 4L	pt	5.99	1.2000	7.19	_____
Dual II Magnum	pt	13.50	1.0000	13.50	_____
Layby Pro	qt	12.60	1.0000	12.60	_____
INSECTICIDES					
Ammo 2.5 EC	oz	0.92	1.2800	1.18	_____
Dimethoate 4E	pt	6.51	0.4000	2.60	_____
Orthene 90S	lb	5.75	1.8000	10.35	_____
Centric 40WG	oz	4.95	4.0000	19.80	_____
Karate Z	oz	3.40	6.3900	21.73	_____
Bidrin 8L	oz	0.98	12.0000	11.76	_____
Diamond .83EC	pt	19.50	0.7500	14.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Cotton Seed BGII/RRF	thous	0.61	52.5000	32.03	_____
TECHNOLOGY FEE					
BGII/RRF Cot Tech Fe	cap/ac	69.25	1.0000	69.25	_____
Eradication Fee	acre	6.00	1.0000	6.00	_____
GROWTH REGULATORS					
Pix Plus	oz	0.19	24.0000	4.56	_____
SERVICE FEE					
Crop Consultant	acre	7.00	1.0000	7.00	_____
Cotton Checkoff	bale	2.56	2.2900	5.86	_____
OPERATOR LABOR					
Self-Propelled	hour	13.40	0.2428	3.27	_____
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	10.18	0.2997	3.04	_____
Tractors	hour	10.18	1.1722	11.91	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	11.4327	22.88	_____
Self-Propelled	gal	2.00	3.8741	7.74	_____
Roll-Out Pipe Irr.	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.83	1.0000	9.83	_____
Tractors	Acre	6.65	1.0000	6.65	_____
Self-Propelled	Acre	13.16	1.0000	13.16	_____
Roll-Out Pipe Irr.	Acre	6.34	1.0000	6.34	_____
INTEREST ON OP. CAP.	Acre	9.67	1.0000	9.67	_____

TOTAL DIRECT EXPENSES				513.99	_____
FIXED EXPENSES					
Implements	Acre	16.95	1.0000	16.95	_____
Tractors	Acre	41.79	1.0000	41.79	_____
Self-Propelled	Acre	53.72	1.0000	53.72	_____
Roll-Out Pipe Irr.	Acre	48.24	1.0000	48.24	_____

TOTAL FIXED EXPENSES				160.70	_____

TOTAL SPECIFIED EXPENSES				674.69	_____

Table 4.B Estimated resource use and costs for field operations, per Acre
 Cotton, B2/RRFlex Cotton, 12-row equipment, irrigated, Alluvial Soil, Louisiana, 2016.

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	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Paratill & Bed Fold.	12R-38	MFWD 225	0.053	0.50	Nov	0.81	1.21	0.67	1.16	0.02	0.27				4.12
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Nov	1.57	2.32	0.60	0.68	0.07	0.79				5.96
LA Phosphate	lb											60.0000	0.54	32.40	32.40
LA Potash	lb											60.0000	0.35	21.00	21.00
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov	1.49	2.21	0.42	1.11	0.04	0.50				5.73
Row Cond (Harrow)	38'	MFWD 225	0.039	1.00	Nov	1.19	1.76	0.22	0.92	0.03	0.40				4.49
Roller	32'	MFWD 170	0.046	1.00	Nov	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Ditcher		2WD 130	0.020	1.00	Nov	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Sprayer(600-750Gal)	60'		0.017	1.00	Mar	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.5000	4.23	6.35	6.35
Plant & Pre Folding	12R-38	MFWD 190	0.053	1.00	Apr	1.35	1.89	1.58	3.02	0.10	1.08				8.92
Cotoran 4L	pt											1.2000	5.99	7.19	7.19
Cotton Seed BGII/RRF	thous											52.5000	0.61	32.03	32.03
Ammo 2.5 EC	oz											1.2800	0.92	1.18	1.18
BGII/RRF Cot Tech Fe cap/ac												1.0000	69.25	69.25	69.25
Ditcher		2WD 130	0.020	1.00	Apr	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.57	2.32	0.60	0.68	0.07	0.79				5.96
LA Nitrogen	lb											90.0000	0.43	38.70	38.70
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Dimethoate 4E	pt											0.4000	6.51	2.60	2.60
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Dual II Magnum	pt											1.0000	13.50	13.50	13.50
Sprayer(600-750Gal)	60'		0.017	1.00	May	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Sprayer(600-750Gal)	60'		0.017	1.00	Jun	0.52	1.08			0.02	0.32				1.92
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Centric 40WG	oz											2.0000	4.95	9.90	9.90
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Centric 40WG	oz											2.0000	4.95	9.90	9.90
Pix Plus	oz											12.0000	0.19	2.28	2.28
Spray (Direct/Layby)	12R-38	MFWD 170	0.044	1.00	Jun	1.01	1.45	0.26	0.31	0.06	0.68				3.71
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	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Pix Plus	oz											12.0000	0.19	2.28	2.28
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Karate Z	oz											2.1300	3.40	7.24	7.24
Bidrin 8L	oz											6.0000	0.98	5.88	5.88
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Karate Z	oz											2.1300	3.40	7.24	7.24
Diamond .83EC	pt											0.3750	19.50	7.31	7.31
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Orthene 90S	lb											0.6000	5.75	3.45	3.45
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Dropp SC	oz											1.2000	0.44	0.53	0.53
Prep	pt											1.3300	4.00	5.32	5.32
Def/Folex	pt											0.7500	7.55	5.66	5.66
Cotton Picker-1st-BB	6R38"330hp		0.172	1.00	Sep	18.82	49.40			0.34	3.87				72.09
Module Builder-1st	6R-38(325)	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.49	3.04	0.34	3.50				18.47
Boll Buggy-1st pick	6R38"325hp	MFWD 190	0.172	1.00	Sep	4.34	6.10	1.31	2.67	0.17	1.75				16.17
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Nov	1.65	2.31	1.97	1.19	0.08	0.84				7.96
Crop Consultant	acre			1.00	Nov							1.0000	7.00	7.00	7.00
Cotton Checkoff	bale			1.00	Nov							2.2900	2.56	5.86	5.86
Roll-Out Pipe Irr.	Acres				Jul	7.27	10.16	23.87	49.39	0.44	4.56	1.0000		8.58	103.83
TOTALS						50.43	95.51	33.27	65.19	2.07	21.67			398.95	665.02
INTEREST ON OPERATING CAPITAL															9.67
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															674.69

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, 2016.

Cotton Lint			-----BREAKEVEN PRICE-----										
			0.14	0.15	0.16	0.18	0.19	0.21	0.24	0.27	0.31	0.36	0.43
PERCENT	YIELD	UNIT	-----dollars-----										
50	700.00	lb	-203	-195	-187	-177	-166	-152	-135	-114	-87	-50	0
			-363	-356	-348	-338	-326	-312	-296	-274	-247	-211	-160
60	840.00	lb	-182	-174	-163	-152	-138	-121	-101	-76	-43	0	60
			-343	-334	-324	-312	-299	-282	-262	-236	-204	-160	-99
70	980.00	lb	-162	-152	-140	-126	-110	-91	-67	-38	0	50	121
			-323	-312	-301	-287	-271	-252	-228	-198	-160	-109	-38
80	1120.00	lb	-142	-130	-117	-101	-83	-60	-33	0	43	101	182
			-302	-291	-277	-262	-243	-221	-194	-160	-117	-59	22
90	1260.00	lb	-121	-108	-93	-76	-55	-30	0	38	87	152	243
			-282	-269	-254	-236	-216	-191	-160	-122	-73	-8	82
100	1400.00	lb	-101	-87	-70	-50	-27	0	33	76	130	203	304
			-262	-247	-230	-211	-188	-160	-126	-84	-30	42	143
110	1540.00	lb	-81	-65	-46	-25	0	30	67	114	174	253	365
			-241	-225	-207	-186	-160	-130	-93	-46	13	93	204
120	1680.00	lb	-60	-43	-23	0	27	60	101	152	217	304	426
			-221	-204	-184	-160	-133	-99	-59	-8	56	143	265
130	1820.00	lb	-40	-21	0	25	55	91	135	190	261	355	487
			-201	-182	-160	-135	-105	-69	-25	29	100	194	326
140	1960.00	lb	-20	0	23	50	83	121	169	228	304	406	548
			-181	-160	-137	-109	-77	-38	8	67	143	245	387
150	2100.00	lb	0	21	46	76	110	152	203	266	348	456	609
			-160	-138	-113	-84	-49	-8	42	105	187	296	448

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, 2016.

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	-149	-138	-125	-110	-93	-71	-46	-13	27	83	160
			-310	-299	-286	-271	-253	-232	-206	-174	-132	-77	0
60	840.00	lb	-118	-105	-89	-71	-50	-25	5	44	94	160	253
			-279	-265	-250	-232	-211	-186	-155	-116	-66	0	93
70	980.00	lb	-87	-71	-54	-33	-8	21	57	102	160	238	346
			-248	-232	-214	-193	-169	-139	-103	-58	0	77	186
80	1120.00	lb	-56	-38	-18	5	33	67	109	160	227	315	439
			-217	-199	-178	-155	-126	-93	-51	0	66	155	279
90	1260.00	lb	-25	-5	17	44	76	114	160	218	293	393	532
			-186	-166	-143	-116	-84	-46	0	58	132	232	372
100	1400.00	lb	5	27	53	83	118	160	212	277	360	470	625
			-155	-132	-107	-77	-42	0	51	116	199	310	465
110	1540.00	lb	36	61	89	121	160	207	264	335	426	548	719
			-124	-99	-71	-38	0	46	103	174	265	387	558
120	1680.00	lb	67	94	124	160	202	253	315	393	493	625	812
			-93	-66	-35	0	42	93	155	232	332	465	651
130	1820.00	lb	98	127	160	199	245	300	367	451	559	703	905
			-62	-33	0	38	84	139	206	290	398	542	744
140	1960.00	lb	129	160	196	238	287	346	419	509	625	781	998
			-31	0	35	77	126	186	258	348	465	620	837
150	2100.00	lb	160	193	232	277	329	393	470	567	692	858	1091
			0	33	71	116	169	232	310	407	531	697	930

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, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	10.18	0.2930	2.99	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	2.8274	5.66	_____
Engine, RPF, 75	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.43	1.0000	0.43	_____
Tractors	Acre	1.61	1.0000	1.61	_____
Well & Pump, Furrow	each	390.00	0.0062	2.44	_____
Engine, RPF, 75	ac-in	0.37	10.5000	3.90	_____
INTEREST ON OP. CAP.	Acre	0.70	1.0000	0.70	_____
TOTAL DIRECT EXPENSES				44.98	_____
FIXED EXPENSES					
Implements	Acre	1.15	1.0000	1.15	_____
Tractors	Acre	10.16	1.0000	10.16	_____
Well & Pump, Furrow	each	1152.97	0.0062	7.21	_____
Main Line Pipe	each	796.08	0.0062	4.98	_____
Land Forming (\$300)	each	27.67	1.0000	27.67	_____
Engine, RPF, 75	each	1340.05	0.0062	8.38	_____
TOTAL FIXED EXPENSES				59.55	_____
TOTAL SPECIFIED EXPENSES				104.53	_____

Appendix Table 2 Estimated costs per Acre
 Center pivot irrigation system, 1/4 mile
 applying 7.5 inches in three applications Louisiana, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	10.18	0.2036	2.08	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.00	11.2011	22.40	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	390.00	0.0074	2.89	_____
Engine, 1/4 CP, 65	ac-in	0.61	7.5000	4.64	_____
Pivot, 1/4 CP	1320'	1516.40	0.0074	11.23	_____
INTEREST ON OP. CAP.	Acre	0.76	1.0000	0.76	_____
TOTAL DIRECT EXPENSES				44.00	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1152.97	0.0074	8.54	_____
Engine, 1/4 CP, 65	each	1340.05	0.0074	9.93	_____
Pivot, 1/4 CP	each	6083.99	0.0074	45.07	_____
TOTAL FIXED EXPENSES				63.54	_____
TOTAL SPECIFIED EXPENSES				107.54	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2016.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Terraclor Super X G	lb	2.82
Crop Oil (Seed Oil)	pt	4.44	Tilt 3.6 EC	oz	0.86
Crop Oil (Petroleum)	pt	3.86	Vitavax 200	oz	0.47
Surfactant	pt	5.35	Vitavax M Flowable	oz	1.06
CUSTOM FERT/LIME			Vitavax RTU-Thiram	oz	0.40
App Fert by Air	cwt	7.00	Vitavax T-L	oz	0.29
App Fert by Air(Min)	appl	7.00	GIN/DRY		
Custom Apply Fert	acre	7.00	Dry Corn	bu	0.19
Custom Spread(Truc	appl	4.50	Dry Grain Sorghum	cwt	0.25
Lime (Spread)	ton	46.00	Dry Rice	bu	0.40
CUSTOM HARVEST/HAUL			Dry Rice (cwt)	cwt	0.90
Custom Combine Rice	acre	0.00	GROWTH REGULATORS		
Haul Corn	bu	0.23	Early Harvest PGR	oz	1.55
Haul Cotton	lb	0.02	LA Polado	oz	0.13
Haul Sorghum	bu	0.25	Mepex	oz	0.10
Haul Soybeans	bu	0.27	PGR IV	oz	1.55
Haul Wheat	bu	0.26	Pix Plus	oz	0.19
LA Rice Haul	cwt	0.30	Pix Ultra	oz	0.39
CUSTOM PLANT			HARVEST AIDS		
LA Rice Air Plant NE	cwt	5.50	Accelerate	pt	2.59
LA Rice Air Plant SW	cwt	5.60	Ammonium Sulfate	lb	0.24
CUSTOM SPRAY			Boll'd	pt	7.01
App by Air (2 gal)	appl	4.00	CottonQuik	pt	5.01
App by Air (3 gal)	appl	5.00	Def 6	pt	8.25
App by Air (5 gal)	appl	6.50	Def/Folex	pt	7.55
App by Air (10 gal)	appl	8.75	Dropp 50 WP	lb	45.45
LA Rice GPS Charge-SW	acre	0.35	Dropp SC	oz	0.44
LA Rice GPS Charge_NE	acre	0.25	Ethephon 6E	pt	4.69
FERTILIZERS			Finish 6	pt	8.93
Amm Nitrate (34% N)	cwt	22.50	Folex 6EC	pt	9.92
Amm Sulfate (21% N)	cwt	17.25	Ginstar EC	pt	30.60
Fert 10-34-0	cwt	32.50	Gramoxone Extra	pt	4.86
Fert 41-0-0-4	cwt	20.50	Gramoxone Inteon	oz	0.25
LA Nitrogen	lb	0.43	Gramoxone Max	pt	4.06
LA Phosphate	lb	0.54	Harvade 5F	oz	0.67
LA Potash	lb	0.35	Leafless	pt	18.56
Phosphorus(46% P2O5)	cwt	25.00	Prep	pt	4.00
Potash (60% K2O)	cwt	21.27	Sodium Chlorate 3L	gal	3.50
Sulfur	lb	0.34	Solium Chlorate 6L	gal	5.57
UAN (32% N)	cwt	15.95	Starfire	pt	0.00
UAN + Sulfur (28% N)	cwt	16.33	HERBICIDES		
Urea, Solid (46% N)	cwt	20.83	2,4-D Amine 4	pt	1.85
Zinc	lb	0.50	2,4-D Ester	pt	3.00
FUNGICIDES			AAtrex 4L	pt	2.46
Apron Maxx RTA	oz	0.86	AAtrex NINE-O	lb	3.60
Apron XL	oz	6.98	Accent Gold	oz	6.12
Apron XL LS	oz	6.98	Accent SP	oz	36.25
Benlate 50 WP	lb	15.95	Aim 2EC	oz	7.19
Captan 4L	pt	2.83	Aim DF	oz	9.65
Captan 50 WP	lb	4.03	Arrosolo	qt	7.88
Cruiser 5FS	oz	17.38	Assure II	oz	0.75
Delta Coat AD	oz	3.75	Atrazine 4L	pt	1.50
Dithane F-45	qt	8.52	Atrazine 90DF	lb	3.60
Dithane Rainsheild	lb	2.75	Authority 75DF	lb	26.95
Fungicide	lb	2.82	Axiom 68DF	lb	25.74
Gem 25 WG	oz	3.70	Backdraft	pt	2.40
Manzate 75 DF	lb	4.81	Banvel	pt	11.98
Manzate Flowable	pt	4.60	Basagran	pt	12.90
Moncut 70 DF	lb	33.30	Basis Gold	lb	9.00
Orbit	oz	2.75	Beacon 75% WSP	oz	34.87
Prevail	lb	28.50	Beyond	oz	4.43
Quadris	oz	2.66	Bicep II Magnum	qt	10.37
Ridomil GoldPC 10G	lb	2.08	Bicep II zmsgnum	qt	10.97
Ridomil Gold PC	lb	4.00	Bladex 4L	qt	0.00
Ridomil Gold PC Liq	oz	6.54	Bladex 90DF	lb	0.00
Rovral 4F	pt	11.14			
Rovral WG	lb	0.00			
Shelter	oz	8.50			
Stiletto	oz	0.58			
Stratego	pt	25.00			
Terrachlor Flowable	pt	4.74			
Terraclor 2EC	pt	1.87			
Terraclor Super X EC	pt	3.95			

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2016.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Blazer 2L	pt	0.00	Guardsman Max	pt	7.22
HERBICIDES (CON'T)			Harmony Extra	oz	14.43
Blazer Ultra	pt	9.79	Hoelon 3EC	pt	11.03
Boa	pt	3.63	Karmex DF	lb	5.93
Bolero 8EC	pt	7.67	LA Asulox/Asulam	gal	38.80
Boundary	pt	10.05	LA Weedmaster	qt	7.25
Buctril 4EC	pt	17.06	Lariat	qt	7.58
Butoxone 175(2,4-DB)	pt	3.24	Lasso 4EC	qt	6.60
Butoxone 200(2,4-DB)	pt	3.92	Lasso II 15G	lb	0.00
Butyrac 175 (2,4-DB)	pt	3.11	Layby Pro	qt	6.30
Butyrac 200 (2,4-DB)	pt	4.05	Lexone 75DF	lb	18.90
Canopy 75%	oz	2.70	Liberty	pt	8.84
Canopy XL	oz	2.70	Lightning	oz	14.25
Caparol 4L	pt	4.02	Lightning	oz	14.25
Caparol Accu-Pak	lb	0.00	Linex 4L	pt	10.56
Celebrity Plus	lb	84.50	Londax 60DF	oz	17.13
Clarity	pt	12.89	Lorox 50DF	lb	23.52
Classic	oz	16.85	MSMA 6.6	pt	3.38
Clincher EC	oz	2.30	MSMA6 + Surfactant	pt	2.63
Cobra 2EC	oz	1.68	Newpath 2SL	oz	3.68
Command 3ME	pt	18.50	Ordram 15-G	lb	1.34
Command XTRA	pt	0.00	Ordram 8-E	pt	9.42
Conclude Ultra	pt	0.00	Outlook	pt	16.80
Conclude Ultra	pt	0.00	Pendimax 3.3	pt	2.47
Conclude XACT	pt	11.32	Permit 75DF	oz	18.50
Conclude XTRA	pt	8.32	Poast 1.53	pt	12.41
Cornerstone	pt	2.50	Poast Plus	pt	8.60
Cotoran 4L	pt	5.99	Propanil 4E	qt	5.15
Cotoran DF	lb	7.92	Prowl 3.3 EC	pt	5.62
Cotton Pro Flowable	pt	3.44	Pursuit DG	oz	11.59
Crossbow	pt	8.05	Pursuit Plus EC	pt	7.10
Cy-Pro 4L	qt	0.00	Python WDG	oz	13.56
Cypro 90DF	lb	0.00	Raptor	oz	4.37
Delta Goal	pt	9.44	Reflex 2LC	pt	6.30
Denim 0.16 EC	pt	24.06	Regiment 80WP	oz	4.38
Detail	pt	7.99	Remedy	pt	8.45
Direx 4L	pt	4.41	Resource .86EC	pt	29.40
Direx 80 DF	lb	7.37	Ricestar	pt	22.55
Diuron 4L	pt	4.15	Roundup Original	pt	6.00
Diuron 80 DF	lb	6.20	Roundup Original Max	oz	0.38
Domain 60DF	lb	12.75	Roundup Power Max	pt	1.25
DSMA 4	pt	0.90	Roundup Ultra MAX	pt	5.97
Dual 8E	pt	0.00	Roundup Ultra Dry	lb	6.14
Dual II Magnum	pt	13.50	Roundup WeatherMax	oz	0.08
Dual Magnum	pt	13.01	Scepter 70 DG	oz	4.52
Duet	pt	5.09	Select 2EC	oz	0.78
Evik DF 80W	lb	11.22	Sencor 4F	pt	14.74
Exceed	oz	10.71	Sencor DF	lb	11.20
Exceed Custom Pak	oz	11.50	Squadron CE	pt	12.50
Expert	pt	4.19	Stam 4E	qt	5.12
Facet 75DF	lb	50.00	Stam 80 EDF	lb	9.50
First Rate	oz	41.50	Staple 85%	oz	16.01
Flexstar HL	pt	4.50	Staple Plus	oz	8.55
FloMet 4L	pt	4.74	Steadfast	oz	12.32
Freedom	qt	2.51	Steel	pt	10.28
Front Row	oz	21.92	Storm	pt	11.88
Frontier 6.0	oz	0.63	Strongarm	oz	51.19
Fultime	pt	5.25	Superwham	qt	9.18
Fusilade DX	oz	1.08	Suprend	lb	13.49
Fusion	pt	26.89	Surpass 20G	lb	2.36
Glyphos	pt	1.80	Surpass EC	qt	28.06
Glyphomax	pt	3.49	Touchdown	qt	9.32
Glyphosate Plus 4L	pt	2.00	Touchdown 4 IQ	pt	3.33
Glystar Plus	pt	2.45	Touchdown Total	qt	7.13
Goal 2XL	pt	9.83	Treflan HFP	pt	2.90
Gramoxone Max	pt	5.46	Treflan TR-10	lb	1.10
Gramoxone Max	pt	4.06	Tri-Scept	pt	5.24
Grandstand R	qt	29.47	Trifluralin 4EC	pt	3.60
Guardsman	pt	4.66	Trilin 10G	lb	0.79
			Trilin 4EC	pt	2.12

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2016.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Typhoon	qt	13.06	Sevin 80S	lb	7.40
Valor WP	oz	4.23	Sevin XLR Plus	qt	12.50
Whip 360	pt	25.08	Spintor 2SC	oz	4.93
Zorial Rapid 80DF	lb	14.10	Steward	pt	36.33
INSECTICIDES			Synthetic Pyrethroid	oz	0.00
Acephate 80SP	lb	0.00	Temik 15G Grit	lb	4.00
Acephate 90SP	lb	7.45	Thimet 20-G	lb	3.65
Admire 2 Flowable	oz	4.78	Thionex 3EC	pt	4.17
Ammo 2.5 EC	oz	0.78	Thionex 50W	lb	10.45
Asana .66 XL	oz	0.57	Tracer	oz	9.73
Aztec 2.1% G	lb	3.68	Trimax	oz	1.85
Baythroid 2	oz	2.30	Vydate C-LV	oz	0.89
INSECTICIDES (CON'T)			Warrior Z	oz	1.80
Bidrin 8L	oz	0.98	Warrior ZT	oz	1.88
Brigade EC	pt	3.50	SEED/PLANTS		
Brigade WSB	lb	22.47	Corn Seed Bt	thous	2.60
Capture 2EC	oz	2.40	Corn Seed BtRR	thous	3.47
Carbamate	oz	0.00	Corn Seed Conv.	thous	2.61
Centric 40WG	oz	4.95	Corn Seed RR	thous	3.08
Comite	pt	8.46	Corn Seed VT3	thous	3.52
Condor XL	pt	0.00	Corn Seed VT3Pro	thous	3.52
Confirm 2F	oz	1.86	Cotton Seed BG/RR	thous	0.62
Counter 15G	lb	4.51	Cotton Seed BGII/RRF	thous	0.61
Counter CR	lb	2.65	Cotton Seed Bt	thoud	0.28
Curacron 8E	pt	10.75	Cotton Seed BtRR	thous	0.74
Decis 1.5EC	oz	2.84	Cotton Seed Bxn	thous	0.00
Declare	pt	4.08	Cotton Seed Conv.	thous	0.00
Denim 0.16EC	pt	32.63	Cotton Seed Liberty	thous	1.05
Di-Syston 15G	lb	3.48	Cotton Seed Liberty	thous	1.05
Di-Syston 8	pt	14.32	Cotton Seed RR	thous	0.63
Diamond .83EC	pt	19.50	Cotton Seed RR	thous	0.63
Dimethoate 4E	pt	6.27	Cotton Seed WS	thous	0.49
Dimilin 2L	oz	2.02	Cotton Seed WS/RR	thous	0.00
Dipel DF	lb	15.09	Cotton Seed WS/RRF	thous	0.59
Dipel ES	pt	5.42	Sorghum Concept	lb	2.29
Force 3G	lb	6.90	Sorghum Hybrid Sudax	lb	1.20
Furadan 3G	lb	0.00	Sorghum NonConcept	lb	1.18
Furadan 4F	pt	9.81	Soybean Seed LL	lb	1.15
Fury 1.5 EC	oz	1.30	Soybean Seed Private	lb	0.38
Gaucho 480	oz	5.80	Soybean Seed Public	lb	0.00
Intrepid 2F	oz	6.13	Soybean Seed RR	lb	1.11
Intruder 70WP	oz	9.83	Soybean Seed Stack	lb	1.28
Karate Z	oz	3.40	Wheat Seed Private	lb	0.38
Lannate LV	pt	11.08	Wheat Seed Public	lb	0.00
Lannate SP	oz	2.13	SERVICE FEE		
Larvin 3.2	oz	0.63	Cotton Checkoff	bale	2.56
Leverage 2.7	oz	2.12	Cotton Storage	bale	25.00
Lorsban 15G	lb	2.15	Crop Consultant	acre	7.00
Lorsban 4E	pt	6.02	Insect Scouting	acre	7.00
Malathion 57EC	pt	4.23	Rice Consultant	acre	8.00
Malathion 8E	pt	5.60	SC Treating Charge	acre	0.00
Malathion ULV	pt	4.93	Survey & Mark Levees	acre	4.50
Mepichlor 4.2% Liq	pt	5.91	Survey & Mark Levees	acre	4.50
Methyl Parathion	pt	5.79	BG Cot Tech Fee	thous	0.28
Monitor 4	pt	16.50	BG Cot Tech Fee	cap/ac	19.50
Monitor 4	pt	16.50	BG II Cot Tech Fee	thous	0.76
Mustang Max	oz	1.48	BG II Cot Tech Fee	cap/ac	31.91
Organophosphate	oz	0.00	BG II/RR Tech Fee	thous	1.49
Orthene 90S	lb	5.75	BG II/RR Tech Fee	cap/ac	62.69
Orthene 97	lb	10.59	BGII/RRF Cot Tech Fe	thous	1.49
Ovasyn	pt	0.00	BGII/RRF Cot Tech Fe	cap/ac	69.25
Ovicide	oz	0.00	Eradication Fee	acre	6.00
Penncap M	pt	6.71	Eradication Zone 1	acre	6.00
Phaser 3E	qt	8.13	Eradication Zone 1A	acre	6.00
Pirate 3SC	oz	0.00	Eradication Zone 1B	acre	6.00
Pounce 25WP	lb	15.16	Eradication Zone 2	acre	6.00
Pounce 3.2 EC	oz	0.91	Eradication Zone 3	acre	6.00
Provado 1.6F	oz	1.94	Eradication Zone 4	acre	6.00
Scout X-TRA	oz	0.00	RR Cotton Tech Fee	thous	1.04

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2015.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
RR Cotton Tech Fee	cap/ac	43.66	RRF Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	thous	1.04	RRF Cotton Tech Fee	cap/ac	48.25
RR Cotton Tech Fee	cap/ac	43.66			

Appendix Table 4. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2016.

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	13.40	19.56	0.00	32.96	0.00	32.96
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.40	24.70	16.82	54.92	66.39	121.32
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.40	25.74	0.00	39.14	0.00	39.14
Combine (250-299 hp)	275hp	315,000	300	8	14.15	13.40	28.30	32.81	74.51	129.47	203.98
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.40	30.36	22.73	66.49	89.69	156.18
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.40	29.86	0.00	43.26	0.00	43.26
Combine (300-349 hp)	325hp	332,000	300	8	16.73	13.40	33.46	34.58	81.44	136.45	217.90
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.40	32.94	0.00	46.34	0.00	46.34
Combine (350-379 hp)	370hp	344,000	300	8	19.04	13.40	38.08	35.83	87.31	141.39	228.70
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.40	37.58	0.00	50.98	0.00	50.98
Cotton Stripper	173hp	170,000	200	8	8.08	13.40	16.16	26.56	56.12	104.80	160.93
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.18	9.58	2.72	22.48	7.84	30.33
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.18	7.00	1.57	18.75	4.54	23.30
Tractor(40-59hp)Cab	2WD 50	31,100	600	8	2.57	10.18	5.14	0.97	16.29	5.84	22.14
Tractor(40-59hp)Cab	MFWD 50	38,100	600	8	2.57	10.18	5.14	1.19	16.51	7.16	23.68
Tractor(40-59hp)RB	2WD 50	18,500	600	8	2.57	10.18	5.14	0.57	15.90	3.47	19.38
Tractor(40-59hp)RB	MFWD 50	23,600	600	8	2.57	10.18	5.14	0.73	16.06	4.43	20.50
Tractor(60-89hp)CAB	2WD 75	47,700	600	8	3.86	10.18	7.72	1.49	19.39	8.97	28.36
Tractor(60-89hp)CAB	MFWD 75	49,300	600	8	3.86	10.18	7.72	1.54	19.44	9.27	28.71
Tractor(60-89hp)RB	2WD 75	37,000	600	8	3.86	10.18	7.72	1.15	19.05	6.95	26.01
Tractor(60-89hp)RB	MFWD 75	37,800	600	8	3.86	10.18	7.72	1.18	19.08	7.10	26.19
Tractor(90-119hp)CB	2WD 105	65,300	600	8	5.40	10.18	10.80	2.04	23.02	12.28	35.30
Tractor(90-119hp)CB	MFWD 105	78,300	600	8	5.40	10.18	10.80	2.44	23.43	14.72	38.16
Tractor(90-119hp)RB	2WD 105	59,900	600	8	5.40	10.18	10.80	1.87	22.86	11.26	34.12
Tractor(90-119hp)RB	MFWD 105	60,300	600	8	5.40	10.18	10.80	1.88	22.87	11.33	34.21
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	10.18	13.38	3.00	26.57	18.10	44.68
Tractor(120-139hp)CB	MFWD 130	116,000	600	8	6.69	10.18	13.38	3.62	27.18	21.81	49.00
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	10.18	15.44	3.37	28.99	20.30	49.30
Tractor(140-159hp)CB	MFWD 150	149,000	600	8	7.72	10.18	15.44	4.65	30.27	28.02	58.29
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.18	17.50	4.87	32.55	30.69	63.25
Tractor(160-179hp)CB	MFWD 170	166,000	600	8	8.75	10.18	17.50	5.18	32.86	32.66	65.53
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.18	18.53	4.45	33.16	28.08	61.25
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.18	19.55	4.46	34.20	28.13	62.34
Tractor(180-199hp)CB	MFWD 190	180,000	600	8	9.77	10.18	19.55	5.62	35.36	35.42	70.78
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.18	23.16	4.59	37.93	28.93	66.87
Tractor(200-249hp)CB	MFWD 225	228,000	600	8	11.58	10.18	23.16	7.12	40.46	44.86	85.33
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.18	23.16	8.65	41.99	54.50	96.50
Tractor(250-349hp)CB	4WD 300	282,000	600	8	15.44	10.18	30.88	8.81	49.87	55.49	105.36
Tractor(250-349hp)CB	Track 300	289,000	600	8	15.44	10.18	30.88	9.03	50.09	56.86	106.96
Tractor(350-449hp)CB	4WD 400	341,000	600	8	20.58	10.18	41.17	10.65	62.01	67.10	129.11
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	10.18	41.17	11.37	62.73	71.62	134.36
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.18	48.89	8.74	67.82	55.07	122.89

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 2016.

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/acre	-----\$/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	2.68	0.45	0.43	3.56	2.06	5.63
Butt Levee (Backhoe)	70 HP	73,300	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	11.67	8.39	11.76	31.83	46.42	78.26
Cotton Picker-1st-BB	4R2X1260hp	357,000	200	8	13.33	0.172	3.87	4.59	9.61	18.07	37.92	56.00
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.35	8.42	13.40	29.18	52.88	82.06
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.35	11.79	17.90	37.04	70.64	107.69
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.78	6.76	10.79	23.35	42.59	65.94
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.78	9.28	14.13	29.21	55.78	84.99
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.88	6.73	11.66	24.28	46.01	70.29
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.65	5.33	9.21	19.20	36.35	55.55
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.90	7.97	15.85	28.73	62.56	91.30
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.87	6.29	12.51	22.68	49.39	72.08
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.67	8.39	11.76	31.83	46.42	78.26
Cotton Picker-1st-Tr	4R2X1255hp	357,000	200	8	18.01	0.172	3.87	6.20	9.61	19.69	37.92	57.61
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.35	8.42	13.39	29.17	52.84	82.01
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.35	10.95	15.91	34.21	62.78	97.00
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.78	6.76	10.79	23.35	42.59	65.94
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.78	9.28	14.13	29.21	55.78	84.99
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.88	6.87	11.67	24.43	46.06	70.49
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.65	5.33	9.40	19.39	37.10	56.49
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.90	7.30	15.85	28.06	62.56	90.63
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.87	6.20	12.51	22.59	49.39	71.99
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.88	7.11	9.96	26.96	39.32	66.29
Cotton Picker-2nd-BB	4R2x1260hp	357,000	200	8	18.01	0.145	3.27	5.25	8.14	16.67	32.12	48.80
Cotton Picker-2nd-BB	4R30"255hp	261,825	200	8	12.86	0.277	6.22	7.13	11.34	24.71	44.76	69.47
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.22	9.27	13.47	28.98	53.18	82.17
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.90	5.73	9.14	19.77	36.07	55.85
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.90	7.86	11.97	24.74	47.25	71.99
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	4.98	5.82	9.88	20.69	39.02	59.71
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.94	4.51	7.80	16.26	30.79	47.05
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.15	6.65	13.43	24.24	52.99	77.24
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.27	5.25	10.60	19.13	41.84	60.98
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.88	7.11	9.96	26.96	39.32	66.29
Cotton Picker-2nd-Tr	4R2X1260hp	357,000	200	8	18.01	0.145	3.27	5.25	8.14	16.67	32.12	48.80
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.22	7.13	11.34	24.71	44.76	69.47
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.22	9.27	13.47	28.98	53.18	82.17
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.90	5.73	9.14	19.77	36.07	55.85
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.90	7.86	11.97	24.74	47.25	71.99
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	4.98	5.82	9.88	20.69	39.02	59.71
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.94	4.51	7.96	16.42	31.43	47.85
Cotton Picker-2nd-Tr	6R30"325hp	465,000	200	8	16.72	0.184	4.15	6.18	13.43	23.76	52.99	76.76
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.27	5.25	10.60	19.13	41.84	60.98
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	10.18	5.62	2.81	18.61	6.65	25.26
LA Rice Combine	25 ft	165,000	300	10	8.60	0.300	5.05	5.16	13.21	23.43	20.07	43.50
LA Rice Combine-2	25 ft	165,000	300	10	8.60	0.300	5.05	5.16	13.21	23.43	20.07	43.50
LARice Combine Med	20 ft	150,000	300	10	7.10	0.210	3.53	2.98	8.40	14.92	12.76	27.69
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.68	0.19	0.06	0.94	0.41	1.36
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.24	0.00	0.64	0.00	0.64
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.19	0.09	0.61	0.63	1.25
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.14	0.07	0.45	0.47	0.93
Sprayer(600-750Gal)	60'	174,000	350	8	10.29	0.017	0.31	0.36	0.16	0.84	1.08	1.92
Sprayer(600-825Gal)	80'	180,000	350	8	10.29	0.013	0.23	0.27	0.12	0.63	0.83	1.47
Sprayer(600-825Gal)	90'	255,000	350	8	10.29	0.011	0.21	0.24	0.16	0.61	1.05	1.66
Sprayer(1000-1400Gal)	90'	297,000	350	8	14.15	0.014	0.25	0.39	0.22	0.87	1.47	2.35
Sprayer(1200PlusGal)	120'	336,000	350	8	15.44	0.008	0.15	0.27	0.15	0.58	1.04	1.63

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2016.

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Blade-Box	6'	2WD 130	1,100	200	20	0.020	0.20	0.26	0.01	0.06	0.54	0.00	0.36	0.91
Blade-Box	10'	2WD 50	4,200	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	7,060	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	1,150	200	20	1.176	11.97	6.05	0.64	0.68	19.35	0.51	4.09	23.95
Blade-Scraper	10'	2WD 50	3,340	200	20	1.176	11.97	6.05	1.86	0.68	20.57	1.48	4.09	26.15
Blade-Scraper	14'	2WD 50	6,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.17	1.54	0.93	0.34	4.00	1.62	2.09	7.73
Chisel Plow(Folding)	24'	MFWD 190	38,100	150	12	0.076	0.77	1.49	1.05	0.43	3.75	1.82	2.70	8.28
Chisel Plow(Folding)	32'	MFWD 225	49,100	150	12	0.057	0.58	1.33	1.02	0.41	3.36	1.77	2.59	7.73
Chisel Plow(Folding)	42'	MFWD 225	55,700	150	12	0.044	0.44	1.01	0.88	0.31	2.66	1.53	1.97	6.17
Chisel Plow(Rigid)	15'	2WD 130	11,400	150	12	0.123	1.25	1.64	0.50	0.37	3.78	0.88	2.23	6.89
Chisel Plow(Rigid)	24'	MFWD 190	13,200	150	12	0.077	0.78	1.50	0.36	0.43	3.09	0.63	2.72	6.45
Chisel-Harrow	21 shank	2WD 190	12,500	150	12	0.088	0.89	1.72	0.39	0.39	3.40	0.68	2.47	6.57
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.69	1.58	0.34	0.48	3.11	0.60	3.07	6.79
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.89	1.72	0.61	0.39	3.62	1.05	2.47	7.15
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.69	1.58	0.59	0.48	3.36	1.02	3.07	7.46
Corn Grain Cart 8R30	500 bu	MFWD 190	23,700	200	12	0.031	0.32	0.62	0.20	0.17	1.33	0.35	1.13	2.82
Corn Grain Cart 8R40	700bu	MFWD 190	36,600	200	12	0.025	0.25	0.48	0.24	0.14	1.13	0.42	0.88	2.44
Cult & Post	4R-38	2WD 105	17,200	150	10	0.173	2.64	1.87	0.79	0.32	5.63	2.09	1.95	9.68
Cult & Post	6R-30	MFWD 150	21,600	150	10	0.146	4.47	2.26	0.84	0.68	8.27	2.23	4.10	14.61
Cult & Post	6R-38	MFWD 150	21,900	150	10	0.115	1.76	1.78	0.67	0.53	4.77	1.78	3.24	9.80
Cult & Post	8R-30	MFWD 190	25,900	150	10	0.110	1.67	2.15	0.75	0.61	5.20	2.00	3.89	11.11
Cult & Post	8R-38	MFWD 190	26,600	150	10	0.086	1.32	1.70	0.61	0.48	4.13	1.62	3.08	8.84
Cult & Post	8R-38 2x1	MFWD 190	37,900	150	10	0.057	0.88	1.13	0.58	0.32	2.92	1.54	2.05	6.52
Cult & Post	10R-30	MFWD 225	31,400	150	10	0.088	1.34	2.03	0.73	0.62	4.74	1.94	3.94	10.64
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	0.99	1.50	0.00	0.46	2.96	0.00	2.91	5.88
Cult & Post	12R-30	MFWD 225	40,700	150	10	0.073	1.11	1.69	0.79	0.52	4.13	2.10	3.29	9.52
Cult & Post	12R-38	MFWD 225	44,800	150	10	0.057	0.88	1.34	0.69	0.41	3.32	1.82	2.59	7.75
Cultipacker	12'	2WD 130	4,846	300	12	0.124	1.26	1.66	0.14	0.37	3.44	0.19	2.25	5.89
Cultipacker	20'	MFWD 150	15,200	300	12	0.074	0.76	1.15	0.26	0.34	2.52	0.36	2.09	4.98
Cultivate	4R-38	2WD 105	11,800	150	10	0.162	1.65	1.75	0.51	0.30	4.22	1.34	1.82	7.40
Cultivate	6R-30	MFWD 150	15,900	150	10	0.137	1.39	2.12	0.58	0.64	4.74	1.53	3.85	10.13
Cultivate	6R-38	MFWD 150	16,500	150	10	0.108	1.10	1.67	0.47	0.50	3.76	1.26	3.04	8.06
Cultivate	8R-30	MFWD 190	20,500	150	10	0.103	1.04	2.01	0.56	0.58	4.21	1.48	3.65	9.35
Cultivate	8R-38	MFWD 190	21,200	150	10	0.081	0.82	1.59	0.46	0.45	3.34	1.21	2.88	7.44
Cultivate	8R-38 2x1	MFWD 190	37,100	150	10	0.054	0.55	1.06	0.53	0.30	2.45	1.41	1.92	5.79
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.83	1.91	0.62	0.58	3.95	1.63	3.70	9.29
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.66	1.50	0.00	0.46	2.63	0.00	2.91	5.55
Cultivate	12R-30	MFWD 225	35,300	150	10	0.068	0.69	1.59	0.64	0.48	3.42	1.70	3.08	8.22
Cultivate	12R-38	MFWD 225	37,100	150	10	0.054	0.55	1.25	0.53	0.38	2.73	1.41	2.43	6.58
Disk & Incorporate	14'	2WD 130	29,500	200	10	0.149	2.28	2.00	1.32	0.45	6.06	2.33	2.71	11.10
Disk & Incorporate	24'	MFWD 190	44,500	200	10	0.087	1.33	1.70	1.16	0.49	4.69	2.05	3.09	9.84
Disk & Incorporate	32'	4WD 225	58,900	200	10	0.068	1.04	1.59	1.21	0.31	4.17	2.13	1.98	8.30
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.74	1.13	0.44	0.34	2.68	0.79	2.20	5.68
Disk Bed (Hipper)	4R-38	MFWD 150	8,380	160	10	0.147	1.50	2.27	0.30	0.68	4.77	0.81	4.13	9.73
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.27	2.18	0.47	0.64	4.58	1.24	4.08	9.90
Disk Bed (Hipper)	6R-38	MFWD 170	15,100	160	10	0.098	1.00	1.72	0.37	0.51	3.61	0.98	3.22	7.82
Disk Bed (Hipper)	8R-30	MFWD 190	18,100	160	10	0.093	0.95	1.83	0.42	0.52	3.73	1.12	3.32	8.18
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	31,200	160	10	0.049	0.50	0.96	0.38	0.27	2.12	1.01	1.74	4.89
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.76	1.73	0.37	0.53	3.40	0.98	3.36	7.75
Disk Bed (Hipper)	10R-38	MFWD 225	23,000	160	10	0.059	0.60	1.37	0.34	0.42	2.73	0.89	2.65	6.28
Disk Bed (Hipper)	12R-30	MFWD 225	31,300	160	10	0.062	0.63	1.44	0.48	0.44	3.01	1.29	2.80	7.11
Disk Bed (Hipper)	12R-38	MFWD 225	34,200	160	10	0.049	0.50	1.14	0.42	0.35	2.41	1.11	2.21	5.74
Disk Bed (Hipper)Fld	8R-38	MFWD 190	20,000	160	10	0.074	0.75	1.44	0.37	0.41	2.99	0.97	2.62	6.59
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	18,700	160	10	0.074	0.75	1.44	0.34	0.41	2.96	0.91	2.62	6.50
Disk Bed w/roller	8R-30	2WD 190	28,600	160	10	0.093	0.95	1.83	0.67	0.41	3.87	1.77	2.63	8.28
Disk Bed w/roller	12R-30	MFWD 225	46,700	160	10	0.062	0.63	1.44	0.72	0.44	3.25	1.92	2.80	7.99
Disk Harrow	14'	2WD 130	24,100	180	10	0.140	1.42	1.87	0.93	0.42	4.66	1.98	2.54	9.19
Disk Harrow	24'	MFWD 190	44,500	180	10	0.081	0.83	1.60	1.01	0.46	3.90	2.13	2.89	8.94
Disk Harrow	28'	MFWD 225	49,800	180	10	0.070	0.71	1.62	0.97	0.49	3.80	2.05	3.14	9.00
Disk Harrow	32'		53,500	180	10	0.061	0.82	0.00	0.91	0.00	0.00	1.92	0.00	0.00
Disk Harrow	42'	MFWD 225	98,500	180	10	0.046	0.47	1.08	1.27	0.33	3.17	2.70	2.09	7.97
Ditcher		2WD 130	4,900	200	10	0.020	0.20	0.26	0.03	0.06	0.57	0.05	0.36	0.98
Ditcher (1m/160a)		2WD 130	4,900	200	10	0.009	0.09	0.12	0.01	0.02	0.26	0.02	0.16	0.46
Fert Appl (Liquid)	4R-38	MFWD 150	13,500	150	8	0.154	2.36	2.38	1.39	0.72	6.86	1.57	4.33	12.76
Fert Appl (Liquid)	6R-30	MFWD 170	11,200	150	8	0.130	1.99	2.29	0.97	0.67	5.94	1.10	4.27	11.32
Fert Appl (Liquid)	6R-38	MFWD 170	12,200	150	8	0.103	1.57	1.80	0.84	0.53	4.76	0.94	3.37	9.09
Fert Appl (Liquid)	8R-30	MFWD 190	12,200	150	8	0.098	1.49	1.92	0.79	0.55	4.77	0.90	3.47	9.15
Fert Appl (Liquid)	8R-38	MFWD 190	14,900	150	8	0.077	1.18	1.51	0.77	0.43	3.91	0.87	2.75	7.53
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	17,500	150	8	0.051	0.78	1.01	0.60	0.29	2.69	0.68	1.83	5.20
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.19	1.81	0.97	0.55	4.55	1.09	3.52	9.17
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	0.94	1.43	0.83	0.44	3.66	0.94	2.77	7.38
Fert Appl (Liquid)	12R-30	MFWD 225	17,900	150	8	0.078	1.19	1.81	0.93	0.55	4.51	1.05	3.52	9.10
Fert Appl (Liquid)	12R-38	MFWD 225	17,500	150	8	0.051	0.78	1.19	0.60	0.36	2.95	0.68	2.31	5.95
Field Cult & Inc	12'	2WD 150	13,605	100	10	0.132	2.01	2.04	0.44	0.44	4.95	1.90	2.68	9.54
Field Cult & Inc	24'	MFWD 170	24,679	100	10	0.066	1.00	1.15	0.40	0.34	2.91	1.72	2.15	6.80

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2016.

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-----							
Field Cultivate	12'	2WD 150	16,600	100	10	0.124	1.26	1.92	0.51	0.41	4.12	2.18	2.52	8.83
Field Cultivate	24'	MFWD 170	32,100	100	10	0.062	0.63	1.08	0.49	0.32	2.54	2.11	2.03	6.68
Field Cultivate	32'	MFWD 190	39,100	100	10	0.046	0.47	0.91	0.45	0.26	2.10	1.92	1.65	5.68
Field Cultivate	42'	MFWD 225	55,300	100	10	0.035	0.36	0.82	0.49	0.25	1.93	2.07	1.59	5.60
Field Cultivate	50'	MFWD 225	64,300	100	10	0.029	0.30	0.69	0.48	0.21	1.68	2.02	1.33	5.05
Gate Installer		2WD 130	2,960	10	10	0.020	0.40	0.26	0.17	0.06	0.91	0.60	0.36	1.87
Grain Drill	12'	2WD 130	23,500	150	8	0.157	3.19	2.10	1.38	0.47	7.16	2.64	2.84	12.65
Grain Drill	15'	MFWD 150	32,000	150	8	0.125	2.55	1.94	1.50	0.58	6.59	2.88	3.52	13.00
Grain Drill	20'	MFWD 170	38,600	150	8	0.094	1.91	1.65	1.36	0.48	5.42	2.61	3.08	11.11
Grain Drill	24'	MFWD 190	62,200	150	8	0.078	1.59	1.53	1.83	0.44	5.41	3.50	2.78	11.69
Grain Drill	30'	MFWD 225	61,300	150	8	0.062	1.27	1.45	1.44	0.44	4.62	2.76	2.82	10.21
Grain Drill & Pre	12'	2WD 130	28,900	150	8	0.169	3.44	2.26	1.83	0.50	8.05	3.50	3.06	14.62
Grain Drill & Pre	15'	MFWD 150	37,400	150	8	0.135	2.75	2.09	1.89	0.63	7.37	3.63	3.79	14.80
Grain Drill & Pre	20'	MFWD 170	44,000	150	8	0.101	2.06	1.77	1.67	0.52	6.04	3.20	3.31	12.56
Grain Drill & Pre	24'	MFWD 190	67,600	150	8	0.084	1.72	1.65	2.14	0.47	5.99	4.10	2.99	13.09
Grain Drill & Pre	30'	MFWD 225	78,000	150	8	0.067	1.37	1.56	1.97	0.48	5.40	3.78	3.03	12.23
Harrow	13'	2WD 130	4,360	200	10	0.119	1.21	1.59	0.18	0.35	3.35	0.27	2.16	5.79
Harrow	21'	2WD 150	6,390	200	10	0.073	0.75	1.14	0.16	0.24	2.30	0.24	1.50	4.06
Harrow	40'	MFWD 190	17,000	200	10	0.038	0.39	0.75	0.23	0.21	1.60	0.34	1.37	3.32
Harrow	47'	MFWD 190	22,600	200	10	0.033	0.33	0.64	0.26	0.18	1.42	0.39	1.17	2.99
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.69	4.96	1.26	3.38	12.31	1.90	13.35	27.56
Header - Corn	6R30"	240hp	45,500	300	8	0.170	2.28	4.20	1.93	2.86	11.29	2.91	11.30	25.51
Header - Corn	6R38"	240hp	46,300	300	8	0.134	1.80	3.32	1.55	2.26	8.93	2.34	8.92	20.20
Header - Corn	8R-30	240hp	58,100	300	8	0.127	1.71	3.15	1.85	2.14	8.86	2.79	8.47	20.14
Header - Corn	8R-38	275hp	59,200	300	8	0.100	1.35	2.85	1.49	3.31	9.01	2.24	13.07	24.33
Header - Corn	12R-20	275hp	77,300	300	8	0.127	1.71	3.61	2.46	4.19	11.98	3.71	16.53	32.23
Header - Corn	12R-30	275hp	90,900	300	8	0.085	1.14	2.40	1.93	2.79	8.27	2.91	11.02	22.21
Header - Rice (CL)	22' Rigid	240hp	21,887	300	8	0.288	3.86	7.12	1.57	4.85	17.42	2.37	19.15	38.95
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.40	6.27	4.08	4.27	18.03	6.14	16.85	41.03
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.83	5.98	3.91	6.94	19.68	5.89	27.38	52.96
Header - Rice (SL)	22' Rigid	240hp	21,887	300	8	0.250	3.35	6.17	1.36	4.20	15.09	2.05	16.59	33.75
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.94	5.43	3.54	3.70	15.62	5.32	14.60	35.56
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.45	5.18	3.39	6.01	17.05	5.10	23.73	45.90
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.28	4.20	0.00	2.86	9.35	0.00	11.30	20.65
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.90	3.50	0.72	2.38	8.51	1.08	9.42	19.02
Header - Soybean	22' Flex	240hp	31,300	300	8	0.116	1.55	2.86	0.90	1.95	7.28	1.36	7.70	16.36
Header - Soybean	25' Flex	275hp	34,400	300	8	0.102	1.36	2.89	0.87	3.35	8.49	1.32	13.22	23.04
Header - Soybean	30' Flex	275hp	30,200	300	8	0.085	1.14	2.40	0.64	2.79	6.98	0.96	11.02	18.97
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.90	3.50	0.67	2.38	8.47	1.01	9.42	18.91
Header Wheat/Sorghum	22' Rigid	240hp	18,200	300	8	0.116	1.55	2.86	0.52	1.95	6.90	0.79	7.70	15.40
Header Wheat/Sorghum	25' Rigid	240hp	28,100	300	8	0.102	1.36	2.52	0.71	1.71	6.32	1.07	6.78	14.19
Header Wheat/Sorghum	30' Rigid	275hp	31,000	300	8	0.085	1.14	2.40	0.65	2.79	7.00	0.99	11.02	19.01
Heavy Disk	14'	MFWD 150	24,100	180	10	0.145	1.48	2.25	0.97	0.67	5.39	2.06	4.08	11.55
Heavy Disk	21'	MFWD 170	39,600	180	10	0.097	0.99	1.70	1.07	0.50	4.26	2.26	3.17	9.70
Heavy Disk	27'	MFWD 190	49,800	180	10	0.075	0.77	1.48	1.04	0.42	3.72	2.21	2.68	8.61
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.61	0.92	0.13	0.27	1.94	0.14	1.68	3.77
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.47	4.74	0.29	1.36	8.87	0.77	8.59	18.23
Land Plane	50'x16'	MFWD 190	14,600	200	10	0.151	1.54	2.96	0.44	0.85	5.80	1.16	5.37	12.34
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.09	7.72	2.64	2.32	17.77	3.64	14.01	35.43
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	1.93	2.93	0.15	0.88	5.91	0.65	5.32	11.89
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.50	1.54	0.07	0.44	2.57	0.18	2.77	5.53
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.52	4.63	0.23	1.32	7.70	0.48	8.31	16.50
Levee Splitter (1/80	2 blade	2WD 150	3,280	50	10	0.004	0.04	0.06	0.00	0.01	0.12	0.02	0.08	0.23
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.48	2.84	0.26	0.81	5.41	0.48	5.15	11.05
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.22	1.85	0.36	0.55	4.00	1.13	3.36	8.50
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.16	2.23	0.55	0.64	4.59	1.75	4.04	10.39
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.91	1.76	0.38	0.50	3.57	1.20	3.19	7.97
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.61	1.17	0.41	0.33	2.53	1.29	2.12	5.96
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.92	2.11	0.62	0.65	4.32	1.97	4.09	10.39
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.73	1.66	0.54	0.51	3.45	1.70	3.23	8.39
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.61	1.39	0.41	0.42	2.84	1.29	2.69	6.83
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.69	1.57	0.00	0.48	2.75	0.00	3.05	5.81
NT Grain Drill	12'	2WD 130	41,600	150	8	0.163	3.33	2.19	2.55	0.49	8.56	4.88	2.96	16.41
NT Grain Drill	15'	MFWD 150	49,000	150	8	0.130	2.66	2.02	2.40	0.60	7.70	4.60	3.66	15.97
NT Grain Drill	20'	MFWD 170	65,200	150	8	0.098	1.99	1.71	2.40	0.50	6.62	4.59	3.20	14.43
NT Grain Drill	24'	MFWD 190	82,400	150	8	0.081	1.66	1.60	2.52	0.46	6.25	4.83	2.89	13.99
NT Grain Drill	30'	MFWD 225	94,200	150	8	0.065	1.33	1.51	2.31	0.46	5.62	4.42	2.93	12.99
NT Grain Drill & Pre	12'	2WD 130	47,000	150	8	0.176	3.58	2.35	3.10	0.53	9.58	5.94	3.19	18.72
NT Grain Drill & Pre	15'	MFWD 150	54,400	150	8	0.141	2.87	2.17	2.87	0.65	8.58	5.50	3.95	18.03
NT Grain Drill & Pre	20'	MFWD 170	70,600	150	8	0.105	2.15	1.85	2.80	0.54	7.35	5.35	3.45	16.16
NT Grain Drill & Pre	24'	MFWD 190	87,800	150	8	0.088	1.79	1.72	2.90	0.49	6.91	5.55	3.12	15.58
NT Grain Drill & Pre	30'	MFWD 225	102,000	150	8	0.070	1.43	1.63	2.69	0.50	6.26	5.15	3.16	14.59
NT Plant&Pre-Folding	8R-38	MFWD 170	51,600	150	8	0.083	1.70	1.46	1.61	0.43	5.21	3.09	2.73	11.04

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2016.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	---P.U. Direct	---Fixed--- Imp.	---P.U. Total Cost
			dollars	hours	years	hr/ac	---\$/acre---					
NT Grain Drill & Pre	15'	MFWD 150	54,400	150	8	0.141	2.87	2.17	2.87	0.65	8.58	5.50 3.95 18.03
NT Grain Drill & Pre	20'	MFWD 170	70,600	150	8	0.105	2.15	1.85	2.80	0.54	7.35	5.35 3.45 16.16
NT Grain Drill & Pre	24'	MFWD 190	87,800	150	8	0.088	1.79	1.72	2.90	0.49	6.91	5.55 3.12 15.58
NT Grain Drill & Pre	30'	MFWD 225	102,000	150	8	0.070	1.43	1.63	2.69	0.50	6.26	5.15 3.16 14.59
NT Plant&Pre-Folding	8R-38	MFWD 170	51,600	150	8	0.083	1.70	1.46	1.61	0.43	5.21	3.09 2.73 11.04
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	84,200	150	8	0.055	1.13	0.97	1.75	0.28	4.15	3.36 1.81 9.33
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.72	1.65	1.82	0.47	5.68	3.49 2.99 12.17
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.35	1.30	1.32	0.37	4.36	2.53 2.36 9.25
NT Plant&Pre-Folding	12R-20	MFWD 190	73,000	150	8	0.105	2.15	2.06	2.89	0.59	7.71	5.53 3.74 16.99
NT Plant&Pre-Folding	12R-30	MFWD 190	75,900	150	8	0.070	1.43	1.37	2.00	0.39	5.21	3.83 2.49 11.55
NT Plant&Pre-Folding	12R-38	MFWD 190	84,200	150	8	0.055	1.13	1.08	1.75	0.31	4.29	3.36 1.97 9.62
NT Plant&Pre-Folding	16R-30	MFWD 190	102,000	150	8	0.052	1.07	1.03	2.02	0.29	4.43	3.86 1.87 10.17
NT Plant&Pre-Folding	23R-15	MFWD 190	129,000	150	8	0.073	1.49	1.43	3.55	0.41	6.89	6.79 2.60 16.29
NT Plant&Pre-Folding	24R-20	MFWD 190	158,000	150	8	0.052	1.07	1.03	3.13	0.29	5.54	5.99 1.87 13.40
NT Plant&Pre-Folding	24R-30	MFWD 190	185,000	150	8	0.035	0.71	0.68	2.44	0.19	4.05	4.67 1.24 9.97
NT Plant&Pre-Rigid	4R-30	2WD 130	27,100	150	8	0.211	4.30	2.83	2.14	0.63	9.92	4.11 3.83 17.86
NT Plant&Pre-Rigid	4R-38	2WD 130	29,700	150	8	0.166	3.39	2.22	1.85	0.50	7.97	3.54 3.01 14.54
NT Plant&Pre-Rigid	6R-30	MFWD 150	38,200	150	8	0.141	2.87	2.17	2.02	0.65	7.72	3.86 3.95 15.54
NT Plant&Pre-Rigid	6R-38	MFWD 150	34,200	150	8	0.111	2.26	1.71	1.42	0.51	5.93	2.73 3.11 11.78
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.92	2.51	1.41	0.74	7.60	2.70 4.70 15.01
NT Plant&Pre-Rigid	8R-30	MFWD 170	43,600	150	8	0.105	2.15	1.85	1.72	0.54	6.28	3.30 3.45 13.04
NT Plant&Pre-Rigid	8R-38	MFWD 170	41,300	150	8	0.077	1.57	1.35	1.19	0.40	4.51	2.28 2.52 9.32
NT Plant&Pre-Rigid	10R-30	MFWD 190	49,000	150	8	0.084	1.72	1.65	1.55	0.47	5.40	2.97 2.99 11.37
NT Plant&Pre-Rigid	12R-20	MFWD 190	53,000	150	8	0.105	2.15	2.06	2.10	0.59	6.91	4.02 3.74 14.68
NT Plant&Pre-Rigid	12R-30	MFWD 190	69,300	150	8	0.070	1.43	1.37	1.83	0.39	5.04	3.50 2.49 11.04
Paratill & Bed	4R-30	MFWD 225	16,500	150	12	0.204	2.08	4.73	1.21	1.45	9.48	2.11 9.16 20.76
Paratill & Bed	4R-38	MFWD 225	15,200	150	12	0.160	1.63	3.72	0.88	1.14	7.39	1.53 7.21 16.14
Paratill & Bed	6R-30	MFWD 225	22,600	150	12	0.136	1.38	3.15	1.11	0.97	6.62	1.92 6.11 14.66
Paratill & Bed	6R-38	MFWD 225	20,300	150	12	0.107	1.09	2.49	0.78	0.76	5.14	1.36 4.82 11.33
Paratill & Bed	8R-30	MFWD 225	28,100	150	12	0.102	1.04	2.36	1.03	0.72	5.17	1.79 4.58 11.55
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.54	1.24	1.34	0.38	3.51	2.32 2.41 8.25
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.82	1.87	1.58	0.57	4.85	2.75 3.62 11.23
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.54	1.24	1.34	0.38	3.51	2.32 2.41 8.25
Paratill & Bed Rigid	8R-38	MFWD 225	24,900	150	12	0.080	0.82	1.87	0.72	0.57	3.99	1.25 3.62 8.87
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.52	0.79	0.00	0.17	1.51	0.02 1.05 2.58
Pipe Spool 160ac	1/4m roll	2WD 130	3,640	15	12	0.003	0.08	0.04	0.00	0.00	0.14	0.07 0.05 0.27
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.17	0.05	0.00	0.01	0.23	0.00 0.06 0.30
Plant & Pre Folding	8R-38	MFWD 170	48,000	150	8	0.080	1.63	1.40	1.44	0.41	4.90	2.76 2.62 10.28
Plant & Pre Folding	8R38 2x1	MFWD 170	78,800	150	8	0.053	1.08	0.93	1.57	0.27	3.87	3.02 1.74 8.64
Plant & Pre Folding	10R-30	MFWD 190	52,920	150	8	0.081	1.65	1.58	1.61	0.45	5.31	3.08 2.87 11.27
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.30	1.25	1.15	0.36	4.07	2.21 2.26 8.56
Plant & Pre Folding	12R-20	MFWD 190	67,600	150	8	0.101	2.06	1.98	2.57	0.57	7.19	4.92 3.59 15.71
Plant & Pre Folding	12R-30	MFWD 190	70,500	150	8	0.067	1.37	1.32	1.78	0.38	4.87	3.42 2.39 10.69
Plant & Pre Folding	12R-38	MFWD 190	78,800	150	8	0.053	1.08	1.04	1.57	0.30	4.01	3.02 1.89 8.92
Plant & Pre Folding	16R-30	MFWD 190	95,100	150	8	0.050	1.03	0.99	1.81	0.28	4.12	3.46 1.79 9.38
Plant & Pre Folding	23R-15	MFWD 190	126,000	150	8	0.070	1.43	1.37	3.33	0.39	6.54	6.37 2.49 15.41
Plant & Pre Folding	24R-20	MFWD 190	147,000	150	8	0.050	1.03	0.99	2.79	0.28	5.11	5.35 1.79 12.26
Plant & Pre Folding	24R-30	MFWD 190	182,000	150	8	0.033	0.68	0.66	2.30	0.19	3.85	4.41 1.19 9.46
Plant & Pre Rigid	4R-30	2WD 130	25,300	150	8	0.203	4.13	2.71	1.92	0.61	9.39	3.68 3.67 16.75
Plant & Pre Rigid	4R-38	2WD 130	27,900	150	8	0.159	3.25	2.13	1.67	0.48	7.54	3.20 2.89 13.64
Plant & Pre Rigid	6R-30	MFWD 150	35,500	150	8	0.135	2.75	2.09	1.80	0.63	7.27	3.44 3.79 14.52
Plant & Pre Rigid	6R-38	MFWD 150	31,500	150	8	0.106	2.17	1.65	1.26	0.49	5.58	2.41 2.99 10.99
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.81	2.41	1.22	0.71	7.16	2.33 4.51 14.01
Plant & Pre Rigid	8R-30	MFWD 170	40,000	150	8	0.101	2.06	1.77	1.52	0.52	5.89	2.91 3.31 12.12
Plant & Pre Rigid	8R-38	MFWD 170	37,700	150	8	0.080	1.63	1.40	1.13	0.41	4.59	2.17 2.62 9.38
Plant & Pre Rigid	10R-30	MFWD 190	44,500	150	8	0.081	1.65	1.58	1.35	0.45	5.05	2.59 2.87 10.52
Plant & Pre Rigid	12R-20	MFWD 190	47,600	150	8	0.101	2.06	1.98	1.81	0.57	6.43	3.46 3.59 13.50
Plant & Pre Rigid	12R-30	MFWD 190	63,900	150	8	0.067	1.37	1.32	1.62	0.38	4.70	3.10 2.39 10.20
Plant - Folding	8R-38	MFWD 170	42,600	150	8	0.074	1.51	1.30	1.19	0.38	4.39	2.27 2.43 9.11
Plant - Folding	8R-38 2x1	MFWD 170	71,100	150	8	0.049	1.01	0.86	1.32	0.25	3.45	2.53 1.62 7.61
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.53	1.47	1.34	0.42	4.77	2.56 2.67 10.01
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.21	1.16	0.95	0.33	3.66	1.83 2.10 7.61
Plant - Folding	12R-20	MFWD 190	62,200	150	8	0.094	1.91	1.84	2.19	0.53	6.49	4.20 3.33 14.03
Plant - Folding	12R-30	MFWD 190	62,800	150	8	0.062	1.27	1.22	1.48	0.35	4.34	2.83 2.22 9.40
Plant - Folding	12R-38	MFWD 190	71,100	150	8	0.049	1.01	0.97	1.32	0.27	3.58	2.53 1.75 7.87
Plant - Folding	16R-30	MFWD 190	87,400	150	8	0.047	0.95	0.92	1.54	0.26	3.69	2.95 1.66 8.31
Plant - Folding	23R-15	MFWD 190	118,000	150	8	0.065	1.33	1.28	2.89	0.36	5.87	5.54 2.31 13.74
Plant - Folding	24R-20	MFWD 190	140,000	150	8	0.047	0.95	0.92	2.47	0.26	4.62	4.73 1.66 11.02
Plant - Folding	24R-30	MFWD 190	165,000	150	8	0.031	0.63	0.61	1.94	0.17	3.37	3.71 1.11 8.20
Plant - Rigid	4R-30	2WD 130	19,900	150	8	0.188	3.83	2.52	1.40	0.56	8.33	2.69 3.41 14.44
Plant - Rigid	4R-38	2WD 130	22,500	150	8	0.148	3.02	1.98	1.25	0.44	6.70	2.39 2.68 11.79
Plant - Rigid	6R-30	MFWD 150	30,100	150	8	0.125	2.55	1.94	1.41	0.58	6.50	2.71 3.52 12.74
Plant - Rigid	6R-38	MFWD 150	26,200	150	8	0.099	2.02	1.53	0.97	0.46	4.99	1.86 2.78 9.63
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.60	2.23	0.88	0.66	6.39	1.69 4.17 12.26
Plant - Rigid	8R-30	MFWD 170	34,600	150	8	0.094	1.91	1.65	1.22	0.48	5.28	2.34 3.07 10.70
Plant - Rigid	8R-38	MFWD 170	32,300	150	8	0.074	1.51	1.30	0.90	0.38	4.11	1.72 2.43 8.27
Plant - Rigid	10R-30	MFWD 190	37,600	150	8	0.075	1.53	1.47	1.06	0.42	4.49	2.03 2.67 9.20
Plant - Rigid	12R-20	MFWD 190	42,200	150	8	0.094	1.91	1.84	1.49	0.53	5.78	2.85 3.33 11.97
Plant - Rigid	12R-30	MFWD 190	56,200	150	8	0.062	1.27	1.22	1.32	0.35	4.18	2.53 2.22 8.94
Plant - Rigid	15R-15	2WD 150	53,500	150	8	0.094	1.91	1.45	1.89	0.31	5.58	3.61 1.91 11.11
Pull Levee (1m/80a)	4 blade	2WD 50	3,180	100	10	0.003	0.03	0.01	0.00	0.00	0.05	0.01 0.01 0.08

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2016.

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Rice Grain Cart	500 Bu	MFWD 190	23,700	200	12	0.057	0.58	1.11	0.36	0.32	2.38	0.63	2.02	5.04
Rice Grain Cart	700 Bu	MFWD 190	36,600	200	12	0.063	0.64	1.24	0.62	0.35	2.87	1.09	2.24	6.21
Roller	32'	MFWD 170	17,500	100	12	0.046	0.47	0.81	0.13	0.24	1.66	0.76	1.52	3.96
Rotary Cutter	7'	MFWD 130	4,100	185	10	0.168	1.71	2.25	0.55	0.61	5.13	0.39	3.67	9.20
Rotary Cutter	12'	2WD 150	12,000	185	10	0.098	0.99	1.51	0.95	0.33	3.80	0.67	1.99	6.47
Rotary Cutter	15'	MFWD 150	19,000	185	10	0.078	0.79	1.21	1.21	0.36	3.58	0.85	2.20	6.64
Row Cond & Inc	13'	2WD 130	13,100	100	10	0.137	2.10	1.84	0.45	0.41	4.81	1.90	2.49	9.22
Row Cond & Inc	21'	2WD 170	16,500	100	10	0.085	1.30	1.49	0.35	0.41	3.56	1.48	2.62	7.67
Row Cond & Inc	26'	MFWD 190	19,400	100	10	0.063	0.96	1.24	0.30	0.35	2.87	1.29	2.24	6.41
Row Cond & Inc	38'	MFWD 225	27,100	100	10	0.047	0.72	1.09	0.31	0.33	2.46	1.35	2.11	5.93
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.61	0.93	0.20	0.28	2.03	0.86	1.80	4.70
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.16	1.53	0.20	0.34	3.26	0.88	2.08	6.22
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.72	1.24	0.21	0.34	2.52	0.90	2.18	5.61
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.58	1.12	0.17	0.32	2.20	0.75	2.03	4.99
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.40	0.91	0.21	0.28	1.80	0.92	1.76	4.49
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.36	0.82	0.13	0.25	1.57	0.58	1.59	3.75
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.60	2.10	0.27	0.47	4.45	1.18	2.84	8.48
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	0.99	1.70	0.28	0.47	3.45	1.20	2.98	7.64
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.80	1.53	0.24	0.44	3.02	1.02	2.78	6.83
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.54	1.24	0.22	0.38	2.39	0.94	2.41	5.75
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.49	1.12	0.18	0.34	2.15	0.80	2.18	5.14
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.04	1.80	1.02	0.50	4.38	1.04	3.16	8.59
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.69	1.34	0.98	0.30	3.34	1.00	1.93	6.27
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.31	2.25	1.28	0.62	5.47	1.30	3.95	10.73
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.87	1.68	1.23	0.38	4.17	1.25	2.41	7.84
RT Cult + PD (Early)	8R-30	2WD 150	26,264	200	12	0.110	1.67	1.69	1.38	0.37	5.13	1.40	2.23	8.77
RT Cult + PD (Early)	12R-30	MFWD 225	35,493	200	12	0.073	1.11	1.69	1.24	0.52	4.58	1.26	3.29	9.14
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.09	2.40	1.73	0.67	6.90	1.75	4.22	12.88
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.39	1.79	1.55	0.40	5.16	1.57	2.57	9.32
Spin Spreader	5 ton	MFWD 190	12,200	100	8	0.042	0.85	0.82	0.28	0.23	2.20	0.57	1.49	4.27
Spin Spreader	5 ton	MFWD 190	12,200	100	8	0.042	0.85	0.82	0.28	0.23	2.20	0.57	1.49	4.27
Spray (Band)	27'	MFWD 170	5,390	200	8	0.062	0.95	1.09	0.15	0.32	2.53	0.19	2.04	4.77
Spray (Band)	40'	MFWD 170	7,700	200	8	0.042	0.64	0.74	0.15	0.21	1.75	0.18	1.38	3.32
Spray (Band)	50'	MFWD 170	6,800	200	8	0.033	0.51	0.59	0.10	0.17	1.39	0.12	1.10	2.62
Spray (Band)	53'	MFWD 170	9,300	200	8	0.031	0.48	0.55	0.13	0.16	1.35	0.16	1.04	2.56
Spray (Band)	60'	MFWD 170	18,400	200	8	0.028	0.43	0.49	0.24	0.14	1.31	0.29	0.92	2.52
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,380	200	8	0.130	1.98	2.01	0.32	0.60	4.93	0.39	3.64	8.97
Spray (Bcast/HB)	20' Rigid	2WD 50	6,340	200	8	0.084	1.29	0.43	0.25	0.04	2.02	0.30	0.29	2.62
Spray (Bcast/HB)	27' Fold	MFWD 170	13,200	200	8	0.062	0.95	1.09	0.38	0.32	2.76	0.46	2.04	5.28
Spray (Bcast/HB)	27' Rigid	MFWD 170	7,680	200	8	0.062	0.95	1.09	0.22	0.32	2.60	0.27	2.04	4.92
Spray (Bcast/HB)	30' Fold	MFWD 170	20,300	200	8	0.056	0.86	0.98	0.53	0.29	2.67	0.64	1.84	5.16
Spray (Bcast/HB)	40' Fold	MFWD 170	21,000	200	8	0.042	0.64	0.74	0.41	0.21	2.02	0.50	1.38	3.90
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	0.95	1.09	0.65	0.32	3.03	0.79	2.04	5.87
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.64	0.74	0.63	0.21	2.24	0.76	1.38	4.39
Spray (Broadcast)	27'	MFWD 170	5,390	200	8	0.062	0.95	1.09	0.15	0.32	2.53	0.19	2.04	4.77
Spray (Broadcast)	40'	MFWD 170	7,700	200	8	0.042	0.64	0.74	0.15	0.21	1.75	0.18	1.38	3.32
Spray (Broadcast)	50'	MFWD 170	6,800	200	8	0.033	0.51	0.59	0.10	0.17	1.39	0.12	1.10	2.62
Spray (Broadcast)	53'	MFWD 170	9,300	200	8	0.031	0.48	0.55	0.13	0.16	1.35	0.16	1.04	2.56
Spray (Broadcast)	60'	MFWD 170	18,400	200	8	0.028	0.43	0.49	0.24	0.14	1.31	0.29	0.92	2.52
Spray (Direct/Hood)	8R-30	MFWD 170	18,000	200	8	0.084	1.29	1.48	0.71	0.43	3.92	0.85	2.76	7.54
Spray (Direct/Hood)	8R-38	MFWD 170	24,900	200	8	0.066	1.02	1.17	0.78	0.34	3.31	0.93	2.18	6.44
Spray (Direct/Hood)	12R-30	MFWD 170	26,100	200	8	0.056	0.86	0.98	0.69	0.29	2.83	0.83	1.84	5.50
Spray (Direct/Hood)	12R-38	MFWD 170	26,600	200	8	0.044	0.67	0.77	0.55	0.23	2.24	0.66	1.45	4.36
Spray (Direct/Layby)	8R-30	MFWD 170	9,000	200	8	0.084	1.29	1.48	0.35	0.43	3.56	0.42	2.76	6.76
Spray (Direct/Layby)	8R-38	MFWD 170	9,000	200	8	0.066	1.02	1.17	0.28	0.34	2.82	0.33	2.18	5.34
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	12,400	200	8	0.044	0.67	0.77	0.25	0.23	1.94	0.31	1.45	3.71
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.03	1.18	0.38	0.35	2.95	0.46	2.21	5.63
Spray (Direct/Layby)	12R-30	MFWD 170	12,500	200	8	0.056	0.86	0.98	0.33	0.29	2.47	0.39	1.84	4.71
Spray (Direct/Layby)	12R-38	MFWD 170	12,400	200	8	0.044	0.67	0.77	0.25	0.23	1.94	0.31	1.45	3.71
Spray (Direct/Layby)	16R-20	MFWD 170	10,000	200	8	0.063	0.96	1.10	0.29	0.32	2.70	0.35	2.07	5.13
Spray (Spot)	27'	MFWD 170	5,390	200	8	0.062	0.95	1.09	0.15	0.32	2.53	0.19	2.04	4.77
Spray (Spot)	40'	MFWD 170	7,700	200	8	0.042	0.64	0.74	0.15	0.21	1.75	0.18	1.38	3.32
Spray (Spot)	50'	MFWD 170	7,420	200	8	0.033	0.51	0.59	0.11	0.17	1.40	0.14	1.10	2.65
Spray (Spot)	53'	MFWD 170	9,300	200	8	0.031	0.48	0.55	0.13	0.16	1.35	0.16	1.04	2.56
Spray (Spot)	60'	MFWD 170	18,400	200	8	0.028	0.43	0.49	0.24	0.14	1.31	0.29	0.92	2.52
Stalk Shredder	14'	MFWD 150	13,100	200	10	0.117	1.19	1.81	1.35	0.54	4.91	0.81	3.30	9.03
Stalk Shredder	20'	MFWD 150	30,200	200	10	0.082	0.83	1.27	2.18	0.38	4.67	1.31	2.31	8.30
Stalk Shredder-Flail	12'	MFWD 150	15,100	200	10	0.137	1.39	2.12	1.81	0.64	5.97	1.09	3.85	10.92
Stalk Shredder-Flail	20'	MFWD 150	27,300	200	10	0.082	0.83	1.27	1.97	0.38	4.46	1.18	2.31	7.97
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	2.08	3.99	0.24	1.14	7.46	0.59	7.23	15.30
Subsoiler	4 shank	MFWD 225	8,330	100	15	0.153	1.56	3.55	0.42	1.09	6.64	1.05	6.89	14.59
Subsoiler	5 shank	MFWD 225	13,800	100	15	0.122	1.24	2.83	0.56	0.87	5.51	1.39	5.48	12.39
Subsoiler low-till	4 shank	MFWD 225	12,000	100	15	0.153	1.56	3.55	0.61	1.09	6.83	1.51	6.89	15.24
Subsoiler low-till	6 shank	MFWD 225	16,600	100	15	0.102	1.04	2.36	0.56	0.72	4.69	1.39	4.58	10.68
Subsoiler low-till	8 shank	MFWD 225	22,200	100	15	0.076	0.77	1.77	0.56	0.54	3.66	1.40	3.43	8.49
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.63	3.72	0.83	1.14	7.34	1.44	7.21	16.00

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2016.

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-----							
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.09	2.49	0.75	0.76	5.10	1.30	4.82	11.23
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.08	4.73	1.05	1.45	9.32	1.83	9.16	20.32
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.38	3.15	0.75	0.97	6.26	1.30	6.11	13.68
Boll Buggy-1st Pick	2R38*157hp	MFWD 190	26,200	200	10	0.519	5.29	10.16	3.40	2.92	21.78	6.92	18.40	47.10
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.75	3.37	1.31	0.96	7.40	2.67	6.10	16.18
Boll Buggy-1st pick	4R30*255hp	MFWD 190	26,200	200	10	0.327	3.33	6.40	2.14	1.84	13.72	4.36	11.59	29.67
Boll Buggy-1st pick	4R30*325hp	MFWD 190	30,600	200	10	0.327	3.33	6.40	2.50	1.84	14.08	5.09	11.59	30.77
Boll Buggy-1st pick	4R38*255hp	MFWD 190	30,600	200	10	0.257	2.62	5.04	1.97	1.45	11.08	4.01	9.13	24.22
Boll Buggy-1st pick	4R38*325hp	MFWD 190	30,500	200	10	0.257	2.62	5.04	1.96	1.45	11.08	3.99	9.13	24.20
Boll Buggy-1st pick	5R30*255hp	MFWD 190	30,600	200	10	0.261	2.66	5.12	2.00	1.47	11.26	4.07	9.27	24.61
Boll Buggy-1st pick	5R38*255hp	MFWD 190	30,600	200	10	0.207	2.10	4.05	1.58	1.16	8.91	3.22	7.33	19.47
Boll Buggy-1st pick	6R30*325hp	MFWD 190	30,500	200	10	0.218	2.22	4.26	1.66	1.22	9.38	3.38	7.73	20.49
Boll Buggy-1st pick	6R38*325hp	MFWD 190	30,500	200	10	0.172	1.75	3.37	1.31	0.96	7.40	2.67	6.10	16.18
Boll Buggy-2nd pick	2R38*157hp	MFWD 190	30,600	200	10	0.440	4.48	8.60	3.36	2.47	18.93	6.84	15.59	41.37
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.48	2.85	1.11	0.82	6.27	2.26	5.16	13.70
Boll Buggy-2nd pick	4R30*255hp	MFWD 190	30,600	200	10	0.277	2.82	5.42	2.12	1.55	11.92	4.31	9.82	26.06
Boll Buggy-2nd pick	4R30*325hp	MFWD 190	30,600	200	10	0.277	2.82	5.42	2.12	1.55	11.92	4.31	9.82	26.06
Boll Buggy-2nd pick	4R38*325hp	MFWD 190	30,500	200	10	0.218	2.22	4.27	1.66	1.22	9.38	3.38	7.73	20.50
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.22	4.27	1.66	1.22	9.38	3.38	7.73	20.50
Boll Buggy-2nd pick	5R30*255hp	MFWD 190	30,600	200	10	0.221	2.25	4.33	1.69	1.24	9.54	3.45	7.85	20.85
Boll Buggy-2nd pick	5R38*255hp	MFWD 190	30,600	200	10	0.175	1.78	3.43	1.34	0.98	7.54	2.73	6.21	16.49
Boll Buggy-2nd pick	6R30*325hp	MFWD 190	30,500	200	10	0.184	1.88	3.61	1.40	1.03	7.94	2.86	6.54	17.36
Boll Buggy-2nd pick	6R38*325hp	MFWD 190	30,500	200	10	0.145	1.48	2.85	1.11	0.82	6.27	2.26	5.16	13.70
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,600	200	10	0.251	2.56	3.88	1.92	1.17	9.55	3.91	7.05	20.52
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,600	200	10	0.204	2.08	3.15	1.56	0.95	7.76	3.18	5.73	16.67
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,600	200	10	0.172	1.75	2.66	1.31	0.80	6.53	2.68	4.82	14.04
Boll Buggy-Stripper	4R30*2X1Br	MFWD 150	30,600	200	10	0.218	2.22	3.37	1.66	1.01	8.27	3.39	6.11	17.78
Boll Buggy-Stripper	4R30*Brush	MFWD 150	30,600	200	10	0.327	3.33	5.05	2.50	1.52	12.41	5.09	9.17	26.68
Boll Buggy-Stripper	4R38*2X1Br	MFWD 150	30,600	200	10	0.172	1.75	2.66	1.31	0.80	6.53	2.68	4.82	14.04
Boll Buggy-Stripper	4R38*Brush	MFWD 150	30,600	200	10	0.257	2.62	3.98	1.97	1.20	9.77	4.01	7.22	21.01
Boll Buggy-Stripper	5R30*Brush	MFWD 150	30,600	200	10	0.261	2.66	4.04	2.00	1.21	9.93	4.07	7.33	21.34
Boll Buggy-Stripper	5R38*Brush	MFWD 150	30,600	200	10	0.207	2.10	3.19	1.58	0.96	7.85	3.22	5.80	16.88
Boll Buggy-Stripper	6R30*Brush	MFWD 150	30,600	200	10	0.218	2.22	3.37	1.66	1.01	8.27	3.39	6.11	17.78
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	10.58	10.16	4.06	2.92	27.73	8.26	18.40	54.40
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	6.66	6.40	2.84	1.84	17.75	5.77	11.59	35.12
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	6.66	6.40	2.84	1.84	17.75	5.77	11.59	35.12
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.24	5.04	2.23	1.45	13.97	4.54	9.13	27.65
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.24	5.04	2.23	1.45	13.97	4.54	9.13	27.65
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.50	3.37	1.49	0.96	9.34	3.03	6.10	18.48
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.33	5.12	2.27	1.47	14.20	4.62	9.27	28.09
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.21	4.05	1.79	1.16	11.23	3.65	7.33	22.22
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.44	4.26	1.89	1.22	11.83	3.85	7.73	23.41
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.50	3.37	1.49	0.96	9.34	3.03	6.10	18.48
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	8.96	8.60	3.81	2.47	23.86	7.76	15.59	47.22
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.64	5.42	2.40	1.55	15.03	4.89	9.82	29.75
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	5.64	5.42	2.40	1.55	15.03	4.89	9.82	29.75
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.44	4.27	1.89	1.22	11.83	3.85	7.73	23.42
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	4.44	4.27	1.89	1.22	11.83	3.85	7.73	23.42
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	2.97	2.85	1.26	0.82	7.91	2.57	5.16	15.65
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	4.51	4.33	1.92	1.24	12.02	3.91	7.85	23.80
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.57	3.43	1.52	0.98	9.51	3.09	6.21	18.82
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	3.76	3.61	1.60	1.03	10.02	3.26	6.54	19.83
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	2.97	2.85	1.26	0.82	7.91	2.57	5.16	15.65
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.12	3.88	2.18	1.17	12.37	4.44	7.05	23.87
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.16	3.15	1.77	0.95	10.05	3.60	5.73	19.39
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.50	2.66	1.49	0.80	8.46	3.03	4.82	16.33
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.66	5.05	2.84	1.52	16.08	5.77	9.17	31.03
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.44	3.37	1.89	1.01	10.72	3.85	6.11	20.68
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.24	3.98	2.23	1.20	12.66	4.54	7.22	24.43
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.50	2.66	1.49	0.80	8.46	3.03	4.82	16.33
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.33	4.04	2.27	1.21	12.86	4.62	7.33	24.82
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.21	3.19	1.79	0.96	10.18	3.65	5.80	19.64
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.44	3.37	1.89	1.01	10.72	3.85	6.11	20.68