

Projected Costs and Returns Crop Enterprise Budgets for Corn Production in Louisiana, 2019

Michael A. Deliberto and Brian M. Hilbun



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CORN ENTERPRISE BUDGETS:

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PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR CORN PRODUCTION IN LOUISIANA, 2019

by

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Introduction

This publication presents estimates of projected costs and returns for corn production in Louisiana for the 2019 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 2019 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 2019 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 \$10.73 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 6.00% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$2.50 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 6.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

Overhead costs reflect significant expenses associated with the operation of the entire farm business, but are not necessarily

attributable to a specific crop enterprise. Examples of farm overhead costs include tax services, record keeping, utilities, farmstead maintenance, and insurance and property taxes where applicable. General farm overhead costs can vary greatly from farm to farm based on many factors including farm size, land tenure and crop production technology utilized. As the primary purpose of this report is to estimate production costs associated with a specific commodity, no charges for general farm overhead are included.

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars dollars		dollars dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	180.0000	77.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Karate Z	oz	1.02	2.1300	2.17	_____
Intrepid 2F	oz	1.80	6.0000	10.80	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	32.0000	100.16	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
LA Hired Labor					
Implements	hour	10.73	0.1611	1.73	_____
Tractors	hour	10.73	0.5819	6.23	_____
DIESEL FUEL					
Tractors	gal	2.50	5.3318	13.32	_____
Harvesters	gal	2.50	1.6602	4.15	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.08	1.0000	8.08	_____
Tractors	Acre	2.86	1.0000	2.86	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	13.84	1.0000	13.84	_____
TOTAL DIRECT EXPENSES				435.71	_____
FIXED EXPENSES					
Implements	Acre	13.65	1.0000	13.65	_____
Tractors	Acre	19.61	1.0000	19.61	_____
Harvesters	Acre	9.73	1.0000	9.73	_____
TOTAL FIXED EXPENSES				42.99	_____
TOTAL SPECIFIED EXPENSES				478.70	_____

Table 1.B Estimated resource use and costs for field operations, per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.34	1.00	0.07	0.80				7.16
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.13	2.56	1.31	2.78	0.16	1.72				10.50
Corn Seed RR	thous											32.0000	3.13	100.16	100.16
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Nitrogen	lb											150.0000	0.43	64.50	64.50
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.02	2.17	2.17
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	1.80	10.80	10.80
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.41	9.73	1.64	2.72	0.13	1.82				22.32
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu											160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
TOTALS						22.59	29.34	8.08	13.65	0.87	9.78			381.42	464.86
INTEREST ON OPERATING CAPITAL															13.84
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															478.70

Table 1.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.95	2.06	2.19	2.34	2.51	2.72	2.97	3.29	3.70	4.25	5.01
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-244	-236	-225	-214	-200	-183	-163	-137	-104	-61	0
			-287	-279	-268	-257	-243	-226	-206	-180	-147	-104	-42
60	96.00	bu	-220	-209	-197	-183	-166	-146	-122	-91	-52	0	73
			-263	-252	-240	-226	-209	-189	-165	-134	-95	-42	30
70	112.00	bu	-195	-183	-169	-152	-133	-110	-81	-45	0	61	146
			-238	-226	-212	-195	-176	-153	-124	-88	-42	18	103
80	128.00	bu	-171	-157	-141	-122	-100	-73	-40	0	52	122	220
			-214	-200	-184	-165	-143	-116	-83	-42	9	79	177
90	144.00	bu	-146	-131	-112	-91	-66	-36	0	45	104	183	293
			-189	-174	-155	-134	-109	-79	-42	2	61	140	250
100	160.00	bu	-122	-104	-84	-61	-33	0	40	91	157	244	367
			-165	-147	-127	-104	-76	-42	-2	48	114	201	324
110	176.00	bu	-97	-78	-56	-30	0	36	81	137	209	305	440
			-140	-121	-99	-73	-42	-6	38	94	166	262	397
120	192.00	bu	-73	-52	-28	0	33	73	122	183	262	367	514
			-116	-95	-71	-42	-9	30	79	140	219	324	471
130	208.00	bu	-48	-26	0	30	66	110	163	229	314	428	587
			-91	-69	-42	-12	23	67	120	186	271	385	544
140	224.00	bu	-24	0	28	61	100	146	203	275	367	489	660
			-67	-42	-14	18	57	103	160	232	324	446	617
150	240.00	bu	0	26	56	91	133	183	244	321	419	550	734
			-42	-16	13	48	90	140	201	278	376	507	691

The top number in each cell is Returns Above Direct Expenses.
 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
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.13	2.25	2.40	2.56	2.75	2.99	3.27	3.63	4.09	4.70	5.55
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-230	-220	-209	-196	-180	-162	-139	-110	-74	-25	42
			-273	-263	-252	-239	-223	-205	-182	-153	-117	-68	0
60	96.00	bu	-203	-191	-177	-162	-143	-121	-93	-59	-15	42	125
			-246	-234	-220	-205	-186	-164	-136	-102	-58	0	82
70	112.00	bu	-175	-162	-146	-127	-106	-80	-48	-8	42	111	207
			-218	-205	-189	-170	-149	-123	-91	-51	0	68	164
80	128.00	bu	-148	-132	-114	-93	-68	-39	-2	42	101	179	289
			-191	-175	-157	-136	-111	-82	-45	0	58	136	246
90	144.00	bu	-121	-103	-83	-59	-31	1	42	94	160	248	371
			-164	-146	-126	-102	-74	-41	0	51	117	205	328
100	160.00	bu	-93	-74	-51	-25	5	42	88	145	218	316	453
			-136	-117	-94	-68	-37	0	45	102	175	273	410
110	176.00	bu	-66	-44	-20	8	42	84	134	196	277	384	535
			-109	-87	-63	-34	0	41	91	153	234	341	492
120	192.00	bu	-39	-15	11	42	80	125	179	248	335	453	617
			-82	-58	-31	0	37	82	136	205	292	410	574
130	208.00	bu	-11	13	42	77	117	166	225	299	394	521	699
			-54	-29	0	34	74	123	182	256	351	478	656
140	224.00	bu	15	42	74	111	154	207	270	350	453	589	781
			-27	0	31	68	111	164	227	307	410	546	738
150	240.00	bu	42	72	106	145	192	248	316	401	511	658	863
			0	29	63	102	149	205	273	358	468	615	820

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
 Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	210.0000	90.30	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Karate Z	oz	1.02	2.1300	2.17	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	35.0000	109.55	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.73	0.1611	1.73	_____
Tractors	hour	10.73	0.8812	9.44	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	8.2204	20.54	_____
Harvesters	gal	2.50	1.6602	4.15	_____
Roll-Out Pipe Irr.	gal	2.50	8.5535	21.39	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.57	1.0000	8.57	_____
Tractors	Acre	4.47	1.0000	4.47	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	15.71	1.0000	15.71	_____

TOTAL DIRECT EXPENSES				512.41	_____
FIXED EXPENSES					
Implements	Acre	15.05	1.0000	15.05	_____
Tractors	Acre	30.72	1.0000	30.72	_____
Harvesters	Acre	9.73	1.0000	9.73	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				112.08	_____

TOTAL SPECIFIED EXPENSES				624.49	_____

Table 2.B Estimated resource use and costs for field operations, per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.34	1.00	0.07	0.80				7.16
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.13	2.56	1.31	2.78	0.16	1.72				10.50
Corn Seed RR	thous											35.0000	3.13	109.55	109.55
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Nitrogen	lb											180.0000	0.43	77.40	77.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.02	2.17	2.17
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.41	9.73	1.64	2.72	0.13	1.82				22.32
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.18	0.24	0.06	0.12	0.00	0.07				0.67
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	28.71	57.86	0.44	4.82	1.0000		8.25	119.16
TOTALS						31.42	40.45	36.85	71.63	1.33	14.67			413.76	608.78
INTEREST ON OPERATING CAPITAL															15.71
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															624.49

Table 2.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.94	2.04	2.17	2.31	2.49	2.69	2.94	3.26	3.66	4.20	4.96
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-287	-277	-265	-251	-235	-215	-191	-161	-123	-71	0
			-399	-389	-377	-363	-347	-327	-303	-273	-235	-183	-112
60	114.00	bu	-258	-246	-232	-215	-195	-172	-143	-107	-61	0	86
			-370	-358	-344	-327	-307	-284	-255	-219	-173	-112	-25
70	133.00	bu	-229	-215	-198	-179	-156	-129	-95	-53	0	71	172
			-341	-327	-311	-291	-268	-241	-207	-165	-112	-40	60
80	152.00	bu	-201	-184	-165	-143	-117	-86	-47	0	61	143	258
			-313	-296	-277	-255	-229	-198	-159	-112	-50	31	146
90	171.00	bu	-172	-153	-132	-107	-78	-43	0	53	123	215	344
			-284	-266	-244	-219	-190	-155	-112	-58	11	103	232
100	190.00	bu	-143	-123	-99	-71	-39	0	47	107	184	287	431
			-255	-235	-211	-183	-151	-112	-64	-4	72	175	318
110	209.00	bu	-114	-92	-66	-35	0	43	95	161	246	359	517
			-227	-204	-178	-147	-112	-68	-16	49	134	247	405
120	228.00	bu	-86	-61	-33	0	39	86	143	215	307	431	603
			-198	-173	-145	-112	-72	-25	31	103	195	318	491
130	247.00	bu	-57	-30	0	35	78	129	191	269	369	502	689
			-169	-142	-112	-76	-33	17	79	157	257	390	577
140	266.00	bu	-28	0	33	71	117	172	239	323	431	574	775
			-140	-112	-78	-40	5	60	127	211	318	462	663
150	285.00	bu	0	30	66	107	156	215	287	377	492	646	862
			-112	-81	-45	-4	44	103	175	265	380	534	749

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
 Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.33	2.47	2.62	2.81	3.02	3.28	3.60	4.00	4.51	5.19	6.14
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-249	-237	-222	-204	-184	-159	-129	-91	-43	21	112
			-362	-349	-334	-316	-296	-271	-241	-203	-155	-90	0
60	114.00	bu	-213	-198	-180	-159	-134	-105	-68	-23	34	112	220
			-325	-310	-292	-271	-246	-217	-181	-135	-77	0	108
70	133.00	bu	-177	-159	-138	-114	-85	-50	-8	44	112	202	329
			-289	-271	-250	-226	-197	-162	-120	-67	0	90	217
80	152.00	bu	-141	-120	-96	-68	-36	3	51	112	189	293	437
			-253	-232	-208	-181	-148	-108	-60	0	77	181	325
90	171.00	bu	-105	-81	-55	-23	13	57	112	179	267	383	546
			-217	-193	-167	-135	-98	-54	0	67	155	271	434
100	190.00	bu	-68	-43	-13	21	62	112	172	247	344	474	655
			-181	-155	-125	-90	-49	0	60	135	232	362	543
110	209.00	bu	-32	-4	28	66	112	166	232	315	422	564	763
			-144	-116	-83	-45	0	54	120	203	310	452	651
120	228.00	bu	3	34	70	112	161	220	293	383	500	655	872
			-108	-77	-41	0	49	108	181	271	387	543	760
130	247.00	bu	39	73	112	157	210	275	353	451	577	745	981
			-72	-38	0	45	98	162	241	339	465	633	868
140	266.00	bu	75	112	153	202	260	329	413	519	655	836	1089
			-36	0	41	90	148	217	301	407	543	724	977
150	285.00	bu	112	150	195	247	309	383	474	587	732	926	1198
			0	38	83	135	197	271	362	475	620	814	1086

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
 Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	180.0000	77.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	32.0000	116.16	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
LA Hired Labor					
Implements	hour	10.73	0.1611	1.73	_____
Tractors	hour	10.73	0.5819	6.23	_____
DIESEL FUEL					
Tractors	gal	2.50	5.3318	13.32	_____
Harvesters	gal	2.50	1.6602	4.15	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.08	1.0000	8.08	_____
Tractors	Acre	2.86	1.0000	2.86	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	14.09	1.0000	14.09	_____

TOTAL DIRECT EXPENSES				438.99	_____
FIXED EXPENSES					
Implements	Acre	13.65	1.0000	13.65	_____
Tractors	Acre	19.61	1.0000	19.61	_____
Harvesters	Acre	9.73	1.0000	9.73	_____

TOTAL FIXED EXPENSES				42.99	_____

TOTAL SPECIFIED EXPENSES				481.98	_____

Table 3.B Estimated resource use and costs for field operations, per Acre
 Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.34	1.00	0.07	0.80				7.16
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.13	2.56	1.31	2.78	0.16	1.72				10.50
Corn Seed BtRR	thous											32.0000	3.63	116.16	116.16
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Nitrogen	lb											150.0000	0.43	64.50	64.50
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.41	9.73	1.64	2.72	0.13	1.82				22.32
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu			1.00	Aug							160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
TOTALS						22.59	29.34	8.08	13.65	0.87	9.78			384.45	467.89
INTEREST ON OPERATING CAPITAL															14.09
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															481.98

Table 3.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.97	2.08	2.20	2.35	2.53	2.74	3.00	3.32	3.73	4.28	5.05
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-246	-238	-227	-216	-202	-185	-164	-138	-105	-61	0
			-289	-281	-270	-259	-245	-228	-207	-181	-148	-104	-42
60	96.00	bu	-222	-211	-199	-185	-168	-148	-123	-92	-52	0	74
			-265	-254	-242	-228	-211	-191	-166	-135	-95	-42	31
70	112.00	bu	-197	-185	-170	-154	-134	-111	-82	-46	0	61	148
			-240	-228	-213	-197	-177	-154	-125	-89	-42	18	105
80	128.00	bu	-172	-158	-142	-123	-101	-74	-41	0	52	123	222
			-215	-201	-185	-166	-144	-117	-84	-42	9	80	179
90	144.00	bu	-148	-132	-113	-92	-67	-37	0	46	105	185	296
			-191	-175	-156	-135	-110	-80	-42	3	62	142	253
100	160.00	bu	-123	-105	-85	-61	-33	0	41	92	158	246	370
			-166	-148	-128	-104	-76	-42	-1	49	115	203	327
110	176.00	bu	-98	-79	-56	-30	0	37	82	138	211	308	444
			-141	-122	-99	-73	-42	-5	39	95	168	265	401
120	192.00	bu	-74	-52	-28	0	33	74	123	185	264	370	518
			-117	-95	-71	-42	-9	31	80	142	221	327	475
130	208.00	bu	-49	-26	0	30	67	111	164	231	317	432	592
			-92	-69	-42	-12	24	68	121	188	274	389	549
140	224.00	bu	-24	0	28	61	101	148	205	277	370	493	666
			-67	-42	-14	18	58	105	162	234	327	450	623
150	240.00	bu	0	26	56	92	134	185	246	324	423	555	740
			-42	-16	14	49	91	142	203	281	380	512	697

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
 Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.15	2.27	2.41	2.58	2.77	3.01	3.29	3.65	4.11	4.73	5.59
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-232	-222	-211	-198	-182	-163	-140	-112	-75	-25	42
			-275	-265	-254	-241	-225	-206	-183	-155	-118	-68	0
60	96.00	bu	-205	-193	-179	-163	-144	-122	-94	-60	-16	42	125
			-248	-236	-222	-206	-187	-165	-137	-103	-59	0	82
70	112.00	bu	-177	-163	-147	-129	-107	-81	-48	-8	42	111	208
			-220	-206	-190	-172	-150	-124	-91	-51	0	68	165
80	128.00	bu	-149	-134	-116	-94	-69	-39	-2	42	102	180	291
			-192	-177	-159	-137	-112	-82	-45	0	59	137	248
90	144.00	bu	-122	-104	-84	-60	-32	1	42	94	161	249	373
			-165	-147	-127	-103	-75	-41	0	51	118	206	330
100	160.00	bu	-94	-75	-52	-25	5	42	88	146	220	318	456
			-137	-118	-95	-68	-37	0	45	103	177	275	413
110	176.00	bu	-67	-45	-20	8	42	84	134	198	279	387	539
			-110	-88	-63	-34	0	41	91	155	236	344	496
120	192.00	bu	-39	-16	11	42	80	125	180	249	338	456	621
			-82	-59	-31	0	37	82	137	206	295	413	578
130	208.00	bu	-12	13	42	77	118	167	226	301	397	525	704
			-55	-29	0	34	75	124	183	258	354	482	661
140	224.00	bu	15	42	74	111	155	208	272	353	456	594	787
			-27	0	31	68	112	165	229	310	413	551	744
150	240.00	bu	42	72	106	146	193	249	318	404	515	663	869
			0	29	63	103	150	206	275	361	472	620	826

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
 Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	210.0000	90.30	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	35.0000	127.05	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.73	0.1611	1.73	_____
Tractors	hour	10.73	0.8750	9.37	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	8.1593	20.39	_____
Harvesters	gal	2.50	1.6602	4.15	_____
Roll-Out Pipe Irr.	gal	2.50	8.5535	21.39	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.51	1.0000	8.51	_____
Tractors	Acre	4.44	1.0000	4.44	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	16.40	1.0000	16.40	_____

TOTAL DIRECT EXPENSES				528.12	_____
FIXED EXPENSES					
Implements	Acre	14.93	1.0000	14.93	_____
Tractors	Acre	30.48	1.0000	30.48	_____
Harvesters	Acre	9.73	1.0000	9.73	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				111.72	_____

TOTAL SPECIFIED EXPENSES				639.84	_____

Table 4.B Estimated resource use and costs for field operations, per Acre
 Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.34	1.00	0.07	0.80				7.16
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.13	2.56	1.31	2.78	0.16	1.72				10.50
Corn Seed BtRR	thous											35.0000	3.63	127.05	127.05
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Nitrogen	lb											180.0000	0.43	77.40	77.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.41	9.73	1.64	2.72	0.13	1.82				22.32
Dry Corn	bu											190.0000	0.19	36.10	36.10
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
Roll-Out Pipe Irr.	Acres				Jul	8.65	10.87	28.71	57.86	0.44	4.82	1.0000		8.25	119.16
TOTALS						31.24	40.21	36.79	71.51	1.32	14.60			429.09	623.44
INTEREST ON OPERATING CAPITAL															16.40
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															639.84

Table 4.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.99	2.10	2.23	2.38	2.56	2.77	3.04	3.36	3.78	4.34	5.13
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-297	-287	-274	-260	-243	-223	-198	-167	-127	-74	0
			-409	-398	-386	-372	-355	-335	-310	-279	-239	-186	-111
60	114.00	bu	-268	-255	-240	-223	-203	-178	-148	-111	-63	0	89
			-379	-366	-352	-335	-314	-290	-260	-223	-175	-111	-22
70	133.00	bu	-238	-223	-206	-186	-162	-134	-99	-55	0	74	178
			-349	-335	-317	-297	-274	-245	-210	-167	-111	-37	66
80	152.00	bu	-208	-191	-171	-148	-121	-89	-49	0	63	148	268
			-320	-303	-283	-260	-233	-201	-161	-111	-47	37	156
90	171.00	bu	-178	-159	-137	-111	-81	-44	0	55	127	223	357
			-290	-271	-249	-223	-192	-156	-111	-55	15	111	245
100	190.00	bu	-148	-127	-103	-74	-40	0	49	111	191	297	446
			-260	-239	-214	-186	-152	-111	-62	-0	79	186	335
110	209.00	bu	-119	-95	-68	-37	0	44	99	167	255	372	536
			-230	-207	-180	-148	-111	-67	-12	55	143	260	424
120	228.00	bu	-89	-63	-34	0	40	89	148	223	319	446	625
			-201	-175	-146	-111	-71	-22	37	111	207	335	513
130	247.00	bu	-59	-31	0	37	81	134	198	279	382	521	714
			-171	-143	-111	-74	-30	22	86	167	271	409	603
140	266.00	bu	-29	0	34	74	121	178	248	335	446	595	804
			-141	-111	-77	-37	10	66	136	223	335	483	692
150	285.00	bu	0	31	68	111	162	223	297	390	510	670	893
			-111	-79	-42	-0	50	111	186	279	398	558	781

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
 Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.38	2.52	2.68	2.87	3.10	3.36	3.69	4.10	4.62	5.32	6.30
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-260	-247	-231	-214	-192	-167	-136	-97	-47	18	111
			-372	-359	-343	-325	-304	-279	-248	-209	-159	-93	0
60	114.00	bu	-223	-207	-188	-167	-142	-111	-74	-27	31	111	223
			-335	-319	-300	-279	-253	-223	-186	-139	-79	0	111
70	133.00	bu	-186	-167	-146	-120	-91	-55	-12	41	111	204	335
			-297	-279	-257	-232	-203	-167	-124	-69	0	93	223
80	152.00	bu	-148	-127	-103	-74	-40	0	49	111	191	297	446
			-260	-239	-214	-186	-152	-111	-62	0	79	186	335
90	171.00	bu	-111	-87	-60	-27	10	55	111	181	271	390	558
			-223	-199	-171	-139	-101	-55	0	69	159	279	446
100	190.00	bu	-74	-47	-17	18	60	111	173	251	351	484	670
			-186	-159	-128	-93	-50	0	62	139	239	372	558
110	209.00	bu	-37	-7	25	65	111	167	235	321	430	577	781
			-148	-119	-85	-46	0	55	124	209	319	465	670
120	228.00	bu	0	31	68	111	162	223	297	390	510	670	893
			-111	-79	-42	0	50	111	186	279	398	558	781
130	247.00	bu	37	71	111	158	213	279	359	460	590	763	1005
			-74	-39	0	46	101	167	248	349	478	651	893
140	266.00	bu	74	111	154	204	264	335	421	530	670	856	1116
			-37	0	42	93	152	223	310	418	558	744	1005
150	285.00	bu	111	151	197	251	314	390	484	600	749	949	1228
			0	39	85	139	203	279	372	488	638	837	1116

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 5.A Estimated costs per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	180.0000	77.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Karate Z	oz	1.02	2.1300	2.17	_____
Intrepid 2F	oz	1.80	6.0000	10.80	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	32.0000	100.16	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.73	0.1175	1.26	_____
Tractors	hour	10.73	0.5005	5.35	_____
DIESEL FUEL					
Tractors	gal	2.50	4.8007	11.99	_____
Harvesters	gal	2.50	1.2047	3.01	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.48	1.0000	8.48	_____
Tractors	Acre	2.53	1.0000	2.53	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
INTEREST ON OP. CAP.	Acre	13.73	1.0000	13.73	_____
TOTAL DIRECT EXPENSES				431.93	_____
FIXED EXPENSES					
Implements	Acre	14.56	1.0000	14.56	_____
Tractors	Acre	17.35	1.0000	17.35	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
TOTAL FIXED EXPENSES				44.85	_____
TOTAL SPECIFIED EXPENSES				476.78	_____

Table 5.B Estimated resource use and costs for field operations, per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Corn Seed RR	thous											32.0000	3.13	100.16	100.16
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Nitrogen	lb											150.0000	0.43	64.50	64.50
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.02	2.17	2.17
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	1.80	10.80	10.80
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.02	12.94	2.09	3.47	0.08	1.15				25.67
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu											160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
TOTALS						20.54	30.29	8.48	14.56	0.70	7.76			381.42	463.05
INTEREST ON OPERATING CAPITAL															13.73
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															476.78

Table 5.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.94	2.05	2.17	2.32	2.49	2.69	2.95	3.26	3.67	4.21	4.97
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-242	-233	-223	-211	-198	-181	-161	-136	-103	-60	0
			-287	-278	-268	-256	-243	-226	-206	-181	-148	-105	-44
60	96.00	bu	-218	-207	-195	-181	-165	-145	-121	-90	-51	0	72
			-262	-252	-240	-226	-210	-190	-165	-135	-96	-44	27
70	112.00	bu	-193	-181	-167	-151	-132	-109	-80	-45	0	60	145
			-238	-226	-212	-196	-176	-153	-125	-90	-44	15	100
80	128.00	bu	-169	-155	-139	-121	-99	-72	-40	0	51	121	218
			-214	-200	-184	-165	-143	-117	-85	-44	7	76	173
90	144.00	bu	-145	-129	-111	-90	-66	-36	0	45	103	181	290
			-190	-174	-156	-135	-110	-81	-44	0	58	136	245
100	160.00	bu	-121	-103	-83	-60	-33	0	40	90	155	242	363
			-165	-148	-128	-105	-77	-44	-4	45	110	197	318
110	176.00	bu	-96	-77	-55	-30	0	36	80	136	207	302	436
			-141	-122	-100	-75	-44	-8	35	91	162	257	391
120	192.00	bu	-72	-51	-27	0	33	72	121	181	259	363	508
			-117	-96	-72	-44	-11	27	76	136	214	318	463
130	208.00	bu	-48	-25	0	30	66	109	161	227	311	423	581
			-93	-70	-44	-14	21	64	116	182	266	379	536
140	224.00	bu	-24	0	27	60	99	145	201	272	363	484	654
			-69	-44	-16	15	54	100	157	227	318	439	609
150	240.00	bu	0	25	55	90	132	181	242	317	415	545	726
			-44	-18	11	45	87	136	197	273	370	500	681

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 5.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.12	2.25	2.39	2.55	2.74	2.97	3.26	3.61	4.07	4.68	5.53
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-227	-217	-206	-193	-177	-159	-136	-108	-71	-23	44
			-272	-262	-251	-238	-222	-204	-181	-153	-116	-68	0
60	96.00	bu	-200	-188	-174	-159	-140	-118	-91	-57	-13	44	126
			-244	-233	-219	-204	-185	-163	-136	-102	-58	0	81
70	112.00	bu	-172	-159	-143	-125	-103	-77	-45	-6	44	112	208
			-217	-204	-188	-170	-148	-122	-90	-51	0	68	163
80	128.00	bu	-145	-130	-112	-91	-66	-36	-0	44	103	180	289
			-190	-174	-157	-136	-111	-81	-45	0	58	136	244
90	144.00	bu	-118	-100	-80	-57	-29	4	44	95	161	248	371
			-163	-145	-125	-102	-74	-40	0	51	116	204	326
100	160.00	bu	-91	-71	-49	-23	7	44	90	146	219	317	453
			-136	-116	-94	-68	-37	0	45	102	174	272	408
110	176.00	bu	-64	-42	-17	10	44	85	135	197	278	385	534
			-108	-87	-62	-34	0	40	90	153	233	340	489
120	192.00	bu	-36	-13	13	44	81	126	180	248	336	453	616
			-81	-58	-31	0	37	81	136	204	291	408	571
130	208.00	bu	-9	15	44	78	119	167	226	299	394	521	698
			-54	-29	0	34	74	122	181	255	349	476	653
140	224.00	bu	17	44	76	112	156	208	271	351	453	589	779
			-27	0	31	68	111	163	226	306	408	544	734
150	240.00	bu	44	74	107	146	193	248	317	402	511	657	861
			0	29	62	102	148	204	272	357	466	612	816

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 6.A Estimated costs per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	210.0000	90.30	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Karate Z	oz	1.02	2.1300	2.17	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	35.0000	109.55	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.73	0.1175	1.26	_____
Tractors	hour	10.73	0.7998	8.56	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	7.6894	19.21	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	8.5535	21.39	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.97	1.0000	8.97	_____
Tractors	Acre	4.14	1.0000	4.14	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	15.60	1.0000	15.60	_____

TOTAL DIRECT EXPENSES				508.63	_____
FIXED EXPENSES					
Implements	Acre	15.96	1.0000	15.96	_____
Tractors	Acre	28.46	1.0000	28.46	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				113.94	_____

TOTAL SPECIFIED EXPENSES				622.57	_____

Table 6.B Estimated resource use and costs for field operations, per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Corn Seed RR	thous											35.0000	3.13	109.55	109.55
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Nitrogen	lb											180.0000	0.43	77.40	77.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.02	2.17	2.17
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.02	12.94	2.09	3.47	0.08	1.15				25.67
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.18	0.24	0.06	0.12	0.00	0.07				0.67
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	28.71	57.86	0.44	4.82	1.0000		8.25	119.16
TOTALS						29.37	41.40	37.25	72.54	1.15	12.65			413.76	606.97
INTEREST ON OPERATING CAPITAL															15.60
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															622.57

Table 6.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.92	2.03	2.15	2.30	2.47	2.67	2.92	3.23	3.64	4.17	4.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-284	-274	-262	-249	-233	-213	-189	-160	-122	-71	0
			-398	-388	-376	-363	-346	-327	-303	-274	-236	-185	-113
60	114.00	bu	-256	-244	-230	-213	-194	-170	-142	-106	-61	0	85
			-370	-358	-343	-327	-308	-284	-256	-220	-174	-113	-28
70	133.00	bu	-227	-213	-197	-178	-155	-128	-94	-53	0	71	170
			-341	-327	-311	-291	-269	-242	-208	-167	-113	-42	56
80	152.00	bu	-199	-183	-164	-142	-116	-85	-47	0	61	142	256
			-313	-297	-278	-256	-230	-199	-161	-113	-52	28	142
90	171.00	bu	-170	-152	-131	-106	-77	-42	0	53	122	213	341
			-284	-266	-245	-220	-191	-156	-113	-60	8	99	227
100	190.00	bu	-142	-122	-98	-71	-38	0	47	106	183	284	427
			-256	-236	-212	-185	-152	-113	-66	-7	69	170	313
110	209.00	bu	-113	-91	-65	-35	0	42	94	160	244	356	512
			-227	-205	-179	-149	-113	-71	-18	46	130	242	398
120	228.00	bu	-85	-61	-32	0	38	85	142	213	305	427	598
			-199	-174	-146	-113	-75	-28	28	99	191	313	484
130	247.00	bu	-56	-30	0	35	77	128	189	267	366	498	683
			-170	-144	-113	-78	-36	14	75	153	252	384	569
140	266.00	bu	-28	0	32	71	116	170	237	320	427	569	769
			-142	-113	-81	-42	2	56	123	206	313	455	655
150	285.00	bu	0	30	65	106	155	213	284	373	488	640	854
			-113	-83	-48	-7	41	99	170	259	374	526	740

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 6.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
 Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.32	2.46	2.61	2.80	3.01	3.27	3.59	3.98	4.49	5.17	6.12
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-246	-233	-219	-201	-181	-156	-126	-89	-40	23	113
			-360	-347	-333	-315	-295	-270	-240	-202	-154	-90	0
60	114.00	bu	-210	-195	-177	-156	-132	-102	-66	-21	36	113	222
			-324	-309	-291	-270	-245	-216	-180	-135	-77	0	108
70	133.00	bu	-174	-156	-135	-111	-82	-48	-6	46	113	204	330
			-288	-270	-249	-225	-196	-162	-120	-67	0	90	216
80	152.00	bu	-138	-117	-94	-66	-33	5	53	113	191	294	438
			-252	-231	-208	-180	-147	-108	-60	0	77	180	324
90	171.00	bu	-102	-79	-52	-21	15	59	113	181	268	384	546
			-216	-193	-166	-135	-98	-54	0	67	154	270	432
100	190.00	bu	-66	-40	-10	23	64	113	174	249	345	474	655
			-180	-154	-124	-90	-49	0	60	135	231	360	541
110	209.00	bu	-30	-2	30	68	113	168	234	316	423	564	763
			-144	-115	-83	-45	0	54	120	202	309	450	649
120	228.00	bu	5	36	72	113	163	222	294	384	500	655	871
			-108	-77	-41	0	49	108	180	270	386	541	757
130	247.00	bu	41	75	113	159	212	276	354	452	577	745	979
			-72	-38	0	45	98	162	240	338	463	631	865
140	266.00	bu	77	113	155	204	261	330	414	519	655	835	1088
			-36	0	41	90	147	216	300	405	541	721	974
150	285.00	bu	113	152	197	249	310	384	474	587	732	925	1196
			0	38	83	135	196	270	360	473	618	811	1082

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 7.A Estimated costs per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	180.0000	77.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	32.0000	116.16	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.73	0.1175	1.26	_____
Tractors	hour	10.73	0.5005	5.35	_____
DIESEL FUEL					
Tractors	gal	2.50	4.8007	11.99	_____
Harvesters	gal	2.50	1.2047	3.01	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.48	1.0000	8.48	_____
Tractors	Acre	2.53	1.0000	2.53	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
INTEREST ON OP. CAP.	Acre	13.98	1.0000	13.98	_____

TOTAL DIRECT EXPENSES				435.21	_____
FIXED EXPENSES					
Implements	Acre	14.56	1.0000	14.56	_____
Tractors	Acre	17.35	1.0000	17.35	_____
Harvesters	Acre	12.94	1.0000	12.94	_____

TOTAL FIXED EXPENSES				44.85	_____

TOTAL SPECIFIED EXPENSES				480.06	_____

Table 7.B Estimated resource use and costs for field operations, per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Corn Seed BtRR	thous											32.0000	3.63	116.16	116.16
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Nitrogen	lb											150.0000	0.43	64.50	64.50
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.02	12.94	2.09	3.47	0.08	1.15				25.67
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu			1.00	Aug							160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
TOTALS						20.54	30.29	8.48	14.56	0.70	7.76			384.45	466.08
INTEREST ON OPERATING CAPITAL															13.98
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															480.06

Table 7.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.95	2.06	2.19	2.33	2.51	2.72	2.97	3.29	3.70	4.24	5.01
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-244	-235	-225	-213	-199	-183	-162	-137	-104	-61	0
			-289	-280	-270	-258	-244	-228	-207	-182	-149	-105	-44
60	96.00	bu	-219	-209	-197	-183	-166	-146	-122	-91	-52	0	73
			-264	-254	-242	-228	-211	-191	-167	-136	-97	-44	28
70	112.00	bu	-195	-183	-169	-152	-133	-109	-81	-45	0	61	146
			-240	-228	-214	-197	-178	-154	-126	-90	-44	16	101
80	128.00	bu	-171	-157	-141	-122	-99	-73	-40	0	52	122	219
			-215	-201	-185	-167	-144	-118	-85	-44	7	77	175
90	144.00	bu	-146	-130	-112	-91	-66	-36	0	45	104	183	293
			-191	-175	-157	-136	-111	-81	-44	0	59	138	248
100	160.00	bu	-122	-104	-84	-61	-33	0	40	91	157	244	366
			-167	-149	-129	-105	-78	-44	-4	46	112	199	321
110	176.00	bu	-97	-78	-56	-30	0	36	81	137	209	305	439
			-142	-123	-101	-75	-44	-8	36	92	164	260	395
120	192.00	bu	-73	-52	-28	0	33	73	122	183	261	366	513
			-118	-97	-73	-44	-11	28	77	138	217	321	468
130	208.00	bu	-48	-26	0	30	66	109	162	229	314	427	586
			-93	-71	-44	-14	21	65	118	184	269	382	541
140	224.00	bu	-24	0	28	61	99	146	203	274	366	488	659
			-69	-44	-16	16	55	101	158	230	321	444	615
150	240.00	bu	0	26	56	91	133	183	244	320	419	549	733
			-44	-18	11	46	88	138	199	275	374	505	688

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 7.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.14	2.26	2.40	2.57	2.76	3.00	3.28	3.64	4.10	4.71	5.57
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-229	-219	-208	-195	-179	-160	-138	-109	-72	-23	44
			-274	-264	-253	-240	-224	-205	-182	-154	-117	-68	0
60	96.00	bu	-202	-190	-176	-160	-142	-119	-92	-58	-13	44	127
			-246	-235	-221	-205	-187	-164	-137	-102	-58	0	82
70	112.00	bu	-174	-160	-145	-126	-104	-78	-46	-6	44	113	209
			-219	-205	-189	-171	-149	-123	-91	-51	0	68	164
80	128.00	bu	-147	-131	-113	-92	-67	-37	-0	44	103	182	291
			-192	-176	-158	-137	-112	-82	-45	0	58	137	246
90	144.00	bu	-119	-102	-81	-58	-29	3	44	96	162	250	374
			-164	-146	-126	-102	-74	-41	0	51	117	205	329
100	160.00	bu	-92	-72	-50	-23	7	44	90	147	221	319	456
			-137	-117	-94	-68	-37	0	45	102	176	274	411
110	176.00	bu	-64	-43	-18	10	44	86	136	199	279	387	538
			-109	-88	-63	-34	0	41	91	154	235	342	493
120	192.00	bu	-37	-13	13	44	82	127	182	250	338	456	620
			-82	-58	-31	0	37	82	137	205	293	411	576
130	208.00	bu	-10	15	44	79	119	168	227	302	397	524	703
			-54	-29	0	34	74	123	182	257	352	480	658
140	224.00	bu	17	44	76	113	157	209	273	353	456	593	785
			-27	0	31	68	112	164	228	308	411	548	740
150	240.00	bu	44	74	108	147	194	250	319	404	515	662	867
			0	29	63	102	149	205	274	360	470	617	823

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 8.A Estimated costs per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.55	30.0000	16.50	_____
LA Potash	lb	0.32	60.0000	19.20	_____
LA Nitrogen	lb	0.43	210.0000	90.30	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	1.0000	4.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.70	6.0000	4.20	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	35.0000	127.05	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.73	0.1175	1.26	_____
Tractors	hour	10.73	0.7936	8.49	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	7.6282	19.06	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	8.5535	21.39	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.91	1.0000	8.91	_____
Tractors	Acre	4.11	1.0000	4.11	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	16.29	1.0000	16.29	_____

TOTAL DIRECT EXPENSES				524.34	_____
FIXED EXPENSES					
Implements	Acre	15.84	1.0000	15.84	_____
Tractors	Acre	28.22	1.0000	28.22	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				113.58	_____

TOTAL SPECIFIED EXPENSES				637.92	_____

Table 8.B Estimated resource use and costs for field operations, per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

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-----			
Lime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.26	1.59	0.29	0.65	0.08	0.90				4.69
LA Phosphate	lb											30.0000	0.55	16.50	16.50
LA Potash	lb											60.0000	0.32	19.20	19.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	2.31	2.31	2.31
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Roller	32'	MFWD 170	0.046	1.00	Mar	1.24	1.49	0.18	1.12	0.04	0.50				4.53
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Corn Seed BtRR	thous											35.0000	3.63	127.05	127.05
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Nitrogen	lb											180.0000	0.43	77.40	77.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.02	12.94	2.09	3.47	0.08	1.15				25.67
Dry Corn	bu											190.0000	0.19	36.10	36.10
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.93	2.23	2.12	1.41	0.08	0.89				8.58
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.70	4.20	4.20
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	28.71	57.86	0.44	4.82	1.0000		8.25	119.16
TOTALS						29.19	41.16	37.19	72.42	1.15	12.58			429.09	621.63
INTEREST ON OPERATING CAPITAL															16.29
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															637.92

Table 8.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			1.98	2.09	2.22	2.37	2.54	2.75	3.01	3.34	3.75	4.31	5.09
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-295	-284	-272	-258	-241	-221	-196	-166	-126	-73	0
			-408	-398	-386	-371	-355	-335	-310	-279	-240	-187	-113
60	114.00	bu	-265	-253	-238	-221	-201	-177	-147	-110	-63	0	88
			-379	-366	-352	-335	-314	-290	-261	-224	-176	-113	-24
70	133.00	bu	-236	-221	-204	-184	-161	-132	-98	-55	0	73	177
			-349	-335	-318	-298	-274	-246	-212	-168	-113	-39	63
80	152.00	bu	-206	-189	-170	-147	-120	-88	-49	0	63	147	265
			-320	-303	-283	-261	-234	-202	-162	-113	-50	34	152
90	171.00	bu	-177	-158	-136	-110	-80	-44	0	55	126	221	354
			-290	-271	-249	-224	-194	-157	-113	-58	12	107	240
100	190.00	bu	-147	-126	-102	-73	-40	0	49	110	189	295	442
			-261	-240	-215	-187	-153	-113	-64	-2	76	181	329
110	209.00	bu	-118	-94	-68	-36	0	44	98	166	253	369	531
			-231	-208	-181	-150	-113	-69	-15	52	139	255	417
120	228.00	bu	-88	-63	-34	0	40	88	147	221	316	442	620
			-202	-176	-147	-113	-73	-24	34	107	202	329	506
130	247.00	bu	-59	-31	0	36	80	132	196	276	379	516	708
			-172	-145	-113	-76	-33	19	83	163	266	403	595
140	266.00	bu	-29	0	34	73	120	177	246	332	442	590	797
			-143	-113	-79	-39	7	63	132	218	329	477	683
150	285.00	bu	0	31	68	110	161	221	295	387	506	664	885
			-113	-81	-45	-2	47	107	181	274	392	550	772

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 8.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
 Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
 Alluvial Soil, Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Corn			2.38	2.52	2.68	2.86	3.09	3.35	3.68	4.08	4.61	5.31	6.28
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-257	-244	-228	-211	-189	-164	-133	-95	-45	20	113
			-371	-357	-342	-324	-303	-278	-247	-208	-159	-92	0
60	114.00	bu	-220	-204	-186	-164	-139	-109	-71	-25	34	113	224
			-333	-318	-299	-278	-252	-222	-185	-139	-79	0	111
70	133.00	bu	-183	-164	-143	-118	-88	-53	-10	44	113	206	336
			-296	-278	-256	-231	-202	-166	-123	-69	0	92	222
80	152.00	bu	-146	-124	-100	-71	-38	2	51	113	193	299	447
			-259	-238	-214	-185	-151	-111	-61	0	79	185	333
90	171.00	bu	-109	-85	-57	-25	12	57	113	183	272	391	558
			-222	-198	-171	-139	-101	-55	0	69	159	278	445
100	190.00	bu	-71	-45	-14	20	62	113	175	252	352	484	670
			-185	-159	-128	-92	-50	0	61	139	238	371	556
110	209.00	bu	-34	-5	27	67	113	169	237	322	431	577	781
			-148	-119	-85	-46	0	55	123	208	318	463	667
120	228.00	bu	2	34	70	113	164	224	299	391	511	670	892
			-111	-79	-42	0	50	111	185	278	397	556	779
130	247.00	bu	39	73	113	159	214	280	360	461	590	762	1004
			-74	-39	0	46	101	166	247	347	477	649	890
140	266.00	bu	76	113	156	206	265	336	422	530	670	855	1115
			-37	0	42	92	151	222	309	417	556	742	1001
150	285.00	bu	113	153	199	252	315	391	484	600	749	948	1226
			0	39	85	139	202	278	371	486	636	834	1113

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, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	10.73	0.2930	3.14	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	2.8274	7.07	_____
Engine, RPF, 75	gal	2.50	8.5535	21.39	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.43	1.0000	0.43	_____
Tractors	Acre	1.58	1.0000	1.58	_____
Well & Pump, Furrow	each	472.80	0.0062	2.96	_____
Engine, RPF, 75	ac-in	0.37	10.5000	3.93	_____
INTEREST ON OP. CAP.	Acre	1.06	1.0000	1.06	_____
TOTAL DIRECT EXPENSES				51.49	_____
FIXED EXPENSES					
Implements	Acre	1.28	1.0000	1.28	_____
Tractors	Acre	10.87	1.0000	10.87	_____
Well & Pump, Furrow	each	1615.03	0.0062	10.09	_____
Main Line Pipe	each	798.66	0.0062	4.99	_____
Land Forming (\$300)	each	31.97	1.0000	31.97	_____
Engine, RPF, 75	each	1524.70	0.0062	9.53	_____
TOTAL FIXED EXPENSES				68.73	_____
TOTAL SPECIFIED EXPENSES				120.22	_____

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	10.73	0.2036	2.19	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.50	11.2011	28.00	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	472.80	0.0074	3.50	_____
Engine, 1/4 CP, 65	ac-in	0.62	7.5000	4.67	_____
Pivot, 1/4 CP	1320'	1820.00	0.0074	13.48	_____
INTEREST ON OP. CAP.	Acre	1.22	1.0000	1.22	_____
TOTAL DIRECT EXPENSES				53.06	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1615.03	0.0074	11.96	_____
Engine, 1/4 CP, 65	each	1524.70	0.0074	11.29	_____
Pivot, 1/4 CP	each	8258.83	0.0074	61.18	_____
TOTAL FIXED EXPENSES				84.43	_____
TOTAL SPECIFIED EXPENSES				137.49	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
dollars		
ADJUVANTS		
Surfactant	pt	1.75
CUSTOM FERT/LIME		
App Fert by Air	cwt	7.00
App Fert by Air(Min)	appl	7.00
Custom Apply Fert	acre	7.50
Custom Spread(Truc	appl	4.50
Lime (Spread)	ton	38.00
CUSTOM HARVEST/HAUL		
Custom Combine Rice	acre	0.00
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.00
App by Air (5 gal)	appl	6.50
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.00
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	4.60
DAP	cwt	23.76
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	22.25
Fert 10-34-0	gal	2.59
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	13.50
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.43
LA Phosphate	lb	0.55
LA Potash	lb	0.32
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	11.25
UAN + Sulfur (28% N)	cwt	12.40
Urea, Solid (46% N)	cwt	14.50
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.95
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	4.28
Crop Oil (Petroleum)	pt	2.37
Cruiser 5FS	oz	17.38
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	1.13
Ridomil GoldPC 10G	lb	2.08
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	76.88
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.75
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.18
Mepex	oz	0.08
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.39
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	7.01
CottonQuik	pt	6.06
Def 6	pt	6.88
Def/Folex	pt	7.00
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	3.53
Finish 6	pt	9.60
Folex 6EC	pt	10.90
Ginstar EC	pt	26.41
Gramoxone Extra	pt	4.86
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.00
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	2.31
2,4-D Ester	pt	4.17
AAtrex 4L	pt	2.12
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.25
Aim DF	oz	9.65

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.38
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	13.43
Basagran	pt	12.31
Basis Gold	lb	9.00
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	11.21
Buctril 4EC	pt	17.06
Butoxone 175(2,4-DB)	pt	3.24
Butoxone 200(2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	4.34
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.52
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.51
Classic	oz	17.18
Clincher EC	oz	2.30
Cobra 2EC	oz	1.72
Command 3ME	pt	18.50
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	6.42
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.52
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.99
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.90
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.50
Dual Magnum	pt	13.81
Duet	pt	5.35
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	43.40
Flexstar HL	pt	4.50
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
Fultime	pt	6.29
Fusilade DX	oz	1.00
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.00
Glystar Plus	pt	2.17
Goal 2XL	pt	9.89
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	4.16
Gramoxone Max	pt	4.16
Grandstand R	qt	17.15
Guardzman	pt	4.66
Guardzman Max	pt	7.22
Harmony Extra	oz	14.43
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.20
LA Weedmaster	qt	5.75
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.60
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	3.68
MSMA6 + Surfactant	pt	3.63
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.47
Pendimax 3.3	pt	2.47
Permit 75DF	oz	18.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.44
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.58
Raptor	oz	4.38
Reflex 2LC	pt	6.52
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	2.94
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.48
Select 2EC	oz	0.70
Sencor 4F	pt	14.74
Sencor DF	lb	12.75
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.64
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.41
Strongarm	oz	56.42
Superwham	qt	9.20
Suprend	lb	13.74

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	6.97
Treflan HFP	pt	3.52
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.52
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.92
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
Asana .66 XL	oz	0.58
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.30
Bidrin 8L	oz	1.33
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.37
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Dimethoate 4E	pt	5.35
Dimilin 2L	oz	2.13
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	6.03
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	9.71
Karate Z	oz	1.02
Lannate LV	pt	10.99
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.50
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.48
Organophosphate	oz	0.00
Orthene 90S	lb	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	14.13
Pounce 3.2 EC	oz	0.34

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	1.88
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LARice Insurance	Dollar	1.00
LARice Misc. Overhd	dollar	1.00
LARice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	3.63
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.13
Cotton Seed Bt	thoud	0.28
Cotton Seed BtRR	thous	1.26
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
LA Hybrid Rice Seed	acre	165.00
Rice Clearfield 161	lb	1.05
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.90
Rice Seed Conv.	lb	0.30
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.10
Sorghum NonConcept	lb	1.18
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Wheat Seed Private	lb	0.22
Wheat Seed Public	lb	0.00
SERVICE FEE		
Crop Consultant	acre	7.00
Insect Scouting	acre	7.00
Rice Consultant	acre	8.00
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BG/RR Cot Tech Fee	thous	1.49
BG/RR Cot Tech Fee	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
TECHNOLOGY FEE CONT'D		
Eradication Zone 1B	acre	6.00
Eradication Zone 2	acre	6.00
Eradication Zone 3	acre	6.00
Eradication Zone 4	acre	6.00
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66

Appendix Table 4. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2019.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (170-199 hp)	190hp	0	300	8	9.78	13.51	24.45	0.00	37.96	0.00	37.96
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	30.87	16.82	61.21	72.40	133.62
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	32.17	0.00	45.68	0.00	45.68
Combine (250-299 hp)	275hp	339,000	300	8	14.15	13.51	35.37	35.31	84.19	151.94	236.14
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	37.95	22.73	74.19	97.81	172.00
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	37.32	0.00	50.83	0.00	50.83
Combine (300-349 hp)	325hp	362,000	300	8	16.73	13.51	41.82	37.70	93.04	162.25	255.29
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	41.17	0.00	54.68	0.00	54.68
Combine (350-379 hp)	370hp	354,000	300	8	19.04	13.51	47.60	36.87	97.98	158.67	256.65
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	46.97	0.00	60.48	0.00	60.48
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	20.20	26.56	60.27	114.29	174.56
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.73	11.97	2.72	25.42	8.74	34.17
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.73	8.75	1.57	21.05	5.06	26.12
test-mes		0	0	0	0.00	13.51	0.00	0.00	0.00	0.00	0.00
Tractor(40-59hp)Cab	2WD 50	29,400	600	8	2.57	10.73	6.43	0.91	18.08	6.10	24.18
Tractor(40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.73	6.43	1.23	18.39	8.19	26.59
Tractor(40-59hp)RB	2WD 50	22,900	600	8	2.57	10.73	6.43	0.71	17.87	4.75	22.63
Tractor(40-59hp)RB	MFWD 50	27,800	600	8	2.57	10.73	6.43	0.86	18.03	5.77	23.80
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	10.73	9.65	1.65	22.03	10.95	32.99
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	10.73	9.65	1.95	22.33	12.97	35.30
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	10.73	9.65	1.20	21.58	8.01	29.59
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	10.73	9.65	1.25	21.63	8.32	29.95
Tractor(90-119hp)CB	2WD 105	69,200	600	8	5.40	10.73	13.51	2.16	26.40	14.36	40.76
Tractor(90-119hp)CB	MFWD 105	83,000	600	8	5.40	10.73	13.51	2.59	26.83	17.22	44.06
Tractor(90-119hp)RB	2WD 105	61,200	600	8	5.40	10.73	13.51	1.91	26.15	12.70	38.85
Tractor(90-119hp)RB	MFWD 105	67,500	600	8	5.40	10.73	13.51	2.10	26.35	14.01	40.36
Tractor(120-139hp)CB	2WD 130	103,000	600	8	6.69	10.73	16.72	3.21	30.67	21.37	52.05
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	10.73	16.72	3.56	31.02	23.66	54.68
Tractor(140-159hp)CB	2WD 150	109,000	600	8	7.72	10.73	19.30	3.40	33.43	22.62	56.06
Tractor(140-159hp)CB	MFWD 150	130,000	600	8	7.72	10.73	19.30	4.06	34.09	26.98	61.07
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.73	21.87	4.87	37.48	33.67	71.15
Tractor(160-179hp)CB	MFWD 170	148,000	600	8	8.75	10.73	21.87	4.62	37.23	31.94	69.17
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.73	23.16	4.45	38.35	30.80	69.15
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.73	24.44	4.46	39.64	30.86	70.51
Tractor(180-199hp)CB	MFWD 190	175,000	600	8	9.77	10.73	24.44	5.46	40.64	37.77	78.42
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.73	28.95	4.59	44.27	31.74	76.02
Tractor(200-249hp)CB	MFWD 225	191,000	600	8	11.58	10.73	28.95	5.96	45.65	41.22	86.87
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.73	28.95	8.65	48.33	59.78	108.12
Tractor(250-349hp)CB	4WD 300	286,000	600	8	15.44	10.73	38.60	8.93	58.27	61.73	120.00
Tractor(250-349hp)CB	Track 300	317,000	600	8	15.44	10.73	38.60	9.90	59.24	68.42	127.66
Tractor(350-449hp)CB	4WD 400	328,000	600	8	20.58	10.73	51.47	10.25	72.45	70.79	143.24
Tractor(350-449hp)CB	Track 400	420,000	600	8	20.58	10.73	51.47	13.12	75.32	90.65	165.98
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.73	61.12	8.74	80.59	60.40	141.00

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 2019.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.42	0.43	3.55	2.06	5.62
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.23	8.54	17.67	33.71	51.38
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	9.60	13.40	30.39	52.88	83.27
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	13.44	17.90	38.73	70.64	109.37
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	7.67	11.66	25.25	46.01	71.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.07	9.21	19.96	36.35	56.32
Cotton Picker-1st-BB	6R30"255hp	465,000	200	8	18.27	0.218	4.92	9.09	15.85	29.87	62.56	92.44
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.17	12.51	23.58	49.39	72.98
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.07	8.67	19.63	34.22	53.86
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	9.60	13.39	30.38	52.84	83.23
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.38	12.48	15.91	35.78	62.78	98.57
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	7.83	11.67	25.42	46.06	71.49
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.07	9.40	20.15	37.10	57.26
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.32	15.85	29.10	62.56	91.67
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.07	12.51	23.48	49.39	72.88
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.89	9.96	28.79	42.88	71.67
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	6.57	7.34	17.21	31.61	48.82
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.92	11.34	26.52	48.81	75.34
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.59	13.47	31.33	58.00	89.33
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	7.16	9.14	21.23	39.34	60.57
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.83	11.97	26.73	51.52	78.26
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.27	9.88	22.17	42.55	64.73
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.64	7.80	17.41	33.58	50.99
Cotton Picker-2nd-BB	6R30"255hp	465,000	200	8	18.01	0.184	4.17	8.32	13.43	25.92	57.79	83.72
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.57	10.60	20.46	45.62	66.09
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.89	9.96	28.79	42.88	71.67
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	6.57	7.34	17.21	31.61	48.82
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.92	11.34	26.52	48.81	75.34
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.59	13.47	31.33	58.00	89.33
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	7.16	9.14	21.23	39.34	60.57
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.83	11.97	26.73	51.52	78.26
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.27	9.88	22.17	42.55	64.73
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.64	7.96	17.57	34.27	51.84
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.57	10.60	20.46	45.62	66.09
LA Pickup Truck	1/2 ton	27,500	800	5	2.50	1.000	10.73	6.25	3.09	20.07	7.66	27.74
LA Rice Combine	25 ft	181,500	300	10	8.60	0.300	5.05	6.45	14.53	26.04	23.92	49.97
LA Rice Combine-2	25 ft	181,500	300	10	8.60	0.300	5.05	6.45	14.53	26.04	23.92	49.97
LARice Combine Med	20 ft	165,000	300	10	7.10	0.210	3.53	3.72	9.24	16.50	15.21	31.72
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.24	0.06	1.00	0.45	1.45
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	21.00	29.77	62.55	38.76	101.32
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	14.87	23.05	52.66	32.32	84.98
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	7.76	18.67	32.96	26.17	59.13
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.06	7.63	9.61	24.31	17.34	41.66
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.54	5.25	8.51	17.31	15.35	32.66
SC Transloader		33,000	120	12	4.70	0.250	2.95	2.93	4.12	10.01	8.03	18.04
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	11.80	17.50	8.66	37.96	16.29	54.26
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.30	0.00	0.70	0.00	0.70
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.24	0.09	0.66	0.69	1.36
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.18	0.07	0.49	0.52	1.02
Sprayer(600-750Gal)	60'	208,000	350	8	10.29	0.017	0.31	0.45	0.19	0.96	1.40	2.37
Sprayer(600-825Gal)	80'	210,000	350	8	10.29	0.013	0.23	0.34	0.14	0.72	1.06	1.79
Sprayer(600-825Gal)	90'	288,000	350	8	10.29	0.011	0.21	0.30	0.18	0.69	1.30	1.99
Sprayer(1000-1400Gal)	90'	328,000	350	8	14.15	0.014	0.25	0.49	0.24	1.00	1.77	2.77
Sprayer(1200PlusGal)	120'	332,000	350	8	15.44	0.008	0.15	0.34	0.15	0.65	1.12	1.78

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost	
									Imp.	P.U.		Imp.	P.U.		
			dollars	hours	years	hr/ac	-----\$/acre-----								
Blade-Box	6'	2WD 130	1,221	200	20	0.020	0.21	0.33	0.01	0.06	0.62	0.01	0.42	1.06	
Blade-Box	10'	2WD 50	3,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Blade-Box	14'	2WD 50	6,270	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	1,213	200	20	1.176	12.62	7.56	0.67	0.84	21.71	0.62	5.59	27.92	
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	12.62	7.56	1.98	0.84	23.01	1.81	5.59	30.42	
Blade-Scraper	14'	2WD 50	6,860	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	1.23	1.93	0.93	0.37	4.48	1.82	2.47	8.77	
Chisel Plow(Folding)	24'	MFWD 190	39,900	150	12	0.076	0.82	1.86	1.10	0.41	4.20	2.14	2.88	9.23	
Chisel Plow(Folding)	32'	MFWD 225	51,900	150	12	0.057	0.61	1.67	1.08	0.34	3.72	2.10	2.38	8.20	
Chisel Plow(Folding)	42'	MFWD 225	62,500	150	12	0.044	0.47	1.27	0.99	0.26	3.00	1.93	1.81	6.74	
Chisel Plow(Rigid)	15'	2WD 130	11,800	150	12	0.123	1.32	2.06	0.52	0.39	4.30	1.02	2.63	7.96	
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.82	1.88	0.32	0.42	3.45	0.63	2.90	6.99	
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.94	2.15	0.21	0.39	3.70	0.41	2.71	6.83	
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.73	1.98	0.34	0.40	3.47	0.67	2.82	6.97	
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.94	2.15	0.61	0.39	4.10	1.18	2.71	8.00	
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.73	1.98	0.59	0.40	3.71	1.15	2.82	7.69	
Corn Grain Cart 8R30	500 bu	MFWD 190	25,700	200	12	0.031	0.34	0.78	0.22	0.17	1.52	0.43	1.20	3.15	
Corn Grain Cart 8R40	700bu	MFWD 190	37,300	200	12	0.025	0.26	0.61	0.25	0.13	1.26	0.49	0.94	2.70	
Cult & Post	4R-38	2WD 105	19,500	150	10	0.173	2.64	2.34	0.90	0.33	6.21	2.63	2.20	11.04	
Cult & Post	6R-30	MFWD 150	23,600	150	10	0.146	2.23	2.83	0.92	0.59	6.58	2.69	3.95	13.24	
Cult & Post	6R-38	MFWD 150	24,500	150	10	0.115	1.76	2.23	0.75	0.47	5.22	2.21	3.12	10.56	
Cult & Post	8R-30	MFWD 190	28,700	150	10	0.110	1.67	2.68	0.84	0.60	5.81	2.45	4.15	12.42	
Cult & Post	8R-38	MFWD 190	29,800	150	10	0.086	1.32	2.12	0.69	0.47	4.61	2.01	3.28	9.92	
Cult & Post	8R-38 2x1	MFWD 190	47,800	150	10	0.057	0.88	1.41	0.73	0.31	3.35	2.15	2.18	7.69	
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.34	2.54	0.75	0.52	5.16	2.19	3.62	10.98	
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	0.99	1.88	0.00	0.38	3.26	0.00	2.68	5.94	
Cult & Post	12R-30	MFWD 225	47,200	150	10	0.073	1.11	2.12	0.92	0.43	4.60	2.69	3.02	10.32	
Cult & Post	12R-38	MFWD 225	56,500	150	10	0.057	0.88	1.67	0.87	0.34	3.77	2.54	2.38	8.71	
Cultipacker	12'	2WD 130	6,910	300	12	0.124	1.33	2.08	0.20	0.40	4.02	0.31	2.66	6.99	
Cultipacker	20'	MFWD 150	17,000	300	12	0.074	0.80	1.44	0.29	0.30	2.84	0.45	2.01	5.31	
Cultivate	4R-38	2WD 105	12,200	150	10	0.162	1.74	2.19	0.52	0.31	4.77	1.54	2.06	8.38	
Cultivate	6R-30	MFWD 150	16,300	150	10	0.137	1.47	2.65	0.59	0.55	5.28	1.74	3.71	10.74	
Cultivate	6R-38	MFWD 150	17,200	150	10	0.108	1.16	2.09	0.49	0.44	4.19	1.45	2.92	8.58	
Cultivate	8R-30	MFWD 190	21,400	150	10	0.103	1.10	2.52	0.58	0.56	4.78	1.71	3.89	10.39	
Cultivate	8R-38	MFWD 190	22,600	150	10	0.081	0.87	1.99	0.49	0.44	3.80	1.43	3.07	8.31	
Cultivate	8R-38 2x1	MFWD 190	35,400	150	10	0.054	0.58	1.32	0.51	0.29	2.71	1.49	2.05	6.26	
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.88	2.38	0.62	0.49	4.38	1.81	3.40	9.60	
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.69	1.88	0.00	0.38	2.97	0.00	2.68	5.65	
Cultivate	12R-30	MFWD 225	39,900	150	10	0.068	0.73	1.99	0.73	0.41	3.87	2.13	2.83	8.84	
Cultivate	12R-38	MFWD 225	39,100	150	10	0.054	0.58	1.57	0.56	0.32	3.04	1.65	2.23	6.93	
Disk & Incorporate	14'	2WD 130	31,900	200	10	0.149	2.28	2.50	1.43	0.48	6.70	2.78	3.19	12.69	
Disk & Incorporate	24'	MFWD 190	50,000	200	10	0.087	1.33	2.13	1.30	0.47	5.25	2.55	3.29	11.10	
Disk & Incorporate	32'	4WD 225	66,000	200	10	0.068	1.04	1.99	1.36	0.31	4.71	2.65	2.18	9.55	
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.74	1.42	0.44	0.29	2.91	0.87	2.02	5.81	
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.58	2.84	0.33	0.59	5.37	0.99	3.98	10.34	
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.34	2.73	0.47	0.57	5.12	1.37	3.99	10.49	
Disk Bed (Hipper)	6R-38	MFWD 170	13,000	160	10	0.098	1.05	2.15	0.32	0.45	3.99	0.93	3.15	8.08	
Disk Bed (Hipper)	8R-30	MFWD 190	17,800	160	10	0.093	1.00	2.29	0.41	0.51	4.22	1.21	3.54	8.98	
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	29,200	160	10	0.049	0.52	1.20	0.36	0.26	2.36	1.05	1.86	5.28	
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.80	2.17	0.37	0.44	3.79	1.09	3.09	7.97	
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.63	1.71	0.34	0.35	3.04	0.99	2.43	6.47	
Disk Bed (Hipper)	12R-30	MFWD 225	31,000	160	10	0.062	0.67	1.80	0.48	0.37	3.33	1.41	2.57	7.32	
Disk Bed (Hipper)	12R-38	MFWD 225	29,200	160	10	0.049	0.52	1.42	0.36	0.29	2.61	1.05	2.03	5.69	
Disk Bed (Hipper)Fld	8R-38	MFWD 190	20,000	160	10	0.074	0.79	1.81	0.37	0.40	3.38	1.08	2.79	7.26	
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	18,400	160	10	0.074	0.79	1.81	0.34	0.40	3.35	0.99	2.79	7.14	
Disk Bed w/roller	8R-30	2WD 190	26,600	160	10	0.093	1.00	2.29	0.62	0.41	4.34	1.82	2.89	9.05	
Disk Bed w/roller	12R-30	MFWD 225	47,000	160	10	0.062	0.67	1.80	0.73	0.37	3.58	2.14	2.57	8.30	
Disk Harrow	14'	2WD 130	24,600	180	10	0.140	1.50	2.34	0.95	0.45	5.26	2.24	2.99	10.50	
Disk Harrow	24'	MFWD 190	42,700	180	10	0.081	0.87	2.00	0.97	0.44	4.29	2.26	3.09	9.65	
Disk Harrow	28'	MFWD 225	52,000	180	10	0.070	0.75	2.03	1.01	0.41	4.21	2.36	2.89	9.47	
Disk Harrow	32'	MFWD 225	58,700	180	10	0.061	0.65	1.77	1.00	0.36	3.80	2.33	2.53	8.67	
Disk Harrow	42'	MFWD 225	104,000	180	10	0.046	0.50	1.35	1.35	0.27	3.48	3.15	1.92	8.57	
Ditcher		2WD 130	5,700	200	10	0.020	0.21	0.33	0.04	0.06	0.65	0.06	0.42	1.15	
Ditcher (1m/160a)		2WD 130	5,700	200	10	0.009	0.10	0.15	0.02	0.03	0.30	0.03	0.20	0.54	
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.36	2.98	1.33	0.62	7.30	1.65	4.17	13.13	
Fert Appl (Liquid)	6R-30	MFWD 170	16,700	150	8	0.130	1.99	2.86	1.45	0.60	6.92	1.81	4.18	12.92	
Fert Appl (Liquid)	6R-38	MFWD 170	16,100	150	8	0.103	1.57	2.26	1.10	0.47	5.42	1.38	3.30	10.11	
Fert Appl (Liquid)	8R-30	MFWD 190	16,900	150	8	0.098	1.49	2.40	1.10	0.53	5.54	1.37	3.70	10.63	
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.18	1.89	0.98	0.42	4.49	1.22	2.93	8.64	
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	20,300	150	8	0.051	0.78	1.26	0.69	0.28	3.03	0.87	1.95	5.85	
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.19	2.27	0.97	0.46	4.91	1.21	3.23	9.36	
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	0.94	1.79	0.83	0.36	3.94	1.04	2.55	7.54	
Fert Appl (Liquid)	12R-30	MFWD 225	22,600	150	8	0.078	1.19	2.27	1.18	0.46	5.12	1.47	3.23	9.83	
Fert Appl (Liquid)	12R-38	MFWD 225	19,900	150	8	0.051	0.78	1.49	0.68	0.30	3.27	0.85	2.13	6.26	
Field Cult & Inc	12'	2WD 150	15,800	100	10	0.132	2.01	2.55	0.52	0.45	5.54	2.44	2.99	10.97	
Field Cult & Inc	24'	MFWD 170	34,500	100	10	0.066	1.00	1.44	0.57	0.30	3.33	2.66	2.11	8.10	

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	---Fixed---		Total Cost	
									Imp.	P.U.		Imp.	P.U.		
			dollars	hours	years	hr/ac	-----\$/acre-----								
Field Cult & Inc	32'	MFWD 190	43,800	100	10	0.049	0.75	1.21	0.54	0.27	2.78	2.53	1.87	7.19	
Field Cult & Inc	42'	MFWD 225	69,400	100	10	0.037	0.57	1.09	0.65	0.22	2.55	3.06	1.55	7.17	
Field Cultivate	50'	MFWD 225	65,900	100	10	0.029	0.32	0.86	0.49	0.17	1.85	2.29	1.23	5.38	
Gate Installer		2WD 130	2,960	10	10	0.020	0.39	0.33	0.17	0.06	0.97	0.66	0.42	2.06	
Grain Drill	12'	2WD 130	26,800	150	8	0.157	3.10	2.62	1.57	0.50	7.82	3.35	3.35	14.54	
Grain Drill	15'	MFWD 150	32,600	150	8	0.125	2.48	2.42	1.53	0.51	6.96	3.26	3.39	13.62	
Grain Drill	20'	MFWD 170	38,800	150	8	0.094	1.86	2.06	1.37	0.43	5.73	2.91	3.01	11.66	
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.55	1.92	1.93	0.42	5.83	4.10	2.96	12.91	
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.24	1.82	1.50	0.37	4.94	3.19	2.59	10.73	
Grain Drill & Pre	12'	2WD 130	34,100	150	8	0.169	3.34	2.83	2.16	0.54	8.88	4.60	3.61	17.10	
Grain Drill & Pre	15'	MFWD 150	39,900	150	8	0.135	2.67	2.61	2.02	0.55	7.86	4.30	3.65	15.82	
Grain Drill & Pre	20'	MFWD 170	46,000	150	8	0.101	2.00	2.22	1.75	0.46	6.45	3.72	3.24	13.41	
Grain Drill & Pre	24'	MFWD 190	71,000	150	8	0.084	1.67	2.06	2.25	0.46	6.45	4.78	3.19	14.44	
Grain Drill & Pre	30'	MFWD 225	71,000	150	8	0.067	1.33	1.95	1.80	0.40	5.50	3.83	2.79	12.12	
Harrow	13'	2WD 130	4,360	200	10	0.119	1.28	1.99	0.18	0.38	3.84	0.30	2.55	6.70	
Harrow	21'	2WD 150	6,750	200	10	0.073	0.79	1.42	0.17	0.25	2.64	0.29	1.67	4.61	
Harrow	40'	MFWD 190	20,200	200	10	0.038	0.41	0.94	0.27	0.21	1.85	0.45	1.46	3.77	
Harrow	47'	MFWD 190	23,700	200	10	0.033	0.35	0.80	0.27	0.18	1.61	0.45	1.24	3.32	
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	6.20	1.26	3.38	13.57	2.09	14.56	30.23	
Header - Corn	6R30"	240hp	48,900	300	8	0.170	2.30	5.25	2.08	2.86	12.50	3.45	12.32	28.29	
Header - Corn	6R38"	240hp	48,800	300	8	0.134	1.81	4.15	1.64	2.26	9.86	2.72	9.73	22.32	
Header - Corn	8R-30	240hp	62,300	300	8	0.127	1.72	3.94	1.98	2.14	9.80	3.30	9.24	22.35	
Header - Corn	8R-38	275hp	63,000	300	8	0.100	1.36	3.57	1.59	3.56	10.09	2.64	15.34	28.07	
Header - Corn	12R-20	275hp	95,600	300	8	0.127	1.72	4.51	3.05	4.50	13.80	5.06	19.40	38.27	
Header - Corn	12R-30	275hp	98,200	300	8	0.085	1.15	3.01	2.09	3.00	9.25	3.47	12.93	25.66	
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.90	4.64	4.85	22.30	7.71	20.88	50.90	
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.83	4.08	4.27	19.62	6.78	18.38	44.79	
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	7.48	3.91	7.47	21.72	6.50	32.14	60.38	
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.71	4.02	4.20	19.32	6.68	18.10	44.11	
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.79	3.54	3.70	17.00	5.88	15.93	38.82	
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	6.48	3.39	6.47	18.83	5.63	27.85	52.32	
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	5.25	0.00	2.86	10.42	0.00	12.32	22.75	
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	4.38	0.72	2.38	9.40	1.19	10.27	20.87	
Header - Soybean	22' Flex	240hp	32,600	300	8	0.116	1.56	3.58	0.94	1.95	8.05	1.57	8.40	18.03	
Header - Soybean	25' Flex	275hp	34,600	300	8	0.102	1.38	3.29	0.88	3.49	9.05	1.32	13.77	24.15	
Header - Soybean	30' Flex	275hp	41,400	300	8	0.085	1.15	2.74	0.88	2.90	7.68	1.32	11.47	20.49	
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	3.99	0.67	2.38	8.97	1.01	9.42	19.41	
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.26	0.57	1.95	7.36	0.86	7.70	15.93	
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.38	3.15	0.53	1.71	6.79	0.89	7.39	15.07	
Header Wheat/Sorghum	30' Rigid	275hp	23,600	300	8	0.085	1.15	3.01	0.50	3.00	7.67	0.83	12.93	21.44	
Header-Cotton-Bcast	13'	173hp	21,300	200	8	0.251	5.68	5.08	1.00	6.68	18.46	3.34	28.78	50.58	
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	4.61	4.13	0.91	5.43	15.09	3.03	23.38	41.51	
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	3.88	3.48	0.84	4.57	12.79	2.81	19.69	35.29	
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	7.38	6.61	1.25	8.69	23.95	4.18	37.41	65.55	
Header-Cotton-Brush	4R30*2X1	173hp	34,400	200	8	0.218	4.92	4.40	1.40	5.79	16.53	4.67	24.94	46.15	
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	5.81	5.20	1.64	6.84	19.51	5.45	29.46	54.43	
Header-Cotton-Brush	4R38*2X1	173hp	36,000	200	8	0.172	3.88	3.48	1.16	4.57	13.10	3.86	19.69	36.66	
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	5.91	5.29	2.10	6.95	20.25	6.98	29.93	57.17	
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	4.67	4.18	1.72	5.50	16.08	5.71	23.68	45.48	
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	4.92	4.40	2.15	5.79	17.28	7.16	24.94	49.39	
Heavy Disk	14'	MFWD 150	31,900	180	10	0.145	1.56	2.81	1.29	0.59	6.26	3.02	3.93	13.23	
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.04	2.12	1.09	0.45	4.71	2.56	3.10	10.39	
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.81	1.85	1.05	0.41	4.13	2.47	2.85	9.47	
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.64	1.15	0.13	0.24	2.17	0.15	1.61	3.95	
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.60	5.93	0.29	1.32	10.15	0.85	9.16	20.17	
Land Plane	50'x16'	MFWD 190	14,300	200	10	0.151	1.62	3.70	0.43	0.82	6.59	1.26	5.72	13.59	
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.36	9.65	2.64	2.03	19.68	3.95	13.49	37.13	
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.03	3.66	0.15	0.77	6.63	0.72	5.13	12.49	
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.53	1.93	0.07	0.44	2.99	0.20	3.08	6.27	
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.60	5.78	0.23	1.33	8.96	0.53	9.25	18.75	
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.08	0.00	0.01	0.14	0.06	0.09	0.30	
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.56	3.55	0.26	0.79	6.18	0.53	5.49	12.21	
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.28	2.32	0.36	0.48	4.45	1.24	3.24	8.94	
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.22	2.79	0.55	0.62	5.19	1.92	4.31	11.43	
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.96	2.20	0.38	0.49	4.05	1.32	3.40	8.78	
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.64	1.46	0.41	0.32	2.85	1.42	2.27	6.54	
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.98	2.64	0.62	0.54	4.79	2.16	3.76	10.72	
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.77	2.08	0.54	0.42	3.83	1.87	2.96	8.67	
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.64	1.74	0.41	0.35	3.15	1.42	2.47	7.05	
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	10.28	12.70	4.06	2.84	29.89	9.20	19.62	58.72	
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	6.47	8.00	2.84	1.79	19.11	6.42	12.36	37.90	
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	6.47	8.00	2.84	1.79	19.11	6.42	12.36	37.90	
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.10	6.30	2.23	1.40	15.05	5.06	9.73	29.84	
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.10	6.30	2.23	1.40	15.05	5.06	9.73	29.84	
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.40	4.21	1.49	0.94	10.05	3.38	6.50	19.95	
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.18	6.40	2.27	1.43	15.29	5.14	9.89	30.32	
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.10	5.06	1.79	1.13	12.09	4.06	7.82	23.99	
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.31	5.33	1.89	1.19	12.74	4.28	8.24	25.27	
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.40	4.21	1.49	0.94	10.05	3.38	6.50	19.95	
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	8.71	10.76	3.81	2.40	25.69	8.64	16.62	50.96	
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.48	6.78	2.40	1.51	16.19	5.44	10.47	32.10	
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	5.48	6.78	2.40	1.51	16.19	5.44	10.47	32.10	
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.32	5.33	1.89	1.19	12.74	4.28	8.24	25.28	

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
							-----\$/acre-----							
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	4.39	5.42	1.92	1.21	12.95	4.35	8.37	25.68
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.47	4.29	1.52	0.95	10.24	3.44	6.62	20.32
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	3.65	4.52	1.60	1.01	10.79	3.62	6.98	21.40
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	2.88	3.56	1.26	0.79	8.52	2.86	5.51	16.89
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	4.98	4.86	2.18	1.02	13.05	4.94	6.79	24.79
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.04	3.94	1.77	0.83	10.60	4.01	5.52	20.14
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.41	3.32	1.49	0.70	8.93	3.38	4.64	16.96
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.47	6.31	2.84	1.32	16.96	6.42	8.83	32.23
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.31	4.21	1.89	0.88	11.31	4.28	5.88	21.48
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.10	4.97	2.23	1.04	13.36	5.06	6.95	25.37
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.41	3.32	1.49	0.70	8.93	3.38	4.64	16.96
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.18	5.05	2.27	1.06	13.57	5.14	7.06	25.78
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.10	3.99	1.79	0.84	10.73	4.06	5.59	20.39
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.31	4.21	1.89	0.88	11.31	4.28	5.88	21.48
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.73	1.97	0.00	0.40	3.10	0.00	2.80	5.91
NT Grain Drill	12'	2WD 130	47,900	150	8	0.163	3.23	2.73	2.94	0.52	9.44	6.25	3.49	19.19
NT Grain Drill & Pre	15'	MFWD 150	62,400	150	8	0.141	2.79	2.72	3.29	0.57	9.38	7.01	3.80	20.20
NT Grain Drill & Pre	20'	MFWD 170	78,400	150	8	0.105	2.09	2.31	3.10	0.48	8.00	6.61	3.37	17.99
NT Grain Drill & Pre	24'	MFWD 190	97,700	150	8	0.088	1.74	2.15	3.22	0.48	7.61	6.86	3.32	17.80
NT Grain Drill & Pre	30'	MFWD 225	111,000	150	8	0.070	1.39	2.04	2.93	0.42	6.79	6.23	2.90	15.93
NT Plant&Pre-Folding	8R-38	MFWD 170	65,000	150	8	0.083	1.65	1.82	2.03	0.38	5.90	4.33	2.67	12.91
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	102,000	150	8	0.055	1.10	1.21	2.12	0.25	4.70	4.52	1.77	11.01
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.67	2.06	1.82	0.46	6.03	3.88	3.19	13.11
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.32	1.63	1.32	0.36	4.64	2.81	2.52	9.97
NT Plant&Pre-Folding	12R-20	MFWD 190	78,700	150	8	0.105	2.09	2.58	3.12	0.57	8.37	6.63	3.99	19.01
NT Plant&Pre-Folding	12R-30	MFWD 190	87,500	150	8	0.070	1.39	1.72	2.31	0.38	5.81	4.91	2.66	13.40
NT Plant&Pre-Folding	12R-38	MFWD 190	102,000	150	8	0.055	1.10	1.36	2.12	0.30	4.89	4.52	2.10	11.52
NT Plant&Pre-Folding	16R-30	MFWD 190	130,000	150	8	0.052	1.04	1.29	2.57	0.28	5.20	5.48	1.99	12.68
NT Plant&Pre-Folding	23R-15	MFWD 190	163,000	150	8	0.073	1.45	1.79	4.48	0.40	8.14	9.54	2.77	20.45
NT Plant&Pre-Folding	24R-20	MFWD 190	182,000	150	8	0.052	1.04	1.29	3.60	0.28	6.23	7.67	1.99	15.90
NT Plant&Pre-Folding	24R-30	MFWD 190	200,000	150	8	0.035	0.69	0.86	2.64	0.19	4.39	5.62	1.33	11.34
NT Plant&Pre-Rigid	4R-30	2WD 130	29,300	150	8	0.211	4.18	3.53	2.32	0.68	10.73	4.94	4.52	20.19
NT Plant&Pre-Rigid	4R-38	2WD 130	35,200	150	8	0.166	3.29	2.78	2.19	0.53	8.81	4.67	3.56	17.05
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,100	150	8	0.141	2.79	2.72	2.27	0.57	8.36	4.84	3.80	17.01
NT Plant&Pre-Rigid	6R-38	MFWD 150	41,800	150	8	0.111	2.20	2.14	1.74	0.45	6.54	3.71	3.00	13.26
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.84	3.14	1.41	0.66	8.07	3.00	4.59	15.68
NT Plant&Pre-Rigid	8R-30	MFWD 170	53,100	150	8	0.105	2.09	2.31	2.10	0.48	7.00	4.47	3.37	14.85
NT Plant&Pre-Rigid	8R-38	MFWD 170	50,600	150	8	0.077	1.52	1.68	1.46	0.35	5.03	3.11	2.46	10.61
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.67	2.06	1.64	0.46	5.85	3.50	3.19	12.54
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,000	150	8	0.105	2.09	2.58	2.57	0.57	7.83	5.48	3.99	17.31
NT Plant&Pre-Rigid	12R-30	MFWD 190	79,300	150	8	0.070	1.39	1.72	2.09	0.38	5.60	4.45	2.66	12.72
NT Plant&Pre-Rigid	8R-38	MFWD 170	57,800	150	8	0.077	1.53	1.69	1.68	0.35	5.27	3.57	2.48	11.33
NT Plant&Pre-Rigid	8R-38 2x1	MFWD 170	93,000	150	8	0.051	1.02	1.13	1.80	0.23	4.19	3.83	1.65	9.67
NT Plant&Pre-Rigid	10R-30	MFWD 190	52,061	150	8	0.078	1.55	1.92	1.53	0.42	5.43	3.26	2.96	11.66
NT Plant&Pre-Rigid	10R-38	MFWD 190	47,646	150	8	0.061	1.22	1.51	1.10	0.33	4.18	2.35	2.34	8.88
NT Plant&Pre-Rigid	12R-20	MFWD 190	71,100	150	8	0.098	1.94	2.40	2.61	0.53	7.50	5.56	3.70	16.77
NT Plant&Pre-Rigid	12R-30	MFWD 190	78,900	150	8	0.065	1.29	1.60	1.93	0.35	5.19	4.11	2.47	11.78
NT Plant&Pre-Rigid	12R-38	MFWD 190	93,000	150	8	0.051	1.02	1.26	1.80	0.28	4.37	3.83	1.95	10.15
NT Plant&Pre-Rigid	16R-30	MFWD 190	122,000	150	8	0.049	0.97	1.20	2.24	0.26	4.68	4.77	1.85	11.31
NT Plant&Pre-Rigid	23R-15	MFWD 190	155,000	150	8	0.068	1.34	1.66	3.96	0.37	7.35	8.42	2.57	18.35
NT Plant&Pre-Rigid	24R-20	MFWD 190	174,000	150	8	0.049	0.97	1.20	3.20	0.26	5.64	6.81	1.85	14.31
NT Plant&Pre-Rigid	24R-30	MFWD 190	184,000	150	8	0.032	0.64	0.80	2.25	0.17	3.88	4.80	1.23	9.92
NT Plant-Rigid	4R-30	2WD 130	22,100	150	8	0.196	3.88	3.28	1.62	0.63	9.43	3.46	4.19	17.09
NT Plant-Rigid	4R-38	2WD 130	27,900	150	8	0.154	3.06	2.58	1.61	0.49	7.76	3.44	3.30	14.51
NT Plant-Rigid	6R-30	MFWD 150	35,800	150	8	0.130	2.59	2.52	1.75	0.53	7.40	3.73	3.53	14.68
NT Plant-Rigid	6R-38	MFWD 150	34,500	150	8	0.103	2.04	1.99	1.33	0.41	5.79	2.84	2.78	11.43
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	2.64	2.92	1.05	0.61	7.24	2.25	4.26	13.76
NT Plant-Rigid	8R-30	MFWD 170	45,800	150	8	0.098	1.94	2.14	1.68	0.45	6.23	3.58	3.13	12.95
NT Plant-Rigid	8R-38	MFWD 170	43,300	150	8	0.077	1.53	1.69	1.26	0.35	4.85	2.68	2.48	10.01
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.55	1.92	1.37	0.42	5.27	2.91	2.96	11.15
NT Plant-Rigid	12R-20	MFWD 190	57,800	150	8	0.098	1.94	2.40	2.12	0.53	7.01	4.52	3.70	15.24
NT Plant-Rigid	12R-30	MFWD 190	70,700	150	8	0.065	1.29	1.60	1.73	0.35	4.99	3.69	2.47	11.15
Paratill & Bed	4R-30	MFWD 225	12,300	150	12	0.204	2.19	5.91	0.90	1.21	10.23	1.76	8.42	20.42
Paratill & Bed	4R-38	MFWD 225	12,300	150	12	0.160	1.72	4.65	0.71	0.96	8.05	1.38	6.63	16.08
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.46	3.94	0.85	0.81	7.06	1.65	5.61	14.33
Paratill & Bed	6R-38	MFWD 225	17,200	150	12	0.107	1.15	3.11	0.66	0.64	5.57	1.29	4.43	11.30
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.09	2.95	0.83	0.60	5.49	1.62	4.21	11.33
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.57	1.55	1.34	0.32	3.79	2.60	2.21	8.62
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.86	2.33	1.58	0.48	5.27	3.08	3.32	11.68
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.57	1.55	1.34	0.32	3.79	2.60	2.21	8.62
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.86	2.33	0.65	0.48	4.34	1.28	3.32	8.95
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.55	0.99	0.00	0.17	1.74	0.02	1.17	2.93
Pipe Spool 160ac	1/4m roll	2WD 130	3,600	15	12	0.003	0.09	0.05	0.00	0.01	0.15	0.07	0.06	0.30
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.17	0.06	0.00	0.01	0.25	0.00	0.08	0.33
Plant & Pre Folding	8R-38	MFWD 170	57,900	150	8	0.080	1.58	1.75	1.74	0.37	5.45	3.70	2.56	11.72
Plant & Pre Folding	8R38 2x1	MFWD 170	91,000	150	8	0.053	1.05	1.16	1.82	0.24	4.29	3.87	1.70	9.88
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.60	1.98	1.58	0.44	5.61	3.36	3.06	12.04
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.26	1.56	1.15	0.35	4.34	2.46	2.41	9.22
Plant & Pre Folding	12R-20	MFWD 190	67,600	150	8	0.101	2.00	2.48	2.57	0.55	7.62	5.47	3.83	16.92
Plant & Pre Folding	12R-30	MFWD 190	76,800	150	8	0.067	1.33	1.65	1.94	0.37	5.31	4.14	2.55	12.01

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
							-----\$/acre-----							
lant & Pre Folding	12R-38	MFWD 190	91,000	150	8	0.053	1.05	1.30	1.82	0.29	4.48	3.87	2.01	10.37
Plant & Pre Folding	16R-30	MFWD 190	116,000	150	8	0.050	1.00	1.24	2.20	0.27	4.73	4.69	1.91	11.34
Plant & Pre Folding	23R-15	MFWD 190	143,000	150	8	0.070	1.39	1.72	3.78	0.38	7.28	8.03	2.66	17.98
Plant & Pre Folding	24R-20	MFWD 190	161,000	150	8	0.050	1.00	1.24	3.06	0.27	5.58	6.51	1.91	14.02
Plant & Pre Folding	24R-30	MFWD 190	178,000	150	8	0.033	0.66	0.82	2.25	0.18	3.94	4.80	1.27	10.02
Plant & Pre Rigid	4R-30	2WD 130	25,800	150	8	0.203	4.01	3.39	1.96	0.65	10.03	4.17	4.34	18.55
Plant & Pre Rigid	4R-38	2WD 130	31,600	150	8	0.159	3.16	2.67	1.89	0.51	8.24	4.02	3.41	15.69
Plant & Pre Rigid	6R-30	MFWD 150	25,900	150	8	0.135	2.67	2.61	1.31	0.55	7.15	2.79	3.65	13.60
Plant & Pre Rigid	6R-38	MFWD 150	36,400	150	8	0.106	2.11	2.06	1.45	0.43	6.07	3.10	2.88	12.05
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.73	3.02	1.22	0.63	7.61	2.59	4.41	14.62
Plant & Pre Rigid	8R-30	MFWD 170	46,000	150	8	0.101	2.00	2.22	1.75	0.46	6.45	3.72	3.24	13.41
Plant & Pre Rigid	8R-38	MFWD 170	43,400	150	8	0.080	1.58	1.75	1.30	0.37	5.02	2.77	2.56	10.36
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.60	1.98	1.40	0.44	5.43	2.97	3.06	11.48
Plant & Pre Rigid	12R-20	MFWD 190	54,300	150	8	0.101	2.00	2.48	2.06	0.55	7.11	4.39	3.83	15.34
Plant & Pre Rigid	12R-30	MFWD 190	68,600	150	8	0.067	1.33	1.65	1.74	0.37	5.10	3.70	2.55	11.36
Plant - Folding	8R-38	MFWD 170	50,600	150	8	0.074	1.47	1.63	1.41	0.34	4.86	3.00	2.38	10.25
Plant - Folding	8R-38 2x1	MFWD 170	82,300	150	8	0.049	0.98	1.08	1.53	0.22	3.82	3.25	1.58	8.66
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.49	1.84	1.34	0.41	5.09	2.85	2.84	10.79
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.17	1.45	0.95	0.32	3.91	2.03	2.24	8.20
Plant - Folding	12R-20	MFWD 190	60,400	150	8	0.094	1.86	2.30	2.13	0.51	6.82	4.53	3.56	14.92
Plant - Folding	12R-30	MFWD 190	68,200	150	8	0.062	1.24	1.53	1.60	0.34	4.73	3.41	2.37	10.52
Plant - Folding	12R-38	MFWD 190	82,300	150	8	0.049	0.98	1.21	1.53	0.27	3.99	3.25	1.87	9.12
Plant - Folding	16R-30	MFWD 190	97,900	150	8	0.047	0.93	1.15	1.73	0.25	4.07	3.67	1.78	9.53
Plant - Folding	23R-15	MFWD 190	134,000	150	8	0.065	1.29	1.60	3.29	0.35	6.54	6.99	2.47	16.01
Plant - Folding	24R-20	MFWD 190	152,000	150	8	0.047	0.93	1.15	2.68	0.25	5.03	5.71	1.78	12.52
Plant - Folding	24R-30	MFWD 190	178,000	150	8	0.031	0.62	0.76	2.09	0.17	3.66	4.45	1.18	9.30
Plant - Rigid	4R-30	2WD 130	18,500	150	8	0.188	3.73	3.15	1.30	0.60	8.80	2.78	4.03	15.61
Plant - Rigid	4R-38	2WD 130	24,300	150	8	0.148	2.93	2.48	1.35	0.47	7.25	2.87	3.17	13.30
Plant - Rigid	6R-30	MFWD 150	30,500	150	8	0.125	2.48	2.42	1.43	0.51	6.86	3.05	3.39	13.31
Plant - Rigid	6R-38	MFWD 150	29,200	150	8	0.099	1.96	1.91	1.08	0.40	5.36	2.31	2.67	10.35
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.53	2.79	0.88	0.59	6.80	1.88	4.08	12.77
Plant - Rigid	8R-30	MFWD 170	38,700	150	8	0.094	1.86	2.06	1.36	0.43	5.73	2.90	3.01	11.65
Plant - Rigid	8R-38	MFWD 170	36,200	150	8	0.074	1.47	1.63	1.01	0.34	4.46	2.15	2.38	8.99
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.49	1.84	1.15	0.41	4.90	2.44	2.84	10.19
Plant - Rigid	12R-20	MFWD 190	47,100	150	8	0.094	1.86	2.30	1.66	0.51	6.35	3.54	3.56	13.45
Plant - Rigid	12R-30	MFWD 190	59,900	150	8	0.062	1.24	1.53	1.41	0.34	4.53	3.00	2.37	9.91
Plant - Rigid	15R-15	2WD 150	58,900	150	8	0.094	1.86	1.81	2.08	0.32	6.08	4.42	2.13	12.64
Pull Levee (1m/80a)	4 blade	2WD 50	3,180	100	10	0.003	0.03	0.02	0.00	0.00	0.06	0.01	0.01	0.09
Rice Grain Cart	500 Bu	MFWD 190	25,700	200	12	0.057	0.61	1.39	0.39	0.31	2.71	0.77	2.15	5.64
Rice Grain Cart	700 Bu	MFWD 190	37,300	200	12	0.063	0.68	1.55	0.64	0.34	3.22	1.24	2.39	6.86
Roller	32'	MFWD 170	22,800	100	12	0.046	0.50	1.02	0.17	0.21	1.91	1.12	1.49	4.52
Rotary Cutter	7'	MFWD 130	4,760	185	10	0.168	1.80	2.81	0.64	0.59	5.87	0.50	3.98	10.36
Rotary Cutter	12'	2WD 150	11,600	185	10	0.098	1.05	1.89	0.92	0.33	4.20	0.71	2.22	7.14
Rotary Cutter	15'	MFWD 150	22,800	185	10	0.078	0.84	1.51	1.45	0.31	4.13	1.13	2.12	7.38
Row Cond & Inc	13'	2WD 130	14,600	100	10	0.137	2.10	2.30	0.50	0.44	5.36	2.35	2.94	10.66
Row Cond & Inc	21'	2WD 170	20,700	100	10	0.085	1.30	1.86	0.44	0.41	4.02	2.06	2.87	8.97
Row Cond & Inc	26'	MFWD 190	26,600	100	10	0.063	0.96	1.55	0.42	0.34	3.28	1.97	2.39	7.65
Row Cond & Inc	38'	MFWD 225	33,800	100	10	0.047	0.72	1.36	0.39	0.28	2.76	1.86	1.94	6.57
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.61	1.16	0.20	0.23	2.22	0.95	1.65	4.83
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.23	1.92	0.20	0.36	3.73	0.97	2.45	7.16
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.76	1.55	0.21	0.34	2.87	0.99	2.39	6.27
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.61	1.40	0.17	0.31	2.51	0.83	2.16	5.51
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.42	1.13	0.21	0.23	2.01	1.01	1.62	4.65
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.38	1.02	0.13	0.21	1.76	0.64	1.46	3.87
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.68	2.62	0.27	0.50	5.10	1.30	3.36	9.77
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.04	2.12	0.28	0.47	3.93	1.33	3.27	8.53
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.84	1.92	0.24	0.42	3.43	1.13	2.96	7.54
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.57	1.55	0.22	0.32	2.67	1.04	2.21	5.93
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.52	1.40	0.18	0.29	2.41	0.88	2.00	5.30
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.10	2.25	1.02	0.50	4.89	1.15	3.47	9.52
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.73	1.68	0.98	0.30	3.71	1.11	2.12	6.95
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.38	2.82	1.28	0.62	6.11	1.44	4.34	11.90
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.92	2.10	1.23	0.38	4.64	1.39	2.65	8.68
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.67	2.12	1.09	0.37	5.27	1.23	2.48	8.99
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.11	2.12	1.05	0.43	4.73	1.18	3.02	8.94
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.09	3.00	1.73	0.67	7.50	1.95	4.62	14.08
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.39	2.24	1.55	0.40	5.60	1.75	2.82	10.19
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.83	1.02	0.29	0.23	2.38	0.65	1.58	4.62
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.83	1.02	0.29	0.23	2.38	0.65	1.58	4.62
Spray (Band)	27'	MFWD 170	7,270	200	8	0.062	0.95	1.37	0.21	0.28	2.83	0.28	2.00	5.11
Spray (Band)	40'	MFWD 170	8,630	200	8	0.042	0.64	0.92	0.17	0.19	1.93	0.22	1.35	3.51
Spray (Band)	50'	MFWD 170	13,700	200	8	0.033	0.51	0.74	0.21	0.15	1.63	0.28	1.08	3.00
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.48	0.69	0.14	0.14	1.48	0.19	1.01	2.69
Spray (Band)	60'	MFWD 170	15,600	200	8	0.028	0.43	0.61	0.20	0.13	1.38	0.27	0.90	2.55
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,760	200	8	0.130	1.98	2.51	0.41	0.52	5.44	0.54	3.51	9.50
Spray (Bcast/HB)	20' Rigid	2WD 50	7,920	200	8	0.0								

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2019.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost	
									Imp.	P.U.		Imp.	P.U.		
			dollars	hours	years	hr/ac	-----\$/acre-----								
Spray (Bcast/HB)	27' Fold	MFWD 170	15,100	200	8	0.062	0.95	1.37	0.44	0.28	3.06	0.58	2.00	5.65	
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,570	200	8	0.062	0.95	1.37	0.28	0.28	2.89	0.37	2.00	5.27	
Spray (Bcast/HB)	30' Fold	MFWD 170	18,600	200	8	0.056	0.86	1.23	0.49	0.26	2.84	0.65	1.80	5.30	
Spray (Bcast/HB)	40' Fold	MFWD 170	21,800	200	8	0.042	0.64	0.92	0.43	0.19	2.19	0.57	1.35	4.12	
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	0.95	1.37	0.65	0.28	3.27	0.87	2.00	6.15	
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.64	0.92	0.63	0.19	2.40	0.84	1.35	4.60	
Spray (Broadcast)	27'	MFWD 170	7,270	200	8	0.062	0.95	1.37	0.21	0.28	2.83	0.28	2.00	5.11	
Spray (Broadcast)	40'	MFWD 170	8,630	200	8	0.042	0.64	0.92	0.17	0.19	1.93	0.22	1.35	3.51	
Spray (Broadcast)	50'	MFWD 170	13,700	200	8	0.033	0.51	0.74	0.21	0.15	1.63	0.28	1.08	3.00	
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.48	0.69	0.14	0.14	1.48	0.19	1.01	2.69	
Spray (Broadcast)	60'	MFWD 170	15,600	200	8	0.028	0.43	0.61	0.20	0.13	1.38	0.27	0.90	2.55	
Spray (Direct/Hood)	8R-30	MFWD 170	20,000	200	8	0.084	1.29	1.85	0.79	0.39	4.32	1.05	2.70	8.08	
Spray (Direct/Hood)	8R-38	MFWD 170	21,500	200	8	0.066	1.02	1.46	0.67	0.30	3.46	0.89	2.13	6.49	
Spray (Direct/Hood)	12R-30	MFWD 170	24,800	200	8	0.056	0.86	1.23	0.65	0.26	3.01	0.87	1.80	5.68	
Spray (Direct/Hood)	12R-38	MFWD 170	26,600	200	8	0.044	0.67	0.97	0.55	0.20	2.41	0.73	1.42	4.57	
Spray (Direct/Layby)	8R-30	MFWD 170	11,300	200	8	0.084	1.29	1.85	0.44	0.39	3.98	0.59	2.70	7.28	
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.02	1.46	0.35	0.30	3.14	0.47	2.13	5.75	
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,900	200	8	0.044	0.67	0.97	0.31	0.20	2.17	0.41	1.42	4.00	
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.03	1.48	0.38	0.31	3.21	0.51	2.16	5.89	
Spray (Direct/Layby)	12R-30	MFWD 170	14,900	200	8	0.056	0.86	1.23	0.39	0.26	2.74	0.52	1.80	5.07	
Spray (Direct/Layby)	12R-38	MFWD 170	14,900	200	8	0.044	0.67	0.97	0.31	0.20	2.17	0.41	1.42	4.00	
Spray (Direct/Layby)	16R-20	MFWD 170	17,100	200	8	0.063	0.96	1.38	0.50	0.29	3.15	0.67	2.02	5.85	
Spray (Spot)	27'	MFWD 170	7,270	200	8	0.062	0.95	1.37	0.21	0.28	2.83	0.28	2.00	5.11	
Spray (Spot)	40'	MFWD 170	8,630	200	8	0.042	0.64	0.92	0.17	0.19	1.93	0.22	1.35	3.51	
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.51	0.74	0.21	0.15	1.63	0.28	1.08	3.00	
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.48	0.69	0.14	0.14	1.48	0.19	1.01	2.69	
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.43	0.61	0.20	0.13	1.38	0.27	0.90	2.55	
Stalk Shredder	14'	MFWD 150	21,100	200	10	0.117	1.26	2.27	2.17	0.47	6.19	1.45	3.18	10.82	
Stalk Shredder	20'	MFWD 150	29,300	200	10	0.082	0.88	1.59	2.11	0.33	4.92	1.41	2.22	8.56	
Stalk Shredder-Flail	12'	MFWD 150	17,400	200	10	0.137	1.47	2.65	2.09	0.55	6.78	1.39	3.71	11.88	
Stalk Shredder-Flail	20'	MFWD 150	29,300	200	10	0.082	0.88	1.59	2.11	0.33	4.92	1.41	2.22	8.56	
Subsoiler	3 shank	MFWD 190	5,860	100	15	0.204	2.19	4.99	0.39	1.11	8.70	1.12	7.71	17.54	
Subsoiler	4 shank	MFWD 225	9,200	100	15	0.153	1.64	4.44	0.47	0.91	7.48	1.32	6.33	15.14	
Subsoiler	5 shank	MFWD 225	12,600	100	15	0.122	1.31	3.54	0.51	0.73	6.09	1.44	5.04	12.59	
Subsoiler low-till	4 shank	MFWD 225	10,800	100	15	0.153	1.64	4.44	0.55	0.91	7.56	1.55	6.33	15.45	
Subsoiler low-till	6 shank	MFWD 225	14,600	100	15	0.102	1.09	2.95	0.49	0.60	5.16	1.40	4.21	10.77	
Subsoiler low-till	8 shank	MFWD 225	20,000	100	15	0.076	0.82	2.21	0.51	0.45	4.00	1.43	3.15	8.59	
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.72	4.65	0.83	0.96	8.17	1.61	6.63	16.42	
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.15	3.11	0.75	0.64	5.66	1.46	4.43	11.56	
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.19	5.91	1.05	1.21	10.38	2.05	8.42	20.85	
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.46	3.94	0.75	0.81	6.97	1.46	5.61	14.05	
Boll Buggy-1st Pick	2R38*157hp	MFWD 190	30,500	200	10	0.519	5.57	12.70	3.96	2.84	25.08	8.96	19.62	53.68	
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.84	4.21	1.31	0.94	8.31	2.97	6.50	17.80	
Boll Buggy-1st pick	4R30*255hp	MFWD 190	30,500	200	10	0.327	3.51	8.00	2.49	1.79	15.80	5.64	12.36	33.81	
Boll Buggy-1st pick	4R30*325hp	MFWD 190	30,500	200	10	0.327	3.51	8.00	2.49	1.79	15.80	5.64	12.36	33.81	
Boll Buggy-1st pick	4R38*255hp	MFWD 190	30,500	200	10	0.257	2.76	6.30	1.96	1.40	12.44	4.44	9.73	26.62	
Boll Buggy-1st pick	4R38*325hp	MFWD 190	30,500	200	10	0.257	2.76	6.30	1.96	1.40	12.44	4.44	9.73	26.62	
Boll Buggy-1st pick	5R30*255hp	MFWD 190	30,500	200	10	0.261	2.81	6.40	1.99	1.43	12.64	4.51	9.89	27.05	
Boll Buggy-1st pick	5R38*255hp	MFWD 190	30,500	200	10	0.207	2.22	5.06	1.57	1.13	10.00	3.57	7.82	21.40	
Boll Buggy-1st pick	6R30*325hp	MFWD 190	30,500	200	10	0.218	2.34	5.33	1.66	1.19	10.53	3.76	8.24	22.54	
Boll Buggy-1st pick	6R38*325hp	MFWD 190	30,500	200	10	0.172	1.84	4.21	1.31	0.94	8.31	2.97	6.50	17.80	
Boll Buggy-2nd pick	2R38*157hp	MFWD 190	30,500	200	10	0.440	4.72	10.76	3.35	2.40	21.24	7.59	16.62	45.47	
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.56	3.56	1.11	0.79	7.04	2.51	5.51	15.07	
Boll Buggy-2nd pick	4R30*255hp	MFWD 190	30,500	200	10	0.277	2.97	6.78	2.11	1.51	13.38	4.78	10.47	28.64	
Boll Buggy-2nd pick	4R30*325hp	MFWD 190	30,500	200	10	0.277	2.97	6.78	2.11	1.51	13.38	4.78	10.47	28.64	
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.34	5.33	1.66	1.19	10.54	3.76	8.24	22.55	
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.34	5.33	1.66	1.19	10.54	3.76	8.24	22.55	
Boll Buggy-2nd pick	5R30*255hp	MFWD 190	30,500	200	10	0.221	2.38	5.42	1.69	1.21	10.70	3.82	8.37	22.91	
Boll Buggy-2nd pick	5R38*255hp	MFWD 190	30,500	200	10	0.175	1.88	4.29	1.33	0.95	8.47	3.02	6.62	18.13	
Boll Buggy-2nd pick	6R30*325hp	MFWD 190	30,500	200	10	0.184	1.98	4.51	1.40	1.01	8.92	3.19	6.98	19.09	
Boll Buggy-2nd pick	6R38*325hp	MFWD 190	30,500	200	10	0.145	1.56	3.56	1.11	0.79	7.04	2.51	5.51	15.07	
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.70	4.86	1.92	1.02	10.50	4.34	6.79	21.64	
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.19	3.94	1.56	0.83	8.53	3.53	5.52	17.58	
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.84	3.32	1.31	0.70	7.18	2.97	4.64	14.81	
Boll Buggy-Stripper	4R30*2X1Br	MFWD 150	30,500	200	10	0.218	2.34	4.21	1.66	0.88	9.10	3.76	5.88	18.76	
Boll Buggy-Stripper	4R30*Brush	MFWD 150	30,500	200	10	0.327	3.51	6.31	2.49	1.32	13.65	5.64	8.83	28.14	
Boll Buggy-Stripper	4R38*2X1Br	MFWD 150	30,500	200	10	0.172	1.84	3.32	1.31	0.70	7.18	2.97	4.64	14.81	
Boll Buggy-Stripper	4R38*Brush	MFWD 150	30,500	200	10	0.257	2.76	4.97	1.96	1.04	10.75	4.44	6.95	22.15	
Boll Buggy-Stripper	5R30*Brush	MFWD 150	30,500	200	10	0.261	2.81	5.05	1.99	1.06	10.92	4.51	7.06	22.51	
Boll Buggy-Stripper	5R38*Brush	MFWD 150	30,500	200	10	0.207	2.22	3.99	1.57	0.84	8.64	3.57	5.59	17.81	
Boll Buggy-Stripper	6R30*Brush	MFWD 150	30,500	200	10	0.218	2.34	4.21	1.66	0.88	9.10	3.76	5.88	18.76	