Projected Costs and Returns Crop Enterprise Budgets for Corn Production in Louisiana, 2020

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Introduction

This publication presents estimates of projected costs and returns for corn production in Louisiana for the 2020 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 2020 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 2020 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

Expected Crop Yields and Market Prices

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

Direct Production Costs

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

Hired labor was charged at $11.33 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 5.25% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was $2.44 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 6.25%. 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, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	180.0000	73.80	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	3.40	2.1300	7.24	________
Intrepid 2F	oz	1.80	6.0000	10.80	________
Baythroid 2	oz	2.58	2.1300	5.50	________
SEED/PLANTS					
Corn Seed RR	thous	3.43	32.0000	109.76	________
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
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	11.33	0.1611	1.83	________
Tractors	hour	11.33	0.5819	6.60	________
DIESEL FUEL					
Tractors	gal	2.44	5.3318	13.01	________
Harvesters	gal	2.44	1.6602	4.05	________
REPAIR & MAINTENANCE					
Implements	Acre	8.36	1.0000	8.36	________
Tractors	Acre	3.13	1.0000	3.13	________
Harvesters	Acre	2.26	1.0000	2.26	________
INTEREST ON OP. CAP.	Acre	12.52	1.0000	12.52	________

TOTAL DIRECT EXPENSES				446.61	________
FIXED EXPENSES					
Implements	Acre	13.95	1.0000	13.95	________
Tractors	Acre	21.03	1.0000	21.03	________
Harvesters	Acre	9.60	1.0000	9.60	________

TOTAL FIXED EXPENSES				44.58	________

TOTAL SPECIFIED EXPENSES				491.19	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						dollars	dollars	dollars	dollars		dollars		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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.39	1.12	0.07	0.84				7.54
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.10	2.65	1.34	2.81	0.16	1.82				10.72
Corn Seed RR	thous											32.0000	3.43	109.76	109.76
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.31	3.12	0.98	1.21	0.11	1.32				8.94
LA Nitrogen	lb											150.0000	0.41	61.50	61.50
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	3.40	7.24	7.24
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	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.31	9.60	1.73	2.82	0.13	1.82				22.28
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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						22.45	30.63	8.36	13.95	0.87	10.25			393.03	478.67
INTEREST ON OPERATING CAPITAL															12.52
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															491.19

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, 2020.

			BREAKEVEN PRICE										
Corn			2.00	2.11	2.24	2.39	2.57	2.79	3.05	3.38	3.80	4.36	5.15
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-252	-243	-232	-220	-206	-189	-168	-141	-108	-63	0
			-296	-287	-277	-265	-250	-233	-212	-186	-152	-107	-44
60	96.00	bu	-226	-216	-203	-189	-171	-151	-126	-94	-54	0	75
			-271	-260	-248	-233	-216	-195	-170	-139	-98	-44	31
70	112.00	bu	-201	-189	-174	-157	-137	-113	-84	-47	0	63	151
			-246	-233	-219	-202	-182	-158	-128	-91	-44	18	106
80	128.00	bu	-176	-162	-145	-126	-103	-75	-42	0	54	126	226
			-221	-206	-190	-170	-147	-120	-86	-44	9	81	182
90	144.00	bu	-151	-135	-116	-94	-68	-37	0	47	108	189	302
			-195	-179	-160	-139	-113	-82	-44	2	63	144	258
100	160.00	bu	-126	-108	-87	-63	-34	0	42	94	162	252	378
			-170	-152	-131	-107	-78	-44	-2	49	117	207	333
110	176.00	bu	-100	-81	-58	-31	0	37	84	141	216	315	453
			-145	-125	-102	-76	-44	-6	39	97	171	270	409
120	192.00	bu	-75	-54	-29	0	34	75	126	189	270	378	529
			-120	-98	-73	-44	-10	31	81	144	225	333	484
130	208.00	bu	-50	-27	0	31	68	113	168	236	324	441	605
			-95	-71	-44	-13	24	68	123	191	279	396	560
140	224.00	bu	-25	0	29	63	103	151	210	283	378	504	680
			-69	-44	-15	18	58	106	165	239	333	459	636
150	240.00	bu	0	27	58	94	137	189	252	330	432	567	756
			-44	-17	13	49	92	144	207	286	387	522	711

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, 2020.

			BREAKEVEN PRICE										
Corn			2.18	2.31	2.46	2.62	2.82	3.06	3.36	3.73	4.20	4.83	5.71
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-237	-227	-215	-202	-186	-166	-143	-113	-76	-25	44
			-281	-271	-260	-246	-230	-211	-187	-158	-120	-70	0
60	96.00	bu	-209	-197	-183	-166	-147	-124	-96	-61	-15	44	129
			-253	-241	-227	-211	-192	-169	-140	-105	-60	0	84
70	112.00	bu	-180	-166	-150	-131	-109	-82	-49	-8	44	115	213
			-225	-211	-195	-176	-153	-126	-93	-52	0	70	169
80	128.00	bu	-152	-136	-118	-96	-70	-39	-2	44	104	185	298
			-197	-181	-162	-140	-115	-84	-46	0	60	140	253
90	144.00	bu	-124	-106	-85	-61	-32	2	44	97	165	255	382
			-169	-151	-130	-105	-76	-42	0	52	120	211	338
100	160.00	bu	-96	-76	-52	-25	6	44	91	150	225	326	467
			-140	-120	-97	-70	-38	0	46	105	181	281	422
110	176.00	bu	-68	-46	-20	9	44	86	138	203	286	396	551
			-112	-90	-65	-35	0	42	93	158	241	352	507
120	192.00	bu	-39	-15	12	44	83	129	185	255	346	467	636
			-84	-60	-32	0	38	84	140	211	302	422	591
130	208.00	bu	-11	14	44	79	121	171	232	308	406	537	721
			-56	-30	0	35	76	126	187	264	362	493	676
140	224.00	bu	16	44	77	115	159	213	279	361	467	608	805
			-28	0	32	70	115	169	234	317	422	563	761
150	240.00	bu	44	74	109	150	198	255	326	414	527	678	890
			0	30	65	105	153	211	281	369	483	634	845

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

Table 2.A Estimated costs per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	210.0000	86.10	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	3.40	2.1300	7.24	________
Baythroid 2	oz	2.58	2.1300	5.50	________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	________
SEED/PLANTS					
Corn Seed RR	thous	3.43	35.0000	120.05	________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.3300	11.31	________
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	11.33	0.1611	1.83	________
Tractors	hour	11.33	0.8812	10.00	________
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	________
DIESEL FUEL					
Tractors	gal	2.44	8.2204	20.05	________
Harvesters	gal	2.44	1.6602	4.05	________
Roll-Out Pipe Irr.	gal	2.44	8.5535	20.88	________
REPAIR & MAINTENANCE					
Implements	Acre	8.82	1.0000	8.82	________
Tractors	Acre	4.86	1.0000	4.86	________
Harvesters	Acre	2.26	1.0000	2.26	________
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	________
INTEREST ON OP. CAP.	Acre	14.05	1.0000	14.05	________

TOTAL DIRECT EXPENSES				513.20	________
FIXED EXPENSES					
Implements	Acre	15.30	1.0000	15.30	________
Tractors	Acre	32.83	1.0000	32.83	________
Harvesters	Acre	9.60	1.0000	9.60	________
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	________

TOTAL FIXED EXPENSES				113.62	________

TOTAL SPECIFIED EXPENSES				626.82	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						dollars					dollars		dollars		
Digital Ag Fee	acre			0.33	Sep							0.3300	8.50	2.81	2.81
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.39	1.12	0.07	0.84				7.54
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.10	2.65	1.34	2.81	0.16	1.82				10.72
Corn Seed RR	thous											35.0000	3.43	120.05	120.05
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.31	3.12	0.98	1.21	0.11	1.32				8.94
LA Nitrogen	lb											180.0000	0.41	73.80	73.80
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	3.40	7.24	7.24
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	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.31	9.60	1.73	2.82	0.13	1.82				22.28
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.19	0.25	0.06	0.12	0.00	0.07				0.69
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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	8.58	11.55	28.17	57.12	0.44	5.08	1.0000		8.25	118.75
TOTALS						31.22	42.43	36.59	71.19	1.33	15.40			415.94	612.77
INTEREST ON OPERATING CAPITAL															14.05
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															626.82

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, 2020.

			BREAKEVEN PRICE										
Corn			1.94	2.05	2.17	2.32	2.49	2.70	2.95	3.26	3.67	4.21	4.97
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-288	-277	-265	-252	-235	-216	-192	-162	-123	-72	0
			-401	-391	-379	-365	-349	-329	-305	-275	-237	-185	-113
60	114.00	bu	-259	-246	-232	-216	-196	-172	-144	-108	-61	0	86
			-372	-360	-346	-329	-309	-286	-257	-221	-175	-113	-27
70	133.00	bu	-230	-216	-199	-180	-157	-129	-96	-54	0	72	172
			-344	-329	-313	-293	-270	-243	-209	-167	-113	-41	59
80	152.00	bu	-201	-185	-166	-144	-117	-86	-48	0	61	144	259
			-315	-298	-279	-257	-231	-200	-161	-113	-51	30	145
90	171.00	bu	-172	-154	-132	-108	-78	-43	0	54	123	216	345
			-286	-267	-246	-221	-192	-156	-113	-59	9	102	231
100	190.00	bu	-144	-123	-99	-72	-39	0	48	108	185	288	432
			-257	-237	-213	-185	-152	-113	-65	-5	71	174	318
110	209.00	bu	-115	-92	-66	-36	0	43	96	162	246	360	518
			-228	-206	-180	-149	-113	-70	-17	48	133	246	404
120	228.00	bu	-86	-61	-33	0	39	86	144	216	308	432	604
			-200	-175	-146	-113	-74	-27	30	102	194	318	491
130	247.00	bu	-57	-30	0	36	78	129	192	270	370	504	691
			-171	-144	-113	-77	-35	15	78	156	256	390	577
140	266.00	bu	-28	0	33	72	117	172	240	324	432	576	777
			-142	-113	-80	-41	4	59	126	210	318	462	663
150	285.00	bu	0	30	66	108	157	216	288	378	493	648	864
			-113	-82	-47	-5	43	102	174	264	380	534	750

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, 2020.

			BREAKEVEN PRICE										
Corn			2.34	2.47	2.63	2.82	3.03	3.29	3.61	4.01	4.52	5.21	6.17
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-250	-237	-222	-204	-183	-159	-128	-90	-42	22	113
			-363	-350	-335	-318	-297	-272	-242	-204	-155	-90	0
60	114.00	bu	-213	-198	-180	-159	-134	-104	-68	-22	35	113	222
			-327	-311	-293	-272	-248	-218	-181	-136	-77	0	109
70	133.00	bu	-177	-159	-138	-113	-84	-50	-7	45	113	204	331
			-291	-272	-251	-227	-198	-163	-121	-68	0	90	218
80	152.00	bu	-141	-120	-96	-68	-35	4	52	113	191	295	440
			-254	-233	-209	-181	-148	-109	-60	0	77	181	327
90	171.00	bu	-104	-81	-54	-22	14	59	113	181	269	386	550
			-218	-194	-167	-136	-99	-54	0	68	155	272	436
100	190.00	bu	-68	-42	-12	22	64	113	174	250	347	477	659
			-181	-155	-125	-90	-49	0	60	136	233	363	545
110	209.00	bu	-31	-3	29	68	113	168	234	318	425	568	768
			-145	-116	-83	-45	0	54	121	204	311	454	654
120	228.00	bu	4	35	71	113	163	222	295	386	503	659	877
			-109	-77	-41	0	49	109	181	272	389	545	763
130	247.00	bu	40	74	113	159	212	277	356	454	581	750	986
			-72	-38	0	45	99	163	242	341	467	636	873
140	266.00	bu	77	113	155	204	262	331	416	522	659	841	1095
			-36	0	41	90	148	218	303	409	545	727	982
150	285.00	bu	113	152	197	250	312	386	477	591	737	932	1204
			0	38	83	136	198	272	363	477	623	818	1091

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, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	180.0000	73.80	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	2.58	2.1300	5.50	________
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	32.0000	116.16	________
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
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	11.33	0.1611	1.83	________
Tractors	hour	11.33	0.5819	6.60	________
DIESEL FUEL					
Tractors	gal	2.44	5.3318	13.01	________
Harvesters	gal	2.44	1.6602	4.05	________
REPAIR & MAINTENANCE					
Implements	Acre	8.36	1.0000	8.36	________
Tractors	Acre	3.13	1.0000	3.13	________
Harvesters	Acre	2.26	1.0000	2.26	________
INTEREST ON OP. CAP.	Acre	12.19	1.0000	12.19	________

TOTAL DIRECT EXPENSES				434.64	________
FIXED EXPENSES					
Implements	Acre	13.95	1.0000	13.95	________
Tractors	Acre	21.03	1.0000	21.03	________
Harvesters	Acre	9.60	1.0000	9.60	________

TOTAL FIXED EXPENSES				44.58	________

TOTAL SPECIFIED EXPENSES				479.22	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.39	1.12	0.07	0.84				7.54
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.10	2.65	1.34	2.81	0.16	1.82				10.72
Corn Seed BtRR	thous											32.0000	3.63	116.16	116.16
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.31	3.12	0.98	1.21	0.11	1.32				8.94
LA Nitrogen	lb											150.0000	0.41	61.50	61.50
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	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.31	9.60	1.73	2.82	0.13	1.82				22.28
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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						22.45	30.63	8.36	13.95	0.87	10.25			381.39	467.03
INTEREST ON OPERATING CAPITAL															12.19
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															479.22

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, 2020.

Corn			BREAKEVEN PRICE										
			1.95	2.06	2.18	2.33	2.50	2.71	2.97	3.28	3.69	4.24	5.00
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-244	-235	-225	-213	-199	-183	-162	-137	-104	-61	0
			-288	-280	-269	-258	-244	-227	-207	-181	-149	-105	-44
60	96.00	bu	-219	-209	-197	-183	-166	-146	-122	-91	-52	0	73
			-264	-253	-241	-227	-211	-191	-166	-136	-96	-44	28
70	112.00	bu	-195	-183	-169	-152	-133	-109	-81	-45	0	61	146
			-239	-227	-213	-197	-177	-154	-125	-90	-44	16	101
80	128.00	bu	-170	-156	-140	-122	-99	-73	-40	0	52	122	219
			-215	-201	-185	-166	-144	-117	-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	1	60	138	248
100	160.00	bu	-122	-104	-84	-61	-33	0	40	91	156	244	366
			-166	-149	-129	-105	-77	-44	-3	46	112	199	321
110	176.00	bu	-97	-78	-56	-30	0	36	81	137	209	305	439
			-142	-123	-100	-75	-44	-7	36	92	164	260	394
120	192.00	bu	-73	-52	-28	0	33	73	122	183	261	366	512
			-117	-96	-72	-44	-11	28	77	138	217	321	468
130	208.00	bu	-48	-26	0	30	66	109	162	228	313	427	586
			-93	-70	-44	-14	22	65	118	184	269	382	541
140	224.00	bu	-24	0	28	61	99	146	203	274	366	488	659
			-68	-44	-16	16	55	101	158	230	321	443	614
150	240.00	bu	0	26	56	91	133	183	244	320	418	549	732
			-44	-18	11	46	88	138	199	275	374	504	687

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, 2020.

Corn			BREAKEVEN PRICE										
			2.13	2.26	2.40	2.56	2.76	2.99	3.28	3.63	4.09	4.70	5.56
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-229	-219	-208	-195	-179	-160	-138	-109	-72	-23	44
			-273	-264	-252	-239	-224	-205	-182	-154	-117	-68	0
60	96.00	bu	-201	-190	-176	-160	-142	-119	-92	-58	-14	44	126
			-246	-234	-221	-205	-186	-164	-136	-102	-58	0	82
70	112.00	bu	-174	-160	-145	-126	-104	-78	-46	-6	44	113	208
			-219	-205	-189	-171	-149	-123	-91	-51	0	68	164
80	128.00	bu	-147	-131	-113	-92	-67	-37	-1	44	103	181	291
			-191	-176	-158	-136	-112	-82	-45	0	58	136	246
90	144.00	bu	-119	-102	-81	-58	-30	3	44	95	161	250	373
			-164	-146	-126	-102	-74	-41	0	51	117	205	328
100	160.00	bu	-92	-72	-50	-23	7	44	90	147	220	318	455
			-136	-117	-94	-68	-37	0	45	102	176	273	410
110	176.00	bu	-64	-43	-18	10	44	85	135	198	279	386	537
			-109	-88	-63	-34	0	41	91	154	234	342	493
120	192.00	bu	-37	-14	12	44	81	126	181	250	338	455	619
			-82	-58	-31	0	37	82	136	205	293	410	575
130	208.00	bu	-10	15	44	78	119	167	227	301	396	523	701
			-54	-29	0	34	74	123	182	256	352	479	657
140	224.00	bu	17	44	76	113	156	208	272	352	455	592	784
			-27	0	31	68	112	164	228	308	410	547	739
150	240.00	bu	44	73	107	147	193	250	318	404	514	660	866
			0	29	63	102	149	205	273	359	469	616	821

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, 2020.

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	0.38	30.0000	11.40	_________
LA Potash	lb	0.27	60.0000	16.20	_________
LA Nitrogen	lb	0.41	210.0000	86.10	_________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_________
2,4-D Amine 4	pt	1.85	1.0000	1.85	_________
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	2.58	2.1300	5.50	_________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_________
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	35.0000	127.05	_________
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_________
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
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	11.33	0.1611	1.83	_________
Tractors	hour	11.33	0.8750	9.93	_________
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_________
DIESEL FUEL					
Tractors	gal	2.44	8.1593	19.90	_________
Harvesters	gal	2.44	1.6602	4.05	_________
Roll-Out Pipe Irr.	gal	2.44	8.5535	20.88	_________
REPAIR & MAINTENANCE					
Implements	Acre	8.76	1.0000	8.76	_________
Tractors	Acre	4.82	1.0000	4.82	_________
Harvesters	Acre	2.26	1.0000	2.26	_________
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_________
INTEREST ON OP. CAP.	Acre	14.18	1.0000	14.18	_________

TOTAL DIRECT EXPENSES				522.50	_________
FIXED EXPENSES					
Implements	Acre	15.18	1.0000	15.18	_________
Tractors	Acre	32.58	1.0000	32.58	_________
Harvesters	Acre	9.60	1.0000	9.60	_________
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_________

TOTAL FIXED EXPENSES				113.25	_________

TOTAL SPECIFIED EXPENSES				635.75	_________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.39	1.12	0.07	0.84				7.54
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.10	2.65	1.34	2.81	0.16	1.82				10.72
Corn Seed BtRR	thous											35.0000	3.63	127.05	127.05
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.31	3.12	0.98	1.21	0.11	1.32				8.94
LA Nitrogen	lb											180.0000	0.41	73.80	73.80
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	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.31	9.60	1.73	2.82	0.13	1.82				22.28
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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	8.58	11.55	28.17	57.12	0.44	5.08	1.0000		8.25	118.75
TOTALS						31.03	42.18	36.53	71.07	1.32	15.33			425.43	621.57
INTEREST ON OPERATING CAPITAL															14.18
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															635.75

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, 2020.

			BREAKEVEN PRICE										
Corn			1.97	2.08	2.21	2.36	2.53	2.75	3.00	3.33	3.74	4.29	5.07
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-294	-283	-271	-257	-240	-220	-196	-165	-126	-73	0
			-407	-396	-384	-370	-353	-333	-309	-278	-239	-186	-113
60	114.00	bu	-264	-252	-237	-220	-200	-176	-147	-110	-63	0	88
			-378	-365	-350	-333	-313	-289	-260	-223	-176	-113	-24
70	133.00	bu	-235	-220	-203	-183	-160	-132	-98	-55	0	73	176
			-348	-333	-316	-297	-273	-245	-211	-168	-113	-39	63
80	152.00	bu	-205	-189	-169	-147	-120	-88	-49	0	63	147	264
			-319	-302	-282	-260	-233	-201	-162	-113	-50	33	151
90	171.00	bu	-176	-157	-135	-110	-80	-44	0	55	126	220	353
			-289	-270	-249	-223	-193	-157	-113	-58	12	107	239
100	190.00	bu	-147	-126	-101	-73	-40	0	49	110	189	294	441
			-260	-239	-215	-186	-153	-113	-64	-2	75	180	328
110	209.00	bu	-117	-94	-67	-36	0	44	98	165	252	367	529
			-230	-207	-181	-150	-113	-69	-15	52	138	254	416
120	228.00	bu	-88	-63	-33	0	40	88	147	220	315	441	617
			-201	-176	-147	-113	-73	-24	33	107	201	328	504
130	247.00	bu	-58	-31	0	36	80	132	196	275	378	514	706
			-172	-144	-113	-76	-33	19	82	162	265	401	592
140	266.00	bu	-29	0	33	73	120	176	245	330	441	588	794
			-142	-113	-79	-39	7	63	131	217	328	475	681
150	285.00	bu	0	31	67	110	160	220	294	386	504	661	882
			-113	-81	-45	-2	47	107	180	272	391	548	769

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, 2020.

			BREAKEVEN PRICE										
Corn			2.37	2.51	2.67	2.85	3.08	3.34	3.67	4.07	4.59	5.29	6.26
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-256	-243	-228	-210	-189	-164	-133	-94	-45	20	113
			-369	-356	-341	-323	-302	-277	-246	-207	-158	-92	0
60	114.00	bu	-219	-203	-185	-164	-138	-108	-71	-25	34	113	224
			-332	-316	-298	-277	-252	-221	-184	-138	-79	0	110
70	133.00	bu	-182	-164	-142	-117	-88	-53	-9	43	113	205	335
			-295	-277	-255	-231	-201	-166	-123	-69	0	92	221
80	152.00	bu	-145	-124	-100	-71	-37	2	51	113	192	298	445
			-258	-237	-213	-184	-151	-110	-61	0	79	184	332
90	171.00	bu	-108	-84	-57	-25	12	57	113	182	271	390	556
			-221	-198	-170	-138	-100	-55	0	69	158	277	443
100	190.00	bu	-71	-45	-14	20	62	113	174	251	350	482	667
			-184	-158	-127	-92	-50	0	61	138	237	369	554
110	209.00	bu	-34	-5	27	67	113	168	236	321	430	575	778
			-147	-118	-85	-46	0	55	123	207	316	462	665
120	228.00	bu	2	34	70	113	163	224	298	390	509	667	889
			-110	-79	-42	0	50	110	184	277	396	554	776
130	247.00	bu	39	73	113	159	214	279	359	459	588	760	1000
			-73	-39	0	46	100	166	246	346	475	646	887
140	266.00	bu	76	113	155	205	264	335	421	529	667	852	1111
			-36	0	42	92	151	221	308	415	554	739	998
150	285.00	bu	113	152	198	251	314	390	482	598	747	945	1222
			0	39	85	138	201	277	369	485	633	831	1109

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, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	180.0000	73.80	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	3.40	2.1300	7.24	________
Intrepid 2F	oz	1.80	6.0000	10.80	________
Baythroid 2	oz	2.58	2.1300	5.50	________
SEED/PLANTS					
Corn Seed RR	thous	3.43	32.0000	109.76	________
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
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	11.33	0.1175	1.33	________
Tractors	hour	11.33	0.5005	5.68	________
DIESEL FUEL					
Tractors	gal	2.44	4.8007	11.71	________
Harvesters	gal	2.44	1.2047	2.94	________
REPAIR & MAINTENANCE					
Implements	Acre	8.80	1.0000	8.80	________
Tractors	Acre	2.85	1.0000	2.85	________
Harvesters	Acre	3.12	1.0000	3.12	________
INTEREST ON OP. CAP.	Acre	12.41	1.0000	12.41	________

TOTAL DIRECT EXPENSES				443.02	________
FIXED EXPENSES					
Implements	Acre	14.93	1.0000	14.93	________
Tractors	Acre	19.15	1.0000	19.15	________
Harvesters	Acre	13.25	1.0000	13.25	________

TOTAL FIXED EXPENSES				47.33	________

TOTAL SPECIFIED EXPENSES				490.35	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56				6.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.47	1.99	1.49	3.12	0.09	1.12				9.19
Corn Seed RR	thous											32.0000	3.43	109.76	109.76
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.83	2.50	0.74	0.91	0.07	0.88				6.86
LA Nitrogen	lb											150.0000	0.41	61.50	61.50
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	3.40	7.24	7.24
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	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.06	13.25	2.19	3.58	0.08	1.15				26.23
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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						20.62	32.40	8.80	14.93	0.70	8.16			393.03	477.94
INTEREST ON OPERATING CAPITAL															12.41
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															490.35

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, 2020.

			BREAKEVEN PRICE										
Corn			1.98	2.09	2.22	2.37	2.55	2.76	3.02	3.35	3.77	4.32	5.11
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-249	-240	-230	-218	-204	-187	-166	-140	-107	-62	0
			-297	-288	-277	-265	-251	-234	-213	-187	-154	-109	-47
60	96.00	bu	-224	-214	-201	-187	-170	-149	-124	-93	-53	0	74
			-272	-261	-249	-234	-217	-197	-172	-140	-100	-47	27
70	112.00	bu	-199	-187	-172	-156	-136	-112	-83	-46	0	62	149
			-247	-234	-220	-203	-183	-159	-130	-94	-47	15	102
80	128.00	bu	-174	-160	-144	-124	-102	-74	-41	0	53	124	224
			-222	-207	-191	-172	-149	-122	-88	-47	6	77	177
90	144.00	bu	-149	-133	-115	-93	-68	-37	0	46	107	187	299
			-197	-181	-162	-140	-115	-84	-47	-0	59	139	252
100	160.00	bu	-124	-107	-86	-62	-34	0	41	93	160	249	374
			-172	-154	-133	-109	-81	-47	-5	46	113	202	327
110	176.00	bu	-99	-80	-57	-31	0	37	83	140	214	312	449
			-147	-127	-104	-78	-47	-9	35	93	166	264	402
120	192.00	bu	-74	-53	-28	0	34	74	124	187	267	374	524
			-122	-100	-76	-47	-13	27	77	139	220	327	477
130	208.00	bu	-49	-26	0	31	68	112	166	234	321	437	599
			-97	-74	-47	-16	20	65	119	186	273	389	552
140	224.00	bu	-24	0	28	62	102	149	208	280	374	499	674
			-72	-47	-18	15	54	102	160	233	327	452	627
150	240.00	bu	0	26	57	93	136	187	249	327	428	561	749
			-47	-20	10	46	88	139	202	280	380	514	701

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, 2020.

			BREAKEVEN PRICE										
Corn			2.18	2.31	2.45	2.62	2.82	3.06	3.35	3.72	4.19	4.82	5.70
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-233	-223	-212	-198	-182	-163	-140	-110	-73	-23	47
			-281	-271	-259	-246	-230	-210	-187	-158	-120	-70	0
60	96.00	bu	-205	-193	-179	-163	-144	-121	-93	-58	-12	47	131
			-253	-241	-227	-210	-191	-168	-140	-105	-60	0	84
70	112.00	bu	-177	-163	-147	-128	-106	-79	-46	-5	47	117	216
			-225	-210	-194	-175	-153	-126	-93	-52	0	70	168
80	128.00	bu	-149	-133	-114	-93	-67	-37	0	47	107	187	300
			-196	-180	-162	-140	-115	-84	-46	0	60	140	253
90	144.00	bu	-121	-103	-82	-58	-29	5	47	100	167	258	384
			-168	-150	-129	-105	-76	-42	0	52	120	210	337
100	160.00	bu	-93	-73	-50	-23	8	47	94	152	228	328	469
			-140	-120	-97	-70	-38	0	46	105	180	281	421
110	176.00	bu	-65	-43	-17	12	47	89	141	205	288	398	553
			-112	-90	-64	-35	0	42	93	158	241	351	506
120	192.00	bu	-37	-12	14	47	85	131	187	258	348	469	638
			-84	-60	-32	0	38	84	140	210	301	421	590
130	208.00	bu	-8	17	47	82	124	173	234	311	409	539	722
			-56	-30	0	35	76	126	187	263	361	492	675
140	224.00	bu	19	47	79	117	162	216	281	363	469	609	806
			-28	0	32	70	115	168	234	316	421	562	759
150	240.00	bu	47	77	112	152	200	258	328	416	529	680	891
			0	30	64	105	153	210	281	369	482	632	843

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, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	210.0000	86.10	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	3.40	2.1300	7.24	________
Baythroid 2	oz	2.58	2.1300	5.50	________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	________
SEED/PLANTS					
Corn Seed RR	thous	3.43	35.0000	120.05	________
SERVICE FEE					
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	11.33	0.1175	1.33	________
Tractors	hour	11.33	0.7998	9.08	________
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	________
DIESEL FUEL					
Tractors	gal	2.44	7.6894	18.75	________
Harvesters	gal	2.44	1.2047	2.94	________
Roll-Out Pipe Irr.	gal	2.44	8.5535	20.88	________
REPAIR & MAINTENANCE					
Implements	Acre	9.26	1.0000	9.26	________
Tractors	Acre	4.58	1.0000	4.58	________
Harvesters	Acre	3.12	1.0000	3.12	________
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	________
INTEREST ON OP. CAP.	Acre	13.95	1.0000	13.95	________

TOTAL DIRECT EXPENSES				510.85	________
FIXED EXPENSES					
Implements	Acre	16.28	1.0000	16.28	________
Tractors	Acre	30.95	1.0000	30.95	________
Harvesters	Acre	13.25	1.0000	13.25	________
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	________

TOTAL FIXED EXPENSES				116.37	________

TOTAL SPECIFIED EXPENSES				627.22	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56				6.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.47	1.99	1.49	3.12	0.09	1.12				9.19
Corn Seed RR	thous											35.0000	3.43	120.05	120.05
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.83	2.50	0.74	0.91	0.07	0.88				6.86
LA Nitrogen	lb											180.0000	0.41	73.80	73.80
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	3.40	7.24	7.24
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	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.06	13.25	2.19	3.58	0.08	1.15				26.23
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.19	0.25	0.06	0.12	0.00	0.07				0.69
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep								8.50		
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	8.58	11.55	28.17	57.12	0.44	5.08	1.0000		8.25	118.75
TOTALS						29.39	44.20	37.03	72.17	1.15	13.31			417.17	613.27
INTEREST ON OPERATING CAPITAL															13.95
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															627.22

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, 2020.

			BREAKEVEN PRICE										
Corn			1.93	2.04	2.16	2.31	2.48	2.68	2.93	3.25	3.65	4.19	4.95
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-286	-276	-264	-250	-234	-214	-190	-161	-122	-71	0
			-402	-392	-380	-367	-350	-331	-307	-277	-239	-187	-116
60	114.00	bu	-257	-245	-231	-214	-195	-171	-143	-107	-61	0	85
			-374	-361	-347	-331	-311	-288	-259	-223	-177	-116	-30
70	133.00	bu	-229	-214	-198	-179	-156	-128	-95	-53	0	71	171
			-345	-331	-314	-295	-272	-245	-211	-170	-116	-44	55
80	152.00	bu	-200	-184	-165	-143	-117	-85	-47	0	61	143	257
			-316	-300	-281	-259	-233	-202	-164	-116	-54	26	141
90	171.00	bu	-171	-153	-132	-107	-78	-42	0	53	122	214	343
			-288	-269	-248	-223	-194	-159	-116	-62	6	98	227
100	190.00	bu	-143	-122	-99	-71	-39	0	47	107	184	286	429
			-259	-239	-215	-187	-155	-116	-68	-8	67	170	313
110	209.00	bu	-114	-92	-66	-35	0	42	95	161	245	358	515
			-230	-208	-182	-152	-116	-73	-20	44	129	241	399
120	228.00	bu	-85	-61	-33	0	39	85	143	214	306	429	601
			-202	-177	-149	-116	-77	-30	26	98	190	313	485
130	247.00	bu	-57	-30	0	35	78	128	190	268	368	501	687
			-173	-147	-116	-80	-38	12	74	152	251	384	571
140	266.00	bu	-28	0	33	71	117	171	238	322	429	572	773
			-145	-116	-83	-44	0	55	122	205	313	456	657
150	285.00	bu	0	30	66	107	156	214	286	375	491	644	859
			-116	-85	-50	-8	39	98	170	259	374	528	742

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, 2020.

			BREAKEVEN PRICE										
Corn			2.34	2.48	2.63	2.82	3.03	3.30	3.62	4.01	4.53	5.21	6.17
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-247	-234	-219	-202	-181	-156	-126	-88	-39	25	116
			-364	-351	-336	-318	-297	-273	-242	-204	-156	-91	0
60	114.00	bu	-211	-195	-177	-156	-131	-102	-65	-20	38	116	225
			-327	-312	-294	-273	-248	-218	-182	-136	-78	0	109
70	133.00	bu	-174	-156	-135	-111	-82	-47	-4	48	116	207	334
			-291	-273	-252	-227	-198	-163	-121	-68	0	91	218
80	152.00	bu	-138	-117	-93	-65	-32	7	55	116	194	298	443
			-254	-234	-210	-182	-148	-109	-60	0	78	182	327
90	171.00	bu	-102	-78	-51	-20	17	61	116	184	272	389	553
			-218	-195	-168	-136	-99	-54	0	68	156	273	436
100	190.00	bu	-65	-39	-9	25	66	116	177	252	350	480	662
			-182	-156	-126	-91	-49	0	60	136	234	364	546
110	209.00	bu	-29	-0	32	70	116	170	237	321	428	571	771
			-145	-117	-84	-45	0	54	121	204	312	455	655
120	228.00	bu	7	38	74	116	166	225	298	389	506	662	880
			-109	-78	-42	0	49	109	182	273	390	546	764
130	247.00	bu	43	77	116	161	215	280	359	457	584	753	990
			-72	-39	0	45	99	163	242	341	468	637	873
140	266.00	bu	79	116	158	207	265	334	419	525	662	844	1099
			-36	0	42	91	148	218	303	409	546	728	982
150	285.00	bu	116	155	200	252	314	389	480	594	740	935	1208
			0	39	84	136	198	273	364	477	624	819	1092

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, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	180.0000	73.80	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	2.58	2.1300	5.50	________
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	32.0000	116.16	________
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
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	11.33	0.1175	1.33	________
Tractors	hour	11.33	0.5005	5.68	________
DIESEL FUEL					
Tractors	gal	2.44	4.8007	11.71	________
Harvesters	gal	2.44	1.2047	2.94	________
REPAIR & MAINTENANCE					
Implements	Acre	8.80	1.0000	8.80	________
Tractors	Acre	2.85	1.0000	2.85	________
Harvesters	Acre	3.12	1.0000	3.12	________
INTEREST ON OP. CAP.	Acre	12.08	1.0000	12.08	________

TOTAL DIRECT EXPENSES				431.05	________
FIXED EXPENSES					
Implements	Acre	14.93	1.0000	14.93	________
Tractors	Acre	19.15	1.0000	19.15	________
Harvesters	Acre	13.25	1.0000	13.25	________

TOTAL FIXED EXPENSES				47.33	________

TOTAL SPECIFIED EXPENSES				478.38	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						dollars	dollars	dollars	dollars		dollars		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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56				6.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.47	1.99	1.49	3.12	0.09	1.12				9.19
Corn Seed BtRR	thous											32.0000	3.63	116.16	116.16
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.83	2.50	0.74	0.91	0.07	0.88				6.86
LA Nitrogen	lb											150.0000	0.41	61.50	61.50
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	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.06	13.25	2.19	3.58	0.08	1.15				26.23
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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						20.62	32.40	8.80	14.93	0.70	8.16			381.39	466.30
INTEREST ON OPERATING CAPITAL															12.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															478.38

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, 2020.

			BREAKEVEN PRICE										
Corn			1.93	2.04	2.17	2.31	2.48	2.69	2.94	3.26	3.66	4.20	4.96
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-241	-233	-223	-211	-197	-181	-161	-136	-103	-60	0
			-289	-280	-270	-258	-245	-228	-208	-183	-150	-107	-47
60	96.00	bu	-217	-207	-195	-181	-164	-145	-120	-90	-51	0	72
			-264	-254	-242	-228	-212	-192	-168	-138	-99	-47	25
70	112.00	bu	-193	-181	-167	-151	-131	-108	-80	-45	0	60	145
			-240	-228	-214	-198	-179	-156	-127	-92	-47	13	97
80	128.00	bu	-169	-155	-139	-120	-98	-72	-40	0	51	120	217
			-216	-202	-186	-168	-146	-119	-87	-47	4	73	170
90	144.00	bu	-145	-129	-111	-90	-65	-36	0	45	103	181	290
			-192	-176	-158	-138	-113	-83	-47	-1	56	134	242
100	160.00	bu	-120	-103	-83	-60	-32	0	40	90	155	241	362
			-168	-150	-131	-107	-80	-47	-7	43	108	194	315
110	176.00	bu	-96	-77	-55	-30	0	36	80	136	207	302	435
			-144	-125	-103	-77	-47	-11	33	88	159	254	387
120	192.00	bu	-72	-51	-27	0	32	72	120	181	259	362	507
			-119	-99	-75	-47	-14	25	73	134	211	315	460
130	208.00	bu	-48	-25	0	30	65	108	161	226	310	423	580
			-95	-73	-47	-17	18	61	113	179	263	375	532
140	224.00	bu	-24	0	27	60	98	145	201	272	362	483	652
			-71	-47	-19	13	51	97	154	224	315	436	605
150	240.00	bu	0	25	55	90	131	181	241	317	414	544	725
			-47	-21	8	43	84	134	194	270	367	496	678

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, 2020.

			BREAKEVEN PRICE										
Corn			2.13	2.25	2.39	2.56	2.75	2.98	3.27	3.63	4.08	4.69	5.55
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-226	-216	-204	-191	-176	-157	-134	-106	-69	-21	47
			-273	-263	-252	-239	-223	-205	-182	-153	-117	-68	0
60	96.00	bu	-198	-186	-173	-157	-139	-116	-89	-55	-11	47	129
			-246	-234	-220	-205	-186	-164	-136	-102	-58	0	82
70	112.00	bu	-171	-157	-141	-123	-101	-75	-43	-3	47	115	211
			-218	-205	-189	-170	-149	-123	-91	-51	0	68	164
80	128.00	bu	-144	-128	-110	-89	-64	-34	1	47	105	184	293
			-191	-175	-157	-136	-111	-82	-45	0	58	136	246
90	144.00	bu	-116	-99	-78	-55	-27	6	47	98	164	252	375
			-164	-146	-126	-102	-74	-41	0	51	117	205	328
100	160.00	bu	-89	-69	-47	-21	10	47	92	149	223	320	457
			-136	-117	-94	-68	-37	0	45	102	175	273	410
110	176.00	bu	-62	-40	-15	13	47	88	138	201	281	389	539
			-109	-87	-63	-34	0	41	91	153	234	341	492
120	192.00	bu	-34	-11	15	47	84	129	184	252	340	457	621
			-82	-58	-31	0	37	82	136	205	292	410	574
130	208.00	bu	-7	18	47	81	121	170	229	303	398	525	703
			-54	-29	0	34	74	123	182	256	351	478	656
140	224.00	bu	19	47	78	115	159	211	275	354	457	594	785
			-27	0	31	68	111	164	227	307	410	546	738
150	240.00	bu	47	76	110	149	196	252	320	406	515	662	867
			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 8.A Estimated costs per Acre
Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2020.

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	0.38	30.0000	11.40	________
LA Potash	lb	0.27	60.0000	16.20	________
LA Nitrogen	lb	0.41	210.0000	86.10	________
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	________
2,4-D Amine 4	pt	1.85	1.0000	1.85	________
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	2.58	2.1300	5.50	________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	________
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	35.0000	127.05	________
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
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	11.33	0.1175	1.33	________
Tractors	hour	11.33	0.7936	9.01	________
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	________
DIESEL FUEL					
Tractors	gal	2.44	7.6282	18.60	________
Harvesters	gal	2.44	1.2047	2.94	________
Roll-Out Pipe Irr.	gal	2.44	8.5535	20.88	________
REPAIR & MAINTENANCE					
Implements	Acre	9.20	1.0000	9.20	________
Tractors	Acre	4.54	1.0000	4.54	________
Harvesters	Acre	3.12	1.0000	3.12	________
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	________
INTEREST ON OP. CAP.	Acre	14.07	1.0000	14.07	________

TOTAL DIRECT EXPENSES				518.91	________
FIXED EXPENSES					
Implements	Acre	16.16	1.0000	16.16	________
Tractors	Acre	30.70	1.0000	30.70	________
Harvesters	Acre	13.25	1.0000	13.25	________
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	________

TOTAL FIXED EXPENSES				116.00	________

TOTAL SPECIFIED EXPENSES				634.91	________

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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	1.25	1.69	0.31	0.67	0.08	0.96				4.88
LA Phosphate	lb											30.0000	0.38	11.40	11.40
LA Potash	lb											60.0000	0.27	16.20	16.20
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56				6.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
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	1.85	1.85	1.85
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Roller	32'	MFWD 170	0.046	1.00	Mar	1.23	1.54	0.18	1.10	0.04	0.53				4.58
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.47	1.99	1.49	3.12	0.09	1.12				9.19
Corn Seed BtRR	thous											35.0000	3.63	127.05	127.05
LA Nitrogen	lb											30.0000	0.41	12.30	12.30
Ditcher		2WD 130	0.020	1.00	Mar	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.83	2.50	0.74	0.91	0.07	0.88				6.86
LA Nitrogen	lb											180.0000	0.41	73.80	73.80
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	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.06	13.25	2.19	3.58	0.08	1.15				26.23
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	1.91	2.36	2.17	1.43	0.08	0.93				8.80
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
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	8.58	11.55	28.17	57.12	0.44	5.08	1.0000		8.25	118.75
TOTALS						29.20	43.95	36.97	72.05	1.15	13.24			425.43	620.84
INTEREST ON OPERATING CAPITAL															14.07
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															634.91

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, 2020.

			BREAKEVEN PRICE										
Corn			1.96	2.07	2.19	2.34	2.52	2.73	2.98	3.30	3.71	4.26	5.03
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-291	-281	-269	-255	-238	-218	-194	-164	-125	-72	0
			-407	-397	-385	-371	-354	-334	-310	-280	-241	-188	-116
60	114.00	bu	-262	-250	-235	-218	-198	-175	-145	-109	-62	0	87
			-378	-366	-351	-334	-314	-291	-261	-225	-178	-116	-28
70	133.00	bu	-233	-218	-202	-182	-159	-131	-97	-54	0	72	175
			-349	-334	-318	-298	-275	-247	-213	-170	-116	-43	59
80	152.00	bu	-204	-187	-168	-145	-119	-87	-48	0	62	145	262
			-320	-303	-284	-261	-235	-203	-164	-116	-53	29	146
90	171.00	bu	-175	-156	-134	-109	-79	-43	0	54	125	218	350
			-291	-272	-250	-225	-195	-159	-116	-61	9	102	234
100	190.00	bu	-145	-125	-101	-72	-39	0	48	109	187	291	437
			-261	-241	-217	-188	-155	-116	-67	-6	71	175	321
110	209.00	bu	-116	-93	-67	-36	0	43	97	164	250	364	525
			-232	-209	-183	-152	-116	-72	-18	48	134	248	409
120	228.00	bu	-87	-62	-33	0	39	87	145	218	312	437	612
			-203	-178	-149	-116	-76	-28	29	102	196	321	496
130	247.00	bu	-58	-31	0	36	79	131	194	273	375	510	700
			-174	-147	-116	-79	-36	15	78	157	259	394	584
140	266.00	bu	-29	0	33	72	119	175	243	328	437	583	787
			-145	-116	-82	-43	3	59	127	212	321	467	671
150	285.00	bu	0	31	67	109	159	218	291	383	500	656	875
			-116	-84	-48	-6	43	102	175	267	384	540	759

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, 2020.

			BREAKEVEN PRICE										
Corn			2.37	2.50	2.66	2.85	3.07	3.34	3.66	4.07	4.59	5.28	6.25
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-253	-239	-224	-207	-186	-160	-130	-91	-42	23	116
			-369	-355	-340	-323	-302	-276	-246	-207	-158	-92	0
60	114.00	bu	-216	-200	-182	-160	-135	-105	-68	-22	36	116	226
			-332	-316	-298	-276	-251	-221	-184	-138	-79	0	110
70	133.00	bu	-179	-160	-139	-114	-85	-50	-7	46	116	208	337
			-295	-276	-255	-230	-201	-166	-123	-69	0	92	221
80	152.00	bu	-142	-121	-96	-68	-35	5	54	116	195	300	448
			-258	-237	-212	-184	-151	-110	-61	0	79	184	332
90	171.00	bu	-105	-81	-54	-22	15	60	116	185	274	392	558
			-221	-197	-170	-138	-100	-55	0	69	158	276	442
100	190.00	bu	-68	-42	-11	23	65	116	177	254	353	485	669
			-184	-158	-127	-92	-50	0	61	138	237	369	553
110	209.00	bu	-31	-2	30	69	116	171	239	323	432	577	780
			-147	-118	-85	-46	0	55	123	207	316	461	664
120	228.00	bu	5	36	73	116	166	226	300	392	511	669	891
			-110	-79	-42	0	50	110	184	276	395	553	775
130	247.00	bu	42	76	116	162	216	282	362	462	590	762	1001
			-73	-39	0	46	100	166	246	346	474	646	885
140	266.00	bu	79	116	158	208	267	337	423	531	669	854	1112
			-36	0	42	92	151	221	307	415	553	738	996
150	285.00	bu	116	155	201	254	317	392	485	600	748	946	1223
			0	39	85	138	201	276	369	484	632	830	1107

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, 2020.

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	11.33	0.2930	3.33	________
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	________
DIESEL FUEL					
Tractors	gal	2.44	2.8274	6.89	________
Engine, RPF, 75	gal	2.44	8.5535	20.88	________
REPAIR & MAINTENANCE					
Implements	Acre	0.40	1.0000	0.40	________
Tractors	Acre	1.69	1.0000	1.69	________
Well & Pump, Furrow	each	472.80	0.0062	2.96	________
Engine, RPF, 75	ac-in	0.37	10.5000	3.93	________
INTEREST ON OP. CAP.	Acre	0.91	1.0000	0.91	________

TOTAL DIRECT EXPENSES				50.99	________
FIXED EXPENSES					
Implements	Acre	1.23	1.0000	1.23	________
Tractors	Acre	11.55	1.0000	11.55	________
Well & Pump, Furrow	each	1577.86	0.0062	9.86	________
Main Line Pipe	each	872.23	0.0062	5.45	________
Land Forming ($300)	each	31.23	1.0000	31.24	________
Engine, RPF, 75	each	1494.56	0.0062	9.34	________

TOTAL FIXED EXPENSES				68.67	________

TOTAL SPECIFIED EXPENSES				119.66	________

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	11.33	0.2036	2.31	________
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.44	11.2011	27.33	________
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	1.05	1.0000	1.05	________

TOTAL DIRECT EXPENSES				52.34	________
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1577.86	0.0074	11.69	________
Engine, 1/4 CP, 65	each	1494.56	0.0074	11.07	________
Pivot, 1/4 CP	each	8095.56	0.0074	59.97	________

TOTAL FIXED EXPENSES				82.73	________

TOTAL SPECIFIED EXPENSES				135.07	________

Appendix Table 3. Operating Inputs: Estimated Prices for 2020.

ITEM NAME	UNIT	PRICE
		dollars
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	7.50
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	3.00
DAP	cwt	22.64
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	0.41
LA Phosphate	lb	0.38
LA Potash	lb	0.27
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	13.62
UAN + Sulfur (28% N)	cwt	12.55
Urea, Solid (46% N)	cwt	20.22
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	1.66
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	3.00
Cruiser 5FS	oz	4.18
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	1.25
Ridomil GoldPC 10G	lb	2.08

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	60.00
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	0.72
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	0.07
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.21
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	7.01
CottonQuik	pt	6.06
Def 6	pt	7.55
Def/Folex	pt	7.55
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	2.90
Finish 6	pt	9.37
Folex 6EC	pt	8.61
Ginstar EC	pt	21.44
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.26
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.75
Sodium Chlorate 3L	gal	3.50
Solium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	4.17
AAtrex 4L	pt	2.24
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.00
Aim DF	oz	9.65
App Fert by Air	cwt	7.00
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	7.52
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	15.04
Basagran	pt	5.43
Basis Gold	lb	9.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	8.84
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	3.49
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.59
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.60
Classic	oz	14.02
Clincher EC	oz	1.95
Cobra 2EC	oz	1.72
Command 3ME	pt	16.09
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	5.75
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.75
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.99
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	5.39
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
Fultime	pt	6.29
Fusilade DX	oz	1.06
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	7.77
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	3.00
Gramoxone Max	pt	3.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Grandstand R	qt	17.15
Guardsman	pt	4.66
Guardsman 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	3.73
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	14.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.30
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.10
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	3.20
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.50
Select 2EC	oz	0.70
Sencor 4F	pt	14.74
Sencor DF	lb	18.00
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	11.58
Strongarm	oz	56.42
Superwham	qt	9.27
Suprend	lb	10.14
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	3.37
Treflan TR-10	lb	1.10

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.36
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	7.59
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
App Fert by Air(Min)	appl	7.00
Asana .66 XL	oz	0.48
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Brigade EC	pt	9.00
Brigade WSB	lb	26.04
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	4.89
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Custom Apply Fert	acre	7.00
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Diamond .83EC	pt	19.50
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	3.40
Lannate LV	pt	9.85
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. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Prevathon	oz	1.32
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
Surfactant	pt	1.75
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	2.57
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
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	3.43
Corn Seed VT3	thous	3.91
Corn Seed VT3Pro	thous	3.91
Cotton Seed BG/RR	thous	0.62
Cotton Seed BGII/RRF	thous	2.61
Cotton Seed Bt	thous	2.60
Cotton Seed BtRR	thous	2.60
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
Cotton Seed WS	thous	0.49
Cotton Seed WS/RR	thous	0.00
Cotton Seed WS/RRF	thous	0.59
Rice Clearfield 161	lb	1.13
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.90
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.30
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	3.94
Sorghum Hybrid Sudax	lb	1.20
Sorghum NonConcept	lb	1.18
Soybean Seed LL	lb	1.16
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.24
Wheat Seed Public	lb	0.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

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

Appendix Table 4. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2020.

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	23.86	0.00	37.37	0.00	37.37
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	30.13	16.82	60.47	71.40	131.87
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	31.40	0.00	44.91	0.00	44.91
Combine (250-299 hp)	275hp	352,000	300	8	14.15	13.51	34.52	36.66	84.70	155.57	240.27
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	37.03	22.73	73.28	96.44	169.72
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	36.42	0.00	49.93	0.00	49.93
Combine (300-349 hp)	325hp	383,000	300	8	16.73	13.51	40.82	39.89	94.22	169.27	263.50
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	40.18	0.00	53.69	0.00	53.69
Combine (350-379 hp)	370hp	390,000	300	8	19.04	13.51	46.45	40.62	100.59	172.37	272.96
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	45.84	0.00	59.35	0.00	59.35
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	19.71	26.56	59.78	112.70	172.49
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.33	11.68	2.72	25.74	8.59	34.33
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.33	8.54	1.57	21.44	4.98	26.42
Tractor(40-59hp)Cab	2WD 50	30,400	600	8	2.57	11.33	6.27	0.95	18.55	6.21	24.77
Tractor(40-59hp)Cab	MFWD 50	40,300	600	8	2.57	11.33	6.27	1.25	18.86	8.23	27.10
Tractor(40-59hp)RB	2WD 50	21,600	600	8	2.57	11.33	6.27	0.67	18.28	4.41	22.69
Tractor(40-59hp)RB	MFWD 50	27,500	600	8	2.57	11.33	6.27	0.85	18.46	5.61	24.08
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	11.33	9.41	1.65	22.39	10.78	33.18
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	11.33	9.41	1.95	22.70	12.76	35.47
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	11.33	9.41	1.20	21.95	7.88	29.84
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	11.33	9.41	1.25	22.00	8.19	30.19
Tractor(90-119hp)CB	2WD 105	69,300	600	8	5.40	11.33	13.18	2.16	26.68	14.15	40.84
Tractor(90-119hp)CB	MFWD 105	88,100	600	8	5.40	11.33	13.18	2.75	27.27	17.99	45.26
Tractor(90-119hp)RB	2WD 105	62,300	600	8	5.40	11.33	13.18	1.94	26.46	12.72	39.19
Tractor(90-119hp)RB	MFWD 105	69,700	600	8	5.40	11.33	13.18	2.17	26.69	14.23	40.93
Tractor(120-139hp)CB	2WD 130	110,000	600	8	6.69	11.33	16.32	3.43	31.09	22.47	53.56
Tractor(120-139hp)CB	MFWD 130	125,000	600	8	6.69	11.33	16.32	3.90	31.56	25.53	57.10
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	11.33	18.83	3.37	33.54	22.06	55.60
Tractor(140-159hp)CB	MFWD 150	140,000	600	8	7.72	11.33	18.83	4.37	34.54	28.60	63.14
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	11.33	21.35	4.87	37.55	33.17	70.72
Tractor(160-179hp)CB	MFWD 170	155,000	600	8	8.75	11.33	21.35	4.84	37.52	32.95	70.48
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	11.33	22.60	4.45	38.39	30.34	68.74
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	11.33	23.86	4.46	39.66	30.40	70.06
Tractor(180-199hp)CB	MFWD 190	189,000	600	8	9.77	11.33	23.86	5.90	41.09	40.18	81.28
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	11.33	28.25	4.59	44.18	31.27	75.45
Tractor(200-249hp)CB	MFWD 225	227,000	600	8	11.58	11.33	28.25	7.09	46.68	48.27	94.95
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	11.33	28.25	8.65	48.24	58.90	107.14
Tractor(250-349hp)CB	4WD 300	298,000	600	8	15.44	11.33	37.67	9.31	58.32	63.36	121.68
Tractor(250-349hp)CB	Track 300	327,000	600	8	15.44	11.33	37.67	10.21	59.22	69.53	128.76
Tractor(350-449hp)CB	4WD 400	342,000	600	8	20.58	11.33	50.23	10.68	72.25	72.72	144.97
Tractor(350-449hp)CB	Track 400	426,000	600	8	20.58	11.33	50.23	13.31	74.87	90.58	165.46
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.33	59.65	8.74	79.73	59.51	139.24

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 2020.

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

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre---------------------							
Blade-Box	6'	2WD 130	1,221	200	20	0.020	0.22	0.32	0.01	0.06	0.63	0.01	0.44	1.09
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	13.32	7.38	0.67	0.79	22.18	0.60	5.19	27.98
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	13.32	7.38	1.98	0.79	23.49	1.77	5.19	30.46
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
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	5.88	12.40	3.96	3.06	25.31	8.81	20.88	55.01
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.95	4.11	1.31	1.01	8.39	2.92	6.92	18.24
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.70	7.81	2.49	1.93	15.95	5.55	13.15	34.66
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.70	7.81	2.49	1.93	15.95	5.55	13.15	34.66
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	2.92	6.15	1.96	1.52	12.56	4.37	10.36	27.29
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	2.92	6.15	1.96	1.52	12.56	4.37	10.36	27.29
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	2.96	6.24	1.99	1.54	12.76	4.44	10.52	27.72
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.34	4.94	1.57	1.22	10.09	3.51	8.32	21.93
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.47	5.20	1.66	1.28	10.63	3.70	8.77	23.10
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	1.95	4.11	1.31	1.01	8.39	2.92	6.92	18.24
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	4.98	10.50	3.35	2.59	21.44	7.46	17.69	46.60
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.65	3.48	1.11	0.86	7.11	2.47	5.86	15.45
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	3.14	6.61	2.11	1.63	13.51	4.70	11.14	29.36
Boll Buggy-2nd pick	4R30"325hp	MFWD 190	30,500	200	10	0.277	3.14	6.61	2.11	1.63	13.51	4.70	11.14	29.36
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.47	5.21	1.66	1.28	10.63	3.70	8.77	23.11
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.47	5.21	1.66	1.28	10.63	3.70	8.77	23.11
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.51	5.29	1.69	1.31	10.80	3.76	8.91	23.48
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	1.98	4.18	1.33	1.03	8.55	2.97	7.05	18.58
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	2.09	4.41	1.40	1.09	9.00	3.13	7.42	19.57
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.65	3.48	1.11	0.86	7.11	2.47	5.86	15.45
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.85	4.74	1.92	1.10	10.61	4.27	7.20	22.09
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.31	3.85	1.56	0.89	8.62	3.47	5.85	17.95
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.95	3.24	1.31	0.75	7.26	2.92	4.92	15.11
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.47	4.11	1.66	0.95	9.20	3.70	6.24	19.14
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.70	6.16	2.49	1.43	13.80	5.55	9.36	28.72
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	1.95	3.24	1.31	0.75	7.26	2.92	4.92	15.11
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	2.92	4.85	1.96	1.12	10.87	4.37	7.37	22.61
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	2.96	4.93	1.99	1.14	11.04	4.44	7.49	22.97
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.34	3.90	1.57	0.90	8.73	3.51	5.92	18.17
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.47	4.11	1.66	0.95	9.20	3.70	6.24	19.14
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.30	1.88	0.93	0.39	4.53	1.79	2.59	8.92
Chisel Plow(Folding)	24'	MFWD 190	42,200	150	12	0.076	0.86	1.82	1.16	0.45	4.30	2.22	3.07	9.60
Chisel Plow(Folding)	32'	MFWD 225	54,200	150	12	0.057	0.65	1.63	1.13	0.40	3.82	2.15	2.78	8.77
Chisel Plow(Folding)	42'	MFWD 225	65,100	150	12	0.044	0.49	1.24	1.03	0.31	3.08	1.97	2.12	7.18
Chisel Plow(Rigid)	15'	2WD 130	14,700	150	12	0.123	1.39	2.01	0.65	0.42	4.48	1.24	2.76	8.50
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.87	1.83	0.32	0.45	3.49	0.62	3.09	7.20
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.99	2.10	0.21	0.39	3.70	0.40	2.67	6.79
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.77	1.93	0.34	0.48	3.54	0.66	3.30	7.51
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.99	2.10	0.61	0.39	4.10	1.16	2.67	7.94
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.77	1.93	0.59	0.48	3.78	1.13	3.30	8.22
Corn Grain Cart 8R30	500 bu	MFWD 190	25,700	200	12	0.031	0.36	0.76	0.22	0.18	1.53	0.42	1.28	3.24
Corn Grain Cart 8R40	700bu	MFWD 190	37,300	200	12	0.025	0.28	0.59	0.25	0.14	1.28	0.48	1.00	2.76
Cult & Post	4R-38	2WD 105	21,600	150	10	0.173	2.94	2.28	0.99	0.33	6.56	2.86	2.20	11.63
Cult & Post	6R-30	MFWD 150	25,900	150	10	0.146	4.98	2.76	1.01	0.64	9.40	2.91	4.19	16.50
Cult & Post	6R-38	MFWD 150	26,600	150	10	0.115	1.96	2.18	0.82	0.50	5.47	2.36	3.31	11.14
Cult & Post	8R-30	MFWD 190	31,500	150	10	0.110	1.86	2.62	0.92	0.64	6.06	2.65	4.42	13.14
Cult & Post	8R-38	MFWD 190	34,700	150	10	0.086	1.47	2.07	0.80	0.51	4.87	2.31	3.49	10.67
Cult & Post	8R-38 2x1	MFWD 190	47,900	150	10	0.057	0.98	1.38	0.73	0.34	3.44	2.12	2.32	7.89
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.49	2.48	0.75	0.62	5.35	2.15	4.24	11.76
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.10	1.83	0.00	0.46	3.40	0.00	3.14	6.54
Cult & Post	12R-30	MFWD 225	52,900	150	10	0.073	1.24	2.07	1.03	0.52	4.87	2.97	3.53	11.38
Cult & Post	12R-38	MFWD 225	53,200	150	10	0.057	0.98	1.63	0.82	0.41	3.85	2.36	2.79	9.00
Cultipacker	12'	2WD 130	6,910	300	12	0.124	1.40	2.03	0.20	0.42	4.07	0.30	2.79	7.17
Cultipacker	20'	MFWD 150	17,000	300	12	0.074	0.84	1.40	0.29	0.32	2.87	0.44	2.13	5.46
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	1.83	2.14	0.61	0.31	4.91	1.76	2.06	8.74
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	1.55	2.59	0.67	0.60	5.42	1.94	3.93	11.31
Cultivate	6R-38	MFWD 150	19,300	150	10	0.108	1.22	2.04	0.55	0.47	4.30	1.60	3.10	9.01
Cultivate	8R-30	MFWD 190	24,200	150	10	0.103	1.16	2.46	0.66	0.60	4.90	1.91	4.14	10.96
Cultivate	8R-38	MFWD 190	27,300	150	10	0.081	0.92	1.94	0.59	0.48	3.94	1.70	3.27	8.92
Cultivate	8R-38 2x1	MFWD 190	39,300	150	10	0.054	0.61	1.29	0.56	0.32	2.79	1.63	2.18	6.61
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.93	2.33	0.62	0.58	4.47	1.78	3.98	10.23
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.73	1.83	0.00	0.46	3.03	0.00	3.14	6.17
Cultivate	12R-30	MFWD 225	45,600	150	10	0.068	0.77	1.94	0.83	0.48	4.04	2.40	3.31	9.76
Cultivate	12R-38	MFWD 225	44,600	150	10	0.054	0.61	1.53	0.64	0.38	3.17	1.85	2.62	7.65
Disk & Incorporate	14'	2WD 130	33,200	200	10	0.149	2.54	2.44	1.49	0.51	6.99	2.85	3.36	13.21
Disk & Incorporate	24'	MFWD 190	51,800	200	10	0.087	1.48	2.08	1.35	0.51	5.43	2.59	3.50	11.54

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre--------------------							
Disk & Incorporate	32'	4WD 225	66,900	200	10	0.068	1.16	1.94	1.37	0.31	4.80	2.64	2.15	9.60
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.83	1.38	0.44	0.34	3.02	0.86	2.37	6.25
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.67	2.78	0.33	0.64	5.43	0.97	4.22	10.63
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.41	2.66	0.47	0.60	5.16	1.35	4.11	10.63
Disk Bed (Hipper)	6R-38	MFWD 170	15,200	160	10	0.098	1.11	2.10	0.37	0.47	4.07	1.07	3.25	8.40
Disk Bed (Hipper)	8R-30	MFWD 190	19,500	160	10	0.093	1.06	2.23	0.45	0.55	4.31	1.31	3.76	9.39
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	37,400	160	10	0.049	0.55	1.17	0.46	0.29	2.48	1.32	1.98	5.79
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.84	2.11	0.37	0.53	3.87	1.07	3.62	8.56
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.67	1.67	0.34	0.41	3.10	0.98	2.85	6.93
Disk Bed (Hipper)	12R-30	MFWD 225	34,500	160	10	0.062	0.70	1.76	0.53	0.44	3.45	1.54	3.01	8.02
Disk Bed (Hipper)	12R-38	MFWD 225	37,400	160	10	0.049	0.55	1.39	0.46	0.35	2.76	1.32	2.38	6.47
Disk Bed (Hipper)Fld	8R-38	MFWD 190	27,200	160	10	0.074	0.83	1.76	0.50	0.43	3.54	1.44	2.97	7.97
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	21,000	160	10	0.074	0.83	1.76	0.38	0.43	3.43	1.11	2.97	7.53
Disk Bed w/roller	8R-30	2WD 190	28,300	160	10	0.093	1.06	2.23	0.66	0.41	4.38	1.90	2.85	9.13
Disk Bed w/roller	12R-30	MFWD 225	55,200	160	10	0.062	0.70	1.76	0.86	0.44	3.78	2.47	3.01	9.27
Disk Harrow	14'	2WD 130	25,900	180	10	0.140	1.58	2.29	1.00	0.48	5.37	2.32	3.15	10.84
Disk Harrow	24'	MFWD 190	44,400	180	10	0.081	0.92	1.95	1.00	0.48	4.37	2.32	3.28	9.98
Disk Harrow	28'	MFWD 225	53,800	180	10	0.070	0.79	1.98	1.04	0.49	4.32	2.41	3.38	10.12
Disk Harrow	32'		59,500	180	10	0.061	0.82	0.00	1.01	0.00	0.00	2.33	0.00	0.00
Disk Harrow	42'	MFWD 225	98,700	180	10	0.046	0.52	1.32	1.28	0.33	3.46	2.94	2.25	8.67
Ditcher		2WD 130	6,100	200	10	0.020	0.22	0.32	0.04	0.06	0.67	0.07	0.44	1.19
Ditcher (1m/160a)		2WD 130	6,100	200	10	0.009	0.10	0.15	0.02	0.03	0.31	0.03	0.21	0.55
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.62	2.91	1.33	0.67	7.54	1.63	4.42	13.60
Fert Appl (Liquid)	6R-30	MFWD 170	18,500	150	8	0.130	2.22	2.79	1.61	0.63	7.27	1.97	4.31	13.56
Fert Appl (Liquid)	6R-38	MFWD 170	18,500	150	8	0.103	1.75	2.20	1.27	0.50	5.73	1.56	3.40	10.71
Fert Appl (Liquid)	8R-30	MFWD 190	18,400	150	8	0.098	1.66	2.34	1.20	0.58	5.79	1.47	3.94	11.22
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.31	1.85	0.98	0.45	4.61	1.20	3.12	8.94
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	21,600	150	8	0.051	0.87	1.23	0.74	0.30	3.16	0.91	2.07	6.15
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.33	2.22	0.97	0.55	5.08	1.19	3.79	10.07
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	1.05	1.75	0.83	0.43	4.08	1.02	2.99	8.10
Fert Appl (Liquid)	12R-30	MFWD 225	23,100	150	8	0.078	1.33	2.22	1.20	0.55	5.32	1.48	3.79	10.59
Fert Appl (Liquid)	12R-38	MFWD 225	21,600	150	8	0.051	0.87	1.46	0.74	0.36	3.45	0.91	2.49	6.85
Field Cult & Inc	12'	2WD 150	19,600	100	10	0.132	2.24	2.49	0.64	0.44	5.83	2.97	2.91	11.72
Field Cult & Inc	24'	MFWD 170	30,600	100	10	0.066	1.12	1.41	0.50	0.32	3.36	2.32	2.17	7.86
Field Cult & Inc	32'	MFWD 190	42,900	100	10	0.049	0.84	1.18	0.53	0.29	2.85	2.44	1.99	7.28
Field Cult & Inc	42'	MFWD 225	58,400	100	10	0.037	0.64	1.06	0.55	0.26	2.52	2.53	1.82	6.88
Field Cultivate	12'	2WD 150	12,300	100	10	0.124	1.40	2.34	0.38	0.41	4.55	1.75	2.74	9.06
Field Cultivate	24'	MFWD 170	30,600	100	10	0.062	0.70	1.32	0.47	0.30	2.81	2.18	2.05	7.05
Field Cultivate	32'	MFWD 190	42,900	100	10	0.046	0.52	1.11	0.50	0.27	2.41	2.30	1.87	6.59
Field Cultivate	42'	MFWD 225	58,400	100	10	0.035	0.40	1.00	0.51	0.25	2.17	2.38	1.71	6.28
Field Cultivate	50'	MFWD 225	67,800	100	10	0.029	0.33	0.84	0.50	0.21	1.90	2.32	1.44	5.66
Gate Installer		2WD 130	2,960	10	10	0.020	0.45	0.32	0.17	0.06	1.02	0.65	0.44	2.13
Grain Drill	12'	2WD 130	27,500	150	8	0.157	3.56	2.56	1.62	0.54	8.28	3.38	3.53	15.20
Grain Drill	15'	MFWD 150	33,100	150	8	0.125	2.84	2.36	1.56	0.54	7.32	3.26	3.59	14.18
Grain Drill	20'	MFWD 170	39,400	150	8	0.094	2.13	2.01	1.39	0.45	5.99	2.91	3.10	12.01
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.78	1.87	1.93	0.46	6.05	4.03	3.15	13.24
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.42	1.77	1.50	0.44	5.15	3.14	3.03	11.32
Grain Drill & Pre	12'	2WD 130	34,800	150	8	0.169	3.83	2.76	2.20	0.58	9.38	4.61	3.80	17.80
Grain Drill & Pre	15'	MFWD 150	40,400	150	8	0.135	3.06	2.55	2.05	0.59	8.26	4.28	3.87	16.42
Grain Drill & Pre	20'	MFWD 170	46,700	150	8	0.101	2.30	2.16	1.77	0.49	6.73	3.71	3.34	13.80
Grain Drill & Pre	24'	MFWD 190	73,000	150	8	0.084	1.91	2.01	2.31	0.49	6.75	4.84	3.40	14.99
Grain Drill & Pre	30'	MFWD 225	71,200	150	8	0.067	1.53	1.91	1.80	0.48	5.73	3.77	3.26	12.77
Harrow	13'	2WD 130	4,360	200	10	0.119	1.35	1.95	0.18	0.41	3.89	0.29	2.68	6.88
Harrow	21'	2WD 150	6,750	200	10	0.073	0.83	1.39	0.17	0.24	2.65	0.28	1.63	4.57
Harrow	40'	MFWD 190	20,200	200	10	0.038	0.43	0.92	0.27	0.22	1.86	0.45	1.56	3.88
Harrow	47'	MFWD 190	23,700	200	10	0.033	0.37	0.78	0.27	0.19	1.63	0.45	1.32	3.41
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	6.06	1.26	3.38	13.42	2.06	14.36	29.85
Header - Corn	6R30"	240hp	50,800	300	8	0.170	2.30	5.13	2.16	2.86	12.45	3.53	12.15	28.15
Header - Corn	6R38"	240hp	51,400	300	8	0.134	1.81	4.05	1.72	2.26	9.85	2.82	9.59	22.27
Header - Corn	8R-30	240hp	62,000	300	8	0.127	1.72	3.84	1.97	2.14	9.70	3.23	9.11	22.05
Header - Corn	8R-38	275hp	67,000	300	8	0.100	1.36	3.48	1.69	3.70	10.24	2.76	15.70	28.71
Header - Corn	12R-20	275hp	102,000	300	8	0.127	1.72	4.40	3.25	4.68	14.07	5.32	19.86	39.26
Header - Corn	12R-30	275hp	103,000	300	8	0.085	1.15	2.93	2.19	3.12	9.40	3.58	13.24	26.23
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.69	4.64	4.85	22.08	7.59	20.59	50.27
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.64	4.08	4.27	19.43	6.67	18.12	44.24
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	7.30	3.91	7.75	21.83	6.40	32.91	61.15
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.53	4.02	4.20	19.14	6.57	17.85	43.57
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.62	3.54	3.70	16.84	5.78	15.70	38.34
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	6.32	3.39	6.72	18.92	5.55	28.52	52.99
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	5.13	0.00	2.86	10.29	0.00	12.15	22.45
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	4.27	0.72	2.38	9.30	1.17	10.13	20.61
Header - Soybean	22' Flex	240hp	33,500	300	8	0.116	1.56	3.49	0.97	1.95	7.99	1.58	8.28	17.87
Header - Soybean	25' Flex	275hp	35,900	300	8	0.102	1.38	3.52	0.91	3.74	9.57	1.49	15.89	26.96
Header - Soybean	30' Flex	275hp	42,400	300	8	0.085	1.15	2.93	0.90	3.12	8.11	1.47	13.24	22.83
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	4.27	0.67	2.38	9.25	1.10	10.13	20.49
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.49	0.57	1.95	7.59	0.93	8.28	16.82
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.38	3.07	0.53	1.71	6.71	0.87	7.29	14.88
Header Wheat/Sorghum	30' Rigid	275hp	25,700	300	8	0.085	1.15	2.93	0.54	3.12	7.75	0.89	13.24	21.89
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.25	4.96	1.00	6.68	18.91	3.28	28.38	50.58
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	5.08	4.03	0.91	5.43	15.46	2.98	23.06	41.50
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.28	3.39	0.84	4.57	13.10	2.76	19.42	35.28
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	8.13	6.45	1.25	8.69	24.54	4.11	36.89	65.55
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.42	4.30	1.40	5.79	16.92	4.60	24.59	46.12
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.40	5.08	1.64	6.84	19.97	5.37	29.05	54.40

Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.28	3.39	1.16	4.57	13.41	3.80	19.42	36.63

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre---------------------							
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.50	5.16	2.10	6.95	20.72	6.87	29.51	57.11
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	5.14	4.08	1.72	5.50	16.45	5.62	23.35	45.43
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.42	4.30	2.15	5.79	17.67	7.04	24.59	49.32
Heavy Disk	14'	MFWD 150	25,900	180	10	0.145	1.65	2.74	1.05	0.63	6.09	2.41	4.17	12.68
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.10	2.07	1.09	0.47	4.74	2.52	3.20	10.47
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.85	1.80	1.05	0.44	4.16	2.43	3.04	9.64
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.67	1.13	0.13	0.26	2.20	0.15	1.71	4.07
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.74	5.79	0.29	1.43	10.26	0.83	9.75	20.85
Land Plane	50'x16'	MFWD 190	10,800	200	10	0.151	1.71	3.61	0.32	0.89	6.56	0.94	6.09	13.59
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.66	9.41	2.64	2.18	19.91	3.89	14.30	38.11
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.15	3.58	0.15	0.83	6.72	0.71	5.43	12.87
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.56	1.88	0.07	0.46	2.99	0.19	3.16	6.36
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.69	5.64	0.23	1.39	8.97	0.52	9.50	19.00
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.07	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	1.64	3.47	0.26	0.85	6.25	0.52	5.85	12.62
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.36	2.26	0.36	0.52	4.51	1.22	3.43	9.17
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.29	2.72	0.55	0.67	5.24	1.89	4.58	11.73
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.02	2.15	0.38	0.53	4.09	1.30	3.62	9.02
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.68	1.43	0.41	0.35	2.88	1.39	2.41	6.69
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.03	2.58	0.62	0.64	4.89	2.13	4.40	11.43
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.81	2.03	0.54	0.51	3.90	1.84	3.47	9.22
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.68	1.69	0.41	0.42	3.21	1.39	2.90	7.51
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	11.77	12.40	4.06	3.06	31.31	9.04	20.88	61.24
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	7.41	7.81	2.84	1.93	20.00	6.31	13.15	39.47
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	7.41	7.81	2.84	1.93	20.00	6.31	13.15	39.47
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.84	6.15	2.23	1.52	15.75	4.97	10.36	31.08
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.84	6.15	2.23	1.52	15.75	4.97	10.36	31.08
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.90	4.11	1.49	1.01	10.52	3.32	6.92	20.77
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.93	6.24	2.27	1.54	16.00	5.05	10.52	31.58
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.69	4.94	1.79	1.22	12.66	3.99	8.32	24.98
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.94	5.20	1.89	1.28	13.33	4.21	8.77	26.31
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.90	4.11	1.49	1.01	10.52	3.32	6.92	20.77
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	9.97	10.50	3.81	2.59	26.89	8.49	17.69	53.08
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	6.28	6.61	2.40	1.63	16.94	5.35	11.14	33.44
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	6.28	6.61	2.40	1.63	16.94	5.35	11.14	33.44
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.94	5.21	1.89	1.28	13.34	4.21	8.77	26.33
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	4.94	5.21	1.89	1.28	13.34	4.21	8.77	26.33
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.30	3.48	1.26	0.86	8.91	2.81	5.86	17.60
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	5.02	5.29	1.92	1.31	13.55	4.28	8.91	26.75
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.97	4.18	1.52	1.03	10.72	3.38	7.05	21.16
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	4.18	4.41	1.60	1.09	11.29	3.56	7.43	22.29
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	3.30	3.48	1.26	0.86	8.91	2.81	5.86	17.60
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.70	4.74	2.18	1.10	13.73	4.86	7.20	25.80
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.63	3.85	1.77	0.89	11.16	3.94	5.85	20.96
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.90	3.24	1.49	0.75	9.39	3.32	4.92	17.65
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	7.41	6.16	2.84	1.43	17.85	6.31	9.36	33.54
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.94	4.11	1.89	0.95	11.90	4.21	6.24	22.35
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.84	4.85	2.23	1.12	14.06	4.97	7.37	26.40
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.90	3.24	1.49	0.75	9.39	3.32	4.92	17.65
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.93	4.93	2.27	1.14	14.28	5.05	7.49	26.83
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.69	3.90	1.79	0.90	11.30	3.99	5.92	21.22
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.94	4.11	1.89	0.95	11.90	4.21	6.24	22.35
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.77	1.92	0.00	0.48	3.17	0.00	3.28	6.46
NT Grain Drill	12'	2WD 130	46,100	150	8	0.163	3.70	2.67	2.82	0.56	9.77	5.91	3.67	19.36
NT Grain Drill	15'	MFWD 150	55,500	150	8	0.130	2.96	2.46	2.72	0.57	8.73	5.69	3.74	18.17
NT Grain Drill	20'	MFWD 170	65,100	150	8	0.098	2.22	2.09	2.39	0.47	7.19	5.01	3.23	15.44
NT Grain Drill	24'	MFWD 190	90,400	150	8	0.081	1.85	1.95	2.77	0.48	7.06	5.79	3.28	16.15
NT Grain Drill	30'	MFWD 225	103,000	150	8	0.065	1.48	1.85	2.52	0.46	6.32	5.28	3.16	14.77
NT Grain Drill & Pre	12'	2WD 130	55,200	150	8	0.176	3.99	2.87	3.64	0.60	11.12	7.62	3.96	22.71
NT Grain Drill & Pre	15'	MFWD 150	55,500	150	8	0.141	3.19	2.65	2.93	0.61	9.40	6.13	4.03	19.57
NT Grain Drill & Pre	20'	MFWD 170	65,100	150	8	0.105	2.39	2.25	2.58	0.51	7.74	5.39	3.48	16.63
NT Grain Drill & Pre	24'	MFWD 190	90,400	150	8	0.088	1.99	2.10	2.98	0.52	7.60	6.24	3.54	17.39
NT Grain Drill & Pre	30'	MFWD 225	110,700	150	8	0.070	1.59	1.99	2.92	0.50	7.01	6.11	3.40	16.53
NT Plant&Pre-Folding	8R-38	MFWD 170	67,100	150	8	0.083	1.89	1.78	2.10	0.40	6.18	4.39	2.75	13.34
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	99,600	150	8	0.055	1.26	1.18	2.07	0.26	4.79	4.34	1.83	10.97
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.91	2.01	1.82	0.49	6.26	3.81	3.40	13.48
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.51	1.59	1.32	0.39	4.82	2.76	2.68	10.27
NT Plant&Pre-Folding	12R-20	MFWD 190	83,300	150	8	0.105	2.39	2.52	3.30	0.62	8.84	6.90	4.25	20.00
NT Plant&Pre-Folding	12R-30	MFWD 190	8,600	150	8	0.070	1.59	1.68	0.22	0.41	3.92	0.47	2.83	7.23
NT Plant&Pre-Folding	12R-38	MFWD 190	99,600	150	8	0.055	1.26	1.32	2.07	0.32	4.99	4.34	2.23	11.58
NT Plant&Pre-Folding	16R-30	MFWD 190	129,000	150	8	0.052	1.19	1.26	2.55	0.31	5.33	5.34	2.12	12.80
NT Plant&Pre-Folding	23R-15	MFWD 190	163,000	150	8	0.073	1.66	1.75	4.48	0.43	8.34	9.38	2.95	20.67
NT Plant&Pre-Folding	24R-20	MFWD 190	182,000	150	8	0.052	1.19	1.26	3.60	0.31	6.38	7.54	2.12	16.05
NT Plant&Pre-Folding	24R-30	MFWD 190	208,000	150	8	0.035	0.79	0.84	2.74	0.20	4.59	5.74	1.41	11.76
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	4.79	3.45	2.74	0.72	11.71	5.73	4.75	22.20
NT Plant&Pre-Rigid	4R-38	2WD 130	35,600	150	8	0.166	3.77	2.71	2.22	0.57	9.29	4.64	3.74	17.68
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,700	150	8	0.141	3.19	2.65	2.31	0.61	8.78	4.83	4.03	17.64
NT Plant&Pre-Rigid	6R-38	MFWD 150	42,900	150	8	0.111	2.52	2.09	1.79	0.48	6.89	3.74	3.18	13.82
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	3.26	3.07	1.41	0.69	8.44	2.95	4.74	16.14
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,300	150	8	0.105	2.39	2.25	2.15	0.51	7.32	4.50	3.48	15.30
NT Plant&Pre-Rigid	8R-38	MFWD 170	51,700	150	8	0.077	1.74	1.64	1.49	0.37	5.26	3.12	2.54	10.93
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.91	2.01	1.64	0.49	6.08	3.44	3.40	12.92

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre							--------------------
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,900	150	8	0.105	2.39	2.52	2.61	0.62	8.15	5.46	4.25	17.87
NT Plant&Pre-Rigid	12R-30	MFWD 190	75,300	150	8	0.070	1.59	1.68	1.99	0.41	5.68	4.16	2.83	12.68
NT Plant-Folding	8R-38	MFWD 170	59,700	150	8	0.077	1.75	1.65	1.73	0.37	5.53	3.63	2.55	11.72
NT Plant-Folding	8R-38 2x1	MFWD 170	91,000	150	8	0.051	1.17	1.10	1.76	0.25	4.28	3.68	1.70	9.68
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.78	1.87	1.53	0.46	5.65	3.20	3.15	12.01
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.40	1.47	1.10	0.36	4.35	2.31	2.49	9.16
NT Plant-Folding	12R-20	MFWD 190	75,900	150	8	0.098	2.22	2.34	2.79	0.58	7.94	5.84	3.94	17.73
NT Plant-Folding	12R-30	MFWD 190	81,000	150	8	0.065	1.48	1.56	1.98	0.38	5.42	4.15	2.63	12.21
NT Plant-Folding	12R-38	MFWD 190	91,000	150	8	0.051	1.17	1.23	1.76	0.30	4.47	3.68	2.07	10.23
NT Plant-Folding	16R-30	MFWD 190	120,000	150	8	0.049	1.11	1.17	2.20	0.29	4.78	4.61	1.97	11.37
NT Plant-Folding	23R-15	MFWD 190	155,000	150	8	0.068	1.54	1.62	3.96	0.40	7.54	8.28	2.74	18.56
NT Plant-Folding	24R-20	MFWD 190	174,000	150	8	0.049	1.11	1.17	3.20	0.29	5.77	6.69	1.97	14.44
NT Plant-Folding	24R-30	MFWD 190	194,000	150	8	0.032	0.74	0.78	2.38	0.19	4.09	4.97	1.31	10.39
NT Plant-Rigid	4R-30	2WD 130	27,200	150	8	0.196	4.45	3.20	2.00	0.67	10.33	4.18	4.41	18.93
NT Plant-Rigid	4R-38	2WD 130	28,200	150	8	0.154	3.50	2.52	1.63	0.53	8.19	3.41	3.47	15.09
NT Plant-Rigid	6R-30	MFWD 150	36,300	150	8	0.130	2.96	2.46	1.78	0.57	7.78	3.72	3.74	15.26
NT Plant-Rigid	6R-38	MFWD 150	35,600	150	8	0.103	2.34	1.94	1.38	0.45	6.12	2.88	2.95	11.96
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	3.02	2.85	1.05	0.64	7.58	2.21	4.40	14.20
NT Plant-Rigid	8R-30	MFWD 170	46,900	150	8	0.098	2.22	2.09	1.72	0.47	6.52	3.61	3.23	13.37
NT Plant-Rigid	8R-38	MFWD 170	44,300	150	8	0.077	1.75	1.65	1.28	0.37	5.08	2.69	2.55	10.33
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.78	1.87	1.37	0.46	5.48	2.86	3.15	11.51
NT Plant-Rigid	12R-20	MFWD 190	58,600	150	8	0.098	2.22	2.34	2.15	0.58	7.30	4.51	3.94	15.76
NT Plant-Rigid	12R-30	MFWD 190	70,700	150	8	0.065	1.48	1.56	1.73	0.38	5.16	3.62	2.63	11.42
Paratill & Bed	4R-30	MFWD 225	12,300	150	12	0.204	2.31	5.77	0.90	1.44	10.44	1.73	9.86	22.04
Paratill & Bed	4R-38	MFWD 225	12,300	150	12	0.160	1.82	4.54	0.71	1.14	8.22	1.36	7.76	17.35
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.54	3.84	0.85	0.96	7.21	1.62	6.57	15.40
Paratill & Bed	6R-38	MFWD 225	17,200	150	12	0.107	1.21	3.03	0.66	0.76	5.68	1.27	5.19	12.15
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.15	2.88	0.83	0.72	5.60	1.59	4.93	12.12
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.60	1.51	1.34	0.38	3.85	2.56	2.59	9.00
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.91	2.28	1.58	0.57	5.35	3.02	3.89	12.28
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.60	1.51	1.34	0.38	3.85	2.56	2.59	9.00
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.91	2.28	0.65	0.57	4.42	1.25	3.89	9.58
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.58	0.97	0.00	0.17	1.74	0.02	1.14	2.91
Pipe Spool 160ac	1/4m roll	2WD 130	5,400	15	12	0.003	0.09	0.05	0.00	0.01	0.16	0.11	0.07	0.34
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.17	0.06	0.00	0.01	0.25	0.00	0.08	0.34
Plant & Pre Folding	8R-38	MFWD 170	59,900	150	8	0.080	1.81	1.71	1.80	0.38	5.72	3.76	2.64	12.13
Plant & Pre Folding	8R38 2x1	MFWD 170	88,900	150	8	0.053	1.21	1.14	1.78	0.25	4.39	3.72	1.76	9.87
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.84	1.93	1.58	0.47	5.83	3.30	3.26	12.40
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.45	1.52	1.15	0.37	4.51	2.42	2.57	9.51
Plant & Pre Folding	12R-20	MFWD 190	72,600	150	8	0.101	2.30	2.42	2.76	0.59	8.08	5.77	4.08	17.94
Plant & Pre Folding	12R-30	MFWD 190	78,900	150	8	0.067	1.53	1.61	2.00	0.39	5.55	4.18	2.72	12.45
Plant & Pre Folding	12R-38	MFWD 190	88,900	150	8	0.053	1.21	1.27	1.78	0.31	4.58	3.72	2.14	10.45
Plant & Pre Folding	16R-30	MFWD 190	115,000	150	8	0.050	1.15	1.21	2.18	0.29	4.85	4.57	2.04	11.46
Plant & Pre Folding	23R-15	MFWD 190	143,000	150	8	0.070	1.59	1.68	3.78	0.41	7.47	7.90	2.83	18.21
Plant & Pre Folding	24R-20	MFWD 190	161,000	150	8	0.050	1.15	1.21	3.06	0.29	5.72	6.40	2.04	14.17
Plant & Pre Folding	24R-30	MFWD 190	186,000	150	8	0.033	0.76	0.80	2.36	0.19	4.13	4.93	1.36	10.42
Plant & Pre Rigid	4R-30	2WD 130	31,000	150	8	0.203	4.60	3.31	2.36	0.69	10.97	4.93	4.56	20.47
Plant & Pre Rigid	4R-38	2WD 130	32,000	150	8	0.159	3.62	2.61	1.91	0.54	8.70	4.01	3.59	16.30
Plant & Pre Rigid	6R-30	MFWD 150	38,300	150	8	0.135	3.06	2.55	1.94	0.59	8.15	4.06	3.87	16.09
Plant & Pre Rigid	6R-38	MFWD 150	37,600	150	8	0.106	2.42	2.01	1.50	0.46	6.41	3.14	3.05	12.61
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	3.13	2.94	1.22	0.66	7.96	2.55	4.55	15.07
Plant & Pre Rigid	8R-30	MFWD 170	47,100	150	8	0.101	2.30	2.16	1.79	0.49	6.75	3.74	3.34	13.84
Plant & Pre Rigid	8R-38	MFWD 170	44,600	150	8	0.080	1.81	1.71	1.34	0.38	5.26	2.80	2.64	10.71
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.84	1.93	1.40	0.47	5.66	2.92	3.26	11.85
Plant & Pre Rigid	12R-20	MFWD 190	55,200	150	8	0.101	2.30	2.42	2.10	0.59	7.42	4.39	4.08	15.89
Plant & Pre Rigid	12R-30	MFWD 190	68,600	150	8	0.067	1.53	1.61	1.74	0.39	5.29	3.63	2.72	11.65
Plant - Folding	8R-38	MFWD 170	52,600	150	8	0.074	1.68	1.59	1.47	0.36	5.11	3.07	2.45	10.64
Plant - Folding	8R-38 2x1	MFWD 170	80,200	150	8	0.049	1.12	1.05	1.49	0.24	3.91	3.11	1.63	8.67
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.70	1.79	1.34	0.44	5.29	2.80	3.03	11.13
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.34	1.41	0.95	0.35	4.07	2.00	2.39	8.47
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.13	2.24	2.30	0.55	7.24	4.81	3.78	15.85
Plant - Folding	12R-30	MFWD 190	70,300	150	8	0.062	1.42	1.49	1.65	0.37	4.95	3.46	2.52	10.94
Plant - Folding	12R-38	MFWD 190	80,200	150	8	0.049	1.12	1.18	1.49	0.29	4.09	3.11	1.99	9.20
Plant - Folding	16R-30	MFWD 190	106,000	150	8	0.047	1.06	1.12	1.87	0.27	4.34	3.91	1.89	10.15
Plant - Folding	23R-15	MFWD 190	134,000	150	8	0.065	1.48	1.56	3.29	0.38	6.72	6.87	2.63	16.23
Plant - Folding	24R-20	MFWD 190	152,000	150	8	0.047	1.06	1.12	2.68	0.27	5.15	5.61	1.89	12.66
Plant - Folding	24R-30	MFWD 190	178,000	150	8	0.031	0.71	0.74	2.09	0.18	3.74	4.38	1.26	9.39
Plant - Rigid	4R-30	2WD 130	23,600	150	8	0.188	4.27	3.07	1.66	0.64	9.66	3.48	4.23	17.39
Plant - Rigid	4R-38	2WD 130	24,700	150	8	0.148	3.36	2.42	1.37	0.51	7.67	2.87	3.33	13.88
Plant - Rigid	6R-30	MFWD 150	30,900	150	8	0.125	2.84	2.36	1.45	0.55	7.22	3.04	3.59	13.86
Plant - Rigid	6R-38	MFWD 150	30,200	150	8	0.099	2.24	1.86	1.12	0.43	5.67	2.34	2.83	10.86
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.89	2.73	0.88	0.61	7.13	1.85	4.21	13.20
Plant - Rigid	8R-30	MFWD 170	39,800	150	8	0.094	2.13	2.01	1.40	0.45	6.01	2.94	3.10	12.06
Plant - Rigid	8R-38	MFWD 170	37,200	150	8	0.074	1.68	1.59	1.03	0.36	4.68	2.17	2.45	9.31
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.70	1.79	1.15	0.44	5.10	2.40	3.03	10.54
Plant - Rigid	12R-20	MFWD 190	47,900	150	8	0.094	2.13	2.24	1.69	0.55	6.63	3.53	3.78	13.96
Plant - Rigid	12R-30	MFWD 190	60,000	150	8	0.062	1.42	1.49	1.41	0.37	4.70	2.95	2.52	10.19
Plant - Rigid	15R-15	2WD 150	58,900	150	8	0.094	2.13	1.77	2.08	0.31	6.31	4.35	2.08	12.74
Pull Levee (1m/80a))	4 blade	2WD 50	3,180	100	10	0.003	0.04	0.02	0.00	0.00	0.06	0.01	0.01	0.09
Roller	32'	MFWD 170	22,800	100	12	0.046	0.52	0.99	0.17	0.22	1.92	1.09	1.53	4.56
Rotary Cutter	7'	MFWD 130	5,280	185	10	0.168	1.90	2.74	0.72	0.65	6.03	0.55	4.29	10.88
Rotary Cutter	12'	2WD 150	12,100	185	10	0.098	1.11	1.85	0.96	0.33	4.25	0.73	2.16	7.16
Rotary Cutter	15'	MFWD 150	22,100	185	10	0.078	0.89	1.48	1.40	0.34	4.12	1.07	2.24	7.44

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre---------------------							
Row Cond & Inc	13'	2WD 130	16,900	100	10	0.137	2.34	2.25	0.58	0.47	5.65	2.68	3.10	11.43
Row Cond & Inc	21'	2WD 170	20,800	100	10	0.085	1.45	1.82	0.44	0.41	4.13	2.04	2.83	9.01
Row Cond & Inc	26'	MFWD 190	24,000	100	10	0.063	1.07	1.51	0.38	0.37	3.34	1.74	2.54	7.64
Row Cond & Inc	38'	MFWD 225	29,600	100	10	0.047	0.80	1.33	0.34	0.33	2.81	1.60	2.27	6.70
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.68	1.13	0.20	0.28	2.30	0.94	1.93	5.19
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.30	1.87	0.20	0.39	3.78	0.96	2.58	7.32
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.80	1.51	0.21	0.34	2.88	0.98	2.35	6.22
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.65	1.37	0.17	0.33	2.53	0.81	2.30	5.66
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.44	1.11	0.21	0.27	2.05	1.00	1.89	4.95
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.40	1.00	0.13	0.25	1.79	0.63	1.71	4.15
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.78	2.56	0.27	0.54	5.16	1.28	3.53	9.98
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.10	2.07	0.28	0.47	3.93	1.30	3.22	8.47
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.89	1.87	0.24	0.46	3.47	1.12	3.15	7.75
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.60	1.51	0.22	0.38	2.73	1.02	2.59	6.35
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.55	1.37	0.18	0.34	2.46	0.87	2.34	5.68
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.16	2.20	1.02	0.50	4.89	1.13	3.42	9.45
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.77	1.64	0.98	0.30	3.71	1.09	2.09	6.90
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.46	2.75	1.28	0.62	6.12	1.42	4.27	11.82
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.97	2.05	1.23	0.38	4.64	1.37	2.61	8.62
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.86	2.07	1.09	0.37	5.40	1.21	2.42	9.04
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.24	2.07	1.05	0.52	4.89	1.16	3.53	9.60
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.33	2.93	1.73	0.67	7.67	1.91	4.56	14.15
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.55	2.18	1.55	0.40	5.71	1.72	2.78	10.23
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.36	2.26	1.43	0.52	5.60	0.51	3.44	9.56
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.36	2.26	0.68	0.52	4.83	0.88	3.43	9.14
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.36	2.26	0.58	0.52	4.73	0.73	3.43	8.90
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.36	2.26	0.69	0.52	4.83	0.89	3.43	9.16
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.36	2.26	0.46	0.52	4.61	0.60	3.43	8.65
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.36	2.86	1.11	0.70	6.04	1.42	4.82	12.29
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	9.93	16.52	2.55	3.83	32.86	2.52	25.08	60.47
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.36	2.26	0.25	0.52	4.40	0.30	3.43	8.13
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.69	1.97	0.24	0.32	4.24	0.43	2.12	6.80
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	11.33	18.83	8.43	4.37	42.98	19.42	28.60	91.00
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.59	12.62	3.68	2.93	26.82	8.48	19.16	54.47
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.26	1.25	5.10	0.13	8.75	11.73	0.88	21.37
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.59	12.62	3.68	2.93	26.82	8.48	19.16	54.47SC
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	6.23	10.36	0.62	2.40	19.62	0.94	14.30	34.86
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.47	12.43	5.33	2.88	28.13	4.34	17.16	49.63
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.49	5.24	0.96	1.29	9.99	1.25	8.83	20.09
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.36	2.86	0.49	0.70	5.42	1.37	4.82	11.62
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.24	1.45	0.29	0.23	3.23	0.50	1.55	5.29
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.24	2.34	0.39	0.53	4.52	0.58	3.64	8.76
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.58	2.63	0.32	0.47	5.02	0.48	3.09	8.60
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.69	0.94	0.56	0.10	3.30	0.82	0.66	4.79
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.13	2.38	0.77	0.59	4.87	1.13	4.01	10.03
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.79	1.49	0.64	0.34	3.27	0.95	2.32	6.55
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.13	2.13	0.40	0.48	4.16	0.60	3.31	8.08
SC Double Hitch	DBLHTCH	2WD 50	0	1000	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SC Drain Cleaner	6 ft	MFWD 75	3,750	300	9	0.080	0.90	0.75	0.13	0.10	1.89	0.14	0.65	2.68
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.47	2.44	0.36	0.56	4.85	0.59	3.71	9.16
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.67	1.13	0.22	0.26	2.30	0.33	1.71	4.35
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.15	3.58	0.47	0.83	7.04	0.49	5.43	12.97
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	11.33	28.25	0.13	4.59	44.31	0.20	31.27	75.79
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.40	5.65	0.66	1.31	11.03	1.50	8.58	21.13
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.83	4.70	3.12	1.09	11.76	4.06	7.15	22.97
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.90	1.30	0.41	0.27	2.89	0.54	1.79	5.24
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.83	2.35	0.51	0.31	6.01	1.51	2.04	9.57
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.49	5.24	3.51	1.29	12.54	3.80	8.83	25.19
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	11.33	13.18	0.86	2.16	27.54	3.51	14.15	45.21
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.24	1.45	0.04	0.23	2.98	0.06	1.55	4.60
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	11.33	16.32	0.23	3.43	31.32	1.00	22.47	54.80
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	11.33	18.83	7.26	4.37	41.80	12.59	28.60	83.00
Spin Spreader	5 ton	MFWD 190	12,900	100	8	0.042	0.95	1.00	0.30	0.24	2.51	0.66	1.69	4.86
Spin Spreader	5 ton	MFWD 190	12,900	100	8	0.042	0.95	1.00	0.30	0.24	2.51	0.66	1.69	4.86
Spray (Band)	27'	MFWD 170	7,400	200	8	0.062	1.06	1.33	0.21	0.30	2.92	0.28	2.06	5.27
Spray (Band)	40'	MFWD 170	8,600	200	8	0.042	0.71	0.90	0.17	0.20	1.99	0.22	1.39	3.61
Spray (Band)	50'	MFWD 170	13,700	200	8	0.033	0.57	0.72	0.21	0.16	1.67	0.28	1.11	3.07
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.54	0.68	0.14	0.15	1.52	0.19	1.05	2.77
Spray (Band)	60'	MFWD 170	15,600	200	8	0.028	0.47	0.60	0.20	0.13	1.42	0.26	0.92	2.62
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,900	200	8	0.130	2.21	2.45	0.42	0.56	5.65	0.55	3.72	9.92
Spray (Bcast/HB)	20' Rigid	2WD 50	8,100	200	8	0.084	1.43	0.53	0.32	0.05	2.34	0.42	0.37	3.14
Spray (Bcast/HB)	27' Fold	MFWD 170	15,400	200	8	0.062	1.06	1.33	0.45	0.30	3.15	0.59	2.06	5.81

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2020. (Continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------------------$/acre----------------------							
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,800	200	8	0.062	1.06	1.33	0.28	0.30	2.99	0.37	2.06	5.43
Spray (Bcast/HB)	30' Fold	MFWD 170	18,930	200	8	0.056	0.95	1.20	0.50	0.27	2.93	0.65	1.85	5.45
Spray (Bcast/HB)	40' Fold	MFWD 170	22,000	200	8	0.042	0.71	0.90	0.43	0.20	2.26	0.57	1.39	4.22
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.06	1.33	0.65	0.30	3.36	0.86	2.06	6.29
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.71	0.90	0.63	0.20	2.46	0.83	1.39	4.69
Spray (Broadcast)	27'	MFWD 170	7,400	200	8	0.062	1.06	1.33	0.21	0.30	2.92	0.28	2.06	5.27
Spray (Broadcast)	40'	MFWD 170	8,600	200	8	0.042	0.71	0.90	0.17	0.20	1.99	0.22	1.39	3.61
Spray (Broadcast)	50'	MFWD 170	13,700	200	8	0.033	0.57	0.72	0.21	0.16	1.67	0.28	1.11	3.07
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.54	0.68	0.14	0.15	1.52	0.19	1.05	2.77
Spray (Broadcast)	60'	MFWD 170	15,600	200	8	0.028	0.47	0.60	0.20	0.13	1.42	0.26	0.92	2.62
Spray (Direct/Hood)	8R-30	MFWD 170	20,400	200	8	0.084	1.43	1.80	0.80	0.40	4.46	1.05	2.78	8.31
Spray (Direct/Hood)	8R-38	MFWD 170	21,900	200	8	0.066	1.13	1.42	0.68	0.32	3.57	0.89	2.20	6.67
Spray (Direct/Hood)	12R-30	MFWD 170	25,300	200	8	0.056	0.95	1.20	0.66	0.27	3.10	0.87	1.85	5.83
Spray (Direct/Hood)	12R-38	MFWD 170	27,100	200	8	0.044	0.75	0.95	0.56	0.21	2.48	0.73	1.46	4.69
Spray (Direct/Layby)	8R-30	MFWD 170	11,300	200	8	0.084	1.43	1.80	0.44	0.40	4.10	0.58	2.78	7.47
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.13	1.42	0.35	0.32	3.24	0.46	2.20	5.91
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,900	200	8	0.044	0.75	0.95	0.31	0.21	2.23	0.40	1.46	4.10
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.15	1.44	0.38	0.32	3.31	0.50	2.23	6.04
Spray (Direct/Layby)	12R-30	MFWD 170	14,900	200	8	0.056	0.95	1.20	0.39	0.27	2.83	0.51	1.85	5.20
Spray (Direct/Layby)	12R-38	MFWD 170	14,900	200	8	0.044	0.75	0.95	0.31	0.21	2.23	0.40	1.46	4.10
Spray (Direct/Layby)	16R-20	MFWD 170	22,300	200	8	0.063	1.07	1.35	0.66	0.30	3.39	0.86	2.08	6.35
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.06	1.33	0.21	0.30	2.92	0.28	2.06	5.27
Spray (Spot)	40'	MFWD 170	8,600	200	8	0.042	0.71	0.90	0.17	0.20	1.99	0.22	1.39	3.61
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.57	0.72	0.21	0.16	1.67	0.28	1.11	3.07
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.54	0.68	0.14	0.15	1.52	0.19	1.05	2.77
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.47	0.60	0.20	0.13	1.42	0.26	0.92	2.62
Stalk Shredder	14'	MFWD 150	14,500	200	10	0.117	1.33	2.22	1.49	0.51	5.56	0.98	3.37	9.92
Stalk Shredder	20'	MFWD 150	30,700	200	10	0.082	0.93	1.55	2.21	0.36	5.06	1.45	2.35	8.88
Stalk Shredder-Flail	12'	MFWD 150	20,500	200	10	0.137	1.55	2.59	2.46	0.60	7.21	1.62	3.93	12.76
Stalk Shredder-Flail	20'	MFWD 150	30,100	200	10	0.082	0.93	1.55	2.17	0.36	5.02	1.42	2.35	8.81
Subsoiler	3 shank	MFWD 190	5,920	100	15	0.204	2.31	4.87	0.40	1.20	8.80	1.11	8.21	18.12
Subsoiler	4 shank	MFWD 225	9,830	100	15	0.153	1.74	4.34	0.50	1.08	7.67	1.38	7.41	16.48
Subsoiler	5 shank	MFWD 225	13,900	100	15	0.122	1.38	3.45	0.56	0.86	6.27	1.56	5.90	13.75
Subsoiler low-till	4 shank	MFWD 225	9,830	100	15	0.153	1.74	4.34	0.50	1.08	7.67	1.38	7.41	16.48
Subsoiler low-till	6 shank	MFWD 225	15,300	100	15	0.102	1.15	2.88	0.52	0.72	5.29	1.43	4.93	11.66
Subsoiler low-till	8 shank	MFWD 225	22,000	100	15	0.076	0.86	2.16	0.56	0.54	4.13	1.54	3.69	9.37
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.82	4.54	0.83	1.14	8.34	1.58	7.76	17.69
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.21	3.03	0.75	0.76	5.77	1.43	5.19	12.40
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.31	5.77	1.05	1.44	10.59	2.01	9.86	22.47
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.54	3.84	0.75	0.96	7.11	1.43	6.57	15.12