

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

Michael A. Deliberto and Brian M. Hilbun



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by

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Introduction

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

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

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

Procedure

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

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

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

estimating projected commodity costs and returns information for upcoming crop year planning purposes.

Expected Crop Yields and Market Prices

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

Direct Production Costs

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

Hired labor was charged at \$11.83 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus

that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

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

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

Farm Machinery Costs

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

Overhead Costs

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

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

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	180.0000	68.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Karate Z	oz	1.00	2.1300	2.13	_____
Intrepid 2F	oz	1.94	6.0000	11.64	_____
Baythroid 2	oz	2.58	2.1300	5.50	_____
SEED/PLANTS					
Corn Seed RR	thous	3.38	32.0000	108.16	_____
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	15.30	0.1344	2.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1611	1.91	_____
Tractors	hour	11.83	0.5819	6.90	_____
DIESEL FUEL					
Tractors	gal	1.73	5.3318	9.22	_____
Harvesters	gal	1.73	1.6602	2.87	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.51	1.0000	8.51	_____
Tractors	Acre	3.16	1.0000	3.16	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	9.19	1.0000	9.19	_____
TOTAL DIRECT EXPENSES				428.29	_____
FIXED EXPENSES					
Implements	Acre	12.50	1.0000	12.50	_____
Tractors	Acre	19.09	1.0000	19.09	_____
Harvesters	Acre	8.66	1.0000	8.66	_____
TOTAL FIXED EXPENSES				40.25	_____
TOTAL SPECIFIED EXPENSES				468.54	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
ime (Spread)	ton			0.33	Sep							0.3300	38.00	12.54	12.54
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.36	0.93	0.07	0.88				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.62	2.45	1.38	2.53	0.16	1.90				9.88
Corn Seed RR	thous											32.0000	3.38	108.16	108.16
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											150.0000	0.38	57.00	57.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.00	2.13	2.13
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	1.94	11.64	11.64
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	5.13	8.66	1.76	2.55	0.13	2.06				20.16
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu											160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
TOTALS						17.51	27.75	8.51	12.50	0.87	10.87			382.21	459.35
INTEREST ON OPERATING CAPITAL															9.19
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															468.54

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.92	2.03	2.15	2.30	2.47	2.67	2.92	3.23	3.63	4.17	4.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-240	-231	-221	-210	-196	-180	-160	-135	-102	-60	0
			-280	-271	-261	-250	-236	-220	-200	-175	-143	-100	-40
60	96.00	bu	-216	-205	-193	-180	-163	-144	-120	-90	-51	0	72
			-256	-246	-234	-220	-203	-184	-160	-130	-91	-40	31
70	112.00	bu	-192	-180	-166	-150	-130	-108	-80	-45	0	60	144
			-232	-220	-206	-190	-171	-148	-120	-85	-40	19	103
80	128.00	bu	-168	-154	-138	-120	-98	-72	-40	0	51	120	216
			-208	-194	-178	-160	-138	-112	-80	-40	11	79	175
90	144.00	bu	-144	-128	-110	-90	-65	-36	0	45	102	180	288
			-184	-168	-151	-130	-105	-76	-40	4	62	139	247
100	160.00	bu	-120	-102	-83	-60	-32	0	40	90	154	240	360
			-160	-143	-123	-100	-72	-40	-0	49	114	199	319
110	176.00	bu	-96	-77	-55	-30	0	36	80	135	205	300	432
			-136	-117	-95	-70	-40	-4	39	94	165	259	391
120	192.00	bu	-72	-51	-27	0	32	72	120	180	257	360	504
			-112	-91	-67	-40	-7	31	79	139	217	319	464
130	208.00	bu	-48	-25	0	30	65	108	160	225	308	420	576
			-88	-65	-40	-10	25	67	119	184	268	379	536
140	224.00	bu	-24	0	27	60	98	144	200	270	360	480	648
			-64	-40	-12	19	57	103	159	229	319	440	608
150	240.00	bu	0	25	55	90	130	180	240	315	411	540	720
			-40	-14	15	49	90	139	199	274	371	500	680

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.09	2.21	2.34	2.51	2.69	2.92	3.20	3.55	3.99	4.59	5.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-226	-217	-206	-193	-178	-159	-137	-109	-74	-26	40
			-266	-257	-246	-233	-218	-200	-177	-150	-114	-66	0
60	96.00	bu	-200	-188	-175	-159	-141	-119	-93	-59	-16	40	120
			-240	-228	-215	-200	-182	-160	-133	-100	-57	0	80
70	112.00	bu	-173	-159	-144	-126	-105	-79	-48	-9	40	106	200
			-213	-200	-184	-166	-145	-120	-88	-50	0	66	160
80	128.00	bu	-146	-131	-113	-93	-68	-39	-4	40	97	173	280
			-186	-171	-154	-133	-109	-80	-44	0	57	133	240
90	144.00	bu	-119	-102	-82	-59	-32	0	40	90	154	240	360
			-160	-143	-123	-100	-72	-40	0	50	114	200	320
100	160.00	bu	-93	-74	-52	-26	3	40	84	140	211	307	440
			-133	-114	-92	-66	-36	0	44	100	171	266	400
110	176.00	bu	-66	-45	-21	6	40	80	129	190	269	373	520
			-106	-85	-61	-33	0	40	88	150	228	333	480
120	192.00	bu	-39	-16	9	40	76	120	173	240	326	440	600
			-80	-57	-30	0	36	80	133	200	286	400	560
130	208.00	bu	-13	11	40	73	113	160	218	290	383	507	680
			-53	-28	0	33	72	120	177	250	343	467	640
140	224.00	bu	13	40	71	106	149	200	262	340	440	574	761
			-26	0	30	66	109	160	222	300	400	533	720
150	240.00	bu	40	68	101	140	185	240	307	390	497	640	841
			0	28	61	100	145	200	266	350	457	600	800

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	210.0000	79.80	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Karate Z	oz	1.00	2.1300	2.13	_____
Baythroid 2	oz	2.58	2.1300	5.50	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed RR	thous	3.38	35.0000	118.30	_____
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	15.30	0.1344	2.06	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1611	1.91	_____
Tractors	hour	11.83	0.8812	10.44	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	8.2204	14.23	_____
Harvesters	gal	1.73	1.6602	2.87	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.98	1.0000	8.98	_____
Tractors	Acre	4.89	1.0000	4.89	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	10.18	1.0000	10.18	_____
TOTAL DIRECT EXPENSES				484.52	_____
FIXED EXPENSES					
Implements	Acre	13.70	1.0000	13.70	_____
Tractors	Acre	29.67	1.0000	29.67	_____
Harvesters	Acre	8.66	1.0000	8.66	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				99.82	_____
TOTAL SPECIFIED EXPENSES				584.34	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.36	0.93	0.07	0.88				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.62	2.45	1.38	2.53	0.16	1.90				9.88
Corn Seed RR	thous											35.0000	3.38	118.30	118.30
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											180.0000	0.38	68.40	68.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.00	2.13	2.13
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	5.13	8.66	1.76	2.55	0.13	2.06				20.16
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.15	0.23	0.07	0.12	0.00	0.07				0.64
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32	1.0000		7.92	101.40
TOTALS						24.25	38.33	30.93	61.49	1.33	16.26			402.90	574.16
INTEREST ON OPERATING CAPITAL															10.18
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															584.34

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.84	1.94	2.05	2.19	2.35	2.54	2.78	3.07	3.45	3.96	4.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-269	-259	-248	-235	-220	-201	-179	-151	-115	-67	0
			-368	-359	-348	-335	-319	-301	-279	-251	-215	-167	-99
60	114.00	bu	-242	-230	-217	-201	-183	-161	-134	-100	-57	0	80
			-342	-330	-317	-301	-283	-261	-234	-200	-157	-99	-19
70	133.00	bu	-215	-201	-186	-168	-146	-121	-89	-50	0	67	161
			-315	-301	-286	-268	-246	-220	-189	-150	-99	-32	61
80	152.00	bu	-188	-172	-155	-134	-110	-80	-44	0	57	134	242
			-288	-272	-255	-234	-209	-180	-144	-99	-42	34	142
90	171.00	bu	-161	-144	-124	-100	-73	-40	0	50	115	201	322
			-261	-243	-224	-200	-173	-140	-99	-49	15	102	223
100	190.00	bu	-134	-115	-93	-67	-36	0	44	100	172	269	403
			-234	-215	-192	-167	-136	-99	-54	1	73	169	303
110	209.00	bu	-107	-86	-62	-33	0	40	89	151	230	336	484
			-207	-186	-161	-133	-99	-59	-10	51	130	236	384
120	228.00	bu	-80	-57	-31	0	36	80	134	201	288	403	565
			-180	-157	-130	-99	-63	-19	34	102	188	303	465
130	247.00	bu	-53	-28	0	33	73	121	179	252	345	470	645
			-153	-128	-99	-66	-26	21	79	152	246	371	546
140	266.00	bu	-26	0	31	67	110	161	224	302	403	538	726
			-126	-99	-68	-32	10	61	124	202	303	438	626
150	285.00	bu	0	28	62	100	146	201	269	353	461	605	807
			-99	-70	-37	1	46	102	169	253	361	505	707

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.19	2.31	2.46	2.63	2.83	3.07	3.36	3.73	4.20	4.83	5.72
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-235	-223	-210	-193	-174	-151	-123	-88	-44	15	99
			-335	-323	-309	-293	-274	-251	-223	-188	-143	-83	0
60	114.00	bu	-202	-187	-171	-151	-129	-101	-68	-26	27	99	200
			-302	-287	-271	-251	-228	-201	-167	-125	-71	0	100
70	133.00	bu	-168	-151	-132	-109	-83	-51	-12	36	99	183	301
			-268	-251	-232	-209	-183	-151	-111	-62	0	83	201
80	152.00	bu	-135	-115	-93	-68	-37	-0	43	99	171	267	401
			-234	-215	-193	-167	-137	-100	-55	0	71	167	302
90	171.00	bu	-101	-79	-55	-26	8	49	99	162	243	351	502
			-201	-179	-154	-125	-91	-50	0	62	143	251	402
100	190.00	bu	-68	-44	-16	15	54	99	155	225	315	435	603
			-167	-143	-116	-83	-45	0	55	125	215	335	503
110	209.00	bu	-34	-8	22	57	99	150	211	288	387	519	703
			-134	-107	-77	-41	0	50	111	188	287	419	604
120	228.00	bu	-0	27	61	99	145	200	267	351	459	603	804
			-100	-71	-38	0	45	100	167	251	359	503	704
130	247.00	bu	32	63	99	141	191	250	323	414	531	687	905
			-67	-35	0	41	91	151	223	314	431	587	805
140	266.00	bu	66	99	138	183	237	301	379	477	603	771	1006
			-33	0	38	83	137	201	279	377	503	671	906
150	285.00	bu	99	135	177	225	282	351	435	540	675	855	1106
			0	35	77	125	183	251	335	440	575	755	1006

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	180.0000	68.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	_____
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	32.0000	140.16	_____
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	15.30	0.1344	2.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1611	1.91	_____
Tractors	hour	11.83	0.5819	6.90	_____
DIESEL FUEL					
Tractors	gal	1.73	5.3318	9.22	_____
Harvesters	gal	1.73	1.6602	2.87	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.51	1.0000	8.51	_____
Tractors	Acre	3.16	1.0000	3.16	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	9.82	1.0000	9.82	_____

TOTAL DIRECT EXPENSES				447.15	_____
FIXED EXPENSES					
Implements	Acre	12.50	1.0000	12.50	_____
Tractors	Acre	19.09	1.0000	19.09	_____
Harvesters	Acre	8.66	1.0000	8.66	_____

TOTAL FIXED EXPENSES				40.25	_____

TOTAL SPECIFIED EXPENSES				487.40	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.36	0.93	0.07	0.88				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.62	2.45	1.38	2.53	0.16	1.90				9.88
Corn Seed BtRR	thous											32.0000	4.38	140.16	140.16
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											150.0000	0.38	57.00	57.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	5.13	8.66	1.76	2.55	0.13	2.06				20.16
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
TOTALS						17.51	27.75	8.51	12.50	0.87	10.87			400.44	477.58
INTEREST ON OPERATING CAPITAL															9.82
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															487.40

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.00	2.11	2.24	2.39	2.57	2.79	3.05	3.38	3.81	4.37	5.16
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-252	-243	-233	-221	-206	-189	-168	-142	-108	-63	0
			-292	-283	-273	-261	-247	-229	-208	-182	-148	-103	-40
60	96.00	bu	-227	-216	-204	-189	-172	-151	-126	-94	-54	0	75
			-267	-256	-244	-229	-212	-191	-166	-135	-94	-40	35
70	112.00	bu	-202	-189	-174	-157	-137	-113	-84	-47	0	63	151
			-242	-229	-215	-198	-178	-153	-124	-87	-40	22	111
80	128.00	bu	-176	-162	-145	-126	-103	-75	-42	0	54	126	227
			-217	-202	-186	-166	-143	-116	-82	-40	13	86	187
90	144.00	bu	-151	-135	-116	-94	-68	-37	0	47	108	189	303
			-191	-175	-156	-135	-109	-78	-40	7	68	149	262
100	160.00	bu	-126	-108	-87	-63	-34	0	42	94	162	252	379
			-166	-148	-127	-103	-74	-40	1	54	122	212	338
110	176.00	bu	-101	-81	-58	-31	0	37	84	142	216	315	454
			-141	-121	-98	-71	-40	-2	43	101	176	275	414
120	192.00	bu	-75	-54	-29	0	34	75	126	189	270	379	530
			-116	-94	-69	-40	-5	35	86	149	230	338	490
130	208.00	bu	-50	-27	0	31	68	113	168	236	324	442	606
			-90	-67	-40	-8	28	73	128	196	284	401	566
140	224.00	bu	-25	0	29	63	103	151	210	284	379	505	682
			-65	-40	-11	22	63	111	170	244	338	465	642
150	240.00	bu	0	27	58	94	137	189	252	331	433	568	758
			-40	-13	18	54	97	149	212	291	392	528	717

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			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	-239	-229	-217	-204	-188	-169	-146	-116	-79	-29	40
			-279	-269	-258	-244	-228	-209	-186	-157	-119	-69	0
60	96.00	bu	-211	-199	-185	-169	-150	-127	-99	-64	-19	40	124
			-251	-239	-225	-209	-190	-167	-139	-104	-59	0	83
70	112.00	bu	-183	-169	-153	-134	-112	-85	-52	-12	40	110	207
			-223	-209	-193	-174	-152	-125	-93	-52	0	69	167
80	128.00	bu	-155	-139	-121	-99	-74	-43	-6	40	100	180	291
			-195	-179	-161	-139	-114	-83	-46	0	59	139	251
90	144.00	bu	-127	-109	-88	-64	-35	-1	40	92	160	249	375
			-167	-149	-129	-104	-76	-41	0	52	119	209	335
100	160.00	bu	-99	-79	-56	-29	2	40	86	145	219	319	459
			-139	-119	-96	-69	-38	0	46	104	179	279	419
110	176.00	bu	-71	-49	-24	5	40	82	133	197	279	389	543
			-111	-89	-64	-34	0	41	93	157	239	349	503
120	192.00	bu	-43	-19	7	40	78	124	180	249	339	459	627
			-83	-59	-32	0	38	83	139	209	299	419	587
130	208.00	bu	-15	10	40	75	116	166	226	302	399	529	711
			-55	-29	0	34	76	125	186	262	359	489	670
140	224.00	bu	12	40	72	110	154	207	273	354	459	599	794
			-27	0	32	69	114	167	232	314	419	559	754
150	240.00	bu	40	70	104	145	192	249	319	407	519	669	878
			0	29	64	104	152	209	279	366	479	628	838

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	210.0000	79.80	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	35.0000	153.30	_____
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	15.30	0.1344	2.06	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1611	1.91	_____
Tractors	hour	11.83	0.8750	10.37	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	8.1593	14.12	_____
Harvesters	gal	1.73	1.6602	2.87	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.91	1.0000	8.91	_____
Tractors	Acre	4.85	1.0000	4.85	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	11.27	1.0000	11.27	_____
TOTAL DIRECT EXPENSES				527.92	_____
FIXED EXPENSES					
Implements	Acre	13.58	1.0000	13.58	_____
Tractors	Acre	29.44	1.0000	29.44	_____
Harvesters	Acre	8.66	1.0000	8.66	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				99.47	_____
TOTAL SPECIFIED EXPENSES				627.39	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.36	0.93	0.07	0.88				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.62	2.45	1.38	2.53	0.16	1.90				9.88
Corn Seed BtRR	thous											35.0000	4.38	153.30	153.30
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Nitrogen	lb											180.0000	0.38	68.40	68.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	5.13	8.66	1.76	2.55	0.13	2.06				20.16
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32	1.0000		7.92	101.40
TOTALS						24.10	38.10	30.86	61.37	1.32	16.19			445.50	616.12
INTEREST ON OPERATING CAPITAL															11.27
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															627.39

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.99	2.10	2.23	2.38	2.56	2.77	3.03	3.36	3.78	4.34	5.13
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-298	-287	-275	-260	-243	-223	-198	-167	-127	-74	0
			-397	-386	-374	-360	-343	-323	-298	-267	-227	-173	-99
60	114.00	bu	-268	-255	-240	-223	-203	-178	-149	-111	-63	0	89
			-367	-354	-340	-323	-302	-278	-248	-211	-163	-99	-10
70	133.00	bu	-238	-223	-206	-186	-162	-134	-99	-55	0	74	178
			-337	-323	-305	-285	-262	-233	-198	-155	-99	-24	79
80	152.00	bu	-208	-191	-171	-149	-121	-89	-49	0	63	149	268
			-308	-291	-271	-248	-221	-188	-149	-99	-35	49	168
90	171.00	bu	-178	-159	-137	-111	-81	-44	0	55	127	223	357
			-278	-259	-237	-211	-180	-144	-99	-43	28	124	258
100	190.00	bu	-149	-127	-103	-74	-40	0	49	111	191	298	447
			-248	-227	-202	-173	-140	-99	-49	12	92	198	347
110	209.00	bu	-119	-95	-68	-37	0	44	99	167	255	372	536
			-218	-195	-168	-136	-99	-54	-0	68	155	273	437
120	228.00	bu	-89	-63	-34	0	40	89	149	223	319	447	625
			-188	-163	-133	-99	-58	-10	49	124	219	347	526
130	247.00	bu	-59	-31	0	37	81	134	198	279	383	521	715
			-159	-131	-99	-62	-18	34	99	179	283	422	615
140	266.00	bu	-29	0	34	74	121	178	248	335	447	596	804
			-129	-99	-65	-24	22	79	148	235	347	496	705
150	285.00	bu	0	31	68	111	162	223	298	391	510	670	894
			-99	-67	-30	12	63	124	198	291	411	571	794

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.34	2.48	2.63	2.82	3.04	3.30	3.62	4.02	4.53	5.21	6.17
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-264	-251	-236	-219	-198	-173	-143	-105	-56	8	99
			-364	-351	-336	-318	-298	-273	-242	-204	-156	-91	0
60	114.00	bu	-228	-212	-194	-173	-148	-119	-82	-37	21	99	208
			-327	-312	-294	-273	-248	-218	-182	-136	-78	0	109
70	133.00	bu	-192	-173	-152	-128	-99	-64	-21	31	99	190	318
			-291	-273	-252	-227	-198	-163	-121	-68	0	91	218
80	152.00	bu	-155	-134	-110	-82	-49	-9	38	99	177	281	427
			-255	-234	-210	-182	-149	-109	-60	0	78	182	327
90	171.00	bu	-119	-95	-68	-37	0	44	99	167	255	372	536
			-218	-195	-168	-136	-99	-54	0	68	156	273	437
100	190.00	bu	-82	-56	-26	8	49	99	160	236	333	463	646
			-182	-156	-126	-91	-49	0	60	136	234	364	546
110	209.00	bu	-46	-17	15	53	99	154	220	304	411	554	755
			-145	-117	-84	-45	0	54	121	204	312	455	655
120	228.00	bu	-9	21	57	99	149	208	281	372	489	646	864
			-109	-78	-42	0	49	109	182	273	390	546	765
130	247.00	bu	26	60	99	145	198	263	342	441	567	737	973
			-72	-39	0	45	99	163	242	341	468	637	874
140	266.00	bu	63	99	141	190	248	318	403	509	646	828	1083
			-36	0	42	91	149	218	303	409	546	728	983
150	285.00	bu	99	138	183	236	298	372	463	577	724	919	1192
			0	39	84	136	198	273	364	478	624	819	1093

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	180.0000	68.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Karate Z	oz	1.00	2.1300	2.13	_____
Intrepid 2F	oz	1.94	6.0000	11.64	_____
Baythroid 2	oz	2.58	2.1300	5.50	_____
SEED/PLANTS					
Corn Seed RR	thous	3.38	32.0000	108.16	_____
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	15.30	0.0851	1.30	_____
LA Hired Labor					
Implements	hour	11.83	0.1175	1.40	_____
Tractors	hour	11.83	0.5005	5.93	_____
DIESEL FUEL					
Tractors	gal	1.73	4.8007	8.31	_____
Harvesters	gal	1.73	1.2047	2.08	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.17	1.0000	9.17	_____
Tractors	Acre	2.89	1.0000	2.89	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	9.13	1.0000	9.13	_____
TOTAL DIRECT EXPENSES				425.54	_____
FIXED EXPENSES					
Implements	Acre	13.99	1.0000	13.99	_____
Tractors	Acre	17.44	1.0000	17.44	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
TOTAL FIXED EXPENSES				43.38	_____
TOTAL SPECIFIED EXPENSES				468.92	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.13	1.79	1.55	2.86	0.09	1.18				8.51
Corn Seed RR	thous											32.0000	3.38	108.16	108.16
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Nitrogen	lb											150.0000	0.38	57.00	57.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.00	2.13	2.13
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	1.94	11.64	11.64
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.20	11.95	2.38	3.46	0.08	1.30				24.29
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
TOTALS						16.40	29.39	9.17	13.99	0.70	8.63			382.21	459.79
INTEREST ON OPERATING CAPITAL															9.13
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															468.92

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.91	2.02	2.14	2.28	2.45	2.65	2.90	3.21	3.61	4.14	4.89
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-238	-229	-219	-208	-194	-178	-158	-134	-102	-59	0
			-281	-273	-263	-251	-238	-222	-202	-177	-145	-102	-43
60	96.00	bu	-214	-204	-192	-178	-162	-142	-119	-89	-51	0	71
			-257	-247	-235	-222	-205	-186	-162	-132	-94	-43	28
70	112.00	bu	-190	-178	-164	-148	-129	-107	-79	-44	0	59	142
			-234	-222	-208	-192	-173	-150	-122	-88	-43	16	99
80	128.00	bu	-166	-153	-137	-119	-97	-71	-39	0	51	119	214
			-210	-196	-180	-162	-140	-114	-83	-43	7	75	171
90	144.00	bu	-142	-127	-109	-89	-64	-35	0	44	102	178	285
			-186	-171	-153	-132	-108	-79	-43	1	58	135	242
100	160.00	bu	-119	-102	-82	-59	-32	0	39	89	153	238	357
			-162	-145	-125	-102	-75	-43	-3	45	109	194	314
110	176.00	bu	-95	-76	-54	-29	0	35	79	134	204	297	428
			-138	-119	-98	-73	-43	-7	36	90	160	254	385
120	192.00	bu	-71	-51	-27	0	32	71	119	178	255	357	500
			-114	-94	-70	-43	-10	28	75	135	211	314	457
130	208.00	bu	-47	-25	0	29	64	107	158	223	306	417	571
			-91	-68	-43	-13	21	63	115	180	262	373	528
140	224.00	bu	-23	0	27	59	97	142	198	268	357	476	643
			-67	-43	-15	16	54	99	155	224	314	433	600
150	240.00	bu	0	25	54	89	129	178	238	312	408	536	714
			-43	-17	11	45	86	135	194	269	365	492	671

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.09	2.21	2.35	2.51	2.70	2.93	3.20	3.55	4.00	4.60	5.43
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-223	-214	-203	-190	-175	-157	-134	-106	-71	-23	43
			-267	-257	-246	-233	-218	-200	-178	-150	-114	-66	0
60	96.00	bu	-197	-185	-172	-157	-138	-116	-90	-56	-13	43	123
			-240	-229	-215	-200	-182	-160	-133	-100	-57	0	80
70	112.00	bu	-170	-157	-141	-123	-102	-76	-45	-6	43	110	203
			-213	-200	-184	-167	-145	-120	-89	-50	0	66	160
80	128.00	bu	-143	-128	-110	-90	-65	-36	-1	43	100	176	283
			-187	-171	-154	-133	-109	-80	-44	0	57	133	240
90	144.00	bu	-116	-99	-79	-56	-29	3	43	93	157	243	364
			-160	-143	-123	-100	-72	-40	0	50	114	200	320
100	160.00	bu	-90	-71	-49	-23	6	43	87	143	215	310	444
			-133	-114	-92	-66	-36	0	44	100	171	267	400
110	176.00	bu	-63	-42	-18	9	43	83	132	193	272	377	524
			-106	-85	-61	-33	0	40	89	150	229	334	480
120	192.00	bu	-36	-13	12	43	79	123	176	243	329	444	604
			-80	-57	-30	0	36	80	133	200	286	400	561
130	208.00	bu	-10	14	43	76	116	163	221	293	386	511	684
			-53	-28	0	33	72	120	178	250	343	467	641
140	224.00	bu	16	43	74	110	152	203	266	343	444	577	764
			-26	0	30	66	109	160	222	300	400	534	721
150	240.00	bu	43	72	105	143	189	243	310	394	501	644	845
			0	28	61	100	145	200	267	350	458	601	801

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	210.0000	79.80	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Karate Z	oz	1.00	2.1300	2.13	_____
Baythroid 2	oz	2.58	2.1300	5.50	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed RR	thous	3.38	35.0000	118.30	_____
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	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1175	1.40	_____
Tractors	hour	11.83	0.7998	9.47	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	7.6894	13.32	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.64	1.0000	9.64	_____
Tractors	Acre	4.62	1.0000	4.62	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	10.22	1.0000	10.22	_____
TOTAL DIRECT EXPENSES				491.60	_____
FIXED EXPENSES					
Implements	Acre	15.19	1.0000	15.19	_____
Tractors	Acre	28.02	1.0000	28.02	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				102.95	_____
TOTAL SPECIFIED EXPENSES				594.55	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.13	1.79	1.55	2.86	0.09	1.18				8.51
Corn Seed RR	thous											35.0000	3.38	118.30	118.30
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Nitrogen	lb											180.0000	0.38	68.40	68.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	1.00	2.13	2.13
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.20	11.95	2.38	3.46	0.08	1.30				24.29
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.15	0.23	0.07	0.12	0.00	0.07				0.64
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32	1.0000		7.92	101.40
TOTALS						23.14	39.97	31.59	62.98	1.15	14.02			412.63	584.33
INTEREST ON OPERATING CAPITAL															10.22
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															594.55

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.86	1.96	2.08	2.22	2.39	2.58	2.82	3.12	3.51	4.02	4.74
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-273	-264	-252	-239	-224	-205	-182	-154	-117	-68	0
			-376	-366	-355	-342	-326	-308	-285	-256	-220	-171	-102
60	114.00	bu	-246	-234	-221	-205	-186	-164	-136	-102	-58	0	82
			-349	-337	-324	-308	-289	-267	-239	-205	-161	-102	-20
70	133.00	bu	-219	-205	-189	-171	-149	-123	-91	-51	0	68	164
			-322	-308	-292	-274	-252	-226	-194	-154	-102	-34	61
80	152.00	bu	-191	-176	-157	-136	-112	-82	-45	0	58	136	246
			-294	-278	-260	-239	-214	-185	-148	-102	-44	33	143
90	171.00	bu	-164	-146	-126	-102	-74	-41	0	51	117	205	328
			-267	-249	-229	-205	-177	-144	-102	-51	14	102	225
100	190.00	bu	-136	-117	-94	-68	-37	0	45	102	176	273	410
			-239	-220	-197	-171	-140	-102	-57	-0	73	170	307
110	209.00	bu	-109	-88	-63	-34	0	41	91	154	234	342	492
			-212	-190	-166	-137	-102	-61	-11	51	131	239	389
120	228.00	bu	-82	-58	-31	0	37	82	136	205	293	410	575
			-185	-161	-134	-102	-65	-20	33	102	190	307	472
130	247.00	bu	-54	-29	0	34	74	123	182	256	352	479	657
			-157	-132	-102	-68	-28	20	79	153	249	376	554
140	266.00	bu	-27	0	31	68	112	164	228	308	410	547	739
			-130	-102	-71	-34	9	61	125	205	307	444	636
150	285.00	bu	0	29	63	102	149	205	273	359	469	616	821
			-102	-73	-39	-0	46	102	170	256	366	513	718

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.22	2.35	2.50	2.67	2.88	3.12	3.42	3.80	4.28	4.93	5.83
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-239	-227	-213	-196	-177	-153	-125	-89	-43	17	102
			-342	-330	-316	-299	-280	-256	-228	-192	-146	-85	0
60	114.00	bu	-205	-190	-173	-153	-130	-102	-68	-25	29	102	205
			-308	-293	-276	-256	-233	-205	-171	-128	-73	0	102
70	133.00	bu	-171	-153	-134	-111	-83	-51	-11	38	102	188	308
			-273	-256	-237	-214	-186	-154	-114	-64	0	85	205
80	152.00	bu	-136	-117	-94	-68	-37	0	45	102	176	274	411
			-239	-220	-197	-171	-140	-102	-57	0	73	171	308
90	171.00	bu	-102	-80	-55	-25	9	51	102	167	249	359	513
			-205	-183	-158	-128	-93	-51	0	64	146	256	410
100	190.00	bu	-68	-43	-15	17	56	102	160	231	323	445	616
			-171	-146	-118	-85	-46	0	57	128	220	342	513
110	209.00	bu	-34	-7	23	60	102	154	217	295	396	531	719
			-136	-110	-79	-42	0	51	114	192	293	428	616
120	228.00	bu	0	29	63	102	149	205	274	359	469	616	822
			-102	-73	-39	0	46	102	171	256	366	513	719
130	247.00	bu	34	66	102	145	196	257	331	424	543	702	924
			-68	-36	0	42	93	154	228	321	440	599	821
140	266.00	bu	68	102	142	188	243	308	388	488	616	787	1027
			-34	0	39	85	140	205	285	385	513	684	924
150	285.00	bu	102	139	181	231	289	359	445	552	690	873	1130
			0	36	79	128	186	256	342	449	587	770	1027

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	180.0000	68.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	_____
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	32.0000	140.16	_____
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	15.30	0.0851	1.30	_____
LA Hired Labor					
Implements	hour	11.83	0.1175	1.40	_____
Tractors	hour	11.83	0.5005	5.93	_____
DIESEL FUEL					
Tractors	gal	1.73	4.8007	8.31	_____
Harvesters	gal	1.73	1.2047	2.08	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.17	1.0000	9.17	_____
Tractors	Acre	2.89	1.0000	2.89	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	9.76	1.0000	9.76	_____

TOTAL DIRECT EXPENSES				444.40	_____
FIXED EXPENSES					
Implements	Acre	13.99	1.0000	13.99	_____
Tractors	Acre	17.44	1.0000	17.44	_____
Harvesters	Acre	11.95	1.0000	11.95	_____

TOTAL FIXED EXPENSES				43.38	_____

TOTAL SPECIFIED EXPENSES				487.78	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.13	1.79	1.55	2.86	0.09	1.18				8.51
Corn Seed BtRR	thous											32.0000	4.38	140.16	140.16
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Nitrogen	lb											150.0000	0.38	57.00	57.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.20	11.95	2.38	3.46	0.08	1.30				24.29
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
TOTALS						16.40	29.39	9.17	13.99	0.70	8.63			400.44	478.02
INTEREST ON OPERATING CAPITAL															9.76
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															487.78

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.99	2.10	2.23	2.38	2.56	2.77	3.03	3.36	3.78	4.34	5.12
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-250	-241	-231	-219	-205	-188	-167	-141	-107	-62	0
			-294	-285	-274	-262	-248	-231	-210	-184	-150	-106	-43
60	96.00	bu	-225	-215	-202	-188	-171	-150	-125	-94	-53	0	75
			-269	-258	-246	-231	-214	-193	-168	-137	-97	-43	31
70	112.00	bu	-200	-188	-173	-156	-136	-112	-83	-47	0	62	150
			-244	-231	-217	-200	-180	-156	-127	-90	-43	19	107
80	128.00	bu	-175	-161	-144	-125	-102	-75	-41	0	53	125	225
			-218	-204	-188	-168	-146	-118	-85	-43	10	82	182
90	144.00	bu	-150	-134	-115	-94	-68	-37	0	47	107	188	301
			-193	-177	-159	-137	-111	-81	-43	3	64	144	257
100	160.00	bu	-125	-107	-86	-62	-34	0	41	94	161	250	376
			-168	-150	-130	-106	-77	-43	-1	50	117	207	332
110	176.00	bu	-100	-80	-57	-31	0	37	83	141	215	313	451
			-143	-124	-101	-74	-43	-5	40	97	171	270	408
120	192.00	bu	-75	-53	-28	0	34	75	125	188	268	376	526
			-118	-97	-72	-43	-9	31	82	144	225	332	483
130	208.00	bu	-50	-26	0	31	68	112	167	235	322	439	602
			-93	-70	-43	-12	25	69	123	191	279	395	558
140	224.00	bu	-25	0	28	62	102	150	209	282	376	501	677
			-68	-43	-14	19	59	107	165	238	332	458	633
150	240.00	bu	0	26	57	94	136	188	250	329	430	564	752
			-43	-16	14	50	93	144	207	285	386	521	709

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.17	2.29	2.44	2.61	2.81	3.04	3.34	3.70	4.17	4.79	5.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-236	-226	-214	-201	-185	-166	-143	-114	-76	-26	43
			-279	-269	-258	-244	-228	-209	-186	-157	-119	-69	0
60	96.00	bu	-208	-196	-182	-166	-147	-124	-96	-61	-16	43	127
			-251	-239	-225	-209	-190	-167	-139	-104	-59	0	83
70	112.00	bu	-180	-166	-150	-131	-109	-82	-49	-9	43	113	211
			-223	-209	-193	-174	-152	-125	-93	-52	0	69	167
80	128.00	bu	-152	-136	-118	-96	-71	-40	-3	43	103	183	295
			-195	-179	-161	-139	-114	-83	-46	0	59	139	251
90	144.00	bu	-124	-106	-85	-61	-32	1	43	95	163	253	379
			-167	-149	-129	-104	-76	-41	0	52	119	209	335
100	160.00	bu	-96	-76	-53	-26	5	43	90	148	223	323	463
			-139	-119	-96	-69	-38	0	46	104	179	279	419
110	176.00	bu	-68	-46	-21	8	43	85	136	200	283	393	546
			-111	-89	-64	-34	0	41	93	157	239	349	503
120	192.00	bu	-40	-16	11	43	81	127	183	253	343	463	630
			-83	-59	-32	0	38	83	139	209	299	419	587
130	208.00	bu	-12	13	43	78	119	169	229	305	403	533	714
			-55	-29	0	34	76	125	186	262	359	489	671
140	224.00	bu	15	43	75	113	157	211	276	358	463	602	798
			-27	0	32	69	114	167	233	314	419	559	755
150	240.00	bu	43	73	107	148	195	253	323	410	523	672	882
			0	29	64	104	152	209	279	367	479	629	839

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_____
App by Air (3 gal)	appl	5.50	1.0000	5.50	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.39	30.0000	11.70	_____
LA Potash	lb	0.28	60.0000	16.80	_____
LA Nitrogen	lb	0.38	210.0000	79.80	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.08	2.0000	4.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	1.0000	5.83	_____
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.71	6.0000	4.26	_____
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	35.0000	153.30	_____
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	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1175	1.40	_____
Tractors	hour	11.83	0.7936	9.40	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	7.6282	13.21	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	9.57	1.0000	9.57	_____
Tractors	Acre	4.58	1.0000	4.58	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	Acre	11.21	1.0000	11.21	_____
TOTAL DIRECT EXPENSES				525.17	_____
FIXED EXPENSES					
Implements	Acre	15.07	1.0000	15.07	_____
Tractors	Acre	27.79	1.0000	27.79	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				102.60	_____
TOTAL SPECIFIED EXPENSES				627.77	_____

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, 2021.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	0.96	1.52	0.27	0.53	0.08	1.00				4.28
LA Phosphate	lb											30.0000	0.39	11.70	11.70
LA Potash	lb											60.0000	0.28	16.80	16.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	2.08	4.16	4.16
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	5.83	5.83	5.83
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	0.94	1.42	0.18	0.96	0.04	0.55				4.05
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.13	1.79	1.55	2.86	0.09	1.18				8.51
Corn Seed BtRR	thous											35.0000	4.38	153.30	153.30
LA Nitrogen	lb											30.0000	0.38	11.40	11.40
Ditcher		2WD 130	0.020	1.00	Mar	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Nitrogen	lb											180.0000	0.38	68.40	68.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.50	5.50	5.50
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.20	11.95	2.38	3.46	0.08	1.30				24.29
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	1.47	2.14	2.19	1.28	0.08	0.98				8.06
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	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.71	4.26	4.26
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	22.35	48.87	0.44	5.32	1.0000		7.92	101.40
TOTALS						22.99	39.74	31.52	62.86	1.15	13.95			445.50	616.56
INTEREST ON OPERATING CAPITAL															11.21
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															627.77

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			1.98	2.09	2.22	2.37	2.55	2.76	3.02	3.34	3.76	4.32	5.10
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-296	-285	-273	-259	-242	-222	-197	-166	-126	-74	0
			-398	-388	-376	-361	-344	-324	-300	-269	-229	-176	-102
60	114.00	bu	-266	-253	-239	-222	-201	-177	-148	-111	-63	0	88
			-369	-356	-341	-324	-304	-280	-250	-213	-166	-102	-13
70	133.00	bu	-236	-222	-205	-185	-161	-133	-98	-55	0	74	177
			-339	-324	-307	-287	-264	-235	-201	-158	-102	-28	75
80	152.00	bu	-207	-190	-170	-148	-121	-88	-49	0	63	148	266
			-309	-293	-273	-250	-223	-191	-151	-102	-39	45	163
90	171.00	bu	-177	-158	-136	-111	-80	-44	0	55	126	222	355
			-280	-261	-239	-213	-183	-147	-102	-47	24	119	252
100	190.00	bu	-148	-126	-102	-74	-40	0	49	111	190	296	444
			-250	-229	-205	-176	-142	-102	-53	8	87	193	341
110	209.00	bu	-118	-95	-68	-37	0	44	98	166	253	370	533
			-221	-197	-170	-139	-102	-58	-3	64	151	267	430
120	228.00	bu	-88	-63	-34	0	40	88	148	222	317	444	622
			-191	-166	-136	-102	-62	-13	45	119	214	341	519
130	247.00	bu	-59	-31	0	37	80	133	197	277	380	518	710
			-161	-134	-102	-65	-21	30	94	175	278	415	608
140	266.00	bu	-29	0	34	74	121	177	246	333	444	592	799
			-132	-102	-68	-28	18	75	144	230	341	489	697
150	285.00	bu	0	31	68	111	161	222	296	388	507	666	888
			-102	-70	-34	8	58	119	193	286	405	563	786

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, 2021.

			-----BREAKEVEN PRICE-----										
Corn			2.34	2.48	2.63	2.82	3.04	3.30	3.62	4.02	4.53	5.22	6.18
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-262	-248	-233	-216	-195	-170	-140	-102	-53	11	102
			-364	-351	-336	-319	-298	-273	-243	-205	-156	-91	0
60	114.00	bu	-225	-209	-191	-170	-145	-116	-79	-34	24	102	211
			-328	-312	-294	-273	-248	-218	-182	-136	-78	0	109
70	133.00	bu	-189	-170	-149	-125	-96	-61	-18	34	102	193	321
			-291	-273	-252	-227	-198	-164	-121	-68	0	91	218
80	152.00	bu	-152	-131	-107	-79	-46	-6	41	102	180	284	430
			-255	-234	-210	-182	-149	-109	-60	0	78	182	328
90	171.00	bu	-116	-92	-65	-34	3	47	102	170	258	376	540
			-218	-195	-168	-136	-99	-54	0	68	156	273	437
100	190.00	bu	-79	-53	-23	11	52	102	163	239	336	467	649
			-182	-156	-126	-91	-49	0	60	136	234	364	546
110	209.00	bu	-43	-14	18	57	102	157	224	307	415	558	758
			-145	-117	-84	-45	0	54	121	205	312	455	656
120	228.00	bu	-6	24	60	102	152	211	284	376	493	649	868
			-109	-78	-42	0	49	109	182	273	390	546	765
130	247.00	bu	29	63	102	148	202	266	345	444	571	740	977
			-72	-39	0	45	99	164	243	341	468	638	875
140	266.00	bu	66	102	144	193	251	321	406	512	649	831	1087
			-36	0	42	91	149	218	303	410	546	729	984
150	285.00	bu	102	141	186	239	301	376	467	581	727	922	1196
			0	39	84	136	198	273	364	478	625	820	1093

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.50	0.43	3.63	2.23	5.87
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.60	8.54	18.03	36.25	54.29
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	10.27	13.40	31.07	56.86	87.93
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	14.38	17.90	39.67	75.96	115.64
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	8.21	11.66	25.79	49.48	75.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.50	9.21	20.39	39.09	59.49
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.92	9.72	15.85	30.51	67.28	97.79
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.68	12.51	24.08	53.11	77.20
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.57	8.67	20.13	36.79	56.93
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	10.27	13.39	31.06	56.82	87.88
Cotton Picker-1st-Tr	4R38"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, (Continued) and direct and fixed cost per acre, Louisiana 2021.

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