

# **Projected Costs and Returns Crop Enterprise Budgets for Corn Production in Louisiana, 2018**

**Michael A. Deliberto, Brian M. Hilbun, and Michael E. Salassi**



**Farm Management Research & Extension  
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## TABLE OF CONTENTS

	<u>PAGE</u>
Introduction .....	2
Procedure .....	2
Expected Crop Yields and Market Prices .....	3
Direct Production Costs .....	3
Farm Machinery Costs .....	3
Overhead Costs .....	3
Land and Management Charges.....	4
Acknowledgements.....	4
Internet Access .....	4

### **CORN ENTERPRISE BUDGETS:**

#### Table

1 Corn, RR, 8-row equipment, 38 inch rows, non-irrigated, alluvial soils, Louisiana, 2018 .....	5
2 Corn, RR, 8-row equipment, 38 inch rows, irrigated, alluvial soils, Louisiana, 2018 .....	8
3 Corn, Bt-RR, 8-row equipment, 38 inch rows, non-irrigated, alluvial soils, Louisiana, 2018 .....	11
4 Corn, Bt-RR, 8-row equipment, 38 inch rows, irrigated, alluvial soils, Louisiana, 2018 .....	14
5 Corn, Bt-RR, 12-row equipment, 38 inch rows, non-irrigated, alluvial soils, Louisiana, 2018 .....	17
6 Corn, RR, 12-row equipment, 38 inch rows, irrigated, alluvial soils, Louisiana, 2018 .....	20
7 Corn, Bt-RR, 12-row equipment, 38 inch rows, non-irrigated, alluvial soils, Louisiana, 2018 .....	23
8 Corn, Bt-RR, 12-row equipment, 38 inch rows, irrigated, alluvial soils, Louisiana, 2018 .....	26
Appendices .....	29

#### App. Table

1 Est. Costs Per Acre, Poly Pipe, 160 acres, 10.5” in three applications, LA 2018.....	29
2 Est. Costs Per Acre, Center Pivot, ¼ Mile, 7.5” in three applications, LA 2018.....	29
3 Operating Inputs, Estimated Prices for Louisiana, 2018 .....	30
4 Tractors, performance rates and costs, Louisiana, 2018 .....	37
5 Self-propelled machines, performance rates and costs, Louisiana, 2018.....	38
6 Implements, performance rates and costs, Louisiana, 2018 .....	39

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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 2018 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 2018 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 2018 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

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

### ***Expected Crop Yields and Market Prices***

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

### ***Direct Production Costs***

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

Hired labor was charged at \$10.38 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 4.75% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$2.28 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 5.00%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

### ***Farm Machinery Costs***

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

### ***Overhead Costs***

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

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

### ***Land and Management Charges***

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

### **Acknowledgments**

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

### **Internet Access**

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

Table 1.A Estimated costs per Acre  
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,  
 Alluvial Soil, Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	180.0000	61.20	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Karate Z	oz	3.40	2.1300	7.24	_____
Intrepid 2F	oz	1.80	6.0000	10.80	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	32.0000	100.16	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
LA Hired Labor					
Implements	hour	10.38	0.1611	1.67	_____
Tractors	hour	10.38	0.5819	6.05	_____
DIESEL FUEL					
Tractors	gal	2.28	5.3318	12.16	_____
Harvesters	gal	2.28	1.6602	3.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.65	1.0000	7.65	_____
Tractors	Acre	2.89	1.0000	2.89	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	10.49	1.0000	10.49	_____
TOTAL DIRECT EXPENSES				414.41	_____
FIXED EXPENSES					
Implements	Acre	11.66	1.0000	11.66	_____
Tractors	Acre	18.16	1.0000	18.16	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
TOTAL FIXED EXPENSES				38.75	_____
TOTAL SPECIFIED EXPENSES				453.16	_____

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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.29	0.76	0.07	0.77				6.39
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.98	2.42	1.16	2.22	0.16	1.66				9.44
Corn Seed RR	thous											32.0000	3.13	100.16	100.16
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Nitrogen	lb											150.0000	0.34	51.00	51.00
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	3.40	7.24	7.24
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	1.80	10.80	10.80
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.05	8.93	1.60	2.41	0.13	1.82				20.81
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
TOTALS						21.10	27.09	7.65	11.66	0.87	9.54			365.63	442.67
INTEREST ON OPERATING CAPITAL															10.49
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															453.16



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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.86	1.97	2.09	2.22	2.39	2.59	2.83	3.13	3.51	4.03	4.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-230	-222	-213	-201	-188	-173	-153	-129	-98	-57	0
			-269	-261	-251	-240	-227	-211	-192	-168	-137	-96	-38
60	96.00	bu	-207	-197	-186	-173	-157	-138	-115	-86	-49	0	69
			-246	-236	-225	-211	-196	-177	-154	-125	-88	-38	30
70	112.00	bu	-184	-173	-159	-144	-125	-103	-76	-43	0	57	138
			-223	-211	-198	-182	-164	-142	-115	-82	-38	18	99
80	128.00	bu	-161	-148	-133	-115	-94	-69	-38	0	49	115	207
			-200	-187	-171	-154	-133	-107	-77	-38	10	76	168
90	144.00	bu	-138	-123	-106	-86	-62	-34	0	43	98	173	276
			-177	-162	-145	-125	-101	-73	-38	4	60	134	238
100	160.00	bu	-115	-98	-79	-57	-31	0	38	86	148	230	346
			-154	-137	-118	-96	-70	-38	-0	47	109	192	307
110	176.00	bu	-92	-74	-53	-28	0	34	76	129	197	288	415
			-131	-112	-92	-67	-38	-4	38	91	159	249	376
120	192.00	bu	-69	-49	-26	0	31	69	115	173	247	346	484
			-107	-88	-65	-38	-7	30	76	134	208	307	445
130	208.00	bu	-46	-24	0	28	62	103	153	216	296	403	553
			-84	-63	-38	-9	24	65	115	177	257	365	515
140	224.00	bu	-23	0	26	57	94	138	192	259	346	461	623
			-61	-38	-12	18	55	99	153	220	307	422	584
150	240.00	bu	0	24	53	86	125	173	230	302	395	519	692
			-38	-14	14	47	87	134	192	264	356	480	653

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.03	2.14	2.27	2.43	2.61	2.83	3.09	3.43	3.86	4.43	5.23
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-217	-208	-198	-185	-171	-153	-132	-105	-71	-25	38
			-256	-247	-236	-224	-209	-192	-171	-144	-109	-64	0
60	96.00	bu	-192	-181	-168	-153	-136	-115	-89	-57	-16	38	115
			-230	-219	-207	-192	-174	-153	-128	-96	-54	0	76
70	112.00	bu	-166	-153	-138	-121	-101	-76	-46	-9	38	102	192
			-205	-192	-177	-160	-139	-115	-85	-48	0	64	153
80	128.00	bu	-140	-126	-109	-89	-66	-38	-4	38	93	167	269
			-179	-164	-148	-128	-104	-76	-42	0	54	128	230
90	144.00	bu	-115	-98	-79	-57	-31	0	38	86	148	231	346
			-153	-137	-118	-96	-69	-38	0	48	109	192	307
100	160.00	bu	-89	-71	-50	-25	3	38	81	134	203	295	423
			-128	-109	-88	-64	-34	0	42	96	164	256	384
110	176.00	bu	-63	-43	-20	6	38	77	124	183	258	359	500
			-102	-82	-59	-32	0	38	85	144	219	320	461
120	192.00	bu	-38	-16	9	38	73	115	167	231	313	423	577
			-76	-54	-29	0	34	76	128	192	274	384	538
130	208.00	bu	-12	11	38	70	108	154	209	279	368	487	654
			-51	-27	0	32	69	115	171	240	329	449	615
140	224.00	bu	13	38	68	102	143	192	252	327	423	551	731
			-25	0	29	64	104	153	213	288	384	513	692
150	240.00	bu	38	66	97	134	178	231	295	375	478	616	808
			0	27	59	96	139	192	256	336	439	577	769

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

Table 2.A Estimated costs per Acre  
 Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,  
 Alluvial Soil, Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	210.0000	71.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Karate Z	oz	3.40	2.1300	7.24	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	35.0000	109.55	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1611	1.67	_____
Tractors	hour	10.38	0.8812	9.15	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	8.2204	18.75	_____
Harvesters	gal	2.28	1.6602	3.79	_____
Roll-Out Pipe Irr.	gal	2.28	8.5535	19.50	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.14	1.0000	8.14	_____
Tractors	Acre	4.47	1.0000	4.47	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	11.83	1.0000	11.83	_____
TOTAL DIRECT EXPENSES				485.16	_____
FIXED EXPENSES					
Implements	Acre	12.93	1.0000	12.93	_____
Tractors	Acre	28.16	1.0000	28.16	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____
TOTAL FIXED EXPENSES				99.18	_____
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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.29	0.76	0.07	0.77				6.39
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.98	2.42	1.16	2.22	0.16	1.66				9.44
Corn Seed RR	thous											35.0000	3.13	109.55	109.55
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Nitrogen	lb											180.0000	0.34	61.20	61.20
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	3.40	7.24	7.24
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.05	8.93	1.60	2.41	0.13	1.82				20.81
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.17	0.21	0.06	0.11	0.00	0.06				0.61
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	26.82	50.32	0.44	4.66	1.0000		8.25	107.84
TOTALS						29.27	37.09	34.53	62.09	1.33	14.26			395.27	572.51
INTEREST ON OPERATING CAPITAL															11.83
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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.84	1.94	2.06	2.19	2.36	2.55	2.78	3.08	3.46	3.97	4.68
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-269	-259	-248	-235	-220	-202	-179	-151	-115	-67	0
			-368	-358	-347	-334	-319	-301	-278	-250	-214	-166	-99
60	114.00	bu	-242	-230	-217	-202	-183	-161	-134	-101	-57	0	80
			-341	-330	-316	-301	-282	-260	-233	-200	-156	-99	-18
70	133.00	bu	-215	-202	-186	-168	-146	-121	-89	-50	0	67	161
			-314	-301	-285	-267	-246	-220	-188	-149	-99	-31	62
80	152.00	bu	-188	-173	-155	-134	-110	-80	-44	0	57	134	242
			-287	-272	-254	-233	-209	-180	-144	-99	-41	35	143
90	171.00	bu	-161	-144	-124	-101	-73	-40	0	50	115	202	323
			-260	-243	-223	-200	-172	-139	-99	-48	16	102	224
100	190.00	bu	-134	-115	-93	-67	-36	0	44	101	173	269	404
			-233	-214	-192	-166	-135	-99	-54	1	74	170	304
110	209.00	bu	-107	-86	-62	-33	0	40	89	151	230	336	484
			-206	-185	-161	-132	-99	-58	-9	52	131	237	385
120	228.00	bu	-80	-57	-31	0	36	80	134	202	288	404	565
			-180	-156	-130	-99	-62	-18	35	102	189	304	466
130	247.00	bu	-53	-28	0	33	73	121	179	252	346	471	646
			-153	-128	-99	-65	-25	22	80	153	247	372	547
140	266.00	bu	-26	0	31	67	110	161	224	303	404	538	727
			-126	-99	-68	-31	11	62	125	203	304	439	628
150	285.00	bu	0	28	62	101	146	202	269	353	461	606	808
			-99	-70	-37	1	47	102	170	254	362	506	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 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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.19	2.31	2.46	2.63	2.83	3.07	3.36	3.73	4.21	4.84	5.72
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-236	-224	-210	-194	-175	-152	-124	-89	-44	15	99
			-335	-323	-309	-293	-274	-251	-223	-188	-143	-83	0
60	114.00	bu	-202	-188	-171	-152	-129	-102	-68	-26	27	99	199
			-301	-287	-270	-251	-228	-201	-167	-125	-71	0	100
70	133.00	bu	-169	-152	-133	-110	-83	-51	-12	36	99	183	300
			-268	-251	-232	-209	-183	-150	-111	-62	0	83	201
80	152.00	bu	-135	-116	-94	-68	-38	-1	43	99	171	266	401
			-234	-215	-193	-167	-137	-100	-55	0	71	167	301
90	171.00	bu	-102	-80	-55	-26	7	48	99	162	242	350	501
			-201	-179	-154	-125	-91	-50	0	62	143	251	402
100	190.00	bu	-68	-44	-16	15	53	99	155	225	314	434	602
			-167	-143	-116	-83	-45	0	55	125	215	335	503
110	209.00	bu	-35	-8	21	57	99	149	211	287	386	518	703
			-134	-107	-77	-41	0	50	111	188	287	419	603
120	228.00	bu	-1	27	60	99	144	199	266	350	458	602	803
			-100	-71	-38	0	45	100	167	251	359	503	704
130	247.00	bu	32	63	99	141	190	250	322	413	530	686	904
			-67	-35	0	41	91	150	223	314	431	587	805
140	266.00	bu	65	99	137	183	236	300	378	476	602	770	1005
			-33	0	38	83	137	201	279	377	503	671	905
150	285.00	bu	99	135	176	225	282	350	434	539	674	854	1105
			0	35	77	125	183	251	335	440	575	754	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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	180.0000	61.20	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.91	32.0000	125.12	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
LA Hired Labor					
Implements	hour	10.38	0.1611	1.67	_____
Tractors	hour	10.38	0.5819	6.05	_____
DIESEL FUEL					
Tractors	gal	2.28	5.3318	12.16	_____
Harvesters	gal	2.28	1.6602	3.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.65	1.0000	7.65	_____
Tractors	Acre	2.89	1.0000	2.89	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	10.85	1.0000	10.85	_____
				-----	
TOTAL DIRECT EXPENSES				421.69	_____
FIXED EXPENSES					
Implements	Acre	11.66	1.0000	11.66	_____
Tractors	Acre	18.16	1.0000	18.16	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
				-----	
TOTAL FIXED EXPENSES				38.75	_____
				-----	
TOTAL SPECIFIED EXPENSES				460.44	_____

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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.29	0.76	0.07	0.77				6.39
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.98	2.42	1.16	2.22	0.16	1.66				9.44
Corn Seed BtRR	thous											32.0000	3.91	125.12	125.12
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Nitrogen	lb											150.0000	0.34	51.00	51.00
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.05	8.93	1.60	2.41	0.13	1.82				20.81
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
TOTALS						21.10	27.09	7.65	11.66	0.87	9.54			372.55	449.59
INTEREST ON OPERATING CAPITAL															10.85
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															460.44

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.89	2.00	2.12	2.26	2.43	2.63	2.88	3.18	3.58	4.10	4.84
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-235	-227	-217	-206	-192	-176	-157	-132	-100	-58	0
			-274	-265	-256	-244	-231	-215	-195	-171	-139	-97	-38
60	96.00	bu	-212	-201	-190	-176	-160	-141	-117	-88	-50	0	70
			-250	-240	-229	-215	-199	-180	-156	-127	-89	-38	31
70	112.00	bu	-188	-176	-163	-147	-128	-106	-78	-44	0	58	141
			-227	-215	-201	-186	-167	-144	-117	-82	-38	20	102
80	128.00	bu	-164	-151	-135	-117	-96	-70	-39	0	50	117	212
			-203	-190	-174	-156	-135	-109	-78	-38	11	79	173
90	144.00	bu	-141	-126	-108	-88	-64	-35	0	44	100	176	282
			-180	-164	-147	-127	-103	-74	-38	5	62	137	243
100	160.00	bu	-117	-100	-81	-58	-32	0	39	88	151	235	353
			-156	-139	-120	-97	-70	-38	0	49	112	196	314
110	176.00	bu	-94	-75	-54	-29	0	35	78	132	201	294	424
			-132	-114	-93	-68	-38	-3	39	93	163	255	385
120	192.00	bu	-70	-50	-27	0	32	70	117	176	252	353	494
			-109	-89	-65	-38	-6	31	79	137	213	314	456
130	208.00	bu	-47	-25	0	29	64	106	157	220	302	412	565
			-85	-63	-38	-9	25	67	118	182	264	373	526
140	224.00	bu	-23	0	27	58	96	141	196	265	353	471	636
			-62	-38	-11	20	57	102	157	226	314	432	597
150	240.00	bu	0	25	54	88	128	176	235	309	403	530	706
			-38	-13	15	49	89	137	196	270	365	491	668

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.06	2.17	2.31	2.46	2.65	2.87	3.15	3.49	3.92	4.51	5.32
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-222	-213	-202	-190	-175	-157	-135	-108	-73	-26	38
			-261	-252	-241	-228	-213	-196	-174	-147	-112	-65	0
60	96.00	bu	-196	-185	-172	-157	-139	-118	-91	-59	-17	38	117
			-235	-224	-211	-196	-178	-156	-130	-98	-56	0	78
70	112.00	bu	-170	-157	-142	-124	-103	-78	-48	-10	38	104	195
			-209	-196	-181	-163	-142	-117	-87	-49	0	65	156
80	128.00	bu	-144	-129	-112	-91	-68	-39	-4	38	94	169	274
			-183	-168	-150	-130	-106	-78	-43	0	56	130	235
90	144.00	bu	-118	-101	-81	-59	-32	-0	38	87	150	234	352
			-156	-140	-120	-98	-71	-39	0	49	112	196	313
100	160.00	bu	-91	-73	-51	-26	3	38	82	136	206	300	430
			-130	-112	-90	-65	-35	0	43	98	168	261	392
110	176.00	bu	-65	-45	-21	6	38	77	125	185	262	365	509
			-104	-84	-60	-32	0	39	87	147	224	326	470
120	192.00	bu	-39	-17	8	38	74	117	169	234	318	430	587
			-78	-56	-30	0	35	78	130	196	280	392	549
130	208.00	bu	-13	10	38	71	110	156	213	283	374	496	666
			-52	-28	0	32	71	117	174	245	336	457	627
140	224.00	bu	12	38	68	104	145	195	256	332	430	561	744
			-26	0	30	65	106	156	217	294	392	522	705
150	240.00	bu	38	66	99	136	181	234	300	381	486	627	823
			0	28	60	98	142	196	261	343	448	588	784

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	210.0000	71.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.91	35.0000	136.85	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.1344	1.82	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1611	1.67	_____
Tractors	hour	10.38	0.8750	9.09	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	8.1593	18.61	_____
Harvesters	gal	2.28	1.6602	3.79	_____
Roll-Out Pipe Irr.	gal	2.28	8.5535	19.50	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.08	1.0000	8.08	_____
Tractors	Acre	4.44	1.0000	4.44	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	12.58	1.0000	12.58	_____
TOTAL DIRECT EXPENSES				505.68	_____
FIXED EXPENSES					
Implements	Acre	12.82	1.0000	12.82	_____
Tractors	Acre	27.95	1.0000	27.95	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____
TOTAL FIXED EXPENSES				98.86	_____
TOTAL SPECIFIED EXPENSES				604.54	_____



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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.29	0.76	0.07	0.77				6.39
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.98	2.42	1.16	2.22	0.16	1.66				9.44
Corn Seed BtRR	thous											35.0000	3.91	136.85	136.85
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Nitrogen	lb											180.0000	0.34	61.20	61.20
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.05	8.93	1.60	2.41	0.13	1.82				20.81
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
Roll-Out Pipe Irr.	Acres				Jul	8.00	9.79	26.82	50.32	0.44	4.66	1.0000		8.25	107.84
TOTALS						29.10	36.88	34.47	61.98	1.32	14.20			415.33	591.96
INTEREST ON OPERATING CAPITAL															12.58
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															604.54

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.91	2.02	2.14	2.28	2.45	2.66	2.90	3.22	3.61	4.15	4.89
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-283	-272	-261	-247	-231	-212	-188	-159	-121	-70	0
			-381	-371	-360	-346	-330	-311	-287	-258	-220	-169	-98
60	114.00	bu	-254	-242	-228	-212	-193	-169	-141	-106	-60	0	84
			-353	-341	-327	-311	-291	-268	-240	-205	-159	-98	-13
70	133.00	bu	-226	-212	-195	-176	-154	-127	-94	-53	0	70	169
			-325	-311	-294	-275	-253	-226	-193	-151	-98	-28	70
80	152.00	bu	-198	-181	-163	-141	-115	-84	-47	0	60	141	254
			-297	-280	-262	-240	-214	-183	-146	-98	-38	42	155
90	171.00	bu	-169	-151	-130	-106	-77	-42	0	53	121	212	339
			-268	-250	-229	-205	-176	-141	-98	-45	22	113	240
100	190.00	bu	-141	-121	-97	-70	-38	0	47	106	181	283	424
			-240	-220	-196	-169	-137	-98	-51	7	83	184	325
110	209.00	bu	-113	-90	-65	-35	0	42	94	159	242	353	509
			-212	-189	-164	-134	-98	-56	-4	60	143	254	410
120	228.00	bu	-84	-60	-32	0	38	84	141	212	303	424	594
			-183	-159	-131	-98	-60	-13	42	113	204	325	495
130	247.00	bu	-56	-30	0	35	77	127	188	265	363	495	679
			-155	-129	-98	-63	-21	28	89	166	265	396	580
140	266.00	bu	-28	0	32	70	115	169	235	318	424	566	764
			-127	-98	-66	-28	16	70	137	219	325	467	665
150	285.00	bu	0	30	65	106	154	212	283	371	485	636	849
			-98	-68	-33	7	55	113	184	272	386	538	750

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

Table 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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.26	2.39	2.54	2.72	2.93	3.18	3.48	3.87	4.36	5.01	5.93
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-250	-237	-223	-206	-186	-162	-133	-97	-50	11	98
			-348	-336	-322	-305	-285	-261	-232	-196	-149	-87	0
60	114.00	bu	-215	-200	-183	-162	-139	-110	-75	-32	24	98	203
			-314	-299	-281	-261	-237	-209	-174	-130	-74	0	104
70	133.00	bu	-180	-162	-142	-119	-91	-58	-17	33	98	186	308
			-279	-261	-241	-218	-190	-157	-116	-65	0	87	209
80	152.00	bu	-145	-125	-102	-75	-43	-5	40	98	173	273	412
			-244	-224	-201	-174	-142	-104	-58	0	74	174	314
90	171.00	bu	-110	-88	-62	-32	3	46	98	164	248	360	517
			-209	-186	-161	-130	-95	-52	0	65	149	261	418
100	190.00	bu	-75	-50	-21	11	51	98	157	229	323	447	622
			-174	-149	-120	-87	-47	0	58	130	224	348	523
110	209.00	bu	-40	-13	18	55	98	151	215	295	397	535	727
			-139	-112	-80	-43	0	52	116	196	299	436	628
120	228.00	bu	-5	24	58	98	146	203	273	360	472	622	831
			-104	-74	-40	0	47	104	174	261	373	523	732
130	247.00	bu	29	61	98	142	194	255	331	426	547	709	936
			-69	-37	0	43	95	157	232	327	448	610	837
140	266.00	bu	63	98	139	186	241	308	389	491	622	796	1041
			-34	0	40	87	142	209	290	392	523	697	942
150	285.00	bu	98	136	179	229	289	360	447	556	697	884	1145
			0	37	80	130	190	261	348	458	598	785	1046

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	180.0000	61.20	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Karate Z	oz	3.40	2.1300	7.24	_____
Intrepid 2F	oz	1.80	6.0000	10.80	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	32.0000	100.16	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.38	0.1175	1.23	_____
Tractors	hour	10.38	0.5005	5.21	_____
DIESEL FUEL					
Tractors	gal	2.28	4.8007	10.95	_____
Harvesters	gal	2.28	1.2047	2.75	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.09	1.0000	8.09	_____
Tractors	Acre	2.62	1.0000	2.62	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
INTEREST ON OP. CAP.	Acre	10.41	1.0000	10.41	_____
TOTAL DIRECT EXPENSES				410.95	_____
FIXED EXPENSES					
Implements	Acre	12.61	1.0000	12.61	_____
Tractors	Acre	16.45	1.0000	16.45	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
TOTAL FIXED EXPENSES				40.54	_____
TOTAL SPECIFIED EXPENSES				451.49	_____

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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Corn Seed RR	thous											32.0000	3.13	100.16	100.16
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Nitrogen	lb											150.0000	0.34	51.00	51.00
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	3.40	7.24	7.24
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	1.80	10.80	10.80
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.66	11.48	2.05	3.08	0.08	1.15				23.42
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
TOTALS						19.23	27.93	8.09	12.61	0.70	7.59			365.63	441.08
INTEREST ON OPERATING CAPITAL															10.41
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															451.49

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.85	1.95	2.07	2.21	2.37	2.56	2.80	3.10	3.48	3.99	4.71
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-228	-220	-210	-199	-186	-171	-152	-128	-97	-57	0
			-269	-260	-251	-240	-227	-211	-192	-169	-138	-97	-40
60	96.00	bu	-205	-195	-184	-171	-155	-137	-114	-85	-48	0	68
			-246	-236	-225	-211	-196	-177	-154	-126	-89	-40	27
70	112.00	bu	-182	-171	-158	-142	-124	-102	-76	-42	0	57	137
			-223	-211	-198	-183	-165	-143	-116	-83	-40	16	96
80	128.00	bu	-159	-146	-131	-114	-93	-68	-38	0	48	114	205
			-200	-187	-172	-154	-134	-109	-78	-40	8	73	165
90	144.00	bu	-137	-122	-105	-85	-62	-34	0	42	97	171	274
			-177	-162	-145	-126	-102	-74	-40	2	57	130	233
100	160.00	bu	-114	-97	-79	-57	-31	0	38	85	146	228	342
			-154	-138	-119	-97	-71	-40	-2	45	106	187	302
110	176.00	bu	-91	-73	-52	-28	0	34	76	128	195	285	411
			-131	-113	-93	-69	-40	-6	35	87	155	245	370
120	192.00	bu	-68	-48	-26	0	31	68	114	171	244	342	479
			-109	-89	-66	-40	-9	27	73	130	204	302	439
130	208.00	bu	-45	-24	0	28	62	102	152	214	293	399	548
			-86	-65	-40	-11	21	62	111	173	253	359	507
140	224.00	bu	-22	0	26	57	93	137	190	257	342	456	616
			-63	-40	-14	16	52	96	149	216	302	416	576
150	240.00	bu	0	24	52	85	124	171	228	299	391	514	685
			-40	-16	12	45	84	130	187	259	351	473	644

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.02	2.13	2.26	2.42	2.60	2.82	3.08	3.42	3.84	4.41	5.21
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-214	-205	-195	-183	-168	-151	-129	-103	-68	-23	40
			-255	-246	-235	-223	-209	-191	-170	-143	-109	-63	0
60	96.00	bu	-189	-178	-165	-151	-133	-112	-87	-55	-14	40	117
			-229	-218	-206	-191	-174	-153	-127	-95	-54	0	76
70	112.00	bu	-163	-151	-136	-119	-98	-74	-44	-7	40	104	193
			-204	-191	-176	-159	-139	-114	-85	-47	0	63	153
80	128.00	bu	-138	-123	-106	-87	-63	-36	-2	40	95	168	270
			-178	-164	-147	-127	-104	-76	-42	0	54	127	229
90	144.00	bu	-112	-96	-77	-55	-29	2	40	88	150	232	347
			-153	-136	-117	-95	-69	-38	0	47	109	191	306
100	160.00	bu	-87	-68	-47	-23	5	40	83	136	204	296	423
			-127	-109	-88	-63	-34	0	42	95	164	255	383
110	176.00	bu	-61	-41	-18	8	40	78	125	184	259	359	500
			-102	-82	-58	-31	0	38	85	143	218	319	459
120	192.00	bu	-36	-14	11	40	75	117	168	232	314	423	577
			-76	-54	-29	0	34	76	127	191	273	383	536
130	208.00	bu	-10	13	40	72	110	155	210	280	369	487	653
			-51	-27	0	31	69	114	170	239	328	447	613
140	224.00	bu	14	40	70	104	145	193	253	327	423	551	730
			-25	0	29	63	104	153	212	287	383	510	689
150	240.00	bu	40	67	99	136	179	232	296	375	478	615	807
			0	27	58	95	139	191	255	335	437	574	766

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	210.0000	71.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Karate Z	oz	3.40	2.1300	7.24	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed RR	thous	3.13	35.0000	109.55	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1175	1.23	_____
Tractors	hour	10.38	0.7998	8.31	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	7.6894	17.54	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	8.5535	19.50	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.58	1.0000	8.58	_____
Tractors	Acre	4.20	1.0000	4.20	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	11.75	1.0000	11.75	_____
TOTAL DIRECT EXPENSES				481.70	_____
FIXED EXPENSES					
Implements	Acre	13.88	1.0000	13.88	_____
Tractors	Acre	26.45	1.0000	26.45	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____
TOTAL FIXED EXPENSES				100.97	_____
TOTAL SPECIFIED EXPENSES				582.67	_____

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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Corn Seed RR	thous											35.0000	3.13	109.55	109.55
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Nitrogen	lb											180.0000	0.34	61.20	61.20
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
Karate Z	oz											2.1300	3.40	7.24	7.24
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.66	11.48	2.05	3.08	0.08	1.15				23.42
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.17	0.21	0.06	0.11	0.00	0.06				0.61
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	26.82	50.32	0.44	4.66	1.0000		8.25	107.84
TOTALS						27.40	37.93	34.97	63.04	1.15	12.31			395.27	570.92
INTEREST ON OPERATING CAPITAL															11.75
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															582.67

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, 2018.

Corn	-----BREAKEVEN PRICE-----												
	1.83	1.93	2.04	2.18	2.34	2.53	2.76	3.06	3.43	3.94	4.64		
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-267	-257	-246	-233	-218	-200	-178	-150	-114	-66	0
			-368	-358	-347	-334	-319	-301	-279	-251	-215	-167	-100
60	114.00	bu	-240	-228	-215	-200	-182	-160	-133	-100	-57	0	80
			-341	-329	-316	-301	-283	-261	-234	-201	-158	-100	-20
70	133.00	bu	-213	-200	-184	-166	-145	-120	-89	-50	0	66	160
			-314	-301	-285	-267	-246	-221	-190	-151	-100	-34	59
80	152.00	bu	-186	-171	-154	-133	-109	-80	-44	0	57	133	240
			-287	-272	-255	-234	-210	-181	-145	-100	-43	32	139
90	171.00	bu	-160	-143	-123	-100	-72	-40	0	50	114	200	320
			-261	-244	-224	-201	-173	-141	-100	-50	13	99	219
100	190.00	bu	-133	-114	-92	-66	-36	0	44	100	171	267	400
			-234	-215	-193	-167	-137	-100	-56	-0	70	166	299
110	209.00	bu	-106	-85	-61	-33	0	40	89	150	228	333	480
			-207	-186	-162	-134	-100	-60	-11	49	127	232	379
120	228.00	bu	-80	-57	-30	0	36	80	133	200	286	400	560
			-181	-158	-131	-100	-64	-20	32	99	185	299	459
130	247.00	bu	-53	-28	0	33	72	120	178	250	343	467	641
			-154	-129	-100	-67	-28	19	77	149	242	366	540
140	266.00	bu	-26	0	30	66	109	160	222	300	400	534	721
			-127	-100	-70	-34	8	59	121	199	299	433	620
150	285.00	bu	0	28	61	100	145	200	267	350	457	600	801
			-100	-72	-39	-0	44	99	166	249	356	499	700

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, 2018.

Corn	-----BREAKEVEN PRICE-----												
	2.18	2.31	2.45	2.62	2.82	3.06	3.36	3.72	4.19	4.82	5.70		
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-233	-221	-207	-191	-172	-149	-121	-87	-42	17	100
			-334	-322	-308	-292	-273	-250	-222	-188	-143	-83	0
60	114.00	bu	-199	-185	-169	-149	-127	-99	-66	-24	29	100	201
			-300	-286	-270	-250	-228	-200	-167	-125	-71	0	100
70	133.00	bu	-166	-149	-130	-108	-81	-49	-10	38	100	184	301
			-267	-250	-231	-209	-182	-150	-111	-62	0	83	200
80	152.00	bu	-133	-114	-91	-66	-35	0	45	100	172	268	401
			-234	-214	-192	-167	-136	-100	-55	0	71	167	300
90	171.00	bu	-99	-78	-53	-24	9	50	100	163	244	351	502
			-200	-179	-154	-125	-91	-50	0	62	143	250	401
100	190.00	bu	-66	-42	-14	17	55	100	156	226	315	435	602
			-167	-143	-115	-83	-45	0	55	125	214	334	501
110	209.00	bu	-32	-6	23	59	100	151	212	289	387	518	702
			-133	-107	-77	-41	0	50	111	188	286	418	601
120	228.00	bu	0	29	62	100	146	201	268	351	459	602	803
			-100	-71	-38	0	45	100	167	250	358	501	702
130	247.00	bu	34	65	100	142	192	251	323	414	530	686	903
			-66	-35	0	41	91	150	222	313	429	585	802
140	266.00	bu	67	100	139	184	237	301	379	477	602	769	1003
			-33	0	38	83	136	200	278	376	501	668	902
150	285.00	bu	100	136	178	226	283	351	435	539	674	853	1104
			0	35	77	125	182	250	334	438	573	752	1003

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	180.0000	61.20	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.91	32.0000	125.12	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.38	0.1175	1.23	_____
Tractors	hour	10.38	0.5005	5.21	_____
DIESEL FUEL					
Tractors	gal	2.28	4.8007	10.95	_____
Harvesters	gal	2.28	1.2047	2.75	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.09	1.0000	8.09	_____
Tractors	Acre	2.62	1.0000	2.62	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
INTEREST ON OP. CAP.	Acre	10.77	1.0000	10.77	_____
TOTAL DIRECT EXPENSES				418.23	_____
FIXED EXPENSES					
Implements	Acre	12.61	1.0000	12.61	_____
Tractors	Acre	16.45	1.0000	16.45	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
TOTAL FIXED EXPENSES				40.54	_____
TOTAL SPECIFIED EXPENSES				458.77	_____

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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Corn Seed BtRR	thous											32.0000	3.91	125.12	125.12
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Nitrogen	lb											150.0000	0.34	51.00	51.00
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.66	11.48	2.05	3.08	0.08	1.15				23.42
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
TOTALS						19.23	27.93	8.09	12.61	0.70	7.59			372.55	448.00
INTEREST ON OPERATING CAPITAL															10.77
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															458.77

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.88	1.98	2.10	2.24	2.41	2.61	2.85	3.16	3.55	4.07	4.80
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-233	-224	-215	-204	-190	-174	-155	-131	-99	-58	0
			-273	-265	-255	-244	-231	-215	-196	-171	-140	-98	-40
60	96.00	bu	-209	-199	-188	-174	-159	-139	-116	-87	-49	0	69
			-250	-240	-228	-215	-199	-180	-157	-128	-90	-40	29
70	112.00	bu	-186	-174	-161	-145	-127	-104	-77	-43	0	58	139
			-227	-215	-202	-186	-167	-145	-118	-84	-40	17	99
80	128.00	bu	-163	-149	-134	-116	-95	-69	-38	0	49	116	209
			-203	-190	-175	-157	-135	-110	-79	-40	9	76	169
90	144.00	bu	-139	-124	-107	-87	-63	-34	0	43	99	174	279
			-180	-165	-148	-128	-104	-75	-40	3	59	134	239
100	160.00	bu	-116	-99	-80	-58	-31	0	38	87	149	233	349
			-157	-140	-121	-98	-72	-40	-1	46	109	192	309
110	176.00	bu	-93	-74	-53	-29	0	34	77	131	199	291	419
			-133	-115	-94	-69	-40	-5	37	90	159	251	379
120	192.00	bu	-69	-49	-26	0	31	69	116	174	249	349	489
			-110	-90	-67	-40	-8	29	76	134	209	309	449
130	208.00	bu	-46	-24	0	29	63	104	155	218	299	408	559
			-87	-65	-40	-11	23	64	115	178	259	367	519
140	224.00	bu	-23	0	26	58	95	139	194	262	349	466	629
			-63	-40	-13	17	54	99	153	221	309	426	589
150	240.00	bu	0	24	53	87	127	174	233	306	399	524	699
			-40	-15	13	46	86	134	192	265	359	484	659

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.05	2.16	2.30	2.46	2.64	2.86	3.13	3.47	3.91	4.49	5.30
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-219	-210	-199	-187	-172	-154	-133	-105	-71	-24	40
			-260	-251	-240	-227	-213	-195	-173	-146	-111	-65	0
60	96.00	bu	-193	-182	-169	-154	-136	-115	-89	-57	-15	40	118
			-234	-223	-210	-195	-177	-156	-130	-97	-55	0	78
70	112.00	bu	-167	-154	-139	-122	-101	-76	-46	-8	40	105	196
			-208	-195	-180	-162	-142	-117	-86	-48	0	65	156
80	128.00	bu	-141	-126	-109	-89	-65	-37	-2	40	96	170	274
			-182	-167	-150	-130	-106	-78	-43	0	55	130	234
90	144.00	bu	-115	-98	-79	-57	-30	1	40	89	152	235	352
			-156	-139	-120	-97	-71	-39	0	48	111	195	312
100	160.00	bu	-89	-71	-49	-24	5	40	83	138	207	300	431
			-130	-111	-90	-65	-35	0	43	97	167	260	390
110	176.00	bu	-63	-43	-19	7	40	79	127	186	263	365	509
			-104	-83	-60	-32	0	39	86	146	223	325	468
120	192.00	bu	-37	-15	10	40	76	118	170	235	319	431	587
			-78	-55	-30	0	35	78	130	195	278	390	546
130	208.00	bu	-11	12	40	73	111	157	214	284	375	496	665
			-52	-27	0	32	71	117	173	244	334	455	624
140	224.00	bu	14	40	70	105	147	196	257	333	431	561	743
			-26	0	30	65	106	156	216	292	390	520	702
150	240.00	bu	40	68	100	138	182	235	300	382	486	626	821
			0	27	60	97	142	195	260	341	446	585	781

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

Table 8.A Estimated costs per Acre  
 Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,  
 Alluvial Soil, Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.0000	26.00	_____
App by Air ( 3 gal)	appl	5.00	1.0000	5.00	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.40	30.0000	12.00	_____
LA Potash	lb	0.26	60.0000	15.60	_____
LA Nitrogen	lb	0.34	210.0000	71.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	1.75	2.0000	3.50	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	1.0000	6.38	_____
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.66	6.0000	3.96	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.91	35.0000	136.85	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1175	1.23	_____
Tractors	hour	10.38	0.7936	8.25	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	7.6282	17.40	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	8.5535	19.50	_____
REPAIR & MAINTENANCE					
Implements	Acre	8.52	1.0000	8.52	_____
Tractors	Acre	4.17	1.0000	4.17	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	Acre	12.50	1.0000	12.50	_____
TOTAL DIRECT EXPENSES				502.22	_____
FIXED EXPENSES					
Implements	Acre	13.77	1.0000	13.77	_____
Tractors	Acre	26.24	1.0000	26.24	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____
TOTAL FIXED EXPENSES				100.65	_____
TOTAL SPECIFIED EXPENSES				602.87	_____

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, 2018.

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	46.00	15.18	15.18
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.17	1.43	0.29	0.59	0.08	0.88				4.36
LA Phosphate	lb											30.0000	0.40	12.00	12.00
LA Potash	lb											60.0000	0.26	15.60	15.60
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air ( 5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	1.75	3.50	3.50
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	6.38	6.38	6.38
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Roller	32'	MFWD 170	0.046	1.00	Mar	1.15	1.40	0.18	1.00	0.04	0.48				4.21
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Corn Seed BtRR	thous											35.0000	3.91	136.85	136.85
LA Nitrogen	lb											30.0000	0.34	10.20	10.20
Ditcher		2WD 130	0.020	1.00	Mar	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Nitrogen	lb											180.0000	0.34	61.20	61.20
App by Air ( 5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	4.50
App by Air ( 5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air ( 3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	5.00
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	12R-30	275hp	0.085	1.00	Aug	5.66	11.48	2.05	3.08	0.08	1.15				23.42
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	1.79	2.03	1.99	1.20	0.08	0.86				7.87
App by Air ( 5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Select 2EC	oz											6.0000	0.66	3.96	3.96
Roll-Out Pipe Irr.	Acres				Jul	8.00	9.79	26.82	50.32	0.44	4.66	1.0000		8.25	107.84
TOTALS						27.23	37.72	34.91	62.93	1.15	12.25			415.33	590.37
INTEREST ON OPERATING CAPITAL															12.50
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															602.87

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			1.90	2.00	2.13	2.27	2.44	2.64	2.88	3.19	3.59	4.12	4.85
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-280	-270	-259	-245	-229	-210	-187	-157	-120	-70	0
			-381	-371	-359	-346	-330	-311	-287	-258	-220	-170	-100
60	114.00	bu	-252	-240	-226	-210	-191	-168	-140	-105	-60	0	84
			-353	-341	-327	-311	-292	-269	-241	-205	-160	-100	-16
70	133.00	bu	-224	-210	-194	-175	-153	-126	-93	-52	0	70	168
			-325	-311	-295	-276	-253	-226	-194	-153	-100	-30	67
80	152.00	bu	-196	-180	-161	-140	-114	-84	-46	0	60	140	252
			-297	-281	-262	-241	-215	-184	-147	-100	-40	39	152
90	171.00	bu	-168	-150	-129	-105	-76	-42	0	52	120	210	336
			-269	-251	-230	-205	-177	-142	-100	-48	19	109	236
100	190.00	bu	-140	-120	-97	-70	-38	0	46	105	180	280	421
			-241	-220	-197	-170	-138	-100	-53	4	79	180	320
110	209.00	bu	-112	-90	-64	-35	0	42	93	157	240	350	505
			-212	-190	-165	-135	-100	-58	-7	57	140	250	404
120	228.00	bu	-84	-60	-32	0	38	84	140	210	300	421	589
			-184	-160	-133	-100	-62	-16	39	109	200	320	488
130	247.00	bu	-56	-30	0	35	76	126	187	263	360	491	673
			-156	-130	-100	-65	-24	25	86	162	260	390	573
140	266.00	bu	-28	0	32	70	114	168	233	315	421	561	758
			-128	-100	-68	-30	14	67	133	215	320	460	657
150	285.00	bu	0	30	64	105	153	210	280	368	481	631	842
			-100	-70	-35	4	52	109	180	267	380	531	741

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, 2018.

			-----BREAKEVEN PRICE-----										
Corn			2.25	2.38	2.53	2.71	2.92	3.17	3.47	3.85	4.35	5.00	5.91
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-247	-234	-220	-203	-183	-160	-131	-95	-48	13	100
			-347	-335	-321	-304	-284	-260	-231	-195	-149	-86	0
60	114.00	bu	-212	-197	-180	-160	-136	-108	-73	-29	26	100	205
			-313	-298	-280	-260	-237	-208	-173	-130	-74	0	104
70	133.00	bu	-177	-160	-140	-116	-89	-55	-15	35	100	187	309
			-278	-260	-240	-217	-189	-156	-115	-65	0	86	208
80	152.00	bu	-142	-122	-100	-73	-41	-3	42	100	175	274	413
			-243	-223	-200	-173	-142	-104	-57	0	74	173	313
90	171.00	bu	-108	-85	-59	-29	5	48	100	165	249	361	518
			-208	-186	-160	-130	-94	-52	0	65	149	260	417
100	190.00	bu	-73	-48	-19	13	53	100	158	231	324	448	622
			-173	-149	-120	-86	-47	0	57	130	223	347	521
110	209.00	bu	-38	-11	20	57	100	152	216	296	398	535	726
			-139	-111	-80	-43	0	52	115	195	298	434	626
120	228.00	bu	-3	26	60	100	148	205	274	361	473	622	831
			-104	-74	-40	0	47	104	173	260	372	521	730
130	247.00	bu	31	63	100	144	195	257	332	426	547	709	935
			-69	-37	0	43	94	156	231	326	447	608	834
140	266.00	bu	65	100	140	187	242	309	390	492	622	796	1039
			-34	0	40	86	142	208	289	391	521	695	939
150	285.00	bu	100	137	180	231	290	361	448	557	697	883	1144
			0	37	80	130	189	260	347	456	596	782	1043

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	10.38	0.2930	3.04	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	2.8274	6.45	_____
Engine, RPF, 75	gal	2.28	8.5535	19.50	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.43	1.0000	0.43	_____
Tractors	Acre	1.55	1.0000	1.55	_____
Well & Pump, Furrow	each	472.80	0.0062	2.96	_____
Engine, RPF, 75	ac-in	0.37	10.5000	3.93	_____
INTEREST ON OP. CAP.	Acre	0.78	1.0000	0.78	_____
TOTAL DIRECT EXPENSES				48.51	_____
FIXED EXPENSES					
Implements	Acre	1.16	1.0000	1.16	_____
Tractors	Acre	9.79	1.0000	9.79	_____
Well & Pump, Furrow	each	1397.76	0.0062	8.74	_____
Main Line Pipe	each	691.21	0.0062	4.32	_____
Land Forming (\$300)	each	27.67	1.0000	27.67	_____
Engine, RPF, 75	each	1348.07	0.0062	8.43	_____
TOTAL FIXED EXPENSES				60.11	_____
TOTAL SPECIFIED EXPENSES				108.62	_____

Appendix Table 2 Estimated costs per Acre  
Center pivot irrigation system, 1/4 mile  
applying 7.5 inches in three applications Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	10.38	0.2036	2.11	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.28	11.2011	25.54	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	472.80	0.0074	3.50	_____
Engine, 1/4 CP, 65	ac-in	0.62	7.5000	4.67	_____
Pivot, 1/4 CP	1320'	1820.00	0.0074	13.48	_____
INTEREST ON OP. CAP.	Acre	0.92	1.0000	0.92	_____
TOTAL DIRECT EXPENSES				50.22	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1397.76	0.0074	10.35	_____
Engine, 1/4 CP, 65	each	1348.07	0.0074	9.99	_____
Pivot, 1/4 CP	each	7302.07	0.0074	54.09	_____
TOTAL FIXED EXPENSES				74.43	_____
TOTAL SPECIFIED EXPENSES				124.65	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
dollars		
ADJUVANTS		
Surfactant	pt	1.63
CUSTOM FERT/LIME		
App Fert by Air	cwt	7.00
App Fert by Air (Min)	appl	7.00
Custom Apply Fert	acre	7.00
Custom Spread (Truc)	appl	4.50
Lime (Spread)	ton	46.00
CUSTOM HARVEST/HAUL		
Custom Combine Rice	acre	0.00
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air ( 1 gal)	appl	2.50
App by Air ( 2 gal)	appl	4.00
App by Air ( 3 gal)	appl	5.00
App by Air ( 5 gal)	appl	6.50
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.00
Custom Terragator	acre	5.00
LARice GPS Charge-SW	acre	0.35
LARice GPS Charge_NE	acre	0.25
Spray Levees, 4whlr	acre	0.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	22.50
Amm Sulfate (21% N)	cwt	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil ( Seed Oil)	pt	4.60
DAP	cwt	21.52
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	22.25
Fert 10-34-0	gal	0.00
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	13.50
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.34
LA Phosphate	lb	0.40
LA Potash	lb	0.26
Phosphorus (46% P2O5)	cwt	18.75
Potash (60% K2O)	cwt	18.98
Sulfur	lb	0.34
UAN (32% N)	cwt	10.50
UAN + Sulfur (28% N)	cwt	11.75
Urea, Solid (46% N)	cwt	14.19
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.84
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	4.93
Crop Oil (Petroleum)	pt	2.74
Cruiser 5FS	oz	17.38
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81



Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Dithane Rainsheild	lb	4.15
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	1.56
Ridomil GoldPC 10G	lb	2.08
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	25.00
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.75
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LRice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.16
Mepex	oz	0.08
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.39
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	7.01
CottonQuik	pt	6.06
Def 6	pt	6.88
Def/Folex	pt	7.55
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	2.88
Finish 6	pt	9.61
Folex 6EC	pt	10.54
Ginstar EC	pt	26.44
Gramoxone Extra	pt	4.86
Gramoxone Max	pt	4.06
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	2.75
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	3.00
AAtrex 4L	pt	2.12
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.16
Aim DF	oz	9.65

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.60
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	15.02
Basagran	pt	12.31
Basis Gold	lb	9.00
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	11.20
Buctril 4EC	pt	17.06
Butoxone 175 (2,4-DB)	pt	3.24
Butoxone 200 (2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	4.34
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.60
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.55
Classic	oz	17.18
Clincher EC	oz	2.30
Cobra 2EC	oz	1.72
Command 3ME	pt	18.50
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	6.42
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.52
Crossbow	pt	8.05
Cy-Pro 4L	qt	0.00
Cypro 90DF	lb	0.00
Delta Goal	pt	9.44
Denim 0.16 EC	pt	24.06
Detail	pt	7.99
Direx 4L	pt	3.99
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.90
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.50
Dual Magnum	pt	13.80
Duet	pt	5.35
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	41.21
Flexstar HL	pt	4.50
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Fultime	pt	6.29
Fusilade DX	oz	1.00
Fusion	pt	29.86
Glyphos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	1.75
Glystar Plus	pt	2.17
Goal 2XL	pt	9.89
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	5.46
Gramoxone Max	pt	5.46
Grandstand R	qt	17.15
Guardsman	pt	4.66
Guardsman Max	pt	7.22
Harmony Extra	oz	12.00
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	38.80
LA Weedmaster	qt	3.08
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	6.30
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	2.90
MSMA6 + Surfactant	pt	3.63
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.47
Pendimax 3.3	pt	2.47
Permit 75DF	oz	18.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	6.07
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.58
Raptor	oz	4.38
Reflex 2LC	pt	6.52
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	2.50
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.48
Select 2EC	oz	0.66
Sencor 4F	pt	14.74
Sencor DF	lb	9.00
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.61
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	12.75
Strongarm	oz	56.42
Superwham	qt	9.18
Suprend	lb	13.49

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	5.16
Treflan HFP	pt	3.52
Treflan TR-10	lb	1.10
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.52
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	6.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.43
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
Asana .66 XL	oz	0.58
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.30
Bidrin 8L	oz	0.90
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.38
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.86
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Dimethoate 4E	pt	5.31
Dimilin 2L	oz	1.45
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	6.03
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	9.71
Karate Z	oz	3.40
Lannate LV	pt	10.88
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.50
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.48
Organophosphate	oz	0.00
Orthene 90S	lb	5.75
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Pennacap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	14.13
Pounce 3.2 EC	oz	0.91

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2018.

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	1.88
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LRice Insurance	Dollar	1.00
LRice Misc. Overhd	dollar	1.00
LRice 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	2.60
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.13
Cotton Seed Bt	thoud	0.28
Cotton Seed BtRR	thous	1.26
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
LA Hybrid Rice Seed	acre	160.00
Rice Clearfield 161	lb	1.03
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.28
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.85
Sorghum NonConcept	lb	1.18
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Wheat Seed Private	lb	0.29
Wheat Seed Public	lb	0.00
SERVICE FEE		
Crop Consultant	acre	7.00
Insect Scouting	acre	7.00
Rice Consultant	acre	8.00
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BG/RR Cot Tech Fee	thous	1.49
BG/RR Cot Tech Fee	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2018.

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

Appendix Table 4. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2018.

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	22.29	0.00	35.80	0.00	35.80
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	28.15	16.82	58.49	66.39	124.89
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	29.34	0.00	42.85	0.00	42.85
Combine (250-299 hp)	275hp	328,000	300	8	14.15	13.51	32.26	34.16	79.93	134.81	214.75
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	34.61	22.73	70.85	89.69	160.54
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	34.04	0.00	47.55	0.00	47.55
Combine (300-349 hp)	325hp	355,000	300	8	16.73	13.51	38.14	36.97	88.63	145.91	234.54
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	37.55	0.00	51.06	0.00	51.06
Combine (350-379 hp)	370hp	354,000	300	8	19.04	13.51	43.41	36.87	93.79	145.50	239.29
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	42.84	0.00	56.35	0.00	56.35
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	18.42	26.56	58.49	104.80	163.30
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.38	10.92	2.72	24.02	7.84	31.87
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.38	7.98	1.57	19.93	4.54	24.48
test-mes		0	0	0	0.00	13.51	0.00	0.00	0.00	0.00	0.00
Tractor ( 40-59hp)Cab	2WD 50	32,300	600	8	2.57	10.38	5.86	1.00	17.25	6.07	23.33
Tractor ( 40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.38	5.86	1.23	17.48	7.42	24.91
Tractor ( 40-59hp)RB	2WD 50	21,100	600	8	2.57	10.38	5.86	0.65	16.90	3.96	20.87
Tractor ( 40-59hp)RB	MFWD 50	24,800	600	8	2.57	10.38	5.86	0.77	17.02	4.66	21.68
Tractor ( 60-89hp)CAB	2WD 75	49,300	600	8	3.86	10.38	8.80	1.54	20.72	9.27	29.99
Tractor ( 60-89hp)CAB	MFWD 75	52,500	600	8	3.86	10.38	8.80	1.64	20.82	9.87	30.69
Tractor ( 60-89hp)RB	2WD 75	33,100	600	8	3.86	10.38	8.80	1.03	20.21	6.22	26.44
Tractor ( 60-89hp)RB	MFWD 75	37,800	600	8	3.86	10.38	8.80	1.18	20.36	7.10	27.47
Tractor ( 90-119hp)CB	2WD 105	60,300	600	8	5.40	10.38	12.32	1.88	24.58	11.33	35.92
Tractor ( 90-119hp)CB	MFWD 105	76,100	600	8	5.40	10.38	12.32	2.37	25.08	14.31	39.39
Tractor ( 90-119hp)RB	2WD 105	60,300	600	8	5.40	10.38	12.32	1.88	24.58	11.33	35.92
Tractor ( 90-119hp)RB	MFWD 105	76,100	600	8	5.40	10.38	12.32	2.37	25.08	14.31	39.39
Tractor (120-139hp)CB	2WD 130	103,000	600	8	6.69	10.38	15.25	3.21	28.85	19.36	48.22
Tractor (120-139hp)CB	MFWD 130	113,000	600	8	6.69	10.38	15.25	3.53	29.16	21.25	50.41
Tractor (140-159hp)CB	2WD 150	108,000	600	8	7.72	10.38	17.60	3.37	31.35	20.30	51.66
Tractor (140-159hp)CB	MFWD 150	131,000	600	8	7.72	10.38	17.60	4.09	32.07	24.63	56.71
Tractor (160-179hp)CB	2WD 170	156,000	600	8	8.75	10.38	19.95	4.87	35.20	30.69	65.90
Tractor (160-179hp)CB	MFWD 170	153,000	600	8	8.75	10.38	19.95	4.78	35.11	30.10	65.21
Tractor (160-199hp)CB	Track 180	142,710	600	8	9.26	10.38	21.12	4.45	35.96	28.08	64.04
Tractor (180-199hp)CB	2WD 190	143,000	600	8	9.77	10.38	22.29	4.46	37.14	28.13	65.28
Tractor (180-199hp)CB	MFWD 190	173,000	600	8	9.77	10.38	22.29	5.40	38.08	34.04	72.12
Tractor (200-249hp)CB	4WD 225	147,066	600	8	11.58	10.38	26.40	4.59	41.38	28.93	70.32
Tractor (200-249hp)CB	MFWD 225	210,000	600	8	11.58	10.38	26.40	6.56	43.34	41.32	84.67
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	10.38	26.40	8.65	45.44	54.50	99.95
Tractor (250-349hp)CB	4WD 300	285,000	600	8	15.44	10.38	35.20	8.90	54.49	56.08	110.57
Tractor (250-349hp)CB	Track 300	318,000	600	8	15.44	10.38	35.20	9.93	55.52	62.57	118.10
Tractor (350-449hp)CB	4WD 400	331,000	600	8	20.58	10.38	46.94	10.34	67.66	65.13	132.80
Tractor (350-449hp)CB	Track 400	341,000	600	8	20.58	10.38	46.94	10.65	67.97	67.10	135.08
Tractor (450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.38	55.74	8.74	74.86	55.07	129.94

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 2018.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.42	0.43	3.55	2.06	5.62
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.23	8.54	17.67	33.71	51.38
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	9.60	13.40	30.39	52.88	83.27
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	13.44	17.90	38.73	70.64	109.37
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	7.67	11.66	25.25	46.01	71.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.07	9.21	19.96	36.35	56.32
Cotton Picker-1st-BB	6R30"255hp	465,000	200	8	18.27	0.218	4.92	9.09	15.85	29.87	62.56	92.44
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.17	12.51	23.58	49.39	72.98
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.07	8.67	19.63	34.22	53.86
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	9.60	13.39	30.38	52.84	83.23
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.38	12.48	15.91	35.78	62.78	98.57
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	7.83	11.67	25.42	46.06	71.49
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.07	9.40	20.15	37.10	57.26
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.32	15.85	29.10	62.56	91.67
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.07	12.51	23.48	49.39	72.88
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.10	9.96	28.01	39.32	67.33
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	5.99	7.34	16.63	28.99	45.62
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.13	11.34	25.73	44.76	70.50
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.25	10.57	13.47	30.31	53.18	83.50
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.53	9.14	20.60	36.07	56.68
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	8.96	11.97	25.86	47.25	73.12
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	6.63	9.88	21.53	39.02	60.55
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.14	7.80	16.91	30.79	47.71
Cotton Picker-2nd-BB	6R30"255hp	465,000	200	8	18.01	0.184	4.17	7.59	13.43	25.19	52.99	78.19
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	5.99	10.60	19.89	41.84	61.73
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.10	9.96	28.01	39.32	67.33
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	5.99	7.34	16.63	28.98	45.62
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.13	11.34	25.73	44.76	70.50
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.25	10.57	13.47	30.31	53.18	83.50
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.53	9.14	20.60	36.07	56.68
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	8.96	11.97	25.86	47.25	73.12
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	6.63	9.88	21.53	39.02	60.55
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.14	7.96	17.07	31.43	48.50
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	5.99	10.60	19.89	41.84	61.73
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	10.38	5.25	2.81	18.44	6.65	25.09
LA Rice Combine	25 ft	165,000	300	10	8.60	0.300	5.05	5.88	13.21	24.15	20.07	44.23
LA Rice Combine-2	25 ft	165,000	300	10	8.60	0.300	5.05	5.88	13.21	24.15	20.07	44.23
LARice Combine Med	20 ft	150,000	300	10	7.10	0.210	3.53	3.40	8.40	15.33	12.76	28.10
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.22	0.06	0.97	0.41	1.39
SC Billet Harvester	6 ft	290,000	750	10	12.00	0.700	11.78	19.15	27.06	57.99	32.47	90.46
SC Harvester 1Rw	6 ft	115,000	400	12	6.80	0.875	14.72	13.56	20.96	49.25	26.80	76.05
SC Harvester 2Rw	12 ft	210,000	400	12	8.00	0.388	6.53	7.07	16.97	30.58	21.70	52.28
SC Loader 1Rw	6 ft	85,000	425	10	5.10	0.598	6.83	6.96	8.74	22.54	14.55	37.09
SC Loader 2Rw	12 ft	150,000	425	10	7.00	0.300	3.42	4.79	7.73	15.95	12.88	28.84
SC Transloader		30,000	120	12	4.70	0.250	2.85	2.67	3.75	9.28	6.65	15.94
SC Truck&Trailer	30 Ton	45,000	400	10	7.00	1.000	11.41	15.96	7.87	35.25	13.67	48.92
Sprayer( 300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.27	0.00	0.68	0.00	0.68
Sprayer( 300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.22	0.09	0.64	0.63	1.28
Sprayer( 300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.17	0.07	0.48	0.47	0.96
Sprayer( 600-750Gal)	60'	193,000	350	8	10.29	0.017	0.31	0.41	0.18	0.91	1.19	2.11
Sprayer( 600-825Gal)	80'	202,000	350	8	10.29	0.013	0.23	0.31	0.14	0.69	0.94	1.63
Sprayer( 600-825Gal)	90'	279,000	350	8	10.29	0.011	0.21	0.27	0.17	0.66	1.15	1.81
Sprayer(1000-1400Gal)	90'	310,000	350	8	14.15	0.014	0.25	0.45	0.23	0.94	1.53	2.48
Sprayer(1200PlusGal)	120'	334,000	350	8	15.44	0.008	0.15	0.31	0.15	0.62	1.03	1.66



Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Blade-Box	6'	2WD 130	1,180	200	20	0.020	0.20	0.30	0.01	0.06	0.58	0.00	0.38	0.98
Blade-Box	10'	2WD 50	3,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	14'	2WD 50	6,270	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'	2WD 50	1,190	200	20	1.176	12.21	6.90	0.66	0.77	20.55	0.52	4.66	25.75
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	12.21	6.90	1.98	0.77	21.87	1.58	4.66	28.12
Blade-Scraper	14'	2WD 50	6,860	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.19	1.76	0.93	0.37	4.27	1.62	2.23	8.14
Chisel Plow(Folding)	24'	MFWD 190	39,300	150	12	0.076	0.79	1.70	1.08	0.41	3.99	1.88	2.60	8.48
Chisel Plow(Folding)	32'	MFWD 225	51,000	150	12	0.057	0.59	1.52	1.06	0.37	3.56	1.84	2.38	7.80
Chisel Plow(Folding)	42'	MFWD 225	61,600	150	12	0.044	0.45	1.16	0.97	0.28	2.88	1.69	1.81	6.40
Chisel Plow(Rigid)	15'	2WD 130	11,600	150	12	0.123	1.27	1.88	0.51	0.39	4.07	0.89	2.38	7.35
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.79	1.71	0.32	0.41	3.25	0.56	2.62	6.44
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.91	1.96	0.21	0.39	3.48	0.37	2.47	6.33
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.71	1.80	0.34	0.44	3.31	0.60	2.82	6.75
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.91	1.96	0.61	0.39	3.88	1.05	2.47	7.41
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.71	1.80	0.59	0.44	3.56	1.02	2.82	7.42
Corn Grain Cart 8R30	500 bu	MFWD 190	24,000	200	12	0.031	0.33	0.71	0.20	0.17	1.42	0.36	1.08	2.87
Corn Grain Cart 8R40	700bu	MFWD 190	36,700	200	12	0.025	0.25	0.55	0.24	0.13	1.20	0.43	0.85	2.48
Cult & Post	4R-38	2WD 105	17,600	150	10	0.173	2.69	2.13	0.81	0.32	5.97	2.14	1.96	10.08
Cult & Post	6R-30	MFWD 150	21,700	150	10	0.146	4.56	2.58	0.84	0.60	8.59	2.24	3.61	14.45
Cult & Post	6R-38	MFWD 150	22,600	150	10	0.115	1.80	2.03	0.69	0.47	5.01	1.84	2.85	9.70
Cult & Post	8R-30	MFWD 190	26,000	150	10	0.110	1.71	2.45	0.76	0.59	5.52	2.01	3.74	11.28
Cult & Post	8R-38	MFWD 190	27,000	150	10	0.086	1.35	1.93	0.62	0.47	4.38	1.65	2.96	9.00
Cult & Post	8R-38 2x1	MFWD 190	44,500	150	10	0.057	0.90	1.29	0.68	0.31	3.19	1.81	1.97	6.97
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.37	2.32	0.75	0.57	5.02	1.98	3.63	10.64
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.01	1.71	0.00	0.42	3.15	0.00	2.68	5.84
Cult & Post	12R-30	MFWD 225	41,500	150	10	0.073	1.14	1.93	0.81	0.48	4.37	2.14	3.03	9.54
Cult & Post	12R-38	MFWD 225	44,500	150	10	0.057	0.90	1.52	0.68	0.37	3.49	1.81	2.39	7.70
Cultipacker	12'	2WD 130	4,846	300	12	0.124	1.29	1.89	0.14	0.40	3.73	0.19	2.41	6.33
Cultipacker	20'	MFWD 150	15,200	300	12	0.074	0.77	1.31	0.26	0.30	2.66	0.36	1.83	4.86
Cultivate	4R-38	2WD 105	12,200	150	10	0.162	1.68	2.00	0.52	0.30	4.52	1.39	1.84	7.75
Cultivate	6R-30	MFWD 150	16,300	150	10	0.137	1.42	2.42	0.59	0.56	5.00	1.57	3.38	9.97
Cultivate	6R-38	MFWD 150	17,200	150	10	0.108	1.12	1.91	0.49	0.44	3.97	1.31	2.67	7.96
Cultivate	8R-30	MFWD 190	20,600	150	10	0.103	1.07	2.29	0.56	0.55	4.49	1.49	3.51	9.50
Cultivate	8R-38	MFWD 190	21,600	150	10	0.081	0.84	1.81	0.46	0.44	3.57	1.24	2.77	7.58
Cultivate	8R-38 2x1	MFWD 190	37,500	150	10	0.054	0.56	1.21	0.54	0.29	2.61	1.43	1.84	5.89
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.85	2.17	0.62	0.54	4.19	1.63	3.40	9.24
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.67	1.71	0.00	0.42	2.82	0.00	2.68	5.50
Cultivate	12R-30	MFWD 225	36,200	150	10	0.068	0.71	1.81	0.66	0.45	3.64	1.75	2.84	8.23
Cultivate	12R-38	MFWD 225	37,500	150	10	0.054	0.56	1.43	0.54	0.35	2.89	1.43	2.24	6.57
Disk & Incorporate	14'	2WD 130	30,100	200	10	0.149	2.33	2.28	1.35	0.48	6.44	2.37	2.89	11.72
Disk & Incorporate	24'	MFWD 190	46,900	200	10	0.087	1.35	1.94	1.22	0.47	5.00	2.16	2.97	10.14
Disk & Incorporate	32'	4WD 225	61,000	200	10	0.068	1.07	1.81	1.25	0.31	4.45	2.21	1.98	8.66
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.76	1.29	0.44	0.32	2.83	0.79	2.02	5.65
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.53	2.59	0.33	0.60	5.07	0.89	3.63	9.60
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.29	2.49	0.47	0.59	4.86	1.24	3.76	9.87
Disk Bed (Hipper)	6R-38	MFWD 170	13,000	160	10	0.098	1.02	1.96	0.32	0.47	3.78	0.84	2.97	7.60
Disk Bed (Hipper)	8R-30	MFWD 190	14,400	160	10	0.093	0.97	2.09	0.33	0.50	3.90	0.89	3.19	7.99
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	29,200	160	10	0.049	0.51	1.10	0.36	0.26	2.23	0.95	1.67	4.87
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.77	1.98	0.37	0.49	3.62	0.98	3.09	7.70
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.61	1.56	0.34	0.38	2.90	0.90	2.44	6.25
Disk Bed (Hipper)	12R-30	MFWD 225	28,400	160	10	0.062	0.64	1.65	0.44	0.41	3.15	1.17	2.58	6.90
Disk Bed (Hipper)	12R-38	MFWD 225	29,200	160	10	0.049	0.51	1.30	0.36	0.32	2.49	0.95	2.03	5.48
Disk Bed (Hipper)Fld	8R-38	MFWD 190	20,000	160	10	0.074	0.76	1.65	0.37	0.40	3.19	0.97	2.52	6.69
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	15,600	160	10	0.074	0.76	1.65	0.28	0.40	3.11	0.76	2.52	6.39
Disk Bed w/roller	8R-30	2WD 190	26,600	160	10	0.093	0.97	2.09	0.62	0.41	4.10	1.64	2.63	8.39
Disk Bed w/roller	12R-30	MFWD 225	44,300	160	10	0.062	0.64	1.65	0.69	0.41	3.40	1.82	2.58	7.81
Disk Harrow	14'	2WD 130	24,400	180	10	0.140	1.45	2.14	0.95	0.45	4.99	2.00	2.71	9.72
Disk Harrow	24'	MFWD 190	42,500	180	10	0.081	0.84	1.82	0.96	0.44	4.08	2.04	2.78	8.91
Disk Harrow	28'	MFWD 225	50,400	180	10	0.070	0.72	1.85	0.98	0.46	4.02	2.07	2.89	8.99
Disk Harrow	32'	MFWD 225	53,900	180	10	0.061	0.82	0.00	0.91	0.00	0.00	1.94	0.00	0.00
Disk Harrow	42'	MFWD 225	94,400	180	10	0.046	0.48	1.23	1.22	0.30	3.25	2.59	1.93	7.77
Ditcher		2WD 130	5,700	200	10	0.020	0.20	0.30	0.04	0.06	0.62	0.06	0.38	1.07
Ditcher (1m/160a)		2WD 130	5,700	200	10	0.009	0.09	0.14	0.02	0.03	0.29	0.02	0.18	0.50
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.40	2.72	1.33	0.63	7.09	1.50	3.81	12.40
Fert Appl (Liquid)	6R-30	MFWD 170	16,300	150	8	0.130	2.03	2.61	1.42	0.62	6.70	1.60	3.94	12.24
Fert Appl (Liquid)	6R-38	MFWD 170	15,600	150	8	0.103	1.60	2.06	1.07	0.49	5.24	1.21	3.11	9.56
Fert Appl (Liquid)	8R-30	MFWD 190	16,300	150	8	0.098	1.52	2.18	1.06	0.53	5.31	1.20	3.34	9.86
Fert Appl (Liquid)	8R-38	MFWD 190	18,400	150	8	0.077	1.20	1.73	0.95	0.41	4.31	1.07	2.64	8.02
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	19,700	150	8	0.051	0.80	1.15	0.67	0.27	2.91	0.76	1.75	5.44
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.22	2.07	0.97	0.51	4.78	1.09	3.24	9.13
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	0.96	1.63	0.83	0.40	3.84	0.94	2.56	7.35
Fert Appl (Liquid)	12R-30	MFWD 225	20,000	150	8	0.078	1.22	2.07	1.04	0.51	4.86	1.18	3.24	9.29
Fert Appl (Liquid)	12R-38	MFWD 225	19,000	150	8	0.051	0.80	1.36	0.65	0.33	3.16	0.73	2.13	6.03
Field Cult & Inc	12'	2WD 150	15,800	100	10	0.132	2.05	2.32	0.52	0.44	5.35	2.20	2.68	10.24
Field Cult & Inc	24'	MFWD 170	34,500	100	10	0.066	1.02	1.31	0.57	0.31	3.23	2.40	1.99	7.63

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	P.U.	Total Direct	---Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Field Cultivate	32'	MFWD 190	38,500	100	10	0.046	0.48	1.04	0.44	0.25	2.22	1.89	1.58	5.71
Field Cultivate	42'	MFWD 225	52,600	100	10	0.035	0.36	0.93	0.46	0.23	2.00	1.97	1.46	5.45
Field Cultivate	50'	MFWD 225	62,100	100	10	0.029	0.30	0.78	0.46	0.19	1.75	1.95	1.23	4.95
Gate Installer		2WD 130	2,960	10	10	0.020	0.41	0.30	0.17	0.06	0.96	0.60	0.38	1.95
Grain Drill	12'	2WD 130	25,200	150	8	0.157	3.26	2.39	1.48	0.50	7.65	2.84	3.04	13.53
Grain Drill	15'	MFWD 150	31,800	150	8	0.125	2.60	2.21	1.49	0.51	6.83	2.86	3.09	12.80
Grain Drill	20'	MFWD 170	37,300	150	8	0.094	1.95	1.88	1.31	0.45	5.60	2.52	2.83	10.96
Grain Drill	24'	MFWD 190	63,000	150	8	0.078	1.63	1.75	1.85	0.42	5.66	3.55	2.67	11.88
Grain Drill	30'	MFWD 225	59,500	150	8	0.062	1.30	1.65	1.40	0.41	4.77	2.68	2.59	10.06
Grain Drill & Pre	12'	2WD 130	30,600	150	8	0.169	3.51	2.58	1.94	0.54	8.58	3.71	3.27	15.57
Grain Drill & Pre	15'	MFWD 150	37,200	150	8	0.135	2.81	2.38	1.88	0.55	7.63	3.61	3.33	14.58
Grain Drill & Pre	20'	MFWD 170	42,700	150	8	0.101	2.10	2.02	1.62	0.48	6.24	3.11	3.05	12.41
Grain Drill & Pre	24'	MFWD 190	68,400	150	8	0.084	1.75	1.88	2.17	0.45	6.27	4.15	2.88	13.30
Grain Drill & Pre	30'	MFWD 225	64,800	150	8	0.067	1.40	1.78	1.64	0.44	5.28	3.14	2.79	11.22
Harrow	13'	2WD 130	4,360	200	10	0.119	1.23	1.82	0.18	0.38	3.62	0.27	2.31	6.21
Harrow	21'	2WD 150	6,750	200	10	0.073	0.76	1.30	0.17	0.24	2.49	0.26	1.50	4.25
Harrow	40'	MFWD 190	17,400	200	10	0.038	0.40	0.86	0.23	0.20	1.71	0.35	1.32	3.39
Harrow	47'	MFWD 190	22,700	200	10	0.033	0.34	0.73	0.26	0.17	1.52	0.39	1.12	3.04
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	5.66	1.26	3.38	13.02	1.90	13.35	28.28
Header - Corn	6R30"	240hp	47,300	300	8	0.170	2.30	4.79	2.01	2.86	11.97	3.02	11.30	26.30
Header - Corn	6R38"	240hp	47,700	300	8	0.134	1.81	3.78	1.60	2.26	9.46	2.41	8.92	20.80
Header - Corn	8R-30	240hp	61,500	300	8	0.127	1.72	3.59	1.96	2.14	9.43	2.95	8.47	20.86
Header - Corn	8R-38	275hp	62,100	300	8	0.100	1.36	3.25	1.56	3.44	9.63	2.35	13.61	25.60
Header - Corn	12R-20	275hp	94,400	300	8	0.127	1.72	4.12	3.01	4.36	13.22	4.53	17.21	34.97
Header - Corn	12R-30	275hp	96,300	300	8	0.085	1.15	2.74	2.04	2.90	8.85	3.08	11.47	23.41
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.12	4.64	4.85	21.51	6.98	19.15	47.65
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.14	4.08	4.27	18.93	6.14	16.85	41.94
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	6.82	3.91	7.22	20.82	5.89	28.51	55.24
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.03	4.02	4.20	18.64	6.05	16.59	41.30
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.19	3.54	3.70	16.41	5.32	14.60	36.34
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	5.91	3.39	6.26	18.05	5.10	24.71	47.87
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	4.79	0.00	2.86	9.96	0.00	11.30	21.26
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	3.99	0.72	2.38	9.02	1.08	9.42	19.52
Header - Soybean	22' Flex	240hp	32,400	300	8	0.116	1.56	3.26	0.94	1.95	7.73	1.41	7.70	16.85
Header - Soybean	25' Flex	275hp	34,600	300	8	0.102	1.38	3.29	0.88	3.49	9.05	1.32	13.77	24.15
Header - Soybean	30' Flex	275hp	41,400	300	8	0.085	1.15	2.74	0.88	2.90	7.68	1.32	11.47	20.49
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	3.99	0.67	2.38	8.97	1.01	9.42	19.41
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.26	0.57	1.95	7.36	0.86	7.70	15.93
Header Wheat/Sorghum	25' Rigid	240hp	20,500	300	8	0.102	1.38	2.87	0.52	1.71	6.50	0.78	6.78	14.07
Header Wheat/Sorghum	30' Rigid	275hp	23,600	300	8	0.085	1.15	2.74	0.50	2.90	7.30	0.75	11.47	19.54
Header-Cotton-Bcast	13'	173hp	21,300	200	8	0.251	6.01	4.63	1.00	6.68	18.35	3.02	26.39	47.77
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	4.88	3.76	0.91	5.43	15.00	2.74	21.44	39.19
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.11	3.17	0.84	4.57	12.71	2.54	18.05	33.32
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	7.82	6.03	1.25	8.69	23.80	3.78	34.31	61.91
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.21	4.02	1.40	5.79	16.43	4.23	22.87	43.54
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.15	4.74	1.64	6.84	19.39	4.94	27.01	51.36
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.11	3.17	1.16	4.57	13.03	3.49	18.05	34.59
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.25	4.82	2.10	6.95	20.14	6.32	27.44	53.91
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	4.95	3.81	1.72	5.50	15.99	5.17	21.71	42.88
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.21	4.02	2.15	5.79	17.18	6.48	22.87	46.55
Heavy Disk	14'	MFWD 150	24,800	180	10	0.145	1.51	2.56	1.00	0.59	5.68	2.12	3.59	11.40
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.00	1.94	1.09	0.46	4.51	2.31	2.92	9.76
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.78	1.68	1.05	0.40	3.94	2.23	2.57	8.75
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.62	1.05	0.13	0.24	2.05	0.14	1.47	3.67
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.51	5.41	0.29	1.31	9.53	0.77	8.26	18.56
Land Plane	50'x16'	MFWD 190	14,300	200	10	0.151	1.57	3.38	0.43	0.81	6.20	1.14	5.16	12.51
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.19	8.80	2.64	2.04	18.67	3.64	12.31	34.64
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	1.97	3.34	0.15	0.77	6.25	0.65	4.68	11.59
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.51	1.76	0.07	0.44	2.80	0.18	2.80	5.79
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.55	5.27	0.23	1.33	8.40	0.48	8.40	17.29
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.07	0.00	0.01	0.13	0.06	0.08	0.28
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.51	3.24	0.26	0.78	5.81	0.48	4.95	11.24
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.24	2.11	0.36	0.49	4.21	1.13	2.96	8.31
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.18	2.54	0.55	0.61	4.90	1.75	3.88	10.54
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.93	2.01	0.38	0.48	3.82	1.20	3.07	8.09
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.62	1.34	0.41	0.32	2.70	1.29	2.04	6.04
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.94	2.41	0.62	0.59	4.58	1.97	3.77	10.33
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.74	1.90	0.54	0.47	3.66	1.70	2.97	8.34
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.62	1.58	0.41	0.39	3.01	1.29	2.48	6.79
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.57	3.84	1.49	0.93	9.84	3.03	5.86	18.75
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	9.13	9.81	3.81	2.37	25.15	7.76	14.98	47.90
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.75	6.18	2.40	1.49	15.84	4.89	9.44	30.17
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	5.75	6.18	2.40	1.49	15.84	4.89	9.44	30.17
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.53	4.86	1.89	1.18	12.47	3.85	7.43	23.76
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	4.53	4.86	1.89	1.18	12.47	3.85	7.43	23.76
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.02	3.25	1.26	0.78	8.33	2.57	4.96	15.88

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
										-----\$/acre-----				
Module Builder-2nd	5R-30 (255)	MFWD 190	34,700	200	10	0.221	4.60	4.94	1.92	1.19	12.67	3.91	7.55	24.14
Module Builder-2nd	5R-38 (255)	MFWD 190	34,700	200	10	0.175	3.64	3.91	1.52	0.94	10.02	3.09	5.97	19.09
Module Builder-2nd	6R-30 (325)	MFWD 190	34,700	200	10	0.184	3.83	4.12	1.60	0.99	10.56	3.26	6.29	20.11
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.79	5.76	2.84	1.34	16.73	5.77	8.06	30.58
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.53	3.84	1.89	0.89	11.15	3.85	5.37	20.38
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.35	4.53	2.23	1.05	13.18	4.54	6.35	24.07
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.57	3.03	1.49	0.70	8.81	3.03	4.24	16.09
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.43	4.61	2.27	1.07	13.39	4.62	6.45	24.46
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.30	3.64	1.79	0.84	10.59	3.65	5.10	19.35
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.53	3.84	1.89	0.89	11.15	3.85	5.37	20.38
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.70	1.79	0.00	0.44	2.95	0.00	2.81	5.76
NT Grain Drill	12'	2WD 130	42,200	150	8	0.163	3.39	2.49	2.59	0.52	9.01	4.95	3.17	17.13
NT Grain Drill	15'	MFWD 150	49,200	150	8	0.130	2.71	2.30	2.41	0.53	7.97	4.62	3.22	15.82
NT Grain Drill	20'	MFWD 170	66,300	150	8	0.098	2.03	1.95	2.44	0.46	6.90	4.67	2.95	14.53
NT Grain Drill	24'	MFWD 190	75,600	150	8	0.081	1.69	1.82	2.32	0.44	6.28	4.43	2.78	13.51
NT Grain Drill	30'	MFWD 225	89,000	150	8	0.065	1.35	1.72	2.18	0.42	5.70	4.18	2.70	12.58
NT Grain Drill & Pre	12'	2WD 130	47,500	150	8	0.176	3.65	2.68	3.14	0.56	10.05	6.00	3.41	19.47
NT Grain Drill & Pre	15'	MFWD 150	54,600	150	8	0.141	2.92	2.48	2.88	0.57	8.87	5.52	3.47	17.87
NT Grain Drill & Pre	20'	MFWD 170	71,600	150	8	0.105	2.19	2.11	2.83	0.50	7.65	5.43	3.18	16.26
NT Grain Drill & Pre	24'	MFWD 190	81,000	150	8	0.088	1.82	1.96	2.67	0.47	6.94	5.12	3.00	15.07
NT Grain Drill & Pre	30'	MFWD 225	94,300	150	8	0.070	1.46	1.86	2.49	0.46	6.28	4.76	2.91	13.96
NT Plant&Pre-Folding	8R-38	MFWD 170	56,700	150	8	0.083	1.73	1.66	1.77	0.39	5.58	3.40	2.51	11.49
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	88,200	150	8	0.055	1.15	1.11	1.84	0.26	4.37	3.52	1.67	9.57
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.75	1.88	1.82	0.45	5.92	3.49	2.88	12.30
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.38	1.48	1.32	0.36	4.55	2.53	2.27	9.36
NT Plant&Pre-Folding	12R-20	MFWD 190	72,100	150	8	0.105	2.19	2.35	2.85	0.57	7.98	5.47	3.60	17.05
NT Plant&Pre-Folding	12R-30	MFWD 190	77,500	150	8	0.070	1.46	1.57	2.04	0.38	5.46	3.91	2.40	11.78
NT Plant&Pre-Folding	12R-38	MFWD 190	88,200	150	8	0.055	1.15	1.24	1.84	0.30	4.53	3.52	1.89	9.95
NT Plant&Pre-Folding	16R-30	MFWD 190	114,000	150	8	0.052	1.09	1.17	2.26	0.28	4.82	4.32	1.80	10.94
NT Plant&Pre-Folding	23R-15	MFWD 190	150,000	150	8	0.073	1.52	1.63	4.13	0.39	7.69	7.90	2.50	18.09
NT Plant&Pre-Folding	24R-20	MFWD 190	153,000	150	8	0.052	1.09	1.17	3.03	0.28	5.59	5.80	1.80	13.20
NT Plant&Pre-Folding	24R-30	MFWD 190	188,000	150	8	0.035	0.73	0.78	2.48	0.19	4.19	4.75	1.20	10.14
NT Plant&Pre-Rigid	4R-30	2WD 130	28,200	150	8	0.211	4.39	3.22	2.23	0.68	10.53	4.27	4.09	18.91
NT Plant&Pre-Rigid	4R-38	2WD 130	30,800	150	8	0.166	3.45	2.54	1.92	0.53	8.45	3.67	3.22	15.36
NT Plant&Pre-Rigid	6R-30	MFWD 150	39,300	150	8	0.141	2.92	2.48	2.07	0.57	8.06	3.97	3.47	15.51
NT Plant&Pre-Rigid	6R-38	MFWD 150	36,200	150	8	0.111	2.31	1.95	1.51	0.45	6.23	2.89	2.74	11.87
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.98	2.87	1.41	0.68	7.96	2.70	4.33	15.00
NT Plant&Pre-Rigid	8R-30	MFWD 170	46,900	150	8	0.105	2.19	2.11	1.86	0.50	6.67	3.55	3.18	13.41
NT Plant&Pre-Rigid	8R-38	MFWD 170	43,200	150	8	0.077	1.60	1.53	1.25	0.36	4.76	2.39	2.32	9.47
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.75	1.88	1.64	0.45	5.74	3.15	2.88	11.77
NT Plant&Pre-Rigid	12R-20	MFWD 190	57,700	150	8	0.105	2.19	2.35	2.28	0.57	7.41	4.37	3.60	15.39
NT Plant&Pre-Rigid	12R-30	MFWD 190	72,400	150	8	0.070	1.46	1.57	1.91	0.38	5.33	3.66	2.40	11.39
NT Plant-Folding	8R-38	MFWD 170	51,300	150	8	0.077	1.61	1.54	1.49	0.37	5.02	2.85	2.33	10.22
NT Plant-Folding	8R-38 2x1	MFWD 170	81,200	150	8	0.051	1.07	1.03	1.57	0.24	3.92	3.01	1.55	8.49
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.63	1.75	1.53	0.42	5.34	2.93	2.67	10.95
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.28	1.38	1.10	0.33	4.11	2.11	2.10	8.33
NT Plant-Folding	12R-20	MFWD 190	66,700	150	8	0.098	2.03	2.18	2.45	0.53	7.21	4.69	3.34	15.25
NT Plant-Folding	12R-30	MFWD 190	70,400	150	8	0.065	1.35	1.45	1.72	0.35	4.90	3.30	2.22	10.43
NT Plant-Folding	12R-38	MFWD 190	81,200	150	8	0.051	1.07	1.15	1.57	0.27	4.07	3.01	1.75	8.84
NT Plant-Folding	16R-30	MFWD 190	107,000	150	8	0.049	1.01	1.09	1.97	0.26	4.35	3.76	1.67	9.79
NT Plant-Folding	23R-15	MFWD 190	143,000	150	8	0.068	1.41	1.52	3.65	0.36	6.96	6.99	2.32	16.28
NT Plant-Folding	24R-20	MFWD 190	156,000	150	8	0.049	1.01	1.09	2.87	0.26	5.25	5.49	1.67	12.41
NT Plant-Folding	24R-30	MFWD 190	171,000	150	8	0.032	0.67	0.72	2.09	0.17	3.68	4.01	1.11	8.81
NT Plant-Rigid	4R-30	2WD 130	22,900	150	8	0.196	4.07	2.99	1.68	0.63	9.39	3.22	3.80	16.42
NT Plant-Rigid	4R-38	2WD 130	25,500	150	8	0.154	3.21	2.35	1.47	0.49	7.54	2.82	2.99	13.37
NT Plant-Rigid	6R-30	MFWD 150	34,000	150	8	0.130	2.71	2.30	1.66	0.53	7.22	3.19	3.22	13.64
NT Plant-Rigid	6R-38	MFWD 150	30,900	150	8	0.103	2.14	1.81	1.19	0.42	5.58	2.29	2.54	10.42
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	2.77	2.66	1.05	0.63	7.13	2.02	4.02	13.18
NT Plant-Rigid	8R-30	MFWD 170	41,600	150	8	0.098	2.03	1.95	1.53	0.46	6.00	2.93	2.95	11.88
NT Plant-Rigid	8R-38	MFWD 170	37,800	150	8	0.077	1.61	1.54	1.10	0.37	4.63	2.10	2.33	9.07
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.63	1.75	1.37	0.42	5.17	2.62	2.67	10.47
NT Plant-Rigid	12R-20	MFWD 190	52,300	150	8	0.098	2.03	2.18	1.92	0.53	6.68	3.68	3.34	13.71
NT Plant-Rigid	12R-30	MFWD 190	65,400	150	8	0.065	1.35	1.45	1.60	0.35	4.77	3.07	2.22	10.07
Paratill & Bed	4R-30	MFWD 225	13,500	150	12	0.204	2.12	5.39	0.99	1.34	9.85	1.72	8.44	20.02
Paratill & Bed	4R-38	MFWD 225	13,500	150	12	0.160	1.67	4.24	0.78	1.05	7.75	1.36	6.64	15.76
Paratill & Bed	6R-30	MFWD 225	19,900	150	12	0.136	1.41	3.59	0.97	0.89	6.88	1.69	5.62	14.21
Paratill & Bed	6R-38	MFWD 225	18,800	150	12	0.107	1.11	2.83	0.73	0.70	5.39	1.26	4.44	11.10
Paratill & Bed	8R-30	MFWD 225	25,000	150	12	0.102	1.06	2.69	0.92	0.67	5.35	1.60	4.22	11.17
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.55	1.41	1.34	0.35	3.67	2.32	2.22	8.22
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.83	2.13	1.58	0.52	5.08	2.75	3.33	11.17
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.55	1.41	1.34	0.35	3.67	2.32	2.22	8.22
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.83	2.13	0.65	0.52	4.15	1.14	3.33	8.64
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.53	0.91	0.00	0.17	1.63	0.02	1.05	2.70
Pipe Spool 160ac	1/4m roll	2WD 130	3,600	15	12	0.003	0.08	0.04	0.00	0.01	0.15	0.07	0.06	0.28
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.17	0.05	0.00	0.01	0.24	0.00	0.07	0.32
Plant & Pre Folding	8R-38	MFWD 170	52,000	150	8	0.080	1.66	1.60	1.56	0.38	5.21	2.99	2.41	10.62
Plant & Pre Folding	8R38 2x1	MFWD 170	81,200	150	8	0.053	1.10	1.06	1.62	0.25	4.05	3.11	1.60	8.78
Plant & Pre Folding	10R-30	MFWD 190	52,920	150	8	0.081	1.68	1.81	1.61	0.43	5.54	3.08	2.76	11.39
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.32	1.42	1.15	0.34	4.26	2.21	2.18	8.66
Plant & Pre Folding	12R-20	MFWD 190	65,100	150	8	0.101	2.10	2.26	2.47	0.54	7.39	4.74	3.45	15.59
Plant & Pre Folding	12R-30	MFWD 190	70,500	150	8	0.067	1.40	1.50	1.78	0.36	5.07	3.42	2.30	10.79

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
											-----\$/acre-----			
Plant & Pre Folding	12R-38	MFWD 190	81,200	150	8	0.053	1.10	1.19	1.62	0.28	4.21	3.11	1.81	9.14
Plant & Pre Folding	16R-30	MFWD 190	105,000	150	8	0.050	1.05	1.13	1.99	0.27	4.45	3.82	1.72	10.01
Plant & Pre Folding	23R-15	MFWD 190	137,000	150	8	0.070	1.46	1.57	3.62	0.38	7.03	6.92	2.40	16.36
Plant & Pre Folding	24R-20	MFWD 190	148,000	150	8	0.050	1.05	1.13	2.81	0.27	5.27	5.38	1.72	12.39
Plant & Pre Folding	24R-30	MFWD 190	174,000	150	8	0.033	0.70	0.75	2.20	0.18	3.84	4.22	1.15	9.22
Plant & Pre Rigid	4R-30	2WD 130	25,900	150	8	0.203	4.21	3.09	1.97	0.65	9.94	3.77	3.93	17.64
Plant & Pre Rigid	4R-38	2WD 130	28,500	150	8	0.159	3.31	2.43	1.70	0.51	7.98	3.26	3.09	14.34
Plant & Pre Rigid	6R-30	MFWD 150	25,900	150	8	0.135	2.81	2.38	1.31	0.55	7.06	2.51	3.33	12.91
Plant & Pre Rigid	6R-38	MFWD 150	32,700	150	8	0.106	2.21	1.88	1.31	0.43	5.84	2.50	2.63	10.98
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.86	2.75	1.22	0.66	7.50	2.33	4.15	13.99
Plant & Pre Rigid	8R-30	MFWD 170	42,300	150	8	0.101	2.10	2.02	1.61	0.48	6.22	3.08	3.05	12.36
Plant & Pre Rigid	8R-38	MFWD 170	38,500	150	8	0.080	1.66	1.60	1.15	0.38	4.81	2.21	2.41	9.44
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.68	1.81	1.40	0.43	5.33	2.68	2.76	10.78
Plant & Pre Rigid	12R-20	MFWD 190	50,700	150	8	0.101	2.10	2.26	1.93	0.54	6.85	3.69	3.45	14.00
Plant & Pre Rigid	12R-30	MFWD 190	65,400	150	8	0.067	1.40	1.50	1.66	0.36	4.94	3.17	2.30	10.42
Plant - Folding	8R-38	MFWD 170	46,600	150	8	0.074	1.54	1.48	1.30	0.35	4.69	2.49	2.24	9.42
Plant - Folding	8R-38 2x1	MFWD 170	74,200	150	8	0.049	1.03	0.99	1.38	0.23	3.63	2.64	1.49	7.77
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.56	1.68	1.34	0.40	4.99	2.56	2.56	10.13
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.23	1.32	0.95	0.32	3.84	1.83	2.02	7.70
Plant - Folding	12R-20	MFWD 190	59,700	150	8	0.094	1.95	2.10	2.11	0.50	6.68	4.03	3.20	13.92
Plant - Folding	12R-30	MFWD 190	63,400	150	8	0.062	1.30	1.40	1.49	0.33	4.54	2.85	2.13	9.53
Plant - Folding	12R-38	MFWD 190	74,200	150	8	0.049	1.03	1.10	1.38	0.26	3.78	2.64	1.68	8.11
Plant - Folding	16R-30	MFWD 190	97,900	150	8	0.047	0.97	1.05	1.73	0.25	4.01	3.31	1.60	8.93
Plant - Folding	23R-15	MFWD 190	130,000	150	8	0.065	1.35	1.45	3.19	0.35	6.36	6.10	2.22	14.69
Plant - Folding	24R-20	MFWD 190	141,000	150	8	0.047	0.97	1.05	2.49	0.25	4.77	4.76	1.60	11.15
Plant - Folding	24R-30	MFWD 190	156,000	150	8	0.031	0.65	0.70	1.83	0.16	3.36	3.51	1.06	7.94
Plant - Rigid	4R-30	2WD 130	20,500	150	8	0.188	3.91	2.87	1.44	0.60	8.84	2.77	3.65	15.27
Plant - Rigid	4R-38	2WD 130	23,100	150	8	0.148	3.08	2.26	1.28	0.47	7.11	2.46	2.87	12.44
Plant - Rigid	6R-30	MFWD 150	30,500	150	8	0.125	2.60	2.21	1.43	0.51	6.77	2.75	3.09	12.62
Plant - Rigid	6R-38	MFWD 150	27,400	150	8	0.099	2.06	1.74	1.01	0.40	5.23	1.95	2.44	9.62
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.65	2.55	0.88	0.61	6.70	1.69	3.85	12.25
Plant - Rigid	8R-30	MFWD 170	36,900	150	8	0.094	1.95	1.88	1.30	0.45	5.59	2.49	2.83	10.92
Plant - Rigid	8R-38	MFWD 170	33,100	150	8	0.074	1.54	1.48	0.92	0.35	4.31	1.76	2.24	8.32
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.56	1.68	1.15	0.40	4.80	2.20	2.56	9.57
Plant - Rigid	12R-20	MFWD 190	45,300	150	8	0.094	1.95	2.10	1.60	0.50	6.17	3.06	3.20	12.44
Plant - Rigid	12R-30	MFWD 190	58,300	150	8	0.062	1.30	1.40	1.37	0.33	4.42	2.62	2.13	9.18
Plant - Rigid	15R-15	2WD 150	55,500	150	8	0.094	1.95	1.65	1.96	0.31	5.89	3.75	1.91	11.56
Pull Levee (1m/80a)	4 blade	2WD 50	3,180	100	10	0.003	0.03	0.02	0.00	0.00	0.06	0.01	0.01	0.08
Rice Grain Cart	500 Bu	MFWD 190	24,000	200	12	0.057	0.59	1.27	0.37	0.30	2.54	0.64	1.94	5.13
Rice Grain Cart	700 Bu	MFWD 190	36,700	200	12	0.063	0.65	1.41	0.63	0.34	3.04	1.09	2.16	6.30
Roller	32'	MFWD 170	22,800	100	12	0.046	0.48	0.93	0.17	0.22	1.81	0.99	1.40	4.22
Rotary Cutter	7'	MFWD 130	4,760	185	10	0.168	1.74	2.56	0.64	0.59	5.56	0.45	3.57	9.59
Rotary Cutter	12'	2WD 150	11,600	185	10	0.098	1.01	1.72	0.92	0.33	4.00	0.65	1.99	6.64
Row Cond & Inc	13'	2WD 130	14,600	100	10	0.137	2.14	2.10	0.50	0.44	5.20	2.12	2.67	10.00
Row Cond & Inc	21'	2WD 170	18,400	100	10	0.085	1.32	1.70	0.39	0.41	3.84	1.66	2.62	8.12
Row Cond & Inc	26'	MFWD 190	20,700	100	10	0.063	0.98	1.41	0.32	0.34	3.07	1.38	2.15	6.61
Row Cond & Inc	38'	MFWD 225	26,100	100	10	0.047	0.73	1.24	0.30	0.30	2.59	1.30	1.95	5.85
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.62	1.06	0.20	0.26	2.15	0.86	1.66	4.68
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.19	1.75	0.20	0.36	3.52	0.88	2.22	6.63
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.73	1.41	0.21	0.34	2.71	0.90	2.18	5.80
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.59	1.28	0.17	0.31	2.36	0.75	1.95	5.07
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.40	1.03	0.21	0.25	1.92	0.92	1.62	4.46
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.36	0.93	0.13	0.23	1.67	0.58	1.46	3.73
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.63	2.39	0.27	0.50	4.81	1.18	3.04	9.04
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.00	1.94	0.28	0.47	3.71	1.20	2.98	7.89
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.81	1.75	0.24	0.42	3.23	1.02	2.67	6.94
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.55	1.41	0.22	0.35	2.55	0.94	2.22	5.71
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.50	1.28	0.18	0.31	2.29	0.80	2.01	5.10
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.07	2.05	1.02	0.50	4.65	1.04	3.16	8.86
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.71	1.53	0.98	0.30	3.54	1.00	1.93	6.47
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.33	2.57	1.28	0.62	5.82	1.30	3.95	11.07
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.89	1.91	1.23	0.38	4.42	1.25	2.41	8.09
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.71	1.93	1.09	0.37	5.11	1.10	2.23	8.45
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.14	1.93	1.05	0.48	4.61	1.06	3.03	8.71
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.14	2.74	1.73	0.67	7.28	1.75	4.22	13.25
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.42	2.04	1.55	0.40	5.43	1.57	2.57	9.59
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.87	0.93	0.29	0.22	2.33	0.58	1.43	4.35
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.87	0.93	0.29	0.22	2.33	0.58	1.43	4.35
Spray (Band)	27'	MFWD 170	5,350	200	8	0.062	0.97	1.25	0.15	0.29	2.68	0.18	1.88	4.75
Spray (Band)	40'	MFWD 170	7,050	200	8	0.042	0.65	0.84	0.13	0.20	1.84	0.16	1.27	3.28
Spray (Band)	50'	MFWD 170	11,200	200	8	0.033	0.52	0.67	0.17	0.16	1.54	0.21	1.01	2.77
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.49	0.63	0.14	0.15	1.43	0.17	0.96	2.57
Spray (Band)	60'	MFWD 170	17,800	200	8	0.028	0.43	0.56	0.23	0.13	1.37	0.28	0.84	2.50
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,600	200	8	0.130	2.02	2.29	0.40	0.53	5.25	0.48	3.20	8.94
Spray (Bcast/HB)	20' Rigid	2WD 50	7,700	200	8	0.084	1.31	0.49	0.30	0.05	2.17	0.36	0.33	2.87
Spray (Bcast/HB)	27' Fold	MFWD 170	11,000	200	8	0.062	0.97	1.25	0.32	0.29	2.84	0.38	1.88	5.12

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2018.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,300	200	8	0.062	0.97	1.25	0.27	0.29	2.79	0.32	1.88	5.01
Spray (Bcast/HB)	30' Fold	MFWD 170	16,800	200	8	0.056	0.87	1.12	0.44	0.26	2.71	0.53	1.69	4.95
Spray (Bcast/HB)	40' Fold	MFWD 170	17,500	200	8	0.042	0.65	0.84	0.34	0.20	2.05	0.41	1.27	3.74
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	0.97	1.25	0.65	0.29	3.18	0.79	1.88	5.86
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.65	0.84	0.63	0.20	2.34	0.76	1.27	4.38
Spray (Broadcast)	27'	MFWD 170	5,350	200	8	0.062	0.97	1.25	0.15	0.29	2.68	0.18	1.88	4.75
Spray (Broadcast)	40'	MFWD 170	7,050	200	8	0.042	0.65	0.84	0.13	0.20	1.84	0.16	1.27	3.28
Spray (Broadcast)	50'	MFWD 170	11,200	200	8	0.033	0.52	0.67	0.17	0.16	1.54	0.21	1.01	2.77
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.49	0.63	0.14	0.15	1.43	0.17	0.96	2.57
Spray (Broadcast)	60'	MFWD 170	17,800	200	8	0.028	0.43	0.56	0.23	0.13	1.37	0.28	0.84	2.50
Spray (Direct/Hood)	8R-30	MFWD 170	15,900	200	8	0.084	1.31	1.68	0.63	0.40	4.04	0.75	2.54	7.34
Spray (Direct/Hood)	8R-38	MFWD 170	17,000	200	8	0.066	1.04	1.33	0.53	0.31	3.22	0.64	2.01	5.88
Spray (Direct/Hood)	12R-30	MFWD 170	22,600	200	8	0.056	0.87	1.12	0.59	0.26	2.87	0.71	1.69	5.28
Spray (Direct/Hood)	12R-38	MFWD 170	23,000	200	8	0.044	0.69	0.88	0.48	0.21	2.27	0.57	1.34	4.19
Spray (Direct/Layby)	8R-30	MFWD 170	10,900	200	8	0.084	1.31	1.68	0.43	0.40	3.84	0.52	2.54	6.91
Spray (Direct/Layby)	8R-38	MFWD 170	10,900	200	8	0.066	1.04	1.33	0.34	0.31	3.03	0.41	2.01	5.46
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,300	200	8	0.044	0.69	0.88	0.29	0.21	2.09	0.35	1.34	3.79
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.05	1.35	0.38	0.32	3.11	0.46	2.03	5.61
Spray (Direct/Layby)	12R-30	MFWD 170	14,300	200	8	0.056	0.87	1.12	0.37	0.26	2.65	0.45	1.69	4.80
Spray (Direct/Layby)	12R-38	MFWD 170	14,300	200	8	0.044	0.69	0.88	0.29	0.21	2.09	0.35	1.34	3.79
Spray (Direct/Layby)	16R-20	MFWD 170	10,000	200	8	0.063	0.98	1.26	0.29	0.30	2.85	0.35	1.90	5.11
Spray (Spot)	27'	MFWD 170	5,350	200	8	0.062	0.97	1.25	0.15	0.29	2.68	0.18	1.88	4.75
Spray (Spot)	40'	MFWD 170	7,050	200	8	0.042	0.65	0.84	0.13	0.20	1.84	0.16	1.27	3.28
Spray (Spot)	50'	MFWD 170	11,200	200	8	0.033	0.52	0.67	0.17	0.16	1.54	0.21	1.01	2.77
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.49	0.63	0.14	0.15	1.43	0.17	0.96	2.57
Spray (Spot)	60'	MFWD 170	17,800	200	8	0.028	0.43	0.56	0.23	0.13	1.37	0.28	0.84	2.50
Stalk Shredder	14'	MFWD 150	12,100	200	10	0.117	1.22	2.07	1.24	0.48	5.02	0.75	2.90	8.68
Stalk Shredder	20'	MFWD 150	27,700	200	10	0.082	0.85	1.45	1.99	0.33	4.64	1.20	2.03	7.88
Stalk Shredder-Flail	12'	MFWD 150	21,800	200	10	0.137	1.42	2.42	2.62	0.56	7.03	1.58	3.38	12.00
Stalk Shredder-Flail	20'	MFWD 150	27,500	200	10	0.082	0.85	1.45	1.98	0.33	4.63	1.19	2.03	7.86
Subsoiler	3 shank	MFWD 190	4,550	100	15	0.204	2.12	4.55	0.30	1.10	8.09	0.76	6.95	15.81
Subsoiler	4 shank	MFWD 225	8,900	100	15	0.153	1.59	4.05	0.45	1.00	7.11	1.12	6.34	14.59
Subsoiler	5 shank	MFWD 225	12,100	100	15	0.122	1.27	3.23	0.49	0.80	5.79	1.22	5.05	12.07
Subsoiler low-till	4 shank	MFWD 225	10,800	100	15	0.153	1.59	4.05	0.55	1.00	7.21	1.36	6.34	14.92
Subsoiler low-till	6 shank	MFWD 225	17,100	100	15	0.102	1.06	2.69	0.58	0.67	5.01	1.44	4.22	10.67
Subsoiler low-till	8 shank	MFWD 225	17,300	100	15	0.076	0.79	2.02	0.44	0.50	3.75	1.09	3.16	8.01
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.67	4.24	0.83	1.05	7.80	1.44	6.64	15.89
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.11	2.83	0.75	0.70	5.41	1.30	4.44	11.16
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.12	5.39	1.05	1.34	9.91	1.83	8.44	20.18
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.41	3.59	0.75	0.89	6.65	1.30	5.62	13.59
Boll Buggy-1st Pick	2R38"157hp	MFWD 190	30,500	200	10	0.519	5.39	11.58	3.96	2.80	23.75	8.05	17.69	49.50
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.78	3.84	1.31	0.93	7.87	2.67	5.86	16.41
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.39	7.29	2.49	1.76	14.96	5.07	11.14	31.18
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.39	7.29	2.49	1.76	14.96	5.07	11.14	31.18
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	2.67	5.74	1.96	1.39	11.78	3.99	8.77	24.55
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	2.67	5.74	1.96	1.39	11.78	3.99	8.77	24.55
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	2.71	5.83	1.99	1.41	11.97	4.06	8.91	24.94
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.15	4.62	1.57	1.12	9.47	3.21	7.05	19.73
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.26	4.86	1.66	1.17	9.97	3.38	7.42	20.79
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	1.78	3.84	1.31	0.93	7.87	2.67	5.86	16.41
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	4.56	9.81	3.35	2.37	20.12	6.82	14.98	41.93
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.51	3.25	1.11	0.78	6.67	2.26	4.96	13.90
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	2.87	6.18	2.11	1.49	12.67	4.29	9.44	26.41
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.26	4.86	1.66	1.18	9.98	3.38	7.43	20.79
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.26	4.86	1.66	1.18	9.98	3.38	7.43	20.79
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.30	4.94	1.69	1.19	10.14	3.43	7.55	21.13
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	1.82	3.91	1.33	0.94	8.02	2.72	5.97	16.71
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	1.91	4.12	1.40	0.99	8.45	2.86	6.29	17.61
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.51	3.25	1.11	0.78	6.67	2.26	4.96	13.90
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.61	4.43	1.92	1.03	9.99	3.90	6.20	20.10
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.12	3.60	1.56	0.83	8.12	3.17	5.04	16.33
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.78	3.03	1.31	0.70	6.84	2.67	4.24	13.75
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.26	3.84	1.66	0.89	8.66	3.38	5.37	17.42
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.39	5.76	2.49	1.34	12.99	5.07	8.06	26.13
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	1.78	3.03	1.31	0.70	6.84	2.67	4.24	13.75
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	2.67	4.53	1.96	1.05	10.23	3.99	6.35	20.58
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	2.71	4.61	1.99	1.07	10.39	4.06	6.45	20.91
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.15	3.64	1.57	0.84	8.22	3.21	5.10	16.54
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.26	3.84	1.66	0.89	8.66	3.38	5.37	17.42