

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

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



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CORN ENTERPRISE BUDGETS:

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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 2016 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2016 crop year.

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

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

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2016 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

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

Expected Crop Yields and Market Prices

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

Direct Production Costs

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

Hired labor was charged at \$9.60 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus

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

Interest on operating capital (short term) was charged at a nominal rate of 4.50% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel prices for diesel and gasoline were \$2.00 per gallon and \$2.25 per gallon, respectively. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 5.00%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

Overhead costs reflect significant expenses associated with the operation of the

entire farm business, but are not necessarily attributable to a specific crop enterprise. Examples of farm overhead costs include tax services, record keeping, utilities, farmstead maintenance, and insurance and property taxes where applicable. General farm overhead costs can vary greatly from farm to farm based on many factors including farm size, land tenure and crop production technology utilized. As the primary purpose of this report is to estimate production costs associated with a specific commodity, no charges for general farm overhead are included.

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2016.

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	0.54	30.0000	16.20	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	180.0000	77.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.08	66.0000	5.28	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.78	6.0000	4.68	_____
INSECTICIDES					
Karate Z	oz	3.40	2.1300	7.24	_____
Intrepid 2F	oz	6.13	6.0000	36.78	_____
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed RR	thous	3.08	32.0000	98.56	_____
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	13.40	0.1344	1.80	_____
LA Hired Labor					
Implements	hour	10.18	0.1611	1.65	_____
Tractors	hour	10.18	0.5819	5.90	_____
DIESEL FUEL					
Tractors	gal	2.00	5.3318	10.66	_____
Harvesters	gal	2.00	1.6602	3.32	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.36	1.0000	7.36	_____
Tractors	Acre	3.09	1.0000	3.09	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	10.78	1.0000	10.78	_____
TOTAL DIRECT EXPENSES				449.82	_____
FIXED EXPENSES					
Implements	Acre	11.19	1.0000	11.19	_____
Tractors	Acre	19.27	1.0000	19.27	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
TOTAL FIXED EXPENSES				39.39	_____
TOTAL SPECIFIED EXPENSES				489.21	_____

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, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
-----dollars-----															
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	1.06	1.49	0.29	0.58	0.08	0.86				4.28
LA Phosphate	lb											30.0000	0.54	16.20	16.20
LA Potash	lb											60.0000	0.35	21.00	21.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.12	3.15	0.97	2.05	0.07	0.71				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.87	2.63	0.35	0.92	0.07	0.75				6.52
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.33	0.36	0.04	0.05	0.02	0.20				0.98
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	4.23	4.23	4.23
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Roller	32'	MFWD 170	0.046	1.00	Mar	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.82	2.62	1.13	2.17	0.16	1.64				9.38
Corn Seed RR	thous											32.0000	3.08	98.56	98.56
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Nitrogen	lb											150.0000	0.43	64.50	64.50
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
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	0.08	1.76	1.76
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
Intrepid 2F	oz											6.0000	6.13	36.78	36.78
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	5.58	8.93	1.56	2.34	0.13	1.80				20.21
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	1.65	2.31	1.97	1.19	0.08	0.84				7.96
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Select 2EC	oz											6.0000	0.78	4.68	4.68
TOTALS						19.33	28.20	7.36	11.19	0.87	9.35				478.43
INTEREST ON OPERATING CAPITAL															10.78
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															489.21

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			2.01	2.12	2.26	2.41	2.59	2.81	3.07	3.40	3.83	4.40	5.19
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-254	-245	-234	-222	-208	-190	-169	-143	-109	-63	0
			-293	-284	-274	-261	-247	-230	-208	-182	-148	-102	-39
60	96.00	bu	-228	-218	-205	-190	-173	-152	-127	-95	-54	0	76
			-268	-257	-244	-230	-212	-192	-166	-134	-93	-39	36
70	112.00	bu	-203	-190	-176	-159	-138	-114	-84	-47	0	63	152
			-242	-230	-215	-198	-178	-153	-124	-87	-39	24	113
80	128.00	bu	-178	-163	-146	-127	-104	-76	-42	0	54	127	228
			-217	-202	-186	-166	-143	-115	-81	-39	15	87	189
90	144.00	bu	-152	-136	-117	-95	-69	-38	0	47	109	190	305
			-192	-175	-156	-134	-108	-77	-39	8	69	151	265
100	160.00	bu	-127	-109	-88	-63	-34	0	42	95	163	254	381
			-166	-148	-127	-102	-74	-39	3	56	124	215	342
110	176.00	bu	-101	-81	-58	-31	0	38	84	143	218	318	457
			-141	-121	-98	-71	-39	-1	45	103	178	278	418
120	192.00	bu	-76	-54	-29	0	34	76	127	190	272	381	534
			-115	-93	-68	-39	-4	36	87	151	233	342	494
130	208.00	bu	-50	-27	0	31	69	114	169	238	327	445	610
			-90	-66	-39	-7	29	75	130	199	287	405	571
140	224.00	bu	-25	0	29	63	104	152	212	286	381	508	686
			-64	-39	-10	24	64	113	172	246	342	469	647
150	240.00	bu	0	27	58	95	138	190	254	333	436	572	763
			-39	-12	19	56	99	151	215	294	396	533	723

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			2.18	2.30	2.45	2.61	2.81	3.05	3.34	3.71	4.18	4.81	5.68
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-241	-231	-219	-206	-190	-171	-147	-118	-80	-30	39
			-280	-270	-259	-245	-229	-210	-187	-157	-120	-70	0
60	96.00	bu	-213	-201	-187	-171	-151	-129	-100	-65	-20	39	123
			-252	-240	-226	-210	-191	-168	-140	-105	-60	0	84
70	112.00	bu	-185	-171	-154	-136	-113	-86	-54	-13	39	109	207
			-224	-210	-194	-175	-153	-126	-93	-52	0	70	168
80	128.00	bu	-157	-141	-122	-100	-75	-44	-7	39	99	179	291
			-196	-180	-161	-140	-114	-84	-46	0	60	140	252
90	144.00	bu	-129	-110	-90	-65	-37	-2	39	92	159	249	376
			-168	-150	-129	-105	-76	-42	0	52	120	210	336
100	160.00	bu	-100	-80	-57	-30	1	39	86	144	219	320	460
			-140	-120	-97	-70	-38	0	46	105	180	280	421
110	176.00	bu	-72	-50	-25	4	39	81	132	197	279	390	544
			-112	-90	-64	-35	0	42	93	157	240	350	505
120	192.00	bu	-44	-20	7	39	77	123	179	249	340	460	628
			-84	-60	-32	0	38	84	140	210	300	421	589
130	208.00	bu	-16	9	39	74	115	165	226	302	400	530	712
			-56	-30	0	35	76	126	187	263	360	491	673
140	224.00	bu	11	39	71	109	154	207	273	355	460	600	797
			-28	0	32	70	114	168	233	315	421	561	757
150	240.00	bu	39	69	104	144	192	249	320	407	520	670	881
			0	30	64	105	153	210	280	368	481	631	842

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, 2016.

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	0.54	30.0000	16.20	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	210.0000	90.30	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.08	66.0000	5.28	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.78	6.0000	4.68	_____
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	0.26	33.0000	8.58	_____
SEED/PLANTS					
Corn Seed RR	thous	3.08	35.0000	107.80	_____
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	13.40	0.1344	1.80	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.18	0.1611	1.65	_____
Tractors	hour	10.18	0.8812	8.95	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	8.2204	16.44	_____
Harvesters	gal	2.00	1.6602	3.32	_____
Roll-Out Pipe Irr.	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.85	1.0000	7.85	_____
Tractors	Acre	4.74	1.0000	4.74	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	6.34	1.0000	6.34	_____
INTEREST ON OP. CAP.	Acre	11.40	1.0000	11.40	_____
TOTAL DIRECT EXPENSES				492.96	_____
FIXED EXPENSES					
Implements	Acre	12.45	1.0000	12.45	_____
Tractors	Acre	29.65	1.0000	29.65	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
Roll-Out Pipe Irr.	Acre	48.24	1.0000	48.24	_____
TOTAL FIXED EXPENSES				99.27	_____
TOTAL SPECIFIED EXPENSES				592.23	_____

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, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
-----dollars-----															
Lime (Spread)	ton			0.33	Sep									15.18	
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.06	1.49	0.29	0.58	0.08	0.86	0.3300	46.00	15.18	
LA Phosphate	lb											30.0000	0.54	16.20	
LA Potash	lb											60.0000	0.35	21.00	
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.12	3.15	0.97	2.05	0.07	0.71			9.00	
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.87	2.63	0.35	0.92	0.07	0.75			6.52	
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.22	1.72	0.06	0.15	0.04	0.49			3.64	
Ditcher		2WD 130	0.020	1.00	Oct	0.33	0.36	0.04	0.05	0.02	0.20			0.98	
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	
2,4-D Amine 4	pt											1.0000	1.85	1.85	
Valor WP	oz											1.0000	4.23	4.23	
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20			0.98	
Roller	32'	MFWD 170	0.046	1.00	Mar	1.06	1.52	0.14	0.77	0.04	0.47			3.96	
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.82	2.62	1.13	2.17	0.16	1.64			9.38	
Corn Seed RR	thous											35.0000	3.08	107.80	
LA Nitrogen	lb											30.0000	0.43	12.90	
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20			0.98	
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19			7.54	
LA Nitrogen	lb											180.0000	0.43	77.40	
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	
Roundup WeatherMax	oz											22.0000	0.08	1.76	
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	1.50	4.50	
Karate Z	oz											2.1300	3.40	7.24	
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	
Roundup WeatherMax	oz											22.0000	0.08	1.76	
Atrazine 4L	pt											2.0000	1.50	3.00	
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.00	5.00	
Baythroid 2	oz											2.1300	2.30	4.90	
Header - Corn	6R38"	240hp	0.134	1.00	Aug	5.58	8.93	1.56	2.34	0.13	1.80			20.21	
Dry Corn	bu											190.0000	0.19	36.10	
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.16	0.22	0.06	0.11	0.00	0.06			0.61	
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.65	2.31	1.97	1.19	0.08	0.84			7.96	
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	
Roundup WeatherMax	oz											22.0000	0.08	1.76	
Select 2EC	oz											6.0000	0.78	4.68	
Roll-Out Pipe Irr.	Acre				Jul	7.27	10.16	23.87	49.39	0.44	4.56	1.0000		8.58	
TOTALS						26.76	38.58	31.29	60.69	1.33	13.97			409.54	
INTEREST ON OPERATING CAPITAL														11.40	
UNALLOCATED LABOR														0.00	
TOTAL SPECIFIED COST														592.23	

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			1.87	1.97	2.09	2.23	2.39	2.59	2.83	3.13	3.52	4.04	4.76
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-274	-264	-253	-240	-224	-205	-183	-154	-117	-68	0
			-373	-364	-352	-339	-323	-305	-282	-253	-216	-167	-99
60	114.00	bu	-247	-235	-221	-205	-187	-164	-137	-102	-58	0	82
			-346	-334	-321	-305	-286	-264	-236	-202	-158	-99	-16
70	133.00	bu	-219	-205	-190	-171	-149	-123	-91	-51	0	68	164
			-318	-305	-289	-270	-249	-222	-190	-150	-99	-30	65
80	152.00	bu	-192	-176	-158	-137	-112	-82	-45	0	58	137	247
			-291	-275	-257	-236	-211	-181	-145	-99	-40	38	147
90	171.00	bu	-164	-147	-126	-102	-74	-41	0	51	117	205	329
			-264	-246	-226	-202	-174	-140	-99	-47	18	106	230
100	190.00	bu	-137	-117	-95	-68	-37	0	45	102	176	274	411
			-236	-216	-194	-167	-136	-99	-53	3	77	175	312
110	209.00	bu	-109	-88	-63	-34	0	41	91	154	235	343	494
			-209	-187	-162	-133	-99	-58	-7	55	136	244	395
120	228.00	bu	-82	-58	-31	0	37	82	137	205	294	411	576
			-181	-158	-130	-99	-61	-16	38	106	194	312	477
130	247.00	bu	-54	-29	0	34	74	123	183	257	353	480	659
			-154	-128	-99	-64	-24	24	83	158	253	381	559
140	266.00	bu	-27	0	31	68	112	164	228	308	411	549	741
			-126	-99	-67	-30	13	65	129	209	312	450	642
150	285.00	bu	0	29	63	102	149	205	274	360	470	617	823
			-99	-69	-35	3	50	106	175	261	371	518	724

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			2.22	2.34	2.49	2.66	2.87	3.11	3.41	3.78	4.27	4.91	5.80
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-241	-229	-215	-198	-179	-156	-127	-92	-46	14	99
			-340	-328	-314	-298	-278	-255	-227	-191	-146	-85	0
60	114.00	bu	-207	-192	-176	-156	-133	-105	-71	-28	26	99	201
			-306	-292	-275	-255	-232	-204	-170	-127	-73	0	102
70	133.00	bu	-173	-156	-136	-113	-86	-54	-14	35	99	184	303
			-272	-255	-235	-213	-185	-153	-113	-63	0	85	204
80	152.00	bu	-139	-119	-97	-71	-40	-2	42	99	172	269	406
			-238	-219	-196	-170	-139	-102	-56	0	73	170	306
90	171.00	bu	-105	-83	-58	-28	6	48	99	163	245	354	508
			-204	-182	-157	-127	-92	-51	0	63	146	255	408
100	190.00	bu	-71	-46	-18	14	52	99	156	227	318	440	610
			-170	-146	-117	-85	-46	0	56	127	219	340	511
110	209.00	bu	-37	-10	20	56	99	150	212	290	391	525	712
			-136	-109	-78	-42	0	51	113	191	292	426	613
120	228.00	bu	-2	26	59	99	145	201	269	354	464	610	814
			-102	-73	-39	0	46	102	170	255	365	511	715
130	247.00	bu	31	62	99	141	192	252	326	418	537	695	917
			-68	-36	0	42	92	153	227	319	438	596	817
140	266.00	bu	65	99	138	184	238	303	383	482	610	780	1019
			-34	0	39	85	139	204	284	383	511	681	920
150	285.00	bu	99	135	177	227	285	354	440	546	683	866	1121
			0	36	78	127	185	255	340	447	584	766	1022

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, 2016.

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	0.54	30.0000	16.20	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	180.0000	77.40	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.08	66.0000	5.28	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.78	6.0000	4.68	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.27	32.0000	104.64	_____
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	13.40	0.1344	1.80	_____
LA Hired Labor					
Implements	hour	10.18	0.1611	1.65	_____
Tractors	hour	10.18	0.5819	5.90	_____
DIESEL FUEL					
Tractors	gal	2.00	5.3318	10.66	_____
Harvesters	gal	2.00	1.6602	3.32	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.36	1.0000	7.36	_____
Tractors	Acre	3.09	1.0000	3.09	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	9.79	1.0000	9.79	_____

TOTAL DIRECT EXPENSES				410.89	_____
FIXED EXPENSES					
Implements	Acre	11.19	1.0000	11.19	_____
Tractors	Acre	19.27	1.0000	19.27	_____
Harvesters	Acre	8.93	1.0000	8.93	_____

TOTAL FIXED EXPENSES				39.39	_____

TOTAL SPECIFIED EXPENSES				450.28	_____

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, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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	1.06	1.49	0.29	0.58	0.08	0.86				4.28
LA Phosphate	lb											30.0000	0.54	16.20	16.20
LA Potash	lb											60.0000	0.35	21.00	21.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.12	3.15	0.97	2.05	0.07	0.71				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.87	2.63	0.35	0.92	0.07	0.75				6.52
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.33	0.36	0.04	0.05	0.02	0.20				0.98
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	4.23	4.23	4.23
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Roller	32'	MFWD 170	0.046	1.00	Mar	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.82	2.62	1.13	2.17	0.16	1.64				9.38
Corn Seed BtRR	thous											32.0000	3.27	104.64	104.64
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Nitrogen	lb											150.0000	0.43	64.50	64.50
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
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	0.08	1.76	1.76
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	5.58	8.93	1.56	2.34	0.13	1.80				20.21
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu											160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	1.65	2.31	1.97	1.19	0.08	0.84				7.96
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Select 2EC	oz											6.0000	0.78	4.68	4.68
TOTALS						19.33	28.20	7.36	11.19	0.87	9.35			365.06	440.49
INTEREST ON OPERATING CAPITAL															9.79
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															450.28

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			1.85	1.95	2.07	2.21	2.37	2.56	2.80	3.10	3.48	3.99	4.70
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-228	-220	-210	-199	-186	-171	-152	-128	-97	-57	0
			-267	-259	-250	-239	-226	-210	-191	-167	-137	-96	-39
60	96.00	bu	-205	-195	-184	-171	-155	-137	-114	-85	-48	0	68
			-244	-235	-223	-210	-195	-176	-153	-125	-88	-39	29
70	112.00	bu	-182	-171	-158	-142	-124	-102	-76	-42	0	57	137
			-222	-210	-197	-182	-164	-142	-115	-82	-39	17	97
80	128.00	bu	-159	-146	-131	-114	-93	-68	-38	0	48	114	205
			-199	-186	-171	-153	-132	-107	-77	-39	9	74	166
90	144.00	bu	-137	-122	-105	-85	-62	-34	0	42	97	171	274
			-176	-161	-144	-125	-101	-73	-39	3	58	131	234
100	160.00	bu	-114	-97	-79	-57	-31	0	38	85	146	228	342
			-153	-137	-118	-96	-70	-39	-1	46	107	189	303
110	176.00	bu	-91	-73	-52	-28	0	34	76	128	195	285	411
			-130	-112	-92	-67	-39	-5	36	89	156	246	371
120	192.00	bu	-68	-48	-26	0	31	68	114	171	244	342	479
			-107	-88	-65	-39	-8	29	74	131	205	303	440
130	208.00	bu	-45	-24	0	28	62	102	152	214	293	399	548
			-85	-63	-39	-10	22	63	112	174	254	360	508
140	224.00	bu	-22	0	26	57	93	137	190	257	342	456	616
			-62	-39	-13	17	54	97	150	217	303	417	577
150	240.00	bu	0	24	52	85	124	171	228	299	391	514	685
			-39	-14	13	46	85	131	189	260	352	474	645

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			2.01	2.13	2.26	2.41	2.59	2.81	3.07	3.41	3.83	4.40	5.20
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-215	-206	-195	-183	-169	-151	-130	-103	-69	-24	39
			-254	-245	-235	-222	-208	-191	-169	-143	-109	-63	0
60	96.00	bu	-189	-178	-166	-151	-134	-113	-87	-56	-15	39	115
			-229	-218	-205	-191	-173	-152	-127	-95	-54	0	76
70	112.00	bu	-164	-151	-136	-119	-99	-75	-45	-8	39	103	192
			-203	-191	-176	-159	-138	-114	-84	-47	0	63	152
80	128.00	bu	-138	-124	-107	-87	-64	-37	-3	39	93	166	268
			-178	-163	-146	-127	-104	-76	-42	0	54	127	229
90	144.00	bu	-113	-97	-78	-56	-30	1	39	87	148	230	345
			-152	-136	-117	-95	-69	-38	0	47	109	191	305
100	160.00	bu	-87	-69	-48	-24	4	39	81	134	203	294	421
			-127	-109	-88	-63	-34	0	42	95	163	254	382
110	176.00	bu	-62	-42	-19	7	39	77	124	182	257	357	497
			-101	-81	-58	-31	0	38	84	143	218	318	458
120	192.00	bu	-37	-15	10	39	74	115	166	230	312	421	574
			-76	-54	-29	0	34	76	127	191	272	382	534
130	208.00	bu	-11	12	39	71	108	154	209	278	366	485	650
			-50	-27	0	31	69	114	169	238	327	445	611
140	224.00	bu	13	39	68	103	143	192	251	325	421	548	727
			-25	0	29	63	104	152	212	286	382	509	687
150	240.00	bu	39	66	98	134	178	230	294	373	476	612	803
			0	27	58	95	138	191	254	334	436	573	764

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, 2016.

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	0.54	30.0000	16.20	_____
LA Potash	lb	0.35	60.0000	21.00	_____
LA Nitrogen	lb	0.43	210.0000	90.30	_____
HERBICIDES					
Glyphosate Plus 4L	pt	2.00	2.0000	4.00	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.08	66.0000	5.28	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.78	6.0000	4.68	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.27	35.0000	114.45	_____
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	13.40	0.1344	1.80	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.18	0.1611	1.65	_____
Tractors	hour	10.18	0.8750	8.89	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	8.1593	16.32	_____
Harvesters	gal	2.00	1.6602	3.32	_____
Roll-Out Pipe Irr.	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.79	1.0000	7.79	_____
Tractors	Acre	4.70	1.0000	4.70	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	6.34	1.0000	6.34	_____
INTEREST ON OP. CAP.	Acre	11.40	1.0000	11.40	_____
TOTAL DIRECT EXPENSES				492.09	_____
FIXED EXPENSES					
Implements	Acre	12.34	1.0000	12.34	_____
Tractors	Acre	29.43	1.0000	29.43	_____
Harvesters	Acre	8.93	1.0000	8.93	_____
Roll-Out Pipe Irr.	Acre	48.24	1.0000	48.24	_____
TOTAL FIXED EXPENSES				98.94	_____
TOTAL SPECIFIED EXPENSES				591.03	_____

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, 2016.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----						dollars		-----dollars-----	
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	1.06	1.49	0.29	0.58	0.08	0.86				4.28
LA Phosphate	lb											30.0000	0.54	16.20	16.20
LA Potash	lb											60.0000	0.35	21.00	21.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.12	3.15	0.97	2.05	0.07	0.71				9.00
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.87	2.63	0.35	0.92	0.07	0.75				6.52
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.22	1.72	0.06	0.15	0.04	0.49				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.33	0.36	0.04	0.05	0.02	0.20				0.98
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.50	6.50	6.50
Glyphosate Plus 4L	pt											2.0000	2.00	4.00	4.00
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											1.0000	4.23	4.23	4.23
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Roller	32'	MFWD 170	0.046	1.00	Mar	1.06	1.52	0.14	0.77	0.04	0.47				3.96
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	1.82	2.62	1.13	2.17	0.16	1.64				9.38
Corn Seed BtRR	thous											35.0000	3.27	114.45	114.45
LA Nitrogen	lb											30.0000	0.43	12.90	12.90
Ditcher		2WD 130	0.020	1.00	Mar	0.33	0.36	0.04	0.05	0.02	0.20				0.98
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	1.96	2.75	0.77	0.87	0.11	1.19				7.54
LA Nitrogen	lb											180.0000	0.43	77.40	77.40
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
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	0.08	1.76	1.76
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	5.58	8.93	1.56	2.34	0.13	1.80				20.21
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	1.65	2.31	1.97	1.19	0.08	0.84				7.96
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.08	1.76	1.76
Select 2EC	oz											6.0000	0.78	4.68	4.68
Roll-Out Pipe Irr.	Acre				Jul	7.27	10.16	23.87	49.39	0.44	4.56	1.0000		8.58	103.83
TOTALS						26.60	38.36	31.23	60.58	1.32	13.91			408.95	579.63
INTEREST ON OPERATING CAPITAL															11.40
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															591.03

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			1.86	1.97	2.09	2.22	2.39	2.58	2.83	3.13	3.51	4.03	4.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-274	-264	-252	-239	-224	-205	-182	-154	-117	-68	0
			-373	-363	-351	-338	-323	-304	-281	-253	-216	-167	-98
60	114.00	bu	-246	-234	-221	-205	-186	-164	-137	-102	-58	0	82
			-345	-333	-320	-304	-285	-263	-235	-201	-157	-98	-16
70	133.00	bu	-219	-205	-189	-171	-149	-123	-91	-51	0	68	164
			-318	-304	-288	-270	-248	-222	-190	-150	-98	-30	65
80	152.00	bu	-191	-176	-158	-137	-112	-82	-45	0	58	137	246
			-290	-275	-257	-235	-211	-181	-144	-98	-40	38	147
90	171.00	bu	-164	-146	-126	-102	-74	-41	0	51	117	205	328
			-263	-245	-225	-201	-173	-140	-98	-47	18	106	229
100	190.00	bu	-137	-117	-94	-68	-37	0	45	102	176	274	411
			-235	-216	-193	-167	-136	-98	-53	3	77	175	312
110	209.00	bu	-109	-88	-63	-34	0	41	91	154	234	342	493
			-208	-187	-162	-133	-98	-57	-7	55	135	243	394
120	228.00	bu	-82	-58	-31	0	37	82	137	205	293	411	575
			-181	-157	-130	-98	-61	-16	38	106	194	312	476
130	247.00	bu	-54	-29	0	34	74	123	182	256	352	479	657
			-153	-128	-98	-64	-24	24	83	157	253	380	558
140	266.00	bu	-27	0	31	68	112	164	228	308	411	548	739
			-126	-98	-67	-30	13	65	129	209	312	449	641
150	285.00	bu	0	29	63	102	149	205	274	359	469	616	822
			-98	-69	-35	3	50	106	175	260	370	517	723

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, 2016.

			-----BREAKEVEN PRICE-----										
Corn			2.21	2.34	2.49	2.66	2.86	3.11	3.40	3.78	4.26	4.90	5.79
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-241	-228	-214	-198	-179	-156	-127	-92	-46	13	98
			-340	-327	-313	-297	-278	-255	-226	-191	-145	-85	0
60	114.00	bu	-207	-192	-175	-156	-132	-105	-71	-28	26	98	200
			-306	-291	-274	-255	-231	-204	-170	-127	-72	0	102
70	133.00	bu	-173	-156	-136	-113	-86	-54	-14	35	98	183	302
			-272	-255	-235	-212	-185	-153	-113	-63	0	85	204
80	152.00	bu	-139	-119	-97	-71	-40	-3	42	98	171	268	404
			-238	-218	-196	-170	-139	-102	-56	0	72	170	306
90	171.00	bu	-105	-83	-57	-28	6	47	98	162	244	353	506
			-204	-182	-156	-127	-92	-51	0	63	145	255	408
100	190.00	bu	-71	-46	-18	13	52	98	155	226	317	438	608
			-170	-145	-117	-85	-46	0	56	127	218	340	510
110	209.00	bu	-37	-10	20	56	98	149	212	290	390	523	710
			-136	-109	-78	-42	0	51	113	191	291	425	612
120	228.00	bu	-3	26	59	98	145	200	268	353	463	608	812
			-102	-72	-39	0	46	102	170	255	364	510	714
130	247.00	bu	30	62	98	141	191	251	325	417	536	693	914
			-68	-36	0	42	92	153	226	318	437	595	816
140	266.00	bu	64	98	138	183	238	302	382	481	608	778	1016
			-34	0	39	85	139	204	283	382	510	680	918
150	285.00	bu	98	135	177	226	284	353	438	545	681	863	1119
			0	36	78	127	185	255	340	446	582	765	1020

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, 2016.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	10.18	0.2930	2.99	_____
LA Irrigation Labor					
Special Labor	hour	10.18	0.1500	1.51	_____
DIESEL FUEL					
Tractors	gal	2.00	2.8274	5.66	_____
Engine, RPF, 75	gal	2.00	8.5535	17.10	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.43	1.0000	0.43	_____
Tractors	Acre	1.61	1.0000	1.61	_____
Well & Pump, Furrow	each	390.00	0.0062	2.44	_____
Engine, RPF, 75	ac-in	0.37	10.5000	3.90	_____
INTEREST ON OP. CAP.	Acre	0.70	1.0000	0.70	_____

TOTAL DIRECT EXPENSES				44.98	_____
FIXED EXPENSES					
Implements	Acre	1.15	1.0000	1.15	_____
Tractors	Acre	10.16	1.0000	10.16	_____
Well & Pump, Furrow	each	1152.97	0.0062	7.21	_____
Main Line Pipe	each	796.08	0.0062	4.98	_____
Land Forming (\$300)	each	27.67	1.0000	27.67	_____
Engine, RPF, 75	each	1340.05	0.0062	8.38	_____

TOTAL FIXED EXPENSES				59.55	_____

TOTAL SPECIFIED EXPENSES				104.53	_____

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

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

TOTAL DIRECT EXPENSES				44.00	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1152.97	0.0074	8.54	_____
Engine, 1/4 CP, 65	each	1340.05	0.0074	9.93	_____
Pivot, 1/4 CP	each	6083.99	0.0074	45.07	_____

TOTAL FIXED EXPENSES				63.54	_____

TOTAL SPECIFIED EXPENSES				107.54	_____

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

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

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

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

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

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

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

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

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

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (170-199 hp)	190hp	0	300	8	9.78	13.40	19.56	0.00	32.96	0.00	32.96
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.40	24.70	16.82	54.92	66.39	121.32
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.40	25.74	0.00	39.14	0.00	39.14
Combine (250-299 hp)	275hp	315,000	300	8	14.15	13.40	28.30	32.81	74.51	129.47	203.98
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.40	30.36	22.73	66.49	89.69	156.18
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.40	29.86	0.00	43.26	0.00	43.26
Combine (300-349 hp)	325hp	332,000	300	8	16.73	13.40	33.46	34.58	81.44	136.45	217.90
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.40	32.94	0.00	46.34	0.00	46.34
Combine (350-379 hp)	370hp	344,000	300	8	19.04	13.40	38.08	35.83	87.31	141.39	228.70
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.40	37.58	0.00	50.98	0.00	50.98
Cotton Stripper	173hp	170,000	200	8	8.08	13.40	16.16	26.56	56.12	104.80	160.93
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.18	9.58	2.72	22.48	7.84	30.33
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.18	7.00	1.57	18.75	4.54	23.30
Tractor(40-59hp)Cab	2WD 50	31,100	600	8	2.57	10.18	5.14	0.97	16.29	5.84	22.14
Tractor(40-59hp)Cab	MFWD 50	38,100	600	8	2.57	10.18	5.14	1.19	16.51	7.16	23.68
Tractor(40-59hp)RB	2WD 50	18,500	600	8	2.57	10.18	5.14	0.57	15.90	3.47	19.38
Tractor(40-59hp)RB	MFWD 50	23,600	600	8	2.57	10.18	5.14	0.73	16.06	4.43	20.50
Tractor(60-89hp)CAB	2WD 75	47,700	600	8	3.86	10.18	7.72	1.49	19.39	8.97	28.36
Tractor(60-89hp)CAB	MFWD 75	49,300	600	8	3.86	10.18	7.72	1.54	19.44	9.27	28.71
Tractor(60-89hp)RB	2WD 75	37,000	600	8	3.86	10.18	7.72	1.15	19.05	6.95	26.01
Tractor(60-89hp)RB	MFWD 75	37,800	600	8	3.86	10.18	7.72	1.18	19.08	7.10	26.19
Tractor(90-119hp)CB	2WD 105	65,300	600	8	5.40	10.18	10.80	2.04	23.02	12.28	35.30
Tractor(90-119hp)CB	MFWD 105	78,300	600	8	5.40	10.18	10.80	2.44	23.43	14.72	38.16
Tractor(90-119hp)RB	2WD 105	59,900	600	8	5.40	10.18	10.80	1.87	22.86	11.26	34.12
Tractor(90-119hp)RB	MFWD 105	60,300	600	8	5.40	10.18	10.80	1.88	22.87	11.33	34.21
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	10.18	13.38	3.00	26.57	18.10	44.68
Tractor(120-139hp)CB	MFWD 130	116,000	600	8	6.69	10.18	13.38	3.62	27.18	21.81	49.00
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	10.18	15.44	3.37	28.99	20.30	49.30
Tractor(140-159hp)CB	MFWD 150	149,000	600	8	7.72	10.18	15.44	4.65	30.27	28.02	58.29
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.18	17.50	4.87	32.55	30.69	63.25
Tractor(160-179hp)CB	MFWD 170	166,000	600	8	8.75	10.18	17.50	5.18	32.86	32.66	65.53
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.18	18.53	4.45	33.16	28.08	61.25
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.18	19.55	4.46	34.20	28.13	62.34
Tractor(180-199hp)CB	MFWD 190	180,000	600	8	9.77	10.18	19.55	5.62	35.36	35.42	70.78
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.18	23.16	4.59	37.93	28.93	66.87
Tractor(200-249hp)CB	MFWD 225	228,000	600	8	11.58	10.18	23.16	7.12	40.46	44.86	85.33
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.18	23.16	8.65	41.99	54.50	96.50
Tractor(250-349hp)CB	4WD 300	282,000	600	8	15.44	10.18	30.88	8.81	49.87	55.49	105.36
Tractor(250-349hp)CB	Track 300	289,000	600	8	15.44	10.18	30.88	9.03	50.09	56.86	106.96
Tractor(350-449hp)CB	4WD 400	341,000	600	8	20.58	10.18	41.17	10.65	62.01	67.10	129.11
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	10.18	41.17	11.37	62.73	71.62	134.36
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.18	48.89	8.74	67.82	55.07	122.89

Appendix Table 5. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Louisiana 2016.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/acre				-----\$/acre-----		
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.68	0.45	0.43	3.56	2.06	5.63
Butt Levee (Backhoe)	70 HP	73,300	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.67	8.39	11.76	31.83	46.42	78.26
Cotton Picker-1st-BB	4R2X1260hp	357,000	200	8	13.33	0.172	3.87	4.59	9.61	18.07	37.92	56.00
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.35	8.42	13.40	29.18	52.88	82.06
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.35	11.79	17.90	37.04	70.64	107.69
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.78	6.76	10.79	23.35	42.59	65.94
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.78	9.28	14.13	29.21	55.78	84.99
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.88	6.73	11.66	24.28	46.01	70.29
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.65	5.33	9.21	19.20	36.35	55.55
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.90	7.97	15.85	28.73	62.56	91.30
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.87	6.29	12.51	22.68	49.39	72.08
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.67	8.39	11.76	31.83	46.42	78.26
Cotton Picker-1st-Tr	4R2X1255hp	357,000	200	8	18.01	0.172	3.87	6.20	9.61	19.69	37.92	57.61
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.35	8.42	13.39	29.17	52.84	82.01
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.35	10.95	15.91	34.21	62.78	97.00
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.78	6.76	10.79	23.35	42.59	65.94
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.78	9.28	14.13	29.21	55.78	84.99
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.88	6.87	11.67	24.43	46.06	70.49
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.65	5.33	9.40	19.39	37.10	56.49
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.90	7.30	15.85	28.06	62.56	90.63
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.87	6.20	12.51	22.59	49.39	71.99
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.88	7.11	9.96	26.96	39.32	66.29
Cotton Picker-2nd-BB	4R2X1260hp	357,000	200	8	18.01	0.145	3.27	5.25	8.14	16.67	32.12	48.80
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.22	7.13	11.34	24.71	44.76	69.47
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.22	9.27	13.47	28.98	53.18	82.17
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.90	5.73	9.14	19.77	36.07	55.85
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.90	7.86	11.97	24.74	47.25	71.99
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	4.98	5.82	9.88	20.69	39.02	59.71
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.94	4.51	7.80	16.26	30.79	47.05
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.15	6.65	13.43	24.24	52.99	77.24
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.27	5.25	10.60	19.13	41.84	60.98
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.88	7.11	9.96	26.96	39.32	66.29
Cotton Picker-2nd-Tr	4R2X1260hp	357,000	200	8	18.01	0.145	3.27	5.25	8.14	16.67	32.12	48.80
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.22	7.13	11.34	24.71	44.76	69.47
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.22	9.27	13.47	28.98	53.18	82.17
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.90	5.73	9.14	19.77	36.07	55.85
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.90	7.86	11.97	24.74	47.25	71.99
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	4.98	5.82	9.88	20.69	39.02	59.71
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.94	4.51	7.96	16.42	31.43	47.85
Cotton Picker-2nd-Tr	6R30"325hp	465,000	200	8	16.72	0.184	4.15	6.18	13.43	23.76	52.99	76.76
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.27	5.25	10.60	19.13	41.84	60.98
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	10.18	5.62	2.81	18.61	6.65	25.26
LA Rice Combine	25 ft	165,000	300	10	8.60	0.300	5.05	5.16	13.21	23.43	20.07	43.50
LA Rice Combine-2	25 ft	165,000	300	10	8.60	0.300	5.05	5.16	13.21	23.43	20.07	43.50
LARice Combine Med	20 ft	150,000	300	10	7.10	0.210	3.53	2.98	8.40	14.92	12.76	27.69
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.68	0.19	0.06	0.94	0.41	1.36
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.24	0.00	0.64	0.00	0.64
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.19	0.09	0.61	0.63	1.25
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.14	0.07	0.45	0.47	0.93
Sprayer(600-750Gal)	60'	174,000	350	8	10.29	0.017	0.31	0.36	0.16	0.84	1.08	1.92
Sprayer(600-825Gal)	80'	180,000	350	8	10.29	0.013	0.23	0.27	0.12	0.63	0.83	1.47
Sprayer(600-825Gal)	90'	255,000	350	8	10.29	0.011	0.21	0.24	0.16	0.61	1.05	1.66
Sprayer(1000-1400Gal)	90'	297,000	350	8	14.15	0.014	0.25	0.39	0.22	0.87	1.47	2.35
Sprayer(1200PlusGal)	120'	336,000	350	8	15.44	0.008	0.15	0.27	0.15	0.58	1.04	1.63

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

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

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

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

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

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

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

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

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

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