

Projected Costs and Returns Crop Enterprise Budgets for Corn Production in Louisiana, 2015

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



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by

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Introduction

This publication presents estimates of projected costs and returns for corn production in Louisiana for the 2015 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 2015 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 2015 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 3.40% 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 \$2.75 per gallon and \$3.40 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 4.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

Overhead costs reflect significant expenses associated with the operation of the

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

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.61	30.0000	18.30	_____
LA Potash	lb	0.34	60.0000	20.40	_____
LA Nitrogen	lb	0.50	180.0000	90.00	_____
HERBICIDES					
Glyphosate Plus 4L	pt	3.19	2.0000	6.38	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.77	6.0000	4.62	_____
INSECTICIDES					
Karate Z	oz	3.40	2.1300	7.24	_____
Intrepid 2F	oz	1.76	6.0000	10.56	_____
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	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.1344	1.69	_____
LA Hired Labor					
Implements	hour	9.60	0.1611	1.54	_____
Tractors	hour	9.60	0.5819	5.58	_____
DIESEL FUEL					
Tractors	gal	2.74	5.3318	14.63	_____
Harvesters	gal	2.74	1.6602	4.55	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.30	1.0000	7.30	_____
Tractors	Acre	2.92	1.0000	2.92	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	10.68	1.0000	10.68	_____
TOTAL DIRECT EXPENSES				455.30	_____
FIXED EXPENSES					
Implements	Acre	10.66	1.0000	10.66	_____
Tractors	Acre	17.63	1.0000	17.63	_____
Harvesters	Acre	8.66	1.0000	8.66	_____
TOTAL FIXED EXPENSES				36.95	_____
TOTAL SPECIFIED EXPENSES				492.25	_____

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, 2015.

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	48.00	15.84	15.84
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.34	1.28	0.26	0.50	0.08	0.80				4.18
LA Phosphate	lb											30.0000	0.61	18.30	18.30
LA Potash	lb											60.0000	0.34	20.40	20.40
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.73	3.02	0.88	1.80	0.07	0.67				9.10
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.36	2.26	0.37	0.94	0.07	0.71				6.64
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.54	1.48	0.06	0.15	0.04	0.47				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.43	0.35	0.04	0.05	0.02	0.19				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Glyphosate Plus 4L	pt											2.0000	3.19	6.38	6.38
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	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	1.36	1.48	0.14	0.74	0.04	0.45				4.17
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.34	2.55	1.13	2.09	0.16	1.54				9.65
Corn Seed RR	thous											32.0000	3.08	98.56	98.56
LA Nitrogen	lb											30.0000	0.50	15.00	15.00
Ditcher		2WD 130	0.020	1.00	Mar	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.47	2.37	0.90	0.98	0.11	1.12	150.0000	0.50	75.00	75.00
LA Nitrogen	lb											1.0000	6.00	6.00	6.00
App by Air (5 gal)	appl			1.00	Apr							22.0000	0.27	5.94	5.94
Roundup WeatherMax	oz											1.0000			
Dual 8E	pt											3.0000	1.50	4.50	4.50
Atrazine 4L	pt											2.1300	3.40	7.24	7.24
Karate Z	oz											1.0000	6.00	6.00	6.00
App by Air (5 gal)	appl			1.00	May							22.0000	0.27	5.94	5.94
Roundup WeatherMax	oz											2.0000	1.50	3.00	3.00
Atrazine 4L	pt											6.0000	1.76	10.56	10.56
Intrepid 2F	oz											1.0000	4.75	4.75	4.75
App by Air (3 gal)	appl			1.00	Jun							2.1300	2.30	4.90	4.90
Baythroid 2	oz											160.0000	0.19	30.40	30.40
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.81	8.66	1.50	2.18	0.13	1.69	160.0000	0.23	36.80	36.80
Dry Corn	bu														8.12
Haul Corn	bu			1.00	Aug							1.0000	6.00	6.00	6.00
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.12	2.14	1.94	1.13	0.08	0.79	22.0000	0.27	5.94	5.94
App by Air (5 gal)	appl			1.00	Sep							6.0000	0.77	4.62	4.62
Roundup WeatherMax	oz														
Select 2EC	oz														
TOTALS						24.36	26.29	7.30	10.66	0.87	8.81			404.15	481.57
INTEREST ON OPERATING CAPITAL															10.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															492.25

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.03	2.15	2.28	2.44	2.62	2.84	3.11	3.45	3.88	4.45	5.26
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-258	-248	-238	-225	-211	-193	-172	-145	-110	-64	0
			-295	-285	-275	-262	-248	-230	-208	-182	-147	-101	-36
60	96.00	bu	-232	-221	-208	-193	-175	-154	-129	-96	-55	0	77
			-269	-258	-245	-230	-212	-191	-165	-133	-92	-36	40
70	112.00	bu	-206	-193	-178	-161	-140	-116	-86	-48	0	64	154
			-243	-230	-215	-198	-177	-153	-122	-85	-36	27	117
80	128.00	bu	-180	-165	-148	-129	-105	-77	-43	0	55	129	232
			-217	-202	-185	-165	-142	-114	-79	-36	18	92	195
90	144.00	bu	-154	-138	-119	-96	-70	-38	0	48	110	193	309
			-191	-175	-156	-133	-107	-75	-36	11	73	156	272
100	160.00	bu	-129	-110	-89	-64	-35	0	43	96	165	258	387
			-165	-147	-126	-101	-72	-36	6	59	128	221	350
110	176.00	bu	-103	-82	-59	-32	0	38	86	145	221	322	464
			-140	-119	-96	-69	-36	1	49	108	184	285	427
120	192.00	bu	-77	-55	-29	0	35	77	129	193	276	387	541
			-114	-92	-66	-36	-1	40	92	156	239	350	505
130	208.00	bu	-51	-27	0	32	70	116	172	241	331	451	619
			-88	-64	-36	-4	33	79	135	204	294	414	582
140	224.00	bu	-25	0	29	64	105	154	215	290	387	516	696
			-62	-36	-7	27	68	117	178	253	350	479	659
150	240.00	bu	0	27	59	96	140	193	258	338	442	580	774
			-36	-9	22	59	103	156	221	301	405	543	737

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.19	2.31	2.46	2.63	2.83	3.07	3.37	3.73	4.21	4.84	5.72
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-245	-235	-224	-210	-194	-175	-151	-122	-84	-33	36
			-282	-272	-260	-247	-231	-212	-188	-159	-121	-70	0
60	96.00	bu	-217	-205	-191	-175	-155	-132	-104	-69	-23	36	121
			-254	-242	-228	-212	-192	-169	-141	-106	-60	0	84
70	112.00	bu	-189	-175	-158	-139	-117	-90	-57	-16	36	107	206
			-226	-212	-195	-176	-154	-127	-94	-53	0	70	169
80	128.00	bu	-160	-144	-126	-104	-78	-47	-10	36	97	178	291
			-197	-181	-163	-141	-115	-84	-47	0	60	141	254
90	144.00	bu	-132	-114	-93	-69	-40	-5	36	89	158	248	376
			-169	-151	-130	-106	-77	-42	0	53	121	212	339
100	160.00	bu	-104	-84	-60	-33	-1	36	84	142	218	319	461
			-141	-121	-97	-70	-38	0	47	106	181	282	424
110	176.00	bu	-76	-53	-28	1	36	79	131	195	279	390	545
			-113	-90	-65	-35	0	42	94	159	242	353	508
120	192.00	bu	-47	-23	4	36	75	121	178	248	339	461	630
			-84	-60	-32	0	38	84	141	212	302	424	593
130	208.00	bu	-19	6	36	72	114	164	225	301	400	531	715
			-56	-30	0	35	77	127	188	265	363	494	678
140	224.00	bu	8	36	69	107	152	206	272	354	461	602	800
			-28	0	32	70	115	169	235	318	424	565	763
150	240.00	bu	36	67	102	142	191	248	319	408	521	673	885
			0	30	65	106	154	212	282	371	484	636	848

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, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.61	30.0000	18.30	_____
LA Potash	lb	0.34	60.0000	20.40	_____
LA Nitrogen	lb	0.50	210.0000	105.00	_____
HERBICIDES					
Glyphosate Plus 4L	pt	3.19	2.0000	6.38	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.77	6.0000	4.62	_____
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	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.1344	1.69	_____
IRRIGATION LABOR					
Implements	hour	9.60	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	9.60	0.1611	1.54	_____
Tractors	hour	9.60	0.8812	8.45	_____
LA Irrigation Labor					
Special Labor	hour	9.60	0.1500	1.44	_____
DIESEL FUEL					
Tractors	gal	2.74	8.2204	22.55	_____
Harvesters	gal	2.74	1.6602	4.55	_____
Roll-Out Pipe Irr.	gal	2.74	8.5535	23.43	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.77	1.0000	7.77	_____
Tractors	Acre	4.39	1.0000	4.39	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	5.98	1.0000	5.98	_____
INTEREST ON OP. CAP.	Acre	12.12	1.0000	12.12	_____
TOTAL DIRECT EXPENSES				535.24	_____
FIXED EXPENSES					
Implements	Acre	11.82	1.0000	11.82	_____
Tractors	Acre	26.59	1.0000	26.59	_____
Harvesters	Acre	8.66	1.0000	8.66	_____
Roll-Out Pipe Irr.	Acre	45.14	1.0000	45.14	_____
TOTAL FIXED EXPENSES				92.21	_____
TOTAL SPECIFIED EXPENSES				627.45	_____

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, 2015.

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	48.00	15.84	15.84
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.34	1.28	0.26	0.50	0.08	0.80				4.18
LA Phosphate	lb											30.0000	0.61	18.30	18.30
LA Potash	lb											60.0000	0.34	20.40	20.40
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.73	3.02	0.88	1.80	0.07	0.67				9.10
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.36	2.26	0.37	0.94	0.07	0.71				6.64
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.54	1.48	0.06	0.15	0.04	0.47				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.43	0.35	0.04	0.05	0.02	0.19				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Glyphosate Plus 4L	pt											2.0000	3.19	6.38	6.38
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	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	1.36	1.48	0.14	0.74	0.04	0.45				4.17
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.34	2.55	1.13	2.09	0.16	1.54				9.65
Corn Seed RR	thous											35.0000	3.08	107.80	107.80
LA Nitrogen	lb											30.0000	0.50	15.00	15.00
Ditcher		2WD 130	0.020	1.00	Mar	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.47	2.37	0.90	0.98	0.11	1.12	180.0000	0.50	90.00	90.00
LA Nitrogen	lb											1.0000	6.00	6.00	6.00
App by Air (5 gal)	appl			1.00	Apr							22.0000	0.27	5.94	5.94
Roundup WeatherMax	oz											1.0000			
Dual 8E	pt											3.0000	1.50	4.50	4.50
Atrazine 4L	pt											2.1300	3.40	7.24	7.24
Karate Z	oz											1.0000	6.00	6.00	6.00
App by Air (5 gal)	appl			1.00	May							22.0000	0.27	5.94	5.94
Roundup WeatherMax	oz											2.0000	1.50	3.00	3.00
Atrazine 4L	pt											1.0000	4.75	4.75	4.75
App by Air (3 gal)	appl			1.00	Jun							2.1300	2.30	4.90	4.90
Baythroid 2	oz														4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.81	8.66	1.50	2.18	0.13	1.69	190.0000	0.19	36.10	36.10
Dry Corn	bu														0.61
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.20	0.19	0.06	0.10	0.00	0.06	190.0000	0.23	43.70	43.70
Haul Corn	bu			1.00	Aug										8.12
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.12	2.14	1.94	1.13	0.08	0.79				6.00
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Select 2EC	oz											6.0000	0.77	4.62	4.62
Roll-Out Pipe Irr.	Acre				Jul	9.19	8.77	29.82	46.20	0.44	4.31	1.0000		8.58	106.87
TOTALS						33.75	35.25	37.18	56.96	1.33	13.18			439.01	615.33
INTEREST ON OPERATING CAPITAL															12.12
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															627.45

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.02	2.13	2.26	2.41	2.59	2.81	3.08	3.41	3.84	4.41	5.20
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-302	-292	-279	-264	-247	-227	-201	-170	-129	-75	0
			-395	-384	-371	-357	-339	-319	-294	-262	-222	-167	-92
60	114.00	bu	-272	-259	-244	-227	-206	-181	-151	-113	-64	0	90
			-364	-351	-336	-319	-298	-273	-243	-205	-157	-92	-1
70	133.00	bu	-242	-227	-209	-189	-165	-136	-100	-56	0	75	181
			-334	-319	-301	-281	-257	-228	-193	-148	-92	-16	89
80	152.00	bu	-211	-194	-174	-151	-123	-90	-50	0	64	151	272
			-304	-286	-266	-243	-216	-183	-142	-92	-27	59	180
90	171.00	bu	-181	-162	-139	-113	-82	-45	0	56	129	227	363
			-273	-254	-231	-205	-174	-137	-92	-35	37	134	271
100	190.00	bu	-151	-129	-104	-75	-41	0	50	113	194	302	454
			-243	-222	-197	-167	-133	-92	-41	21	102	210	362
110	209.00	bu	-121	-97	-69	-37	0	45	100	170	259	378	545
			-213	-189	-162	-130	-92	-46	8	78	167	286	452
120	228.00	bu	-90	-64	-34	0	41	90	151	227	324	454	635
			-183	-157	-127	-92	-50	-1	59	134	232	362	543
130	247.00	bu	-60	-32	0	37	82	136	201	283	389	529	726
			-152	-124	-92	-54	-9	44	109	191	297	437	634
140	266.00	bu	-30	0	34	75	123	181	252	340	454	605	817
			-122	-92	-57	-16	31	89	160	248	362	513	725
150	285.00	bu	0	32	69	113	165	227	302	397	519	681	908
			-92	-59	-22	21	72	134	210	305	426	589	816

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

Table 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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.34	2.48	2.63	2.82	3.04	3.30	3.62	4.02	4.53	5.21	6.17
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-272	-259	-244	-226	-205	-181	-150	-112	-63	1	92
			-364	-351	-336	-318	-298	-273	-242	-204	-156	-91	0
60	114.00	bu	-235	-220	-202	-181	-156	-126	-89	-44	14	92	201
			-327	-312	-294	-273	-248	-218	-182	-136	-78	0	109
70	133.00	bu	-199	-181	-160	-135	-106	-71	-29	23	92	183	310
			-291	-273	-252	-227	-198	-163	-121	-68	0	91	218
80	152.00	bu	-162	-141	-117	-89	-56	-17	31	92	170	274	420
			-255	-234	-210	-182	-149	-109	-60	0	78	182	327
90	171.00	bu	-126	-102	-75	-44	-7	37	92	160	248	365	529
			-218	-195	-168	-136	-99	-54	0	68	156	273	437
100	190.00	bu	-89	-63	-33	1	42	92	152	228	326	456	638
			-182	-156	-126	-91	-49	0	60	136	234	364	546
110	209.00	bu	-53	-24	8	46	92	146	213	297	404	547	747
			-145	-117	-84	-45	0	54	121	204	312	455	655
120	228.00	bu	-17	14	50	92	141	201	274	365	482	638	857
			-109	-78	-42	0	49	109	182	273	390	546	765
130	247.00	bu	19	53	92	137	191	256	335	433	560	729	966
			-72	-39	0	45	99	163	242	341	468	637	874
140	266.00	bu	55	92	134	183	241	310	395	502	638	820	1075
			-36	0	42	91	149	218	303	409	546	728	983
150	285.00	bu	92	131	176	228	290	365	456	570	716	911	1185
			0	39	84	136	198	273	364	478	624	819	1092

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

Table 3.A Estimated costs per Acre
 Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
 Alluvial Soil, Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_____
FERTILIZERS					
LA Phosphate	lb	0.61	30.0000	18.30	_____
LA Potash	lb	0.34	60.0000	20.40	_____
LA Nitrogen	lb	0.50	180.0000	90.00	_____
HERBICIDES					
Glyphosate Plus 4L	pt	3.19	2.0000	6.38	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.77	6.0000	4.62	_____
INSECTICIDES					
Baythroid 2	oz	2.30	2.1300	4.90	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.47	32.0000	111.04	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	160.0000	36.80	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.1344	1.69	_____
LA Hired Labor					
Implements	hour	9.60	0.1611	1.54	_____
Tractors	hour	9.60	0.5819	5.58	_____
DIESEL FUEL					
Tractors	gal	2.74	5.3318	14.63	_____
Harvesters	gal	2.74	1.6602	4.55	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.30	1.0000	7.30	_____
Tractors	Acre	2.92	1.0000	2.92	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
INTEREST ON OP. CAP.	Acre	10.61	1.0000	10.61	_____

TOTAL DIRECT EXPENSES				449.91	_____
FIXED EXPENSES					
Implements	Acre	10.66	1.0000	10.66	_____
Tractors	Acre	17.63	1.0000	17.63	_____
Harvesters	Acre	8.66	1.0000	8.66	_____

TOTAL FIXED EXPENSES				36.95	_____

TOTAL SPECIFIED EXPENSES				486.86	_____

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, 2015.

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	48.00	15.84	15.84
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.34	1.28	0.26	0.50	0.08	0.80				4.18
LA Phosphate	lb											30.0000	0.61	18.30	18.30
LA Potash	lb											60.0000	0.34	20.40	20.40
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.73	3.02	0.88	1.80	0.07	0.67				9.10
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.36	2.26	0.37	0.94	0.07	0.71				6.64
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.54	1.48	0.06	0.15	0.04	0.47				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.43	0.35	0.04	0.05	0.02	0.19				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Glyphosate Plus 4L	pt											2.0000	3.19	6.38	6.38
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	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	1.36	1.48	0.14	0.74	0.04	0.45				4.17
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.34	2.55	1.13	2.09	0.16	1.54				9.65
Corn Seed BtRR	thous											32.0000	3.47	111.04	111.04
LA Nitrogen	lb											30.0000	0.50	15.00	15.00
Ditcher		2WD 130	0.020	1.00	Mar	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.47	2.37	0.90	0.98	0.11	1.12				7.84
LA Nitrogen	lb											150.0000	0.50	75.00	75.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
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	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	4.75	4.75	4.75
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.81	8.66	1.50	2.18	0.13	1.69				20.84
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	2.12	2.14	1.94	1.13	0.08	0.79				8.12
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Select 2EC	oz											6.0000	0.77	4.62	4.62
TOTALS						24.36	26.29	7.30	10.66	0.87	8.81			398.83	476.25
INTEREST ON OPERATING CAPITAL															10.61
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															486.86

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.01	2.13	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
			-291	-282	-271	-259	-245	-227	-206	-180	-146	-100	-36
60	96.00	bu	-229	-218	-205	-190	-173	-152	-127	-95	-54	0	76
			-265	-255	-242	-227	-210	-189	-164	-132	-91	-36	39
70	112.00	bu	-203	-190	-176	-159	-138	-114	-84	-47	0	63	152
			-240	-227	-213	-196	-175	-151	-121	-84	-36	26	115
80	128.00	bu	-178	-163	-146	-127	-104	-76	-42	0	54	127	229
			-215	-200	-183	-164	-141	-113	-79	-36	17	90	192
90	144.00	bu	-152	-136	-117	-95	-69	-38	0	47	109	190	305
			-189	-173	-154	-132	-106	-75	-36	10	72	153	268
100	160.00	bu	-127	-109	-88	-63	-34	0	42	95	163	254	381
			-164	-146	-125	-100	-71	-36	5	58	126	217	344
110	176.00	bu	-101	-81	-58	-31	0	38	84	143	218	318	458
			-138	-118	-95	-68	-36	1	47	106	181	281	421
120	192.00	bu	-76	-54	-29	0	34	76	127	190	272	381	534
			-113	-91	-66	-36	-2	39	90	153	235	344	497
130	208.00	bu	-50	-27	0	31	69	114	169	238	327	445	610
			-87	-64	-36	-5	32	77	132	201	290	408	573
140	224.00	bu	-25	0	29	63	104	152	212	286	381	508	687
			-62	-36	-7	26	67	115	175	249	344	472	650
150	240.00	bu	0	27	58	95	138	190	254	334	436	572	763
			-36	-9	21	58	101	153	217	297	399	535	726

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.24	2.37	2.52	2.70	2.91	3.15	3.46	3.84	4.33	4.98	5.89
PERCENT	YIELD	UNIT	-----dollars-----										
			-----BREAKEVEN PRICE-----										
Corn			2.17	2.29	2.43	2.60	2.80	3.04	3.33	3.69	4.16	4.78	5.65
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-242	-232	-220	-207	-191	-172	-149	-120	-82	-32	36
			-279	-269	-257	-244	-228	-209	-186	-157	-119	-69	0
60	96.00	bu	-214	-202	-188	-172	-153	-130	-102	-67	-22	36	120
			-251	-239	-225	-209	-190	-167	-139	-104	-59	0	83
70	112.00	bu	-186	-172	-156	-137	-115	-88	-56	-15	36	106	204
			-223	-209	-193	-174	-152	-125	-93	-52	0	69	167
80	128.00	bu	-158	-142	-124	-102	-77	-46	-9	36	96	176	288
			-195	-179	-161	-139	-114	-83	-46	0	59	139	251
90	144.00	bu	-130	-112	-91	-67	-39	-4	36	89	156	246	371
			-167	-149	-128	-104	-76	-41	0	52	119	209	334
100	160.00	bu	-102	-82	-59	-32	-1	36	83	141	216	316	455
			-139	-119	-96	-69	-38	0	46	104	179	279	418
110	176.00	bu	-74	-52	-27	2	36	78	129	193	276	385	539
			-111	-89	-64	-34	0	41	93	157	239	348	502
120	192.00	bu	-46	-22	4	36	75	120	176	246	336	455	623
			-83	-59	-32	0	38	83	139	209	299	418	586
130	208.00	bu	-18	7	36	71	113	162	223	298	395	525	706
			-55	-29	0	34	76	125	186	261	358	488	669
140	224.00	bu	9	36	69	106	151	204	269	350	455	595	790
			-27	0	32	69	114	167	232	314	418	558	753
150	240.00	bu	36	66	101	141	189	246	316	403	515	664	874
			0	29	64	104	152	209	279	366	478	628	837

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, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_____
FERTILIZERS					
LA Phosphate	lb	0.61	30.0000	18.30	_____
LA Potash	lb	0.34	60.0000	20.40	_____
LA Nitrogen	lb	0.50	210.0000	105.00	_____
HERBICIDES					
Glyphosate Plus 4L	pt	3.19	2.0000	6.38	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	1.0000	4.23	_____
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
Atrazine 4L	pt	1.50	5.0000	7.50	_____
Select 2EC	oz	0.77	6.0000	4.62	_____
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	3.47	35.0000	121.45	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Corn	bu	0.23	190.0000	43.70	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.1344	1.69	_____
IRRIGATION LABOR					
Implements	hour	9.60	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	9.60	0.1611	1.54	_____
Tractors	hour	9.60	0.8750	8.39	_____
LA Irrigation Labor					
Special Labor	hour	9.60	0.1500	1.44	_____
DIESEL FUEL					
Tractors	gal	2.74	8.1593	22.38	_____
Harvesters	gal	2.74	1.6602	4.55	_____
Roll-Out Pipe Irr.	gal	2.74	8.5535	23.43	_____
REPAIR & MAINTENANCE					
Implements	Acre	7.71	1.0000	7.71	_____
Tractors	Acre	4.36	1.0000	4.36	_____
Harvesters	Acre	2.26	1.0000	2.26	_____
Roll-Out Pipe Irr.	Acre	5.98	1.0000	5.98	_____
INTEREST ON OP. CAP.	Acre	12.36	1.0000	12.36	_____
TOTAL DIRECT EXPENSES				541.57	_____
FIXED EXPENSES					
Implements	Acre	11.72	1.0000	11.72	_____
Tractors	Acre	26.40	1.0000	26.40	_____
Harvesters	Acre	8.66	1.0000	8.66	_____
Roll-Out Pipe Irr.	Acre	45.14	1.0000	45.14	_____
TOTAL FIXED EXPENSES				91.92	_____
TOTAL SPECIFIED EXPENSES				633.49	_____

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, 2015.

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	48.00	15.84	15.84
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.34	1.28	0.26	0.50	0.08	0.80				4.18
LA Phosphate	lb											30.0000	0.61	18.30	18.30
LA Potash	lb											60.0000	0.34	20.40	20.40
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.73	3.02	0.88	1.80	0.07	0.67				9.10
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.36	2.26	0.37	0.94	0.07	0.71				6.64
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.54	1.48	0.06	0.15	0.04	0.47				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.43	0.35	0.04	0.05	0.02	0.19				1.06
App by Air (5 gal)	appl			1.00	Feb							1.0000	6.00	6.00	6.00
Glyphosate Plus 4L	pt											2.0000	3.19	6.38	6.38
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	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Roller	32'	MFWD 170	0.046	1.00	Mar	1.36	1.48	0.14	0.74	0.04	0.45				4.17
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.34	2.55	1.13	2.09	0.16	1.54				9.65
Corn Seed BtRR	thous											35.0000	3.47	121.45	121.45
LA Nitrogen	lb											30.0000	0.50	15.00	15.00
Ditcher		2WD 130	0.020	1.00	Mar	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.47	2.37	0.90	0.98	0.11	1.12				7.84
LA Nitrogen	lb											180.0000	0.50	90.00	90.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
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	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Atrazine 4L	pt											2.0000	1.50	3.00	3.00
App by Air (3 gal)	appl			1.00	Jun							1.0000	4.75	4.75	4.75
Baythroid 2	oz											2.1300	2.30	4.90	4.90
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.81	8.66	1.50	2.18	0.13	1.69				20.84
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	2.12	2.14	1.94	1.13	0.08	0.79				8.12
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Select 2EC	oz											6.0000	0.77	4.62	4.62
Roll-Out Pipe Irr.	Acre				Jul	9.19	8.77	29.82	46.20	0.44	4.31	1.0000		8.58	106.87
TOTALS						33.55	35.06	37.12	56.86	1.32	13.12			445.42	621.13
INTEREST ON OPERATING CAPITAL															12.36
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															633.49

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.04	2.15	2.29	2.44	2.62	2.85	3.11	3.45	3.88	4.46	5.27
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-307	-296	-283	-268	-251	-230	-204	-172	-131	-76	0
			-398	-388	-375	-360	-343	-322	-296	-264	-223	-168	-91
60	114.00	bu	-276	-263	-248	-230	-209	-184	-153	-115	-65	0	92
			-368	-355	-339	-322	-301	-276	-245	-207	-157	-91	0
70	133.00	bu	-245	-230	-212	-191	-167	-138	-102	-57	0	76	184
			-337	-322	-304	-283	-259	-230	-194	-149	-91	-15	92
80	152.00	bu	-214	-197	-177	-153	-125	-92	-51	0	65	153	276
			-306	-289	-269	-245	-217	-184	-143	-91	-26	61	184
90	171.00	bu	-184	-164	-141	-115	-83	-46	0	57	131	230	368
			-276	-256	-233	-207	-175	-137	-91	-34	39	138	276
100	190.00	bu	-153	-131	-106	-76	-41	0	51	115	197	307	460
			-245	-223	-198	-168	-133	-91	-40	23	105	215	368
110	209.00	bu	-122	-98	-70	-38	0	46	102	172	263	383	552
			-214	-190	-162	-130	-91	-45	10	80	171	291	460
120	228.00	bu	-92	-65	-35	0	41	92	153	230	329	460	644
			-184	-157	-127	-91	-50	0	61	138	237	368	552
130	247.00	bu	-61	-32	0	38	83	138	204	287	394	537	736
			-153	-124	-91	-53	-8	46	112	195	302	445	645
140	266.00	bu	-30	0	35	76	125	184	255	345	460	614	829
			-122	-91	-56	-15	33	92	163	253	368	522	737
150	285.00	bu	0	32	70	115	167	230	307	403	526	690	921
			-91	-59	-21	23	75	138	215	311	434	598	829

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, 2015.

			-----BREAKEVEN PRICE-----										
Corn			2.36	2.50	2.66	2.84	3.06	3.33	3.65	4.06	4.58	5.27	6.24
PERCENT	YIELD	UNIT	-----dollars-----										
50	95.00	bu	-276	-263	-248	-230	-209	-184	-153	-115	-65	-0	91
			-368	-355	-340	-322	-301	-276	-245	-207	-157	-92	0
60	114.00	bu	-239	-223	-205	-184	-159	-129	-92	-46	12	91	202
			-331	-315	-297	-276	-251	-221	-184	-138	-78	0	110
70	133.00	bu	-202	-184	-163	-138	-108	-73	-30	22	91	184	312
			-294	-276	-255	-230	-200	-165	-122	-69	0	92	221
80	152.00	bu	-165	-144	-120	-92	-58	-18	30	91	170	276	423
			-257	-236	-212	-184	-150	-110	-61	0	78	184	331
90	171.00	bu	-129	-105	-78	-46	-8	36	91	160	249	368	533
			-221	-197	-170	-138	-100	-55	0	69	157	276	442
100	190.00	bu	-92	-65	-35	-0	41	91	153	230	328	460	644
			-184	-157	-127	-92	-50	0	61	138	236	368	552
110	209.00	bu	-55	-26	6	45	91	147	214	299	407	552	754
			-147	-118	-85	-46	0	55	122	207	315	460	663
120	228.00	bu	-18	12	49	91	142	202	276	368	486	644	865
			-110	-78	-42	0	50	110	184	276	394	552	773
130	247.00	bu	18	52	91	137	192	257	337	437	565	736	975
			-73	-39	0	46	100	165	245	345	473	644	884
140	266.00	bu	55	91	134	184	242	312	398	506	644	828	1086
			-36	0	42	92	150	221	306	414	552	736	994
150	285.00	bu	91	131	176	230	292	368	460	575	723	920	1196
			0	39	85	138	200	276	368	483	631	828	1105

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, 2015.

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	9.60	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	9.60	0.2930	2.81	_____
LA Irrigation Labor					
Special Labor	hour	9.60	0.1500	1.44	_____
DIESEL FUEL					
Tractors	gal	2.74	2.8274	7.75	_____
Engine, RPF, 75	gal	2.74	8.5535	23.43	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.41	1.0000	0.41	_____
Tractors	Acre	1.44	1.0000	1.44	_____
Well & Pump, Furrow	each	390.00	0.0062	2.44	_____
Engine, RPF, 75	ac-in	0.33	10.5000	3.54	_____
INTEREST ON OP. CAP.	Acre	0.78	1.0000	0.78	_____

TOTAL DIRECT EXPENSES				52.68	_____
FIXED EXPENSES					
Implements	Acre	1.06	1.0000	1.06	_____
Tractors	Acre	8.77	1.0000	8.77	_____
Well & Pump, Furrow	each	1095.88	0.0062	6.85	_____
Main Line Pipe	each	756.66	0.0062	4.73	_____
Land Forming (\$300)	each	26.30	1.0000	26.30	_____
Engine, RPF, 75	each	1160.82	0.0062	7.26	_____

TOTAL FIXED EXPENSES				54.97	_____
TOTAL SPECIFIED EXPENSES				107.65	_____

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2014.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	9.60	0.2036	1.95	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.74	11.2011	30.70	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	390.00	0.0074	2.89	_____
Engine, 1/4 CP, 65	ac-in	0.59	7.5000	4.47	_____
Pivot, 1/4 CP	1320'	1516.40	0.0074	11.23	_____
INTEREST ON OP. CAP.	Acre	0.87	1.0000	0.87	_____

TOTAL DIRECT EXPENSES				52.11	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1095.88	0.0074	8.12	_____
Engine, 1/4 CP, 65	each	1237.70	0.0074	9.17	_____
Pivot, 1/4 CP	each	5828.74	0.0074	43.18	_____

TOTAL FIXED EXPENSES				60.47	_____
TOTAL SPECIFIED EXPENSES				112.58	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2015.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Tilt 3.6 EC oz 0.84		
Crop Oil (Seed Oil)	pt	4.60	Vitavax 200	oz	0.47
Crop Oil (Petroleum)	pt	3.60	Vitavax M Flowable	oz	1.06
Surfactant	pt	3.60	Vitavax RTU-Thiram	oz	0.40
CUSTOM FERT/LIME			Vitavax T-L oz 0.29		
App Fert by Air	cwt	6.50	GIN/DRY		
App Fert by Air(Min)	appl	6.50	Dry Corn	bu	0.19
Custom Apply Fert	acre	7.50	Dry Grain Sorghum	cwt	0.25
Custom Spread(Truc	appl	4.50	Dry Rice	bu	0.40
Lime (Spread)	ton	48.00	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	0.38
Haul Cotton	lb	0.02	Mepex	oz	0.09
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	0.20
LARice Air Plant SW	cwt	5.60	Boll'd	pt	7.01
CUSTOM SPRAY			CottonQuik	pt	4.25
App by Air (2 gal)	appl	3.25	Def 6	pt	8.25
App by Air (3 gal)	appl	4.75	Def/Folex	pt	8.62
App by Air (5 gal)	appl	6.00	Dropp 50 WP	lb	45.45
App by Air (10 gal)	appl	8.00	Dropp SC	oz	1.09
LARice GPS Charge-SW	acre	0.35	Ethephon 6E	pt	3.27
LARice GPS Charge_NE	acre	0.25	Finish 6	pt	8.59
FERTILIZERS			Folex 6EC	pt	7.55
Amm Nitrate (34% N)	cwt	22.50	Ginstar EC	pt	27.89
Amm Sulfate (21% N)	cwt	18.60	Gramoxone Extra	pt	4.86
Fert 10-34-0	cwt	26.00	Gramoxone Inteon	oz	0.25
Fert 41-0-0-4	cwt	23.50	Gramoxone Max	pt	4.06
LA Nitrogen	lb	0.50	Harvade 5F	oz	0.67
LA Phosphate	lb	0.61	Leafless	pt	18.56
LA Potash	lb	0.34	Prep	pt	4.00
Phosphorus(46% P2O5)	cwt	24.50	Sodium Chlorate 3L	gal	3.50
Potash (60% K2O)	cwt	23.60	Solium Chlorate 6L	gal	5.57
Sulfur	lb	0.26	Starfire	pt	0.00
UAN (32% N)	cwt	18.50	HERBICIDES		
UAN + Sulfur (28% N)	cwt	17.90	2,4-D Amine 4	pt	1.85
Urea, Solid (46% N)	cwt	25.25	2,4-D Ester	pt	3.00
Zinc	lb	0.50	AAtrex 4L	pt	2.08
FUNGICIDES			AAtrex NINE-O	lb	3.93
Apron Maxx RTA	oz	0.81	Accent Gold	oz	6.12
Apron XL	oz	7.93	Accent SP	oz	36.25
Apron XL LS	oz	7.93	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	6.00	Assure II	oz	0.70
Cruiser 5FS	oz	17.38	Atrazine 4L	pt	1.50
Delta Coat AD	oz	3.75	Atrazine 90DF	lb	2.80
Dithane F-45	qt	7.94	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	11.10
Manzate 75 DF	lb	4.83	Basagran	pt	11.88
Manzate Flowable	pt	4.60	Basis Gold	lb	9.00
Moncut 70 DF	lb	25.00	Beacon 75% WSP	oz	34.87
Orbit	oz	2.75	Beyond	oz	4.29
Prevail	lb	28.25	Bicep II Magnum	qt	10.97
Quadris	oz	1.95	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	14.20			
Rovral WG	lb	0.00			
Shelter	oz	8.50			
Stiletto	oz	0.56			
Stratego	pt	24.91			
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 2015.

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Blazer 2L	pt	0.00	Guardsman Max	pt	6.93
HERBICIDES (CON'T)			Harmony Extra	oz	14.35
Blazer Ultra	pt	9.56	Hoelon 3EC	pt	11.03
Boa	pt	3.63	Karmex DF	lb	5.93
Bolero 8EC	pt	7.50	LA Asulox/Asulam	gal	37.00
Boundary	pt	10.05	LA Weedmaster	qt	6.50
Buctril 4EC	pt	17.06	Lariat	qt	7.49
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	3.27	Layby Pro	qt	6.30
Butyrac 200 (2,4-DB)	pt	4.20	Lexone 75DF	lb	18.90
Canopy 75%	oz	2.69	Liberty	pt	8.84
Canopy XL	oz	2.23	Lightning	oz	14.25
Caparol 4L	pt	3.69	Lightning	oz	14.25
Caparol Accu-Pak	lb	0.00	Linex 4L	pt	12.12
Celebrity Plus	lb	84.50	Londax 60DF	oz	17.25
Clarity	pt	11.88	Lorox 50DF	lb	18.70
Classic	oz	16.28	MSMA 6.6	pt	3.50
Clincher EC	oz	2.30	MSMA6 + Surfactant	pt	2.63
Cobra 2EC	oz	1.61	Newpath 2SL	oz	3.47
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	16.88
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	11.95
Cornerstone	pt	2.50	Poast Plus	pt	8.66
Cotoran 4L	pt	5.98	Propanil 4E	qt	5.15
Cotoran DF	lb	7.92	Prowl 3.3 EC	pt	3.44
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	13.04
Cypro 90DF	lb	0.00	Raptor	oz	4.18
Delta Goal	pt	9.44	Reflex 2LC	pt	7.04
Denim 0.16 EC	pt	24.06	Regiment 80WP	oz	4.38
Detail	pt	7.99	Remedy	pt	8.45
Direx 4L	pt	2.81	Resource .86EC	pt	28.75
Direx 80 DF	lb	7.37	Ricestar	pt	22.55
Diuron 4L	pt	2.81	Roundup Original	pt	6.00
Diuron 80 DF	lb	2.70	Roundup Original Max	oz	0.38
Domain 60DF	lb	12.75	Roundup Power Max	pt	3.16
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	14.50	Roundup WeatherMax	oz	0.27
Dual Magnum	pt	13.49	Scepter 70 DG	oz	4.52
Duet	pt	4.99	Select 2EC	oz	0.77
Evik DF 80W	lb	11.75	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	4.27	Stam 4E	qt	5.12
Facet 75DF	lb	50.00	Stam 80 EDF	lb	8.04
First Rate	oz	38.78	Staple 85%	oz	16.01
Flexstar HL	pt	4.50	Staple Plus	oz	8.55
FloMet 4L	pt	4.74	Steadfast	oz	11.85
Freedom	qt	2.51	Steel	pt	10.28
Front Row	oz	21.92	Storm	pt	11.50
Frontier 6.0	oz	0.63	Strongarm	oz	51.20
Fultime	pt	5.25	Superwham	qt	8.83
Fusilade DX	oz	1.14	Suprend	lb	12.92
Fusion	pt	27.00	Surpass 20G	lb	2.36
Glyphos	pt	1.80	Surpass EC	qt	26.25
Glyphomax	pt	3.49	Touchdown	qt	9.32
Glyphosate Plus 4L	pt	3.19	Touchdown 4 IQ	pt	3.33
Glystar Plus	pt	2.25	Touchdown Total	qt	6.74
Goal 2XL	pt	10.00	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	28.38	Trifluralin 4EC	pt	3.34
Guardsman	pt	4.66	Trilin 10G	lb	0.79
			Trilin 4EC	pt	2.12

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

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	29.30
INSECTICIDES			Synthetic Pyrethroid	oz	0.00
Acephate 80SP	lb	0.00	Temik 15G Grit	lb	4.00
Acephate 90SP	lb	7.23	Thimet 20-G	lb	3.60
Admire 2 Flowable	oz	4.78	Thionex 3EC	pt	4.65
Ammo 2.5 EC	oz	0.92	Thionex 50W	lb	10.45
Asana .66 XL	oz	0.64	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	15.10	SEED/PLANTS		
Brigade WSB	lb	21.00	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	2.88
Centric 40WG	oz	4.83	Corn Seed RR	thous	3.08
Comite	pt	8.46	Corn Seed VT3	thous	2.84
Condor XL	pt	0.00	Corn Seed VT3Pro	thous	3.12
Confirm 2F	oz	2.05	Cotton Seed BG/RR	thous	0.62
Counter 15G	lb	4.22	Cotton Seed BGII/RRF	thous	0.61
Counter CR	lb	2.65	Cotton Seed Bt	thoud	0.28
Curacron 8E	pt	10.74	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	16.28	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	13.50	Cotton Seed WS/RRF	thous	0.59
Dipel ES	pt	5.00	Sorghum Concept	lb	2.28
Force 3G	lb	6.73	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	0.89
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	1.76	Soybean Seed RR	lb	1.11
Intruder 70WP	oz	9.65	Soybean Seed Stack	lb	1.28
Karate Z	oz	3.40	Wheat Seed Private	lb	0.32
Lannate LV	pt	10.34	Wheat Seed Public	lb	0.00
Lannate SP	oz	1.93	SERVICE FEE		
Larvin 3.2	oz	0.63	Cotton Checkoff	bale	2.56
Leverage 2.7	oz	1.66	Cotton Storage	bale	25.00
Lorsban 15G	lb	2.15	Crop Consultant	acre	7.00
Lorsban 4E	pt	5.63	Insect Scouting	acre	7.00
Malathion 57EC	pt	4.23	Rice Consultant	acre	7.00
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	1.60	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	12.85	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 2015.

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	12.55	26.79	0.00	39.34	0.00	39.34
Combine (200-249 hp)	240hp	161,548	300	8	12.35	12.55	33.83	16.82	63.21	64.41	127.63
Combine (225-274 hp)	Track250hp	0	300	8	12.87	12.55	35.26	0.00	47.81	0.00	47.81
Combine (250-299 hp)	275hp	291,000	300	8	14.15	12.55	38.77	30.31	81.63	116.03	197.67
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	12.55	41.59	22.73	76.87	87.01	163.89
Combine (275-299 hp)	Track290hp	0	300	8	14.93	12.55	40.90	0.00	53.45	0.00	53.45
Combine (300-349 hp)	325hp	325,000	300	8	16.73	12.55	45.84	33.85	92.24	129.59	221.84
Combine (300-349hp)	Track320hp	0	300	8	16.47	12.55	45.12	0.00	57.67	0.00	57.67
Combine (350-379 hp)	370hp	344,000	300	8	19.04	12.55	52.16	35.83	100.55	137.17	237.72
Combine (350-379 hp)	Track365hp	0	300	8	18.79	12.55	51.48	0.00	64.03	0.00	64.03
Cotton Stripper	173hp	170,000	200	8	8.08	12.55	22.13	26.56	61.25	101.68	162.93
Tractor(40-59hp)Cab	2WD 50	33,700	600	8	2.57	9.60	7.05	1.05	17.70	6.12	23.82
Tractor(40-59hp)Cab	MFWD 50	38,900	600	8	2.57	9.60	7.05	1.21	17.86	7.06	24.93
Tractor(40-59hp)RB	2WD 50	18,900	600	8	2.57	9.60	7.05	0.59	17.24	3.43	20.67
Tractor(40-59hp)RB	MFWD 50	26,200	600	8	2.57	9.60	7.05	0.81	17.47	4.75	22.22
Tractor(60-89hp)CAB	2WD 75	43,400	600	8	3.86	9.60	10.57	1.35	21.53	7.88	29.41
Tractor(60-89hp)CAB	MFWD 75	47,900	600	8	3.86	9.60	10.57	1.49	21.67	8.69	30.37
Tractor(60-89hp)RB	2WD 75	35,000	600	8	3.86	9.60	10.57	1.09	21.27	6.35	27.62
Tractor(60-89hp)RB	MFWD 75	39,600	600	8	3.86	9.60	10.57	1.23	21.41	7.19	28.60
Tractor(90-119hp)CB	2WD 105	63,100	600	8	5.40	9.60	14.80	1.97	26.38	11.45	37.84
Tractor(90-119hp)CB	MFWD 105	74,400	600	8	5.40	9.60	14.80	2.32	26.73	13.51	40.24
Tractor(90-119hp)RB	2WD 105	54,300	600	8	5.40	9.60	14.80	1.69	26.10	9.86	35.96
Tractor(90-119hp)RB	MFWD 105	56,900	600	8	5.40	9.60	14.80	1.77	26.18	10.33	36.52
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	9.60	18.33	3.00	30.94	17.48	48.43
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	9.60	18.33	3.56	31.49	20.70	52.20
Tractor(140-159hp)CB	2WD 150	127,000	600	8	7.72	9.60	21.15	3.96	34.72	23.06	57.78
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	9.60	21.15	4.46	35.22	25.97	61.19
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	9.60	23.97	4.87	38.45	29.71	68.16
Tractor(160-179hp)CB	MFWD 170	167,000	600	8	8.75	9.60	23.97	5.21	38.79	31.81	70.60
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	9.60	25.38	4.45	39.44	27.18	66.63
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	9.60	26.79	4.46	40.86	27.24	68.10
Tractor(180-199hp)CB	MFWD 190	160,000	600	8	9.77	9.60	26.79	5.00	41.39	30.47	71.87
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	9.60	31.73	4.59	45.92	28.01	73.94
Tractor(200-249hp)CB	MFWD 225	226,000	600	8	11.58	9.60	31.73	7.06	48.39	43.05	91.44
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	9.60	31.73	8.65	49.98	52.76	102.75
Tractor(250-349hp)CB	4WD 300	277,000	600	8	15.44	9.60	42.31	8.65	60.56	52.76	113.33
Tractor(250-349hp)CB	Track 300	281,000	600	8	15.44	9.60	42.31	8.78	60.69	53.52	114.22
Tractor(350-449hp)CB	4WD 400	313,000	600	8	20.58	9.60	56.41	9.78	75.79	59.62	135.41
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	9.60	56.41	11.37	77.38	69.33	146.72
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	9.60	66.99	8.74	85.33	53.31	138.65

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 2015.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.51	0.68	0.43	3.62	2.00	5.62
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	11.51	11.50	11.76	34.78	45.04	79.82
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.81	6.29	8.54	18.65	32.71	51.36
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.25	11.54	13.40	32.19	51.30	83.50
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.25	16.15	17.90	41.31	68.53	109.84
Cotton Picker-1st-BB	4R38"255hp	267,000	200	8	13.12	0.257	5.70	9.27	10.75	25.73	41.16	66.90
Cotton Picker-1st-BB	4R38"325hp	406,000	200	8	18.01	0.257	5.70	12.72	16.35	34.78	62.59	97.38
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.80	9.22	11.66	26.69	44.64	71.33
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.58	7.30	9.21	21.10	35.27	56.38
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.83	10.92	15.85	31.61	60.70	92.31
Cotton Picker-1st-BB	6R38"330hp	478,000	200	8	18.27	0.172	3.81	8.62	12.86	25.31	49.26	74.57
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.51	11.50	11.76	34.78	45.04	79.82
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.81	8.50	8.67	20.99	33.20	54.19
Cotton Picker-1st-Tr	4R30"325hp	261,825	200	8	12.86	0.327	7.25	11.54	13.39	32.18	51.26	83.45
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.25	15.00	15.91	38.17	60.91	99.08
Cotton Picker-1st-Tr	4R38"255hp	262,818	200	8	13.12	0.257	5.70	9.27	10.58	25.56	40.52	66.08
Cotton Picker-1st-Tr	4R38"325hp	325,618	200	8	18.01	0.257	5.70	12.72	13.11	31.54	50.20	81.75
Cotton Picker-1st-Tr	5R30"325hp	285,303	200	8	13.12	0.261	5.80	9.41	11.67	26.89	44.69	71.58
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.58	7.30	9.40	21.29	35.99	57.29
Cotton Picker-1st-Tr	6R30"325hp	429,000	200	8	16.72	0.218	4.83	10.00	14.62	29.46	56.00	85.47
Cotton Picker-1st-Tr	6R38"330hp	429,000	200	8	18.01	0.172	3.81	8.50	11.55	23.86	44.21	68.08
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.74	9.74	9.96	29.46	38.15	67.61
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.23	7.20	7.34	17.78	28.12	45.91
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.14	9.77	11.34	27.26	43.42	70.69
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.14	12.71	13.47	32.33	51.59	83.93
Cotton Picker-2nd-BB	4R38"255hp	262,818	200	8	13.12	0.218	4.83	7.85	8.96	21.65	34.32	55.98
Cotton Picker-2nd-BB	4R38"325hp	325,618	200	8	18.01	0.218	4.83	10.77	11.10	26.72	42.52	69.24
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	4.91	7.97	9.88	22.78	37.85	60.64
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.88	6.18	7.80	17.88	29.87	47.75
Cotton Picker-2nd-BB	6R30"325hp	405,906	200	8	18.01	0.184	4.09	9.12	11.72	24.94	44.88	69.82
Cotton Picker-2nd-BB	6R38"330hp	404,462	200	8	18.01	0.145	3.23	7.20	9.22	19.65	35.30	54.96
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.74	9.74	9.96	29.46	38.15	67.61
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.23	7.20	7.34	17.78	28.12	45.90
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.14	9.77	11.34	27.26	43.42	70.69
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.14	12.71	13.47	32.33	51.59	83.93
Cotton Picker-2nd-Tr	4R38"255hp	262,818	200	8	13.12	0.218	4.83	7.85	8.96	21.65	34.32	55.98
Cotton Picker-2nd-Tr	4R38"325hp	325,618	200	8	18.01	0.218	4.83	10.77	11.10	26.72	42.52	69.24
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	4.91	7.97	9.88	22.78	37.85	60.64
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.88	6.18	7.96	18.04	30.49	48.53
Cotton Picker-2nd-Tr	6R30"325hp	381,665	200	8	16.72	0.184	4.09	8.47	11.02	23.59	42.20	65.79
Cotton Picker-2nd-Tr	6R38"330hp	404,462	200	8	18.01	0.145	3.23	7.20	9.22	19.65	35.30	54.96
LA Pickup Truck	1/2 ton	25,000	800	5	2.50	1.000	9.60	8.50	2.81	20.91	6.54	27.45
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.66	0.27	0.06	0.99	0.40	1.40
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.30	0.27	0.09	0.67	0.62	1.29
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.22	0.20	0.07	0.50	0.46	0.97
Sprayer(600-750Gal)	60'	174,000	350	8	10.29	0.017	0.30	0.49	0.16	0.96	1.04	2.01
Sprayer(600-825Gal)	80'	254,000	350	8	10.29	0.013	0.22	0.37	0.17	0.78	1.14	1.92
Sprayer(600-825Gal)	90'	240,000	350	8	10.29	0.011	0.20	0.33	0.15	0.68	0.96	1.65
Sprayer(1000-1400Gal)	90'	290,000	350	8	14.15	0.014	0.24	0.54	0.21	1.01	1.39	2.40
Sprayer(1200PlusGal)	120'	318,000	350	8	15.44	0.008	0.15	0.37	0.15	0.67	0.95	1.63

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2015.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Blade-Box	6'	2WD 130	1,090	200	20	0.020	0.19	0.36	0.01	0.06	0.62	0.00	0.34	0.98
Blade-Box	10'	2WD 50	5,060	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	7,550	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	11.29	8.29	0.64	0.69	20.92	0.48	4.03	25.45
Blade-Scraper	10'	2WD 50	3,310	200	20	1.176	11.29	8.29	1.84	0.69	22.13	1.40	4.03	27.57
Blade-Scraper	14'	2WD 50	6,730	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	1.10	2.11	0.93	0.34	4.51	1.56	2.02	8.09
Chisel Plow(Folding)	24'	MFWD 190	37,200	150	12	0.076	0.73	2.04	1.02	0.38	4.19	1.71	2.33	8.23
Chisel Plow(Folding)	32'	MFWD 225	48,000	150	12	0.057	0.55	1.83	1.00	0.40	3.79	1.66	2.48	7.95
Chisel Plow(Folding)	42'	MFWD 225	55,200	150	12	0.044	0.42	1.39	0.87	0.31	3.00	1.46	1.89	6.36
Chisel Plow(Rigid)	15'	2WD 130	11,900	150	12	0.123	1.18	2.25	0.52	0.37	4.34	0.88	2.15	7.38
Chisel Plow(Rigid)	24'	MFWD 190	13,100	150	12	0.077	0.73	2.06	0.36	0.38	3.55	0.60	2.34	6.50
Chisel-Harrow	21 shank	2WD 190	12,500	150	12	0.088	0.84	2.35	0.39	0.39	3.99	0.66	2.39	7.05
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.65	2.17	0.34	0.48	3.66	0.58	2.94	7.19
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.84	2.35	0.61	0.39	4.20	1.01	2.39	7.62
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.65	2.17	0.59	0.48	3.90	0.98	2.94	7.84
Corn Grain Cart 8R30	500 bu	MFWD 190	24,700	200	12	0.031	0.30	0.85	0.21	0.15	1.53	0.35	0.97	2.86
Corn Grain Cart 8R40	700bu	MFWD 190	34,200	200	12	0.025	0.24	0.66	0.23	0.12	1.26	0.38	0.76	2.41
Cult & Post	4R-38	2WD 105	17,800	150	10	0.173	2.49	2.56	0.82	0.29	6.17	2.09	1.70	9.98
Cult & Post	6R-30	MFWD 150	21,900	150	10	0.146	4.22	3.10	0.85	0.65	8.83	2.18	3.80	14.83
Cult & Post	6R-38	MFWD 150	21,700	150	10	0.115	1.66	2.44	0.67	0.51	5.30	1.70	3.00	10.01
Cult & Post	8R-30	MFWD 190	25,600	150	10	0.110	1.58	2.94	0.75	0.55	5.83	1.91	3.35	11.09
Cult & Post	8R-38	MFWD 190	17,800	150	10	0.086	1.25	2.33	0.41	0.43	4.42	1.05	2.65	8.13
Cult & Post	8R-38 2x1	MFWD 190	37,100	150	10	0.057	0.83	1.55	0.57	0.28	3.24	1.46	1.76	6.47
Cult & Post	10R-30	MFWD 225	34,600	150	10	0.088	1.26	2.79	0.81	0.62	5.49	2.06	3.78	11.35
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	0.93	2.06	0.00	0.45	3.46	0.00	2.80	6.26
Cult & Post	12R-30	MFWD 225	42,200	150	10	0.073	1.05	2.32	0.82	0.51	4.72	2.10	3.15	9.98
Cult & Post	12R-38	MFWD 225	44,700	150	10	0.057	0.83	1.83	0.69	0.40	3.76	1.75	2.49	8.02
Cultipacker	12'	2WD 130	4,846	300	12	0.124	1.19	2.28	0.14	0.37	3.99	0.18	2.17	6.35
Cultipacker	20'	MFWD 150	15,200	300	12	0.074	0.71	1.57	0.26	0.33	2.89	0.35	1.93	5.19
Cultivate	4R-38	2WD 105	11,900	150	10	0.162	1.55	2.40	0.51	0.27	4.75	1.31	1.60	7.67
Cultivate	6R-30	MFWD 150	15,900	150	10	0.137	1.32	2.90	0.58	0.61	5.42	1.48	3.57	10.48
Cultivate	6R-38	MFWD 150	15,700	150	10	0.108	1.04	2.29	0.45	0.48	4.27	1.15	2.81	8.25
Cultivate	8R-30	MFWD 190	20,600	150	10	0.103	0.99	2.76	0.56	0.51	4.83	1.44	3.14	9.42
Cultivate	8R-38	MFWD 190	21,800	150	10	0.081	0.78	2.18	0.47	0.40	3.84	1.20	2.48	7.54
Cultivate	8R-38 2x1	MFWD 190	29,700	150	10	0.054	0.52	1.45	0.42	0.27	2.67	1.09	1.65	5.42
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.79	2.61	0.62	0.58	4.61	1.58	3.55	9.74
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.62	2.06	0.00	0.45	3.14	0.00	2.80	5.94
Cultivate	12R-30	MFWD 225	36,300	150	10	0.068	0.66	2.18	0.66	0.48	3.99	1.69	2.95	8.64
Cultivate	12R-38	MFWD 225	37,400	150	10	0.054	0.52	1.72	0.54	0.38	3.16	1.37	2.33	6.88
Disk & Incorporate	14'	2WD 130	27,800	200	10	0.149	2.15	2.74	1.24	0.45	6.59	2.12	2.61	11.33
Disk & Incorporate	24'	MFWD 190	41,400	200	10	0.087	1.25	2.33	1.08	0.43	5.11	1.84	2.66	9.62
Disk & Incorporate	32'	4WD 225	56,800	200	10	0.068	0.99	2.18	1.17	0.31	4.65	1.99	1.92	8.57
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.70	1.55	0.44	0.34	3.06	0.76	2.11	5.94
Disk Bed (Hipper)	4R-38	MFWD 150	7,820	160	10	0.147	1.41	3.12	0.28	0.65	5.48	0.73	3.83	10.05
Disk Bed (Hipper)	6R-30	MFWD 170	12,800	160	10	0.125	1.20	2.99	0.40	0.65	5.24	1.01	3.97	10.24
Disk Bed (Hipper)	6R-38	MFWD 170	13,500	160	10	0.098	0.94	2.36	0.33	0.51	4.16	0.84	3.13	8.14
Disk Bed (Hipper)	8R-30	MFWD 190	17,400	160	10	0.093	0.90	2.51	0.40	0.46	4.28	1.03	2.85	8.18
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	31,900	160	10	0.049	0.47	1.32	0.39	0.24	2.43	1.00	1.50	4.94
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.72	2.37	0.37	0.52	4.00	0.95	3.22	8.18
Disk Bed (Hipper)	10R-38	MFWD 225	23,000	160	10	0.059	0.56	1.87	0.34	0.41	3.20	0.86	2.54	6.61
Disk Bed (Hipper)	12R-30	MFWD 225	28,100	160	10	0.062	0.60	1.98	0.43	0.44	3.46	1.11	2.69	7.27
Disk Bed (Hipper)	12R-38	MFWD 225	31,900	160	10	0.049	0.47	1.56	0.39	0.34	2.78	1.00	2.12	5.90
Disk Bed (Hipper)Fld	8R-38	MFWD 190	21,300	160	10	0.074	0.71	1.98	0.39	0.37	3.46	1.00	2.25	6.72
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	19,800	160	10	0.074	0.71	1.98	0.36	0.37	3.43	0.93	2.25	6.62
Disk Bed w/roller	8R-30	2WD 190	22,100	160	10	0.093	0.90	2.51	0.51	0.41	4.34	1.32	2.55	8.22
Disk Bed w/roller	12R-30	MFWD 225	47,200	160	10	0.062	0.60	1.98	0.73	0.44	3.76	1.87	2.69	8.33
Disk Harrow	14'	2WD 130	21,800	180	10	0.140	1.34	2.57	0.84	0.42	5.19	1.73	2.45	9.37
Disk Harrow	24'	MFWD 190	42,600	180	10	0.081	0.78	2.19	0.96	0.40	4.35	1.97	2.49	8.82
Disk Harrow	28'	MFWD 225	45,200	180	10	0.070	0.67	2.22	0.88	0.49	4.27	1.79	3.02	9.09
Disk Harrow	32'	MFWD 225	50,800	180	10	0.061	0.58	1.95	0.86	0.43	3.84	1.76	2.64	8.25
Disk Harrow	42'	MFWD 225	99,500	180	10	0.046	0.44	1.48	1.29	0.33	3.55	2.63	2.01	8.20
Ditcher		2WD 130	4,910	200	10	0.020	0.19	0.36	0.03	0.06	0.65	0.05	0.34	1.05
Ditcher (1m/160a)		2WD 130	4,910	200	10	0.009	0.09	0.17	0.01	0.02	0.30	0.02	0.16	0.49
Fert Appl (Liquid)	4R-38	MFWD 150	13,500	150	8	0.154	2.22	3.27	1.39	0.69	7.58	1.51	4.01	13.11
Fert Appl (Liquid)	6R-30	MFWD 170	16,300	150	8	0.130	1.88	3.13	1.42	0.68	7.13	1.55	4.16	12.84
Fert Appl (Liquid)	6R-38	MFWD 170	14,500	150	8	0.103	1.48	2.47	0.99	0.53	5.50	1.08	3.28	9.88
Fert Appl (Liquid)	8R-30	MFWD 190	15,200	150	8	0.098	1.41	2.63	0.99	0.49	5.53	1.08	2.99	9.60
Fert Appl (Liquid)	8R-38	MFWD 190	17,300	150	8	0.077	1.11	2.08	0.89	0.38	4.48	0.97	2.36	7.82
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	16,900	150	8	0.051	0.74	1.38	0.58	0.25	2.97	0.63	1.57	5.18
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.13	2.49	0.97	0.55	5.15	1.06	3.38	9.59
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	0.89	1.96	0.83	0.43	4.13	0.91	2.66	7.71
Fert Appl (Liquid)	12R-30	MFWD 225	19,400	150	8	0.078	1.13	2.49	1.01	0.55	5.19	1.10	3.38	9.68
Fert Appl (Liquid)	12R-38	MFWD 225	17,400	150	8	0.051	0.74	1.64	0.59	0.36	3.34	0.65	2.22	6.22
Field Cult & Inc	12'	2WD 150	13,605	100	10	0.132	1.90	2.79	0.44	0.52	5.67	1.83	3.04	10.55
Field Cult & Inc	24'	MFWD 170	24,679	100	10	0.066	0.95	1.58	0.40	0.34	3.28	1.66	2.10	7.05

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2015.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
Field Cultivate	12'	2WD 150	16,600	100	10	0.124	1.19	2.63	0.51	0.49	4.83	2.10	2.86	9.81
Field Cultivate	24'	MFWD 170	26,000	100	10	0.062	0.59	1.49	0.40	0.32	2.81	1.64	1.97	6.44
Field Cultivate	32'	MFWD 190	39,500	100	10	0.046	0.44	1.25	0.46	0.23	2.39	1.87	1.42	5.69
Field Cultivate	42'	MFWD 225	51,500	100	10	0.035	0.34	1.12	0.45	0.25	2.17	1.86	1.53	5.57
Field Cultivate	50'	MFWD 225	61,300	100	10	0.029	0.28	0.94	0.45	0.21	1.90	1.86	1.28	5.05
Gate Installer		2WD 130	2,960	10	10	0.020	0.38	0.36	0.17	0.06	0.98	0.57	0.34	1.91
Grain Drill	12'	2WD 130	22,700	150	8	0.157	3.01	2.88	1.33	0.47	7.70	2.46	2.74	12.92
Grain Drill	15'	MFWD 150	30,500	150	8	0.125	2.41	2.65	1.43	0.56	7.07	2.64	3.26	12.98
Grain Drill	20'	MFWD 170	37,600	150	8	0.094	1.81	2.26	1.32	0.49	5.89	2.44	2.99	11.34
Grain Drill	24'	MFWD 190	56,700	150	8	0.078	1.50	2.10	1.67	0.39	5.67	3.07	2.39	11.15
Grain Drill	30'	MFWD 225	61,300	150	8	0.062	1.20	1.99	1.44	0.44	5.09	2.66	2.70	10.45
Grain Drill & Pre	12'	2WD 130	28,700	150	8	0.169	3.24	3.10	1.82	0.50	8.68	3.35	2.95	14.99
Grain Drill & Pre	15'	MFWD 150	36,500	150	8	0.135	2.59	2.86	1.85	0.60	7.92	3.41	3.51	14.85
Grain Drill & Pre	20'	MFWD 170	43,500	150	8	0.101	1.94	2.43	1.65	0.52	6.57	3.05	3.23	12.85
Grain Drill & Pre	24'	MFWD 190	59,500	150	8	0.084	1.62	2.26	1.88	0.42	6.20	3.47	2.57	12.26
Grain Drill & Pre	30'	MFWD 225	68,700	150	8	0.067	1.29	2.14	1.74	0.47	5.66	3.21	2.91	11.79
Harrow	13'	2WD 130	4,360	200	10	0.119	1.14	2.19	0.18	0.35	3.87	0.26	2.08	6.23
Harrow	21'	2WD 150	5,400	200	10	0.073	0.70	1.56	0.13	0.29	2.70	0.20	1.70	4.61
Harrow	40'	MFWD 190	16,700	200	10	0.038	0.37	1.04	0.22	0.19	1.83	0.33	1.18	3.34
Harrow	47'	MFWD 190	21,000	200	10	0.033	0.31	0.88	0.24	0.16	1.61	0.35	1.00	2.97
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.52	6.80	1.26	3.38	13.97	1.83	12.95	28.77
Header - Corn	6R30"	240hp	43,500	300	8	0.170	2.13	5.76	1.85	2.86	12.61	2.69	10.96	26.27
Header - Corn	6R38"	240hp	44,700	300	8	0.134	1.68	4.54	1.50	2.26	10.00	2.18	8.65	20.84
Header - Corn	8R-30	240hp	56,200	300	8	0.127	1.60	4.32	1.79	2.14	9.86	2.60	8.22	20.70
Header - Corn	8R-38	275hp	57,600	300	8	0.100	1.26	3.91	1.45	3.06	9.69	2.11	11.71	23.52
Header - Corn	12R-20	275hp	76,400	300	8	0.127	1.60	4.95	2.43	3.87	12.86	3.54	14.81	31.22
Header - Corn	12R-30	275hp	87,700	300	8	0.085	1.06	3.30	1.86	2.58	8.81	2.71	9.87	21.40
Header - Rice (CL)	22' Rigid	240hp	21,887	300	8	0.288	3.62	9.76	1.57	4.85	19.81	2.29	18.58	40.68
Header - Rice (CL)	25' Rigid	240hp	51,600	300	8	0.253	3.18	8.59	3.27	4.27	19.32	4.75	16.35	40.43
Header - Rice (CL)	30' Rigid	275hp	59,000	300	8	0.211	2.65	8.20	3.12	6.41	20.38	4.53	24.54	49.46
Header - Rice (SL)	22' Rigid	240hp	21,887	300	8	0.250	3.13	8.45	1.36	4.20	17.17	1.98	16.10	35.26
Header - Rice (SL)	25' Rigid	240hp	51,600	300	8	0.220	2.76	7.44	2.83	3.70	16.74	4.12	14.17	35.04
Header - Rice (SL)	30' Rigid	275hp	59,000	300	8	0.183	2.30	7.10	2.70	5.55	17.66	3.92	21.27	42.87
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.13	5.76	0.00	2.86	10.76	0.00	10.96	21.73
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.78	4.80	0.72	2.38	9.69	1.04	9.14	19.87
Header - Soybean	22' Flex	240hp	28,900	300	8	0.116	1.45	3.92	0.83	1.95	8.17	1.21	7.47	16.87
Header - Soybean	25' Flex	275hp	32,700	300	8	0.102	1.28	3.96	0.83	3.09	9.17	1.21	11.85	22.24
Header - Soybean	30' Flex	275hp	31,200	300	8	0.085	1.06	3.30	0.66	2.58	7.61	0.96	9.87	18.45
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.78	4.80	0.67	2.38	9.64	0.98	9.14	19.77
Header Wheat/Sorghum	22' Rigid	240hp	19,500	300	8	0.116	1.45	3.92	0.56	1.95	7.90	0.82	7.47	16.20
Header Wheat/Sorghum	25' Rigid	240hp	27,300	300	8	0.102	1.28	3.45	0.69	1.71	7.15	1.01	6.58	14.75
Header Wheat/Sorghum	30' Rigid	275hp	30,300	300	8	0.085	1.06	3.30	0.64	2.58	7.59	0.93	9.87	18.41
Heavy Disk	14'	MFWD 150	21,900	180	10	0.145	1.40	3.08	0.88	0.65	6.02	1.81	3.79	11.62
Heavy Disk	21'	MFWD 170	34,500	180	10	0.097	0.93	2.33	0.93	0.50	4.70	1.90	3.09	9.70
Heavy Disk	27'	MFWD 190	41,400	180	10	0.075	0.72	2.02	0.87	0.37	4.00	1.77	2.30	8.08
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.57	1.26	0.13	0.26	2.24	0.14	1.55	3.94
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.32	6.50	0.29	1.21	10.33	0.74	7.39	18.47
Land Plane	50'x16'	MFWD 190	12,300	200	10	0.151	1.45	4.06	0.37	0.75	6.65	0.95	4.62	12.22
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	4.80	10.57	2.64	2.23	20.25	3.54	12.98	36.78
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	1.82	4.02	0.15	0.84	6.85	0.62	4.93	12.42
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.48	2.11	0.07	0.43	3.10	0.18	2.63	5.92
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.43	6.34	0.23	1.29	9.31	0.46	7.91	17.68
Levee Splitter (1/80	2 blade	2WD 150	3,280	50	10	0.004	0.04	0.08	0.00	0.01	0.14	0.02	0.09	0.27
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.39	3.90	0.26	0.72	6.29	0.46	4.43	11.19
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.15	2.54	0.36	0.53	4.59	1.09	3.12	8.81
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.09	3.05	0.55	0.57	5.28	1.69	3.48	10.46
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.86	2.41	0.38	0.45	4.11	1.16	2.75	8.03
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.57	1.61	0.41	0.30	2.89	1.25	1.83	5.98
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.87	2.89	0.62	0.64	5.04	1.91	3.93	10.89
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.69	2.28	0.54	0.50	4.02	1.65	3.10	8.78
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.57	1.90	0.41	0.42	3.31	1.25	2.58	7.16
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.65	2.16	0.00	0.48	3.29	0.00	2.93	6.22
NT Grain Drill	12'	2WD 130	42,000	150	8	0.163	3.14	3.00	2.57	0.49	9.21	4.74	2.86	16.82
NT Grain Drill	15'	MFWD 150	48,800	150	8	0.130	2.51	2.77	2.39	0.58	8.26	4.41	3.40	16.08
NT Grain Drill	20'	MFWD 170	64,400	150	8	0.098	1.88	2.35	2.37	0.51	7.12	4.36	3.12	14.61
NT Grain Drill	24'	MFWD 190	79,200	150	8	0.081	1.57	2.19	2.43	0.40	6.60	4.47	2.49	13.57
NT Grain Drill	30'	MFWD 225	90,600	150	8	0.065	1.25	2.07	2.22	0.46	6.02	4.09	2.81	12.93
NT Grain Drill & Pre	12'	2WD 130	39,500	150	8	0.176	3.38	3.23	2.61	0.53	9.75	4.81	3.08	17.65
NT Grain Drill & Pre	15'	MFWD 150	54,800	150	8	0.141	2.70	2.98	2.89	0.63	9.21	5.33	3.66	18.22
NT Grain Drill & Pre	20'	MFWD 170	70,400	150	8	0.105	2.03	2.53	2.79	0.55	7.91	5.14	3.36	16.42
NT Grain Drill & Pre	24'	MFWD 190	85,200	150	8	0.088	1.69	2.36	2.81	0.44	7.31	5.18	2.68	15.18
NT Grain Drill & Pre	30'	MFWD 225	98,000	150	8	0.070	1.35	2.23	2.59	0.49	6.68	4.77	3.03	14.49
NT Plant&Pre-Folding	8R-38	MFWD 170	48,000	150	8	0.083	1.60	2.00	1.50	0.43	5.55	2.77	2.65	10.98

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2015.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	---Fixed---		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
NT Grain Drill & Pre	15'	MFWD 150	54,800	150	8	0.141	2.70	2.98	2.89	0.63	9.21	5.33	3.66	18.22
NT Grain Drill & Pre	20'	MFWD 170	70,400	150	8	0.105	2.03	2.53	2.79	0.55	7.91	5.14	3.36	16.42
NT Grain Drill & Pre	24'	MFWD 190	85,200	150	8	0.088	1.69	2.36	2.81	0.44	7.31	5.18	2.68	15.18
NT Grain Drill & Pre	30'	MFWD 225	98,000	150	8	0.070	1.35	2.23	2.59	0.49	6.68	4.77	3.03	14.49
NT Plant&Pre-Folding	8R-38	MFWD 170	48,000	150	8	0.083	1.60	2.00	1.50	0.43	5.55	2.77	2.65	10.98
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	80,800	150	8	0.055	1.06	1.33	1.68	0.29	4.38	3.10	1.77	9.25
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.62	2.26	1.82	0.42	6.14	3.36	2.57	12.08
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.28	1.78	1.32	0.33	4.72	2.43	2.03	9.19
NT Plant&Pre-Folding	12R-20	MFWD 190	70,200	150	8	0.105	2.03	2.83	2.78	0.52	8.17	5.12	3.22	16.53
NT Plant&Pre-Folding	12R-30	MFWD 190	72,000	150	8	0.070	1.35	1.88	1.90	0.35	5.49	3.50	2.14	11.15
NT Plant&Pre-Folding	12R-38	MFWD 190	80,800	150	8	0.055	1.06	1.49	1.68	0.27	4.52	3.10	1.69	9.32
NT Plant&Pre-Folding	16R-30	MFWD 190	101,000	150	8	0.052	1.01	1.41	2.00	0.26	4.69	3.69	1.61	10.00
NT Plant&Pre-Folding	23R-15	MFWD 190	129,000	150	8	0.073	1.41	1.96	3.55	0.36	7.29	6.54	2.23	16.08
NT Plant&Pre-Folding	24R-20	MFWD 190	143,000	150	8	0.052	1.01	1.41	2.83	0.26	5.53	5.22	1.61	12.36
NT Plant&Pre-Folding	24R-30	MFWD 190	188,000	150	8	0.035	0.67	0.94	2.48	0.17	4.28	4.57	1.07	9.93
NT Plant&Pre-Rigid	4R-30	2WD 130	26,600	150	8	0.211	4.06	3.87	2.11	0.63	10.68	3.88	3.69	18.27
NT Plant&Pre-Rigid	4R-38	2WD 130	28,800	150	8	0.166	3.19	3.05	1.79	0.50	8.55	3.31	2.91	14.77
NT Plant&Pre-Rigid	6R-30	MFWD 150	36,900	150	8	0.141	2.70	2.98	1.95	0.63	8.27	3.59	3.66	15.53
NT Plant&Pre-Rigid	6R-38	MFWD 150	33,100	150	8	0.111	2.13	2.35	1.38	0.49	6.37	2.54	2.89	11.81
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.76	3.45	1.41	0.75	8.37	2.60	4.57	15.56
NT Plant&Pre-Rigid	8R-30	MFWD 170	42,200	150	8	0.105	2.03	2.53	1.67	0.55	6.79	3.08	3.36	13.24
NT Plant&Pre-Rigid	8R-38	MFWD 170	39,300	150	8	0.077	1.48	1.85	1.13	0.40	4.87	2.09	2.45	9.42
NT Plant&Pre-Rigid	10R-30	MFWD 190	46,300	150	8	0.084	1.62	2.26	1.46	0.42	5.78	2.70	2.57	11.06
NT Plant&Pre-Rigid	12R-20	MFWD 190	52,100	150	8	0.105	2.03	2.83	2.06	0.52	7.46	3.80	3.22	14.49
NT Plant&Pre-Rigid	12R-30	MFWD 190	64,700	150	8	0.070	1.35	1.88	1.71	0.35	5.30	3.15	2.14	10.60
Paratill & Bed	4R-30	MFWD 225	16,500	150	12	0.204	1.96	6.48	1.21	1.44	11.10	2.02	8.79	21.93
Paratill & Bed	4R-38	MFWD 225	15,200	150	12	0.160	1.54	5.10	0.88	1.13	8.66	1.47	6.92	17.06
Paratill & Bed	6R-30	MFWD 225	22,600	150	12	0.136	1.30	4.32	1.11	0.96	7.70	1.85	5.86	15.42
Paratill & Bed	6R-38	MFWD 225	20,300	150	12	0.107	1.03	3.41	0.78	0.75	5.99	1.31	4.62	11.93
Paratill & Bed	8R-30	MFWD 225	28,100	150	12	0.102	0.98	3.24	1.03	0.72	5.98	1.72	4.39	12.10
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.51	1.70	1.34	0.37	3.94	2.23	2.31	8.49
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.77	2.56	1.58	0.57	5.49	2.64	3.47	11.61
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.51	1.70	1.34	0.37	3.94	2.23	2.31	8.49
Paratill & Bed Rigid	8R-38	MFWD 225	24,500	150	12	0.080	0.77	2.56	0.71	0.57	4.62	1.19	3.47	9.29
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.49	1.09	0.00	0.20	1.80	0.02	1.19	3.02
Pipe Spool 160ac	1/4m roll	2WD 130	3,380	15	12	0.003	0.09	0.05	0.00	0.00	0.16	0.06	0.05	0.28
Pipe Trailer 1m/160a	30'	2WD 130	1,330	100	15	0.003	0.18	0.06	0.00	0.01	0.26	0.00	0.06	0.33
Plant & Pre Folding	8R-38	MFWD 170	45,900	150	8	0.080	1.54	1.92	1.38	0.41	5.26	2.54	2.55	10.36
Plant & Pre Folding	8R38 2x1	MFWD 170	77,600	150	8	0.053	1.02	1.28	1.55	0.27	4.14	2.86	1.70	8.70
Plant & Pre Folding	10R-30	MFWD 190	52,920	150	8	0.081	1.55	2.17	1.61	0.40	5.75	2.96	2.47	11.20
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.22	1.71	1.15	0.32	4.42	2.13	1.95	8.51
Plant & Pre Folding	12R-20	MFWD 190	66,900	150	8	0.101	1.94	2.72	2.54	0.50	7.72	4.69	3.09	15.51
Plant & Pre Folding	12R-30	MFWD 190	68,700	150	8	0.067	1.29	1.81	1.74	0.33	5.19	3.21	2.06	10.47
Plant & Pre Folding	12R-38	MFWD 190	77,600	150	8	0.053	1.02	1.43	1.55	0.26	4.28	2.86	1.62	8.77
Plant & Pre Folding	16R-30	MFWD 190	96,200	150	8	0.050	0.97	1.36	1.83	0.25	4.42	3.37	1.54	9.34
Plant & Pre Folding	23R-15	MFWD 190	123,000	150	8	0.070	1.35	1.88	3.25	0.35	6.84	5.99	2.14	14.98
Plant & Pre Folding	24R-20	MFWD 190	137,000	150	8	0.050	0.97	1.36	2.60	0.25	5.19	4.80	1.54	11.55
Plant & Pre Folding	24R-30	MFWD 190	182,000	150	8	0.033	0.64	0.90	2.30	0.16	4.03	4.25	1.03	9.32
Plant & Pre Rigid	4R-30	2WD 130	22,500	150	8	0.203	3.89	3.72	1.71	0.61	9.94	3.15	3.55	16.65
Plant & Pre Rigid	4R-38	2WD 130	27,700	150	8	0.159	3.07	2.93	1.66	0.48	8.14	3.06	2.79	14.00
Plant & Pre Rigid	6R-30	MFWD 150	33,100	150	8	0.135	2.59	2.86	1.68	0.60	7.74	3.09	3.51	14.36
Plant & Pre Rigid	6R-38	MFWD 150	31,400	150	8	0.106	2.05	2.26	1.25	0.47	6.04	2.31	2.77	11.14
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	2.65	3.31	1.22	0.72	7.90	2.24	4.39	14.54
Plant & Pre Rigid	8R-30	MFWD 170	40,100	150	8	0.101	1.94	2.43	1.52	0.52	6.44	2.81	3.23	12.48
Plant & Pre Rigid	8R-38	MFWD 170	37,600	150	8	0.080	1.54	1.92	1.13	0.41	5.01	2.08	2.55	9.65
Plant & Pre Rigid	10R-30	MFWD 190	43,600	150	8	0.081	1.55	2.17	1.32	0.40	5.47	2.44	2.47	10.39
Plant & Pre Rigid	12R-20	MFWD 190	48,900	150	8	0.101	1.94	2.72	1.86	0.50	7.04	3.43	3.09	13.56
Plant & Pre Rigid	12R-30	MFWD 190	61,400	150	8	0.067	1.29	1.81	1.55	0.33	5.01	2.87	2.06	9.94
Plant - Folding	8R-38	MFWD 170	39,900	150	8	0.074	1.43	1.78	1.11	0.38	4.72	2.05	2.37	9.14
Plant - Folding	8R-38 2x1	MFWD 170	70,200	150	8	0.049	0.95	1.18	1.30	0.25	3.70	2.40	1.57	7.69
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.44	2.02	1.34	0.37	5.18	2.47	2.29	9.95
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.14	1.59	0.95	0.29	3.99	1.76	1.81	7.57
Plant - Folding	12R-20	MFWD 190	61,000	150	8	0.094	1.81	2.52	2.15	0.47	6.96	3.97	2.87	13.81
Plant - Folding	12R-30	MFWD 190	61,400	150	8	0.062	1.20	1.68	1.44	0.31	4.65	2.66	1.91	9.23
Plant - Folding	12R-38	MFWD 190	70,200	150	8	0.049	0.95	1.32	1.30	0.24	3.83	2.40	1.51	7.75
Plant - Folding	16R-30	MFWD 190	88,900	150	8	0.047	0.90	1.26	1.57	0.23	3.97	2.89	1.43	8.30
Plant - Folding	23R-15	MFWD 190	116,000	150	8	0.065	1.25	1.75	2.84	0.32	6.18	5.24	1.99	13.43
Plant - Folding	24R-20	MFWD 190	129,000	150	8	0.047	0.90	1.26	2.28	0.23	4.68	4.20	1.43	10.32
Plant - Folding	24R-30	MFWD 190	172,000	150	8	0.031	0.60	0.84	2.02	0.15	3.62	3.73	0.95	8.32
Plant - Rigid	4R-30	2WD 130	19,600	150	8	0.188	3.62	3.45	1.38	0.56	9.03	2.55	3.29	14.88
Plant - Rigid	4R-38	2WD 130	21,500	150	8	0.148	2.85	2.72	1.19	0.44	7.21	2.20	2.59	12.01
Plant - Rigid	6R-30	MFWD 150	29,300	150	8	0.125	2.41	2.65	1.38	0.56	7.01	2.54	3.26	12.82
Plant - Rigid	6R-38	MFWD 150	25,500	150	8	0.099	1.90	2.09	0.94	0.44	5.39	1.74	2.57	9.72
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.45	3.06	0.88	0.66	7.07	1.63	4.06	12.77
Plant - Rigid	8R-30	MFWD 170	34,100	150	8	0.094	1.81	2.26	1.20	0.49	5.76	2.22	2.99	10.98
Plant - Rigid	8R-38	MFWD 170	31,700	150	8	0.074	1.43	1.78	0.88	0.38	4.49	1.63	2.37	8.49
Plant - Rigid	10R-30	MFWD 190	37,600	150	8	0.075	1.44	2.02	1.06	0.37	4.91	1.95	2.29	9.16
Plant - Rigid	12R-20	MFWD 190	42,900	150	8	0.094	1.81	2.52	1.51	0.47	6.32	2.79	2.87	11.99
Plant - Rigid	12R-30	MFWD 190	54,100	150	8	0.062	1.20	1.68	1.27	0.31	4.48	2.34	1.91	8.74
Plant - Rigid	15R-15	2WD 150	51,400	150	8	0.094	1.81	1.99	1.81	0.37	5.99	3.34	2.17	11.51
Pull Levee (1m/80a)	4 blade	2WD 50	3,180	100	10	0.003	0.03	0.02	0.00	0.00	0.06	0.01	0.01	0.08

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2015.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Rice Grain Cart	500 Bu	MFWD 190	24,700	200	12	0.057	0.54	1.53	0.38	0.28	2.74	0.63	1.74	5.12
Rice Grain Cart	700 Bu	MFWD 190	34,200	200	12	0.063	0.60	1.70	0.58	0.31	3.21	0.97	1.93	6.12
Roller	32'	MFWD 170	17,500	100	12	0.046	0.44	1.11	0.13	0.24	1.94	0.73	1.48	4.16
Rotary Cutter	7'	MFWD 130	4,380	185	10	0.168	1.61	3.08	0.59	0.59	5.90	0.40	3.48	9.79
Rotary Cutter	12'	2WD 150	12,600	185	10	0.098	0.94	2.07	1.00	0.38	4.41	0.68	2.26	7.36
Rotary Cutter	15'	MFWD 150	19,000	185	10	0.078	0.75	1.66	1.21	0.35	3.97	0.82	2.04	6.84
Row Cond & Inc	13'	2WD 130	13,300	100	10	0.137	1.98	2.52	0.45	0.41	5.38	1.87	2.41	9.67
Row Cond & Inc	21'	2WD 170	19,700	100	10	0.085	1.22	2.04	0.42	0.41	4.11	1.71	2.53	8.36
Row Cond & Inc	26'	MFWD 190	18,700	100	10	0.063	0.91	1.69	0.29	0.31	3.22	1.20	1.93	6.36
Row Cond & Inc	38'	MFWD 225	27,100	100	10	0.047	0.67	1.49	0.31	0.33	2.83	1.30	2.03	6.16
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.57	1.27	0.20	0.28	2.34	0.83	1.73	4.90
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.10	2.10	0.20	0.34	3.76	0.85	2.00	6.62
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.68	1.70	0.21	0.34	2.94	0.87	2.11	5.93
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.55	1.53	0.17	0.28	2.55	0.72	1.75	5.03
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.37	1.24	0.21	0.27	2.12	0.88	1.69	4.70
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.34	1.12	0.13	0.25	1.85	0.56	1.53	3.95
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.50	2.88	0.27	0.47	5.14	1.14	2.74	9.03
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	0.93	2.33	0.28	0.47	4.02	1.16	2.89	8.07
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.75	2.10	0.24	0.39	3.49	0.99	2.39	6.88
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.51	1.70	0.22	0.37	2.82	0.90	2.31	6.04
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.46	1.54	0.18	0.34	2.54	0.77	2.09	5.41
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	0.99	2.47	1.02	0.50	4.99	1.00	3.06	9.05
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.66	1.84	0.98	0.30	3.79	0.96	1.87	6.63
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.23	3.09	1.28	0.62	6.23	1.25	3.83	11.32
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.82	2.30	1.23	0.38	4.74	1.20	2.34	8.29
RT Cult + PD (Early)	8R-30	2WD 150	26,264	200	12	0.110	1.58	2.32	1.38	0.43	5.73	1.35	2.53	9.61
RT Cult + PD (Early)	12R-30	MFWD 225	35,493	200	12	0.073	1.05	2.32	1.24	0.51	5.14	1.21	3.15	9.52
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	1.97	3.29	1.73	0.67	7.67	1.68	4.08	13.45
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.31	2.45	1.55	0.40	5.74	1.52	2.49	9.76
Spin Spreader	5 ton	MFWD 190	10,800	100	8	0.042	0.80	1.12	0.25	0.21	2.40	0.49	1.28	4.18
Spin Spreader	5 ton	MFWD 190	10,800	100	8	0.042	0.80	1.12	0.25	0.21	2.40	0.49	1.28	4.18
Spray (Band)	27'	MFWD 170	5,940	200	8	0.062	0.90	1.50	0.17	0.32	2.90	0.20	1.99	5.10
Spray (Band)	40'	MFWD 170	7,350	200	8	0.042	0.60	1.01	0.14	0.22	1.99	0.16	1.34	3.50
Spray (Band)	50'	MFWD 170	6,730	200	8	0.033	0.48	0.81	0.10	0.17	1.58	0.12	1.07	2.78
Spray (Band)	53'	MFWD 170	7,650	200	8	0.031	0.45	0.76	0.11	0.16	1.50	0.13	1.01	2.65
Spray (Band)	60'	MFWD 170	10,000	200	8	0.028	0.40	0.67	0.13	0.14	1.36	0.15	0.89	2.41
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,810	200	8	0.130	1.87	2.75	0.35	0.58	5.56	0.41	3.38	9.35
Spray (Bcast/HB)	20' Rigid	2WD 50	6,840	200	8	0.084	1.21	0.59	0.27	0.04	2.13	0.31	0.29	2.74
Spray (Bcast/HB)	27' Fold	MFWD 170	10,700	200	8	0.062	0.90	1.50	0.31	0.32	3.04	0.36	1.99	5.40
Spray (Bcast/HB)	27' Rigid	MFWD 170	7,890	200	8	0.062	0.90	1.50	0.23	0.32	2.96	0.26	1.99	5.22
Spray (Bcast/HB)	30' Fold	MFWD 170	15,300	200	8	0.056	0.81	1.35	0.40	0.29	2.86	0.47	1.79	5.12
Spray (Bcast/HB)	40' Fold	MFWD 170	17,400	200	8	0.042	0.60	1.01	0.34	0.22	2.18	0.40	1.34	3.93
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	0.90	1.50	0.65	0.32	3.39	0.76	1.99	6.14
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.60	1.01	0.63	0.22	2.48	0.74	1.34	4.57
Spray (Broadcast)	27'	MFWD 170	5,940	200	8	0.062	0.90	1.50	0.17	0.32	2.90	0.20	1.99	5.10
Spray (Broadcast)	40'	MFWD 170	7,350	200	8	0.042	0.60	1.01	0.14	0.22	1.99	0.16	1.34	3.50
Spray (Broadcast)	50'	MFWD 170	6,730	200	8	0.033	0.48	0.81	0.10	0.17	1.58	0.12	1.07	2.78
Spray (Broadcast)	53'	MFWD 170	7,650	200	8	0.031	0.45	0.76	0.11	0.16	1.50	0.13	1.01	2.65
Spray (Broadcast)	60'	MFWD 170	10,000	200	8	0.028	0.40	0.67	0.13	0.14	1.36	0.15	0.89	2.41
Spray (Direct/Hood)	8R-30	MFWD 170	17,700	200	8	0.084	1.21	2.02	0.70	0.44	4.39	0.81	2.69	7.89
Spray (Direct/Hood)	8R-38	MFWD 170	18,900	200	8	0.066	0.96	1.60	0.59	0.34	3.50	0.68	2.12	6.32
Spray (Direct/Hood)	12R-30	MFWD 170	25,600	200	8	0.056	0.81	1.35	0.67	0.29	3.13	0.78	1.79	5.71
Spray (Direct/Hood)	12R-38	MFWD 170	26,200	200	8	0.044	0.64	1.06	0.54	0.23	2.48	0.63	1.41	4.54
Spray (Direct/Layby)	8R-30	MFWD 170	12,300	200	8	0.084	1.21	2.02	0.48	0.44	4.17	0.56	2.69	7.43
Spray (Direct/Layby)	8R-38	MFWD 170	12,200	200	8	0.066	0.96	1.60	0.38	0.34	3.29	0.44	2.12	5.87
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	16,200	200	8	0.044	0.64	1.06	0.33	0.23	2.27	0.39	1.41	4.08
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	0.97	1.62	0.38	0.35	3.33	0.44	2.15	5.94
Spray (Direct/Layby)	12R-30	MFWD 170	17,900	200	8	0.056	0.81	1.35	0.47	0.29	2.93	0.55	1.79	5.27
Spray (Direct/Layby)	12R-38	MFWD 170	16,200	200	8	0.044	0.64	1.06	0.33	0.23	2.27	0.39	1.41	4.08
Spray (Direct/Layby)	16R-20	MFWD 170	10,000	200	8	0.063	0.91	1.51	0.29	0.33	3.06	0.34	2.01	5.42
Spray (Spot)	27'	MFWD 170	5,940	200	8	0.062	0.90	1.50	0.17	0.32	2.90	0.20	1.99	5.10
Spray (Spot)	40'	MFWD 170	7,350	200	8	0.042	0.60	1.01	0.14	0.22	1.99	0.16	1.34	3.50
Spray (Spot)	50'	MFWD 170	7,420	200	8	0.033	0.48	0.81	0.11	0.17	1.59	0.13	1.07	2.80
Spray (Spot)	53'	MFWD 170	7,650	200	8	0.031	0.45	0.76	0.11	0.16	1.50	0.13	1.01	2.65
Spray (Spot)	60'	MFWD 170	10,000	200	8	0.028	0.40	0.67	0.13	0.14	1.36	0.15	0.89	2.41
Stalk Shredder	14'	MFWD 150	13,200	200	10	0.117	1.13	2.49	1.36	0.52	5.51	0.79	3.06	9.36
Stalk Shredder	20'	MFWD 150	30,500	200	10	0.082	0.79	1.74	2.20	0.36	5.10	1.28	2.14	8.53
Stalk Shredder-Flail	12'	MFWD 150	15,800	200	10	0.137	1.32	2.90	1.90	0.61	6.74	1.10	3.57	11.42
Stalk Shredder-Flail	20'	MFWD 150	26,900	200	10	0.082	0.79	1.74	1.94	0.36	4.84	1.13	2.14	8.12
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	1.96	5.47	0.24	1.02	8.70	0.57	6.22	15.49
Subsoiler	4 shank	MFWD 225	8,230	100	15	0.153	1.47	4.87	0.42	1.08	7.85	0.99	6.61	15.46
Subsoiler	5 shank	MFWD 225	11,100	100	15	0.122	1.17	3.88	0.45	0.86	6.37	1.06	5.26	12.71
Subsoiler low-till	4 shank	MFWD 225	12,400	100	15	0.153	1.47	4.87	0.63	1.08	8.06	1.49	6.61	16.18
Subsoiler low-till	6 shank	MFWD 225	14,800	100	15	0.102	0.98	3.24	0.50	0.72	5.44	1.18	4.39	11.03
Subsoiler low-till	8 shank	MFWD 225	19,600	100	15	0.076	0.73	2.42	0.50	0.54	4.20	1.18	3.29	8.67
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.54	5.10	0.83	1.13	8.61	1.38	6.92	16.92

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2015.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
							-----\$/acre-----							
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.03	3.41	0.75	0.75	5.95	1.25	4.62	11.84
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	1.96	6.48	1.05	1.44	10.94	1.75	8.79	21.49
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.30	4.32	0.75	0.96	7.34	1.25	5.86	14.46
Boll Buggy-1st Pick	2R38*157hp	MFWD 190	26,200	200	10	0.519	4.98	13.92	3.40	2.59	24.91	6.66	15.83	47.41
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	26,200	200	10	0.172	1.65	4.61	1.12	0.86	8.26	2.20	5.25	15.72
Boll Buggy-1st pick	4R30*255hp	MFWD 190	26,200	200	10	0.327	3.14	8.77	2.14	1.63	15.69	4.19	9.97	29.87
Boll Buggy-1st pick	4R30*325hp	MFWD 190	30,600	200	10	0.327	3.14	8.77	2.50	1.63	16.05	4.90	9.97	30.93
Boll Buggy-1st pick	4R38*255hp	MFWD 190	30,600	200	10	0.257	2.47	6.90	1.97	1.28	12.64	3.86	7.85	24.36
Boll Buggy-1st pick	4R38*325hp	MFWD 190	30,600	200	10	0.257	2.47	6.90	1.97	1.28	12.64	3.86	7.85	24.36
Boll Buggy-1st pick	5R30*255hp	MFWD 190	30,600	200	10	0.261	2.51	7.01	2.00	1.30	12.84	3.92	7.98	24.75
Boll Buggy-1st pick	5R38*255hp	MFWD 190	30,600	200	10	0.207	1.98	5.55	1.58	1.03	10.16	3.10	6.31	19.58
Boll Buggy-1st pick	6R30*325hp	MFWD 190	30,600	200	10	0.218	2.09	5.84	1.66	1.09	10.70	3.26	6.65	20.62
Boll Buggy-1st pick	6R38*325hp	MFWD 190	30,600	200	10	0.172	1.65	4.61	1.31	0.86	8.45	2.58	5.25	16.28
Boll Buggy-2nd pick	2R38*157hp	MFWD 190	30,600	200	10	0.440	4.22	11.79	3.36	2.20	21.58	6.59	13.41	41.59
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,600	200	10	0.145	1.40	3.91	1.11	0.72	7.15	2.18	4.44	13.79
Boll Buggy-2nd pick	4R30*255hp	MFWD 190	30,600	200	10	0.277	2.66	7.43	2.12	1.38	13.60	4.15	8.45	26.20
Boll Buggy-2nd pick	4R30*325hp	MFWD 190	30,600	200	10	0.277	2.66	7.43	2.12	1.38	13.60	4.15	8.45	26.20
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,600	200	10	0.218	2.09	5.85	1.67	1.09	10.70	3.27	6.65	20.63
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,600	200	10	0.218	2.09	5.85	1.67	1.09	10.70	3.27	6.65	20.63
Boll Buggy-2nd pick	5R30*255hp	MFWD 190	30,600	200	10	0.221	2.12	5.94	1.69	1.10	10.88	3.32	6.76	20.96
Boll Buggy-2nd pick	5R38*255hp	MFWD 190	30,600	200	10	0.175	1.68	4.70	1.34	0.87	8.60	2.62	5.34	16.58
Boll Buggy-2nd pick	6R30*325hp	MFWD 190	30,600	200	10	0.184	1.77	4.95	1.41	0.92	9.06	2.76	5.63	17.47
Boll Buggy-2nd pick	6R38*325hp	MFWD 190	30,600	200	10	0.145	1.40	3.91	1.11	0.72	7.15	2.18	4.44	13.79
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,600	200	10	0.251	2.41	5.32	1.92	1.12	10.79	3.77	6.54	21.10
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,600	200	10	0.204	1.96	4.32	1.56	0.91	8.77	3.06	5.31	17.15
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,600	200	10	0.172	1.65	3.64	1.31	0.77	7.38	2.58	4.47	14.44
Boll Buggy-Stripper	4R30*2X1Br	MFWD 150	30,600	200	10	0.218	2.09	4.61	1.66	0.97	9.35	3.26	5.66	18.29
Boll Buggy-Stripper	4R30*Brush	MFWD 150	30,600	200	10	0.327	3.14	6.92	2.50	1.46	14.03	4.90	8.50	27.44
Boll Buggy-Stripper	4R38*2X1Br	MFWD 150	30,600	200	10	0.172	1.65	3.64	1.31	0.77	7.38	2.58	4.47	14.44
Boll Buggy-Stripper	4R38*Brush	MFWD 150	30,600	200	10	0.257	2.47	5.45	1.97	1.15	11.05	3.86	6.69	21.60
Boll Buggy-Stripper	5R30*Brush	MFWD 150	30,600	200	10	0.261	2.51	5.54	2.00	1.17	11.22	3.92	6.80	21.95
Boll Buggy-Stripper	5R38*Brush	MFWD 150	30,600	200	10	0.207	1.98	4.38	1.58	0.92	8.88	3.10	5.38	17.36
Boll Buggy-Stripper	6R30*Brush	MFWD 150	30,600	200	10	0.218	2.09	4.61	1.66	0.97	9.35	3.26	5.66	18.29
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	6.28	8.77	2.84	1.63	19.53	5.56	9.97	35.07
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	6.28	8.77	2.84	1.63	19.53	5.56	9.97	35.07
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	4.94	6.90	2.23	1.28	15.38	4.37	7.85	27.61
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	4.94	6.90	2.23	1.28	15.38	4.37	7.85	27.61
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.30	4.61	1.49	0.86	10.28	2.92	5.25	18.46
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.02	7.01	2.27	1.30	15.62	4.44	7.98	28.05
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	3.97	5.55	1.79	1.03	12.36	3.51	6.31	22.19
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.19	5.84	1.89	1.09	13.02	3.70	6.65	23.38
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.30	4.61	1.49	0.86	10.28	2.92	5.25	18.46
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	8.45	11.79	3.81	2.20	26.26	7.47	13.41	47.15
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.32	7.43	2.40	1.38	16.54	4.71	8.45	29.70
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	5.32	7.43	2.40	1.38	16.54	4.71	8.45	29.70
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.19	5.85	1.89	1.09	13.02	3.70	6.65	23.39
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	4.19	5.85	1.89	1.09	13.02	3.70	6.65	23.39
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	2.80	3.91	1.26	0.72	8.70	2.47	4.44	15.63
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	4.25	5.94	1.92	1.10	13.23	3.76	6.76	23.76
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.36	4.70	1.52	0.87	10.47	2.98	5.34	18.80
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	3.54	4.95	1.60	0.92	11.03	3.14	5.63	19.80
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	2.80	3.91	1.26	0.72	8.70	2.47	4.44	15.63
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	4.83	5.32	2.18	1.12	13.47	4.27	6.54	24.29
Module Builder-Strip	16' Brush	MFWD 150	34,700	200	10	0.204	3.92	4.32	1.77	0.91	10.94	3.47	5.31	19.73
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.30	3.64	1.49	0.77	9.21	2.92	4.47	16.62
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.28	6.92	2.84	1.46	17.51	5.56	8.50	31.57
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.19	4.61	1.89	0.97	11.67	3.70	5.66	21.05
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	4.94	5.45	2.23	1.15	13.79	4.37	6.69	24.86
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.30	3.64	1.49	0.77	9.21	2.92	4.47	16.62
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.02	5.54	2.27	1.17	14.01	4.44	6.80	25.26
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	3.97	4.38	1.79	0.92	11.08	3.51	5.38	19.98
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.19	4.61	1.89	0.97	11.67	3.70	5.66	21.05