

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

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



**Farm Management Research & Extension
Department of Agricultural Economics & Agribusiness
Louisiana State University Agricultural Center
A.E.A. Information Series No. 304 - January 2015**

January 2015

A.E.A. Information Series No. 304

**PROJECTED COSTS AND RETURNS
CROP ENTERPRISE BUDGETS
FOR SOYBEAN PRODUCTION IN LOUISIANA, 2015**

by

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



**Department of Agricultural Economics & Agribusiness
Louisiana State University Agricultural Center
www.lsuagcenter.com**

TABLE OF CONTENTS

	<u>PAGE</u>
Introduction	1
Procedure	1
Expected Crop Yields and Market Prices	2
Direct Production Costs	2
Farm Machinery Costs	2
Overhead Costs	3
Land and Management Charges	3
Acknowledgements.....	3
Internet Access	3

SOYBEAN ENTERPRISE BUDGETS:

Table

1	Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated, alluvial soils, Northeast Louisiana, 2015	4
2	Soybeans, RR, 8-row equipment, stale seedbed, irrigated, alluvial soils, Northeast Louisiana, 2015	7
3	Soybeans, RR, 8-row equipment, stale seedbed, irrigated, Macon Ridge, Northeast Louisiana, 2015	10
4	Soybeans, RR, 12-row equipment, 20-inch rows, non-irrigated, alluvial soils, Northeast Louisiana, 2015	13
5	Soybeans, RR, 12-row equipment, 20-inch rows, irrigated, alluvial soils, Northeast Louisiana, 2015	16
6	Soybeans, RR, drill planted, conventional tillage, in rotation, Southwest Louisiana, 2015	19
Appendices		22

App. Table

1	Est. Costs Per Acre, Poly Pipe, 160 acres, 10.5” in three applications, LA 2015.....	22
2	Est. Costs Per Acre, Center Pivot, ¼ Mile, 7.5” in three applications, LA 2015.....	22
3	Operating inputs, estimated prices, Louisiana, 2015	23
4	Tractors, performance rates and costs, Louisiana, 2015	26
5	Self-propelled machines, performance rates and costs, Louisiana, 2015	27
6	Implements, performance rates and costs, Louisiana, 2015	28

PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR SOYBEAN PRODUCTION IN LOUISIANA, 2015

by

Michael A. Deliberto, Michael E. Salassi, and Brian M. Hilbun¹

¹ Research Associate, Professor and Research Associate, Department of Agricultural Economics
and Agribusiness, LSU Agricultural Center, Baton Rouge, LA.

Introduction

This publication presents estimates of projected costs and returns for soybean 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
 Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
App by Air (3 gal)	appl	4.75	3.0000	14.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	16.0000	4.00	_____
FERTILIZERS					
LA Phosphate	lb	0.61	50.0000	30.50	_____
LA Potash	lb	0.34	50.0000	17.00	_____
FUNGICIDES					
Quadris	oz	1.95	6.0000	11.70	_____
Stratego	pt	24.91	0.6250	15.57	_____
HERBICIDES					
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	2.0000	8.46	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	4.68	0.7500	3.51	_____
Orthene 90S	lb	5.75	0.6000	3.45	_____
Intrepid 2F	oz	1.76	6.0000	10.56	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.11	50.0000	55.50	_____
ADJUVANTS					
Surfactant	pt	3.60	1.0000	3.60	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.0851	1.07	_____
LA Hired Labor					
Implements	hour	9.60	0.1345	1.29	_____
Tractors	hour	9.60	0.4272	4.11	_____
DIESEL FUEL					
Tractors	gal	2.74	4.0612	11.14	_____
Harvesters	gal	2.74	1.2047	3.30	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.24	1.0000	4.24	_____
Tractors	Acre	2.23	1.0000	2.23	_____
Harvesters	Acre	2.58	1.0000	2.58	_____
INTEREST ON OP. CAP.	Acre	5.03	1.0000	5.03	_____

TOTAL DIRECT EXPENSES				297.76	_____
FIXED EXPENSES					
Implements	Acre	7.22	1.0000	7.22	_____
Tractors	Acre	13.55	1.0000	13.55	_____
Harvesters	Acre	9.88	1.0000	9.88	_____

TOTAL FIXED EXPENSES				30.65	_____

TOTAL SPECIFIED EXPENSES				328.41	_____

Table 1.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast 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-----			
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.47	2.37	0.90	0.98	0.11	1.12				7.84
LA Phosphate	lb											50.0000	0.61	30.50	30.50
LA Potash	lb											50.0000	0.34	17.00	17.00
Lime (Spread)	ton			0.33	Oct							0.3300	48.00	15.84	15.84
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.73	3.02	0.88	1.80	0.07	0.67				9.10
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
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.36	2.26	0.39	1.01	0.07	0.71				6.73
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	Mar							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.23	8.46	8.46
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	2.18	2.37	1.12	2.05	0.14	1.44				9.16
Soybean Seed RR	lb											50.0000	1.11	55.50	55.50
Ditcher		2WD 130	0.020	1.00	May	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.23	1.35	0.15	0.17	0.06	0.61				3.51
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Quadris	oz											6.0000	1.95	11.70	11.70
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Stratego	pt											0.6250	24.91	15.57	15.57
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Intrepid 2F	oz											6.0000	1.76	10.56	10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.00	6.00	6.00
Gramoxone Inteon	oz											16.0000	0.25	4.00	4.00
Surfactant	pt											1.0000	3.60	3.60	3.60
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.88	9.88	0.66	0.96	0.08	1.07				18.45
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						19.25	23.43	4.24	7.22	0.64	6.47			262.77	323.38
INTEREST ON OPERATING CAPITAL															5.03
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															328.41

Table 1.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated, alluvial soils, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.50	4.80	5.15	5.55	6.04	6.61	7.32	8.20	9.33	10.84	12.96
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-190	-183	-175	-166	-155	-142	-126	-107	-81	-47	0
			-220	-214	-206	-197	-186	-173	-157	-137	-112	-78	-30
60	27.00	bu	-171	-163	-153	-142	-129	-114	-95	-71	-40	0	57
			-201	-193	-184	-173	-160	-144	-125	-102	-71	-30	26
70	31.50	bu	-152	-142	-131	-118	-103	-85	-63	-35	0	47	114
			-182	-173	-162	-149	-134	-116	-94	-66	-30	16	83
80	36.00	bu	-133	-122	-109	-95	-77	-57	-31	0	40	95	171
			-163	-153	-140	-125	-108	-87	-62	-30	10	64	140
90	40.50	bu	-114	-101	-87	-71	-51	-28	0	35	81	142	228
			-144	-132	-118	-102	-82	-59	-30	5	50	112	197
100	45.00	bu	-95	-81	-65	-47	-25	0	31	71	122	190	285
			-125	-112	-96	-78	-56	-30	1	40	91	159	254
110	49.50	bu	-76	-61	-43	-23	0	28	63	107	163	237	342
			-106	-91	-74	-54	-30	-2	32	76	132	207	311
120	54.00	bu	-57	-40	-21	0	25	57	95	142	203	285	399
			-87	-71	-52	-30	-4	26	64	112	173	254	369
130	58.50	bu	-38	-20	0	23	51	85	126	178	244	333	456
			-68	-51	-30	-6	21	55	96	147	214	302	426
140	63.00	bu	-19	0	21	47	77	114	158	214	285	380	513
			-49	-30	-8	16	47	83	127	183	254	350	483
150	67.50	bu	0	20	43	71	103	142	190	249	326	428	571
			-30	-10	13	40	73	112	159	219	295	397	540

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 Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated, alluvial soils, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.95	5.29	5.67	6.12	6.65	7.29	8.07	9.05	10.30	11.98	14.32
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-180	-172	-163	-153	-141	-127	-109	-87	-59	-22	30
			-210	-203	-194	-184	-172	-158	-140	-118	-90	-52	0
60	27.00	bu	-159	-150	-139	-127	-113	-95	-74	-48	-14	30	93
			-189	-180	-170	-158	-143	-126	-105	-79	-45	0	63
70	31.50	bu	-137	-127	-115	-101	-84	-64	-39	-8	30	83	157
			-168	-158	-145	-131	-114	-94	-70	-39	0	52	126
80	36.00	bu	-116	-104	-90	-74	-55	-32	-4	30	75	136	220
			-147	-135	-121	-105	-86	-63	-35	0	45	105	189
90	40.50	bu	-95	-82	-66	-48	-26	-0	30	70	120	188	283
			-126	-112	-97	-79	-57	-31	0	39	90	158	252
100	45.00	bu	-74	-59	-42	-22	1	30	65	109	166	241	346
			-105	-90	-72	-52	-28	0	35	79	135	210	316
110	49.50	bu	-53	-37	-17	4	30	62	100	149	211	294	410
			-84	-67	-48	-26	0	31	70	118	180	263	379
120	54.00	bu	-32	-14	6	30	59	93	136	188	256	346	473
			-63	-45	-24	0	28	63	105	158	225	316	442
130	58.50	bu	-11	8	30	56	88	125	171	228	301	399	536
			-42	-22	0	26	57	94	140	197	271	368	505
140	63.00	bu	9	30	54	83	116	157	206	267	346	452	599
			-21	0	24	52	86	126	175	237	316	421	569
150	67.50	bu	30	53	79	109	145	188	241	307	391	504	662
			0	22	48	79	114	158	210	276	361	474	632

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
 Soybeans, RR, 8-row equipment, stale seedbed, irrigated,
 alluvial soils, Northeas Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	4.0000	19.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	16.0000	4.00	_____
FERTILIZERS					
LA Phosphate	lb	0.61	50.0000	30.50	_____
LA Potash	lb	0.34	50.0000	17.00	_____
FUNGICIDES					
Quadris	oz	1.95	6.0000	11.70	_____
Stratego	pt	24.91	0.6250	15.57	_____
HERBICIDES					
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	2.0000	8.46	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	4.68	0.7500	3.51	_____
Orthene 90S	lb	5.75	0.6000	3.45	_____
Intrepid 2F	oz	1.76	6.0000	10.56	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.11	50.0000	55.50	_____
ADJUVANTS					
Surfactant	pt	3.60	1.0000	3.60	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.0851	1.07	_____
IRRIGATION LABOR					
Implements	hour	9.60	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	9.60	0.1345	1.29	_____
Tractors	hour	9.60	0.7203	6.92	_____
LA Irrigation Labor					
Special Labor	hour	9.60	0.1500	1.44	_____
DIESEL FUEL					
Tractors	gal	2.74	6.8886	18.89	_____
Harvesters	gal	2.74	1.2047	3.30	_____
Roll-Out Pipe Irr.	gal	2.74	4.8877	13.38	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.63	1.0000	4.63	_____
Tractors	Acre	3.67	1.0000	3.67	_____
Harvesters	Acre	2.58	1.0000	2.58	_____
Roll-Out Pipe Irr.	Acre	4.48	1.0000	4.48	_____
INTEREST ON OP. CAP.	Acre	5.64	1.0000	5.64	_____
TOTAL DIRECT EXPENSES				340.15	_____
FIXED EXPENSES					
Implements	Acre	8.21	1.0000	8.21	_____
Tractors	Acre	22.32	1.0000	22.32	_____
Harvesters	Acre	9.88	1.0000	9.88	_____
Roll-Out Pipe Irr.	Acre	45.14	1.0000	45.14	_____
TOTAL FIXED EXPENSES				85.55	_____
TOTAL SPECIFIED EXPENSES				425.70	_____

Table 2.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 8-row equipment, stale seedbed, irrigated,
 alluvial soils, Northeast 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	Oct							0.3300	48.00	15.84	15.84
Fert Appl (Liquid)	8R-38				Oct										7.84
LA Phosphate	lb	MFWD 190	0.077	1.00	Oct	2.47	2.37	0.90	0.98	0.11	1.12				30.50
LA Potash	lb											50.0000	0.34	17.00	17.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.73	3.02	0.88	1.80	0.07	0.67				9.10
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
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
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	Mar										6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.23	8.46	8.46
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	2.18	2.37	1.12	2.05	0.14	1.44				9.16
Soybean Seed RR	lb											50.0000	1.11	55.50	55.50
Ditcher		2WD 130	0.020	1.00	May	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.23	1.35	0.15	0.17	0.06	0.61				3.51
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun										6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul										4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Quadris	oz											6.0000	1.95	11.70	11.70
App by Air (3 gal)	appl			1.00	Aug										4.75
Orthene 90S	lb											1.0000	4.75	4.75	4.75
Stratego	pt											0.6000	5.75	3.45	3.45
0.6250												24.91	15.57	15.57	15.57
App by Air (3 gal)	appl			1.00	Aug										4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Intrepid 2F	oz											6.0000	1.76	10.56	10.56
App by Air (3 gal)	appl			1.00	Sep										4.75
Gramoxone Inteon	oz											16.0000	0.25	4.00	4.00
Surfactant	pt											1.0000	3.60	3.60	3.60
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.88	9.88	0.66	0.96	0.08	1.07				18.45
Haul Soybeans	bu			1.00	Oct										14.85
Roll-Out Pipe Irr.	Acre				Jul	9.19	8.77	18.27	46.20	0.44	4.31				8.58
												1.0000			95.32
TOTALS						28.44	32.20	22.49	53.35	1.09	10.78			272.80	420.06
INTEREST ON OPERATING CAPITAL															5.64
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															425.70

Table 2.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 8-row equipment, stale seedbed, irrigated,
alluvial soils, Northeas Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.21	4.49	4.82	5.19	5.64	6.18	6.84	7.66	8.71	10.12	12.09
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-216	-209	-200	-189	-177	-162	-144	-121	-92	-54	0
			-302	-294	-285	-275	-262	-248	-230	-207	-178	-139	-85
60	33.00	bu	-195	-185	-175	-162	-147	-130	-108	-81	-46	0	65
			-280	-271	-260	-248	-233	-215	-193	-166	-132	-85	-20
70	38.50	bu	-173	-162	-150	-135	-118	-97	-72	-40	0	54	130
			-258	-248	-235	-221	-203	-183	-157	-126	-85	-31	44
80	44.00	bu	-151	-139	-125	-108	-88	-65	-36	0	46	108	195
			-237	-224	-210	-193	-174	-150	-121	-85	-39	22	109
90	49.50	bu	-130	-116	-100	-81	-59	-32	0	40	92	162	260
			-215	-201	-185	-166	-144	-118	-85	-44	7	77	174
100	55.00	bu	-108	-92	-75	-54	-29	0	36	81	139	216	325
			-193	-178	-160	-139	-115	-85	-49	-4	53	131	239
110	60.50	bu	-86	-69	-50	-27	0	32	72	121	185	270	390
			-172	-155	-135	-112	-85	-53	-13	36	100	185	304
120	66.00	bu	-65	-46	-25	0	29	65	108	162	232	325	455
			-150	-132	-110	-85	-55	-20	22	77	146	239	369
130	71.50	bu	-43	-23	0	27	59	97	144	203	278	379	520
			-128	-108	-85	-58	-26	12	58	117	193	293	434
140	77.00	bu	-21	0	25	54	88	130	180	243	325	433	585
			-107	-85	-60	-31	3	44	95	158	239	348	499
150	82.50	bu	0	23	50	81	118	162	216	284	371	487	650
			-85	-62	-35	-4	32	77	131	198	286	402	564

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
Soybeans, RR, 8-row equipment, stale seedbed, irrigated,
alluvial soils, Northeas Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			5.25	5.60	6.01	6.49	7.06	7.74	8.56	9.60	10.94	12.71	15.20
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-188	-178	-167	-154	-138	-119	-97	-68	-31	17	85
			-273	-264	-252	-239	-224	-205	-182	-154	-117	-68	0
60	33.00	bu	-160	-149	-135	-119	-101	-78	-51	-17	26	85	167
			-246	-234	-221	-205	-186	-164	-136	-102	-58	0	82
70	38.50	bu	-133	-119	-104	-85	-63	-37	-5	34	85	154	249
			-219	-205	-189	-171	-149	-123	-91	-51	0	68	164
80	44.00	bu	-106	-90	-72	-51	-26	3	39	85	144	222	331
			-191	-176	-157	-136	-112	-82	-45	0	58	136	246
90	49.50	bu	-78	-61	-40	-17	10	44	85	136	202	290	414
			-164	-146	-126	-102	-74	-41	0	51	117	205	328
100	55.00	bu	-51	-31	-9	17	48	85	131	188	261	359	496
			-136	-117	-94	-68	-37	0	45	102	176	273	410
110	60.50	bu	-23	-2	22	51	85	126	176	239	320	427	578
			-109	-88	-63	-34	0	41	91	154	234	342	492
120	66.00	bu	3	26	53	85	122	167	222	290	378	496	660
			-82	-58	-31	0	37	82	136	205	293	410	575
130	71.50	bu	30	56	85	119	160	208	268	342	437	564	742
			-54	-29	0	34	74	123	182	256	352	479	657
140	77.00	bu	58	85	117	154	197	249	313	393	496	633	824
			-27	0	31	68	112	164	228	308	410	547	739
150	82.50	bu	85	114	148	188	234	290	359	444	554	701	907
			0	29	63	102	149	205	273	359	469	616	821

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

Table 3.A Estimated costs per Acre
 Soybeans, RR, 8-row equipment, stale seedbed,
 irrigated, Macon Ridge, Northeast Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	4.0000	19.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	16.0000	4.00	_____
FERTILIZERS					
LA Phosphate	lb	0.61	50.0000	30.50	_____
LA Potash	lb	0.34	50.0000	17.00	_____
FUNGICIDES					
Quadris	oz	1.95	6.0000	11.70	_____
Stratego	pt	24.91	0.6250	15.57	_____
HERBICIDES					
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	2.0000	8.46	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	4.68	0.7500	3.51	_____
Orthene 90S	lb	5.75	0.6000	3.45	_____
Intrepid 2F	oz	1.76	6.0000	10.56	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.11	50.0000	55.50	_____
ADJUVANTS					
Surfactant	pt	3.60	1.0000	3.60	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.0851	1.07	_____
IRRIGATION LABOR					
Implements	hour	9.60	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	9.60	0.1345	1.29	_____
Tractors	hour	9.60	0.7203	6.92	_____
LA Irrigation Labor					
Special Labor	hour	9.60	0.1500	1.44	_____
DIESEL FUEL					
Tractors	gal	2.74	6.8886	18.89	_____
Harvesters	gal	2.74	1.2047	3.30	_____
Roll-Out Pipe Irr.	gal	2.74	4.8877	13.38	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.85	1.0000	4.85	_____
Tractors	Acre	3.67	1.0000	3.67	_____
Harvesters	Acre	2.58	1.0000	2.58	_____
Roll-Out Pipe Irr.	Acre	4.48	1.0000	4.48	_____
INTEREST ON OP. CAP.	Acre	5.52	1.0000	5.52	_____
TOTAL DIRECT EXPENSES				323.06	_____
FIXED EXPENSES					
Implements	Acre	8.51	1.0000	8.51	_____
Tractors	Acre	22.32	1.0000	22.32	_____
Harvesters	Acre	9.88	1.0000	9.88	_____
Roll-Out Pipe Irr.	Acre	45.14	1.0000	45.14	_____
TOTAL FIXED EXPENSES				85.85	_____
TOTAL SPECIFIED EXPENSES				408.91	_____

Table 3.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 8-row equipment, stale seedbed,
 irrigated, Macon Ridge, Northeast 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-----			
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.47	2.37	0.90	0.98	0.11	1.12				7.84
LA Phosphate	lb											50.0000	0.61	30.50	30.50
LA Potash	lb											50.0000	0.34	17.00	17.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.73	3.02	0.88	1.80	0.07	0.67				9.10
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
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.36	2.26	0.39	1.01	0.07	0.71				6.73
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	Mar							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.23	8.46	8.46
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	2.18	2.37	1.12	2.05	0.14	1.44				9.16
Soybean Seed RR	lb											50.0000	1.11	55.50	55.50
Ditcher		2WD 130	0.020	1.00	May	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.23	1.35	0.35	0.40	0.06	0.61				3.94
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Quadris	oz											6.0000	1.95	11.70	11.70
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Orthene 90S	lb											0.6250	24.91	15.57	15.57
Stratego	pt											1.0000	4.75	4.75	4.75
App by Air (3 gal)	appl			1.00	Aug							0.3750	4.68	1.76	1.76
Brigade EC	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	Sep							16.0000	0.25	4.00	4.00
Gramoxone Inteon	oz											1.0000	3.60	3.60	3.60
Surfactant	pt														18.45
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.88	9.88	0.66	0.96	0.08	1.07				13.50
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50	13.50
Roll-Out Pipe Irr.	Acre				Jul	9.19	8.77	18.27	46.20	0.44	4.31	1.0000		8.58	95.32
TOTALS						28.44	32.20	22.71	53.65	1.09	10.78			255.61	403.39
INTEREST ON OPERATING CAPITAL															5.52
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															408.91

Table 3.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 8-row equipment, stale seedbed,
irrigated, Macon Ridge, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.39	4.69	5.03	5.42	5.89	6.46	7.14	8.00	9.11	10.58	12.65
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-206	-198	-190	-180	-168	-154	-137	-116	-88	-51	0
			-292	-284	-276	-266	-254	-240	-223	-201	-174	-137	-85
60	30.00	bu	-185	-176	-166	-154	-140	-123	-103	-77	-44	0	61
			-271	-262	-252	-240	-226	-209	-189	-163	-130	-85	-23
70	35.00	bu	-165	-154	-142	-128	-112	-92	-68	-38	0	51	123
			-250	-240	-228	-214	-198	-178	-154	-124	-85	-34	37
80	40.00	bu	-144	-132	-119	-103	-84	-61	-34	0	44	103	185
			-230	-218	-204	-189	-170	-147	-120	-85	-41	17	99
90	45.00	bu	-123	-110	-95	-77	-56	-30	0	38	88	154	247
			-209	-196	-181	-163	-142	-116	-85	-47	2	68	161
100	50.00	bu	-103	-88	-71	-51	-28	0	34	77	132	206	309
			-189	-174	-157	-137	-113	-85	-51	-8	46	120	223
110	55.00	bu	-82	-66	-47	-25	0	30	68	116	176	257	371
			-168	-152	-133	-111	-85	-54	-17	30	90	172	285
120	60.00	bu	-61	-44	-23	0	28	61	103	154	221	309	433
			-147	-130	-109	-85	-57	-23	17	68	135	223	347
130	65.00	bu	-41	-22	0	25	56	92	137	193	265	361	495
			-127	-107	-85	-60	-29	6	51	107	179	275	409
140	70.00	bu	-20	0	23	51	84	123	171	232	309	412	557
			-106	-85	-62	-34	-1	37	86	146	223	326	471
150	75.00	bu	0	22	47	77	112	154	206	270	353	464	618
			-85	-63	-38	-8	26	68	120	184	267	378	533

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
Soybeans, RR, 8-row equipment, stale seedbed,
irrigated, Macon Ridge, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			5.54	5.91	6.35	6.86	7.45	8.17	9.05	10.15	11.56	13.44	16.08
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-177	-168	-157	-144	-129	-111	-89	-62	-27	19	85
			-263	-254	-243	-230	-215	-197	-175	-148	-112	-65	0
60	30.00	bu	-151	-140	-127	-111	-93	-72	-45	-12	29	85	164
			-237	-225	-212	-197	-179	-158	-131	-98	-56	0	79
70	35.00	bu	-124	-111	-96	-78	-57	-32	-1	36	85	151	243
			-210	-197	-182	-164	-143	-118	-87	-49	0	65	158
80	40.00	bu	-98	-83	-66	-45	-21	6	41	85	142	217	323
			-184	-169	-152	-131	-107	-79	-43	0	56	131	237
90	45.00	bu	-72	-55	-35	-12	13	46	85	135	198	283	402
			-158	-141	-121	-98	-71	-39	0	49	112	197	316
100	50.00	bu	-45	-27	-5	19	49	85	129	184	255	349	481
			-131	-112	-91	-65	-35	0	43	98	169	263	395
110	55.00	bu	-19	1	25	52	85	125	173	234	311	415	560
			-105	-84	-60	-32	0	39	87	148	225	329	474
120	60.00	bu	6	29	55	85	121	164	217	283	368	481	639
			-79	-56	-30	0	35	79	131	197	282	395	553
130	65.00	bu	33	57	85	118	157	204	261	332	424	547	718
			-52	-28	0	32	71	118	175	247	338	461	632
140	70.00	bu	59	85	116	151	193	243	305	382	481	612	797
			-26	0	30	65	107	158	219	296	395	527	711
150	75.00	bu	85	114	146	184	229	283	349	431	537	678	876
			0	28	60	98	143	197	263	345	451	592	790

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
 Soybeans, RR, 12-row equipment, 20-inch rows, non-irrigated,
 alluvial soils, Northeast Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
App by Air (3 gal)	appl	4.75	3.0000	14.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	16.0000	4.00	_____
FERTILIZERS					
LA Phosphate	lb	0.61	50.0000	30.50	_____
LA Potash	lb	0.34	50.0000	17.00	_____
FUNGICIDES					
Quadris	oz	1.95	6.0000	11.70	_____
Stratego	pt	24.91	0.6250	15.57	_____
HERBICIDES					
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	2.0000	8.46	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	4.68	0.7500	3.51	_____
Orthene 90S	lb	5.75	0.6000	3.45	_____
Intrepid 2F	oz	1.76	6.0000	10.56	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.11	50.0000	55.50	_____
ADJUVANTS					
Surfactant	pt	3.60	1.0000	3.60	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.0851	1.07	_____
LA Hired Labor					
Implements	hour	9.60	0.1586	1.52	_____
Tractors	hour	9.60	0.3542	3.40	_____
DIESEL FUEL					
Tractors	gal	2.74	3.4392	9.42	_____
Harvesters	gal	2.74	1.2047	3.30	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.33	1.0000	4.33	_____
Tractors	Acre	1.85	1.0000	1.85	_____
Harvesters	Acre	2.58	1.0000	2.58	_____
INTEREST ON OP. CAP.	Acre	5.06	1.0000	5.06	_____
TOTAL DIRECT EXPENSES				295.30	_____
FIXED EXPENSES					
Implements	Acre	7.73	1.0000	7.73	_____
Tractors	Acre	11.32	1.0000	11.32	_____
Harvesters	Acre	9.88	1.0000	9.88	_____
TOTAL FIXED EXPENSES				28.93	_____
TOTAL SPECIFIED EXPENSES				324.23	_____

Table 4.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, 20-inch rows, non-irrigated,
 alluvial soils, Northeast 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-----			
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	Oct	3.04	3.38	1.02	1.11	0.11	1.13				9.68
LA Phosphate	lb											50.0000	0.61	30.50	30.50
LA Potash	lb											50.0000	0.34	17.00	17.00
Lime (Spread)	ton			0.33	Oct							0.3300	48.00	15.84	15.84
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.48	1.42	0.46	1.88	0.04	0.45				5.69
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	Mar							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.23	8.46	8.46
NT Plant-Rigid	12R-20	MFWD 190	0.098	1.00	May	3.12	2.99	1.70	3.13	0.19	1.88				12.82
Soybean Seed RR	lb											50.0000	1.11	55.50	55.50
Ditcher		2WD 130	0.020	1.00	May	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.23	1.35	0.35	0.40	0.06	0.61				3.94
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Quadris	oz											6.0000	1.95	11.70	11.70
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Stratego	pt											0.6250	24.91	15.57	15.57
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Intrepid 2F	oz											6.0000	1.76	10.56	10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.00	6.00	6.00
Gramoxone Inteon	oz											16.0000	0.25	4.00	4.00
Surfactant	pt											1.0000	3.60	3.60	3.60
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.88	9.88	0.66	0.96	0.08	1.07				18.45
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						17.15	21.20	4.33	7.73	0.59	5.99			262.77	319.17
INTEREST ON OPERATING CAPITAL															5.06
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															324.23

Table 4.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre Soybeans, RR, 12-row equipment, 20-inch rows, non-irrigated, alluvial soils, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.46	4.76	5.11	5.51	5.99	6.56	7.26	8.13	9.25	10.75	12.85
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-188	-181	-174	-165	-154	-141	-125	-106	-80	-47	0
			-217	-210	-203	-194	-183	-170	-154	-135	-109	-76	-28
60	27.00	bu	-169	-161	-152	-141	-128	-113	-94	-70	-40	0	56
			-198	-190	-181	-170	-157	-142	-123	-99	-69	-28	27
70	31.50	bu	-150	-141	-130	-117	-102	-84	-62	-35	0	47	113
			-179	-170	-159	-146	-131	-113	-91	-64	-28	18	84
80	36.00	bu	-132	-121	-108	-94	-77	-56	-31	0	40	94	169
			-161	-150	-137	-123	-106	-85	-60	-28	11	65	140
90	40.50	bu	-113	-101	-87	-70	-51	-28	0	35	80	141	226
			-142	-130	-116	-99	-80	-57	-28	6	51	112	197
100	45.00	bu	-94	-80	-65	-47	-25	0	31	70	121	188	283
			-123	-109	-94	-76	-54	-28	2	41	92	159	254
110	49.50	bu	-75	-60	-43	-23	0	28	62	106	161	235	339
			-104	-89	-72	-52	-28	-0	33	77	132	206	310
120	54.00	bu	-56	-40	-21	0	25	56	94	141	202	283	396
			-85	-69	-50	-28	-3	27	65	112	173	254	367
130	58.50	bu	-37	-20	0	23	51	84	125	176	242	330	452
			-66	-49	-28	-5	22	55	96	147	213	301	423
140	63.00	bu	-18	0	21	47	77	113	157	212	283	377	509
			-47	-28	-7	18	48	84	128	183	254	348	480
150	67.50	bu	0	20	43	70	102	141	188	247	323	424	566
			-28	-8	14	41	74	112	159	218	294	395	537

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 Soybeans, RR, 12-row equipment, 20-inch rows, non-irrigated, alluvial soils, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.89	5.22	5.60	6.04	6.57	7.20	7.97	8.93	10.17	11.82	14.13
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-179	-171	-163	-153	-141	-127	-109	-88	-60	-23	28
			-207	-200	-191	-181	-170	-155	-138	-116	-89	-51	0
60	27.00	bu	-158	-149	-139	-127	-112	-95	-75	-49	-15	28	91
			-187	-178	-167	-155	-141	-124	-103	-77	-44	0	62
70	31.50	bu	-137	-127	-115	-101	-84	-64	-40	-10	28	80	153
			-166	-155	-143	-129	-113	-93	-69	-38	0	51	124
80	36.00	bu	-116	-104	-91	-75	-56	-33	-5	28	73	132	216
			-145	-133	-119	-103	-85	-62	-34	0	44	103	187
90	40.50	bu	-95	-82	-67	-49	-27	-2	28	67	118	184	278
			-124	-111	-95	-77	-56	-31	0	38	89	155	249
100	45.00	bu	-75	-60	-43	-23	0	28	63	106	162	236	340
			-103	-89	-71	-51	-28	0	34	77	133	207	311
110	49.50	bu	-54	-37	-19	2	28	60	98	145	207	288	403
			-83	-66	-47	-25	0	31	69	116	178	259	374
120	54.00	bu	-33	-15	4	28	57	91	132	184	251	340	465
			-62	-44	-23	0	28	62	103	155	222	311	436
130	58.50	bu	-12	6	28	54	85	122	167	223	296	392	528
			-41	-22	0	25	56	93	138	194	267	363	499
140	63.00	bu	8	28	52	80	114	153	202	262	340	444	590
			-20	0	23	51	85	124	173	233	311	415	561
150	67.50	bu	28	51	76	106	142	184	236	301	385	496	652
			0	22	47	77	113	155	207	272	356	467	623

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

Table 5.A Estimated costs per Acre
 Soybeans, RR, 12-row equipment, 20-inch rows, irrigated
 alluvial soils, Northeast Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
App by Air (3 gal)	appl	4.75	3.0000	14.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	16.0000	4.00	_____
FERTILIZERS					
LA Phosphate	lb	0.61	50.0000	30.50	_____
LA Potash	lb	0.34	50.0000	17.00	_____
FUNGICIDES					
Quadris	oz	1.95	6.0000	11.70	_____
Stratego	pt	24.91	0.6250	15.57	_____
HERBICIDES					
Roundup WeatherMax	oz	0.27	66.0000	17.82	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.23	2.0000	8.46	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	4.68	0.7500	3.51	_____
Orthene 90S	lb	5.75	0.6000	3.45	_____
Intrepid 2F	oz	1.76	6.0000	10.56	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.11	50.0000	55.50	_____
ADJUVANTS					
Surfactant	pt	3.60	1.0000	3.60	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	48.00	0.3300	15.84	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	12.55	0.0851	1.07	_____
IRRIGATION LABOR					
Implements	hour	9.60	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	9.60	0.1586	1.52	_____
Tractors	hour	9.60	0.6473	6.21	_____
LA Irrigation Labor					
Special Labor	hour	9.60	0.1500	1.44	_____
DIESEL FUEL					
Tractors	gal	2.74	6.2667	17.17	_____
Harvesters	gal	2.74	1.2047	3.30	_____
Roll-Out Pipe Irr.	gal	2.74	4.8877	13.38	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.20	1.0000	5.20	_____
Tractors	Acre	3.29	1.0000	3.29	_____
Harvesters	Acre	2.58	1.0000	2.58	_____
Roll-Out Pipe Irr.	Acre	4.48	1.0000	4.48	_____
INTEREST ON OP. CAP.	Acre	5.70	1.0000	5.70	_____
TOTAL DIRECT EXPENSES				339.45	_____
FIXED EXPENSES					
Implements	Acre	9.79	1.0000	9.79	_____
Tractors	Acre	20.09	1.0000	20.09	_____
Harvesters	Acre	9.88	1.0000	9.88	_____
Roll-Out Pipe Irr.	Acre	45.14	1.0000	45.14	_____
TOTAL FIXED EXPENSES				84.90	_____
TOTAL SPECIFIED EXPENSES				424.35	_____

Table 5.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, 20-inch rows, irrigated
 alluvial soils, Northeast 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-----			
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	Oct	3.04	3.38	1.02	1.11	0.11	1.13				9.68
LA Phosphate	lb											50.0000	0.61	30.50	30.50
LA Potash	lb											50.0000	0.34	17.00	17.00
Lime (Spread)	ton			0.33	Oct							0.3300	48.00	15.84	15.84
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.48	1.42	0.46	1.88	0.04	0.45				5.69
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	Mar							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.23	8.46	8.46
NT Plant-Folding	12R-20	MFWD 190	0.098	1.00	May	3.12	2.99	2.36	4.36	0.19	1.88				14.71
Soybean Seed RR	lb											50.0000	1.11	55.50	55.50
Ditcher		2WD 130	0.020	1.00	May	0.43	0.35	0.04	0.05	0.02	0.19				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.23	1.35	0.15	0.17	0.06	0.61				3.51
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup WeatherMax	oz											22.0000	0.27	5.94	5.94
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Quadris	oz											6.0000	1.95	11.70	11.70
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Orthene 90S	lb											0.6000	5.75	3.45	3.45
Stratego	pt											0.6250	24.91	15.57	15.57
App by Air (3 gal)	appl			1.00	Aug							1.0000	4.75	4.75	4.75
Brigade EC	pt											0.3750	4.68	1.76	1.76
Intrepid 2F	oz											6.0000	1.76	10.56	10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.00	6.00	6.00
Gramoxone Inteon	oz											16.0000	0.25	4.00	4.00
Surfactant	pt											1.0000	3.60	3.60	3.60
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.88	9.88	0.66	0.96	0.08	1.07				18.45
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	9.19	8.77	18.27	46.20	0.44	4.31	1.0000		8.58	95.32
TOTALS						26.34	29.97	23.06	54.93	1.04	10.30			274.05	418.65
INTEREST ON OPERATING CAPITAL															5.70
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															424.35

Table 5.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, 20-inch rows, irrigated
alluvial soils, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			4.20	4.48	4.81	5.18	5.63	6.17	6.82	7.64	8.70	10.10	12.07
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-216	-208	-199	-189	-176	-162	-144	-121	-92	-54	0
			-301	-293	-284	-274	-261	-247	-229	-206	-177	-138	-84
60	33.00	bu	-194	-185	-174	-162	-147	-129	-108	-81	-46	0	64
			-279	-270	-259	-247	-232	-214	-193	-166	-131	-84	-20
70	38.50	bu	-173	-162	-149	-135	-117	-97	-72	-40	0	54	129
			-257	-247	-234	-220	-202	-182	-157	-125	-84	-30	44
80	44.00	bu	-151	-139	-124	-108	-88	-64	-36	0	46	108	194
			-236	-223	-209	-193	-173	-149	-120	-84	-38	23	109
90	49.50	bu	-129	-115	-99	-81	-58	-32	0	40	92	162	259
			-214	-200	-184	-166	-143	-117	-84	-44	7	77	174
100	55.00	bu	-108	-92	-74	-54	-29	0	36	81	139	216	324
			-193	-177	-159	-138	-114	-84	-48	-3	54	131	239
110	60.50	bu	-86	-69	-49	-27	0	32	72	121	185	270	389
			-171	-154	-134	-111	-84	-52	-12	36	100	185	304
120	66.00	bu	-64	-46	-24	0	29	64	108	162	231	324	454
			-149	-131	-109	-84	-55	-20	23	77	146	239	369
130	71.50	bu	-43	-23	0	27	58	97	144	202	278	378	519
			-128	-108	-84	-57	-25	12	59	117	193	293	434
140	77.00	bu	-21	0	24	54	88	129	180	243	324	432	584
			-106	-84	-59	-30	3	44	95	158	239	347	499
150	82.50	bu	0	23	49	81	117	162	216	283	370	486	648
			-84	-61	-34	-3	33	77	131	199	285	401	564

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

Table 5.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, 20-inch rows, irrigated
alluvial soils, Northeast Louisiana, 2015.

			-----BREAKEVEN PRICE-----										
Soybeans			5.23	5.58	5.99	6.47	7.03	7.71	8.54	9.57	10.90	12.67	15.15
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-188	-178	-167	-153	-138	-119	-97	-68	-32	16	84
			-272	-263	-251	-238	-223	-204	-181	-153	-116	-68	0
60	33.00	bu	-160	-149	-135	-119	-101	-78	-51	-17	26	84	166
			-245	-233	-220	-204	-186	-163	-136	-102	-58	0	81
70	38.50	bu	-133	-119	-104	-85	-63	-37	-6	33	84	153	248
			-218	-204	-188	-170	-148	-122	-90	-51	0	68	163
80	44.00	bu	-106	-90	-72	-51	-26	3	39	84	143	221	330
			-191	-175	-157	-136	-111	-81	-45	0	58	136	245
90	49.50	bu	-78	-61	-41	-17	10	43	84	136	201	289	412
			-163	-146	-125	-102	-74	-40	0	51	116	204	327
100	55.00	bu	-51	-32	-9	16	47	84	130	187	260	357	494
			-136	-116	-94	-68	-37	0	45	102	175	272	409
110	60.50	bu	-24	-2	21	50	84	125	175	238	318	426	576
			-109	-87	-62	-34	0	40	90	153	233	341	491
120	66.00	bu	3	26	53	84	122	166	221	289	377	494	658
			-81	-58	-31	0	37	81	136	204	292	409	573
130	71.50	bu	30	55	84	119	159	207	266	340	435	562	739
			-54	-29	0	34	74	122	181	255	350	477	655
140	77.00	bu	57	84	116	153	196	248	312	391	494	630	821
			-27	0	31	68	111	163	227	307	409	545	736
150	82.50	bu	84	114	147	187	233	289	357	443	552	698	903
			0	29	62	102	148	204	272	358	467	614	818

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

Table 6.A Estimated costs and returns per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2015.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
LARice GPS Charge-SW	acre	0.35	3.0000	1.05	_____
HARVEST AIDS					
Gramoxone Max	pt	4.06	1.0000	4.06	_____
FERTILIZERS					
LA Phosphate	lb	0.61	50.0000	30.50	_____
LA Potash	lb	0.34	50.0000	17.00	_____
FUNGICIDES					
Quadris	oz	1.95	6.0000	11.70	_____
Stratego	pt	24.91	0.6250	15.57	_____
HERBICIDES					
Roundup Ultra MAX	pt	5.97	3.5000	20.90	_____
Classic	oz	16.28	0.2500	4.07	_____
INSECTICIDES					
Dimilin 2L	oz	2.01	2.0000	4.02	_____
Methyl Parathion	pt	5.79	1.0000	5.79	_____
Orthene 90S	lb	5.75	0.6000	3.45	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.19	75.0000	89.25	_____
ADJUVANTS					
Surfactant	pt	3.60	0.5000	1.80	_____
CUSTOM FERT/LIME					
Custom Spread(Truc	appl	4.50	1.0000	4.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	35.0000	9.45	_____
HAND LABOR					
Implements	hour	9.06	0.0942	0.85	_____
LA OPERATOR LABOR					
Self-Propelled	hour	15.30	0.2310	3.54	_____
LA Hired Labor					
Tractors	hour	9.60	0.3772	3.63	_____
LA Other Labor					
Special Labor	hour	9.60	0.1250	1.20	_____
DIESEL FUEL					
Tractors	gal	2.75	3.3869	9.30	_____
Self-Propelled	gal	2.75	1.4915	4.10	_____
REPAIR & MAINTENANCE					
Implements	acre	3.62	1.0000	3.62	_____
Tractors	acre	1.95	1.0000	1.95	_____
Self-Propelled	acre	8.40	1.0000	8.40	_____
INTEREST ON OP. CAP.	acre	5.55	1.0000	5.55	_____
TOTAL DIRECT EXPENSES				283.25	_____
FIXED EXPENSES					
Implements	acre	7.92	1.0000	7.92	_____
Tractors	acre	11.50	1.0000	11.50	_____
Self-Propelled	acre	12.42	1.0000	12.42	_____
TOTAL FIXED EXPENSES				31.84	_____
TOTAL SPECIFIED EXPENSES				315.09	_____

Table 6.B Estimated resource use and costs for field operations, per acre,
Soybeans, RR, drill planted, conventional tillage,in rotation,
Southwest 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-----			
Disk Harrow	32'	Track 300	0.061	1.00	Nov	3.15	3.29	0.87	1.77	0.06	0.59				9.67
LARice Land Level	13 ft	MFWD 150	0.190	0.20	Nov	0.98	0.99	0.03	0.13	0.03	0.37				2.50
Ditcher		MFWD 150	0.020	1.00	Nov	0.51	0.52	0.04	0.05	0.02	0.19				1.31
Disk Harrow	32'	MFWD 150	0.061	1.00	Mar	1.57	1.59	0.87	1.77	0.06	0.59				6.39
Custom Spread(Truc	appl			1.00	Mar							1.0000	4.50	4.50	4.50
LA Phosphate	lb											50.0000	0.61	30.50	30.50
LA Potash	lb											50.0000	0.34	17.00	17.00
Field Cultivate	24'	MFWD 150	0.062	1.00	Mar	1.60	1.62	0.40	1.65	0.06	0.60				5.87
Ditcher		MFWD 150	0.020	1.00	Apr	0.51	0.52	0.04	0.05	0.02	0.19				1.31
Grain Drill	20'	MFWD 150	0.094	1.00	May	2.42	2.45	1.33	2.45	0.18	1.76				10.41
LA Other Labor	hour														1.20
Soybean Seed RR	lb											75.0000	1.19	89.25	89.25
Ditcher		MFWD 150	0.020	1.00	May	0.51	0.52	0.04	0.05	0.02	0.19				1.31
App by Air (5 gal)	appl			1.00	May							1.0000	6.00	6.00	6.00
Roundup Ultra MAX	pt											2.0000	5.97	11.94	11.94
Classic	oz											0.2500	16.28	4.07	4.07
Surfactant	pt											0.2000	3.60	0.72	0.72
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup Ultra MAX	pt											1.5000	5.97	8.96	8.96
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Jul								4.75		
Dimilin 2L	oz											2.0000	2.01	4.02	4.02
Quadris	oz											6.0000	1.95	11.70	11.70
App by Air (5 gal)	appl			1.00	Aug							1.0000	6.00	6.00	6.00
Methyl Parathion	pt											1.0000	5.79	5.79	5.79
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Sep								4.75		
Stratego	pt											0.6250	24.91	15.57	15.57
Orthene 90S	lb											0.6000	5.75	3.45	3.45
App by Air (5 gal)	appl			1.00	Sep								6.00		
Gramoxone Max	pt											1.0000	4.06	4.06	4.06
Surfactant	pt											0.3000	3.60	1.08	1.08
LARice Combine Med		20 ft	0.210	1.00	Oct	12.50	12.42			0.23	3.54				28.46
Haul Soybeans	bu			1.00	Oct							35.0000	0.27	9.45	9.45
TOTALS						23.75	23.92	3.62	7.92	0.82	9.22			241.11	309.54
INTEREST ON OPERATING CAPITAL															5.55
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															315.09

Table 6.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre Soybeans, RR, drill planted, conventional tillage, in rotation, Southwest Louisiana, 2015.

LA Soybeans			-----BREAKEVEN PRICE-----										
			5.48	5.85	6.28	6.78	7.38	8.09	8.96	10.04	11.44	13.30	15.91
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-182	-175	-168	-159	-149	-136	-121	-102	-78	-45	0
			-214	-207	-200	-191	-181	-168	-153	-134	-110	-77	-31
60	21.00	bu	-164	-156	-147	-136	-124	-109	-91	-68	-39	0	54
			-196	-188	-179	-168	-156	-141	-123	-100	-70	-31	22
70	24.50	bu	-146	-136	-126	-114	-99	-82	-60	-34	0	45	109
			-177	-168	-158	-145	-131	-113	-92	-66	-31	13	77
80	28.00	bu	-127	-117	-105	-91	-74	-54	-30	0	39	91	164
			-159	-149	-137	-123	-106	-86	-62	-31	7	59	132
90	31.50	bu	-109	-97	-84	-68	-49	-27	0	34	78	136	219
			-141	-129	-116	-100	-81	-59	-31	2	46	105	187
100	35.00	bu	-91	-78	-63	-45	-24	0	30	68	117	182	273
			-123	-110	-95	-77	-56	-31	-1	36	85	150	241
110	38.50	bu	-73	-58	-42	-22	0	27	60	102	156	228	328
			-104	-90	-73	-54	-31	-4	28	70	124	196	296
120	42.00	bu	-54	-39	-21	0	24	54	91	136	195	273	383
			-86	-70	-52	-31	-6	22	59	105	163	241	351
130	45.50	bu	-36	-19	0	22	49	82	121	171	234	319	438
			-68	-51	-31	-9	17	50	89	139	202	287	406
140	49.00	bu	-18	0	21	45	74	109	152	205	273	365	492
			-50	-31	-10	13	42	77	120	173	241	333	460
150	52.50	bu	0	19	42	68	99	136	182	239	312	410	547
			-31	-12	10	36	67	105	150	207	281	378	515

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

Table 6.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre Soybeans, RR, drill planted, conventional tillage, in rotation, Southwest Louisiana, 2015.

LA Soybeans			-----BREAKEVEN PRICE-----										
			6.09	6.50	6.98	7.54	8.20	9.00	9.97	11.18	12.74	14.82	17.73
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-171	-164	-156	-146	-134	-120	-103	-82	-55	-19	31
			-203	-196	-188	-178	-166	-152	-135	-114	-87	-50	0
60	21.00	bu	-151	-142	-132	-120	-107	-90	-70	-44	-11	31	92
			-183	-174	-164	-152	-138	-122	-101	-76	-43	0	61
70	24.50	bu	-131	-120	-109	-95	-79	-59	-36	-6	31	82	154
			-162	-152	-141	-127	-111	-91	-67	-38	0	50	122
80	28.00	bu	-110	-99	-85	-70	-51	-29	-2	31	75	133	215
			-142	-130	-117	-101	-83	-61	-33	0	43	101	183
90	31.50	bu	-90	-77	-62	-44	-23	1	31	70	119	184	276
			-122	-109	-94	-76	-55	-30	0	38	87	152	244
100	35.00	bu	-70	-55	-38	-19	4	31	65	108	162	235	337
			-101	-87	-70	-50	-27	0	33	76	130	203	305
110	38.50	bu	-49	-33	-15	6	31	62	99	146	206	286	398
			-81	-65	-47	-25	0	30	67	114	174	254	366
120	42.00	bu	-29	-11	8	31	59	92	133	184	250	337	459
			-61	-43	-23	0	27	61	101	152	218	305	427
130	45.50	bu	-8	10	31	57	87	123	167	222	293	388	520
			-40	-21	0	25	55	91	135	191	261	356	488
140	49.00	bu	11	31	55	82	115	154	201	261	337	439	581
			-20	0	23	50	83	122	169	229	305	407	550
150	52.50	bu	31	53	78	108	142	184	235	299	381	490	643
			0	21	47	76	111	152	203	267	349	458	611

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, 2015.

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	Blazer 2L	pt	0.00
Rovral 4F	pt	14.20	Blazer Ultra	pt	9.56
Rovral WG	lb	0.00	Boa	pt	3.63
Shelter	oz	8.50	Bolero 8EC	pt	7.50
Stiletto	oz	0.56	Boundary	pt	10.05
Stratego	pt	24.91	Buctril 4EC	pt	17.06
Terrachlor Flowable	pt	4.74	Butoxone 175(2,4-DB)	pt	3.24
Terraclor 2EC	pt	1.87	Butoxone 200(2,4-DB)	pt	3.92
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
HERBICIDES (CON'T)			Lexone 75DF	lb	18.90
Butyrac 175 (2,4-DB)	pt	3.27	Liberty	pt	8.84
Butyrac 200 (2,4-DB)	pt	4.20	Lightning	oz	14.25
Canopy 75%	oz	2.69	Lightning	oz	14.25
Canopy XL	oz	2.23	Linex 4L	pt	12.12
Caparol 4L	pt	3.69	Londax 60DF	oz	17.25
Caparol Accu-Pak	lb	0.00	Lorox 50DF	lb	18.70
Celebrity Plus	lb	84.50	MSMA 6.6	pt	3.50
Clarity	pt	11.88	MSMA6 + Surfactant	pt	2.63
Classic	oz	16.28	Newpath 2SL	oz	3.47
Clincher EC	oz	2.30	Ordram 15-G	lb	1.34
Cobra 2EC	oz	1.61	Ordram 8-E	pt	9.42
Command 3ME	pt	18.50	Outlook	pt	16.88
Command XTRA	pt	0.00	Pendimax 3.3	pt	2.47
Conclude Ultra	pt	0.00	Permit 75DF	oz	18.50
Conclude Ultra	pt	0.00	Poast 1.53	pt	11.95
Conclude XACT	pt	11.32	Poast Plus	pt	8.66
Conclude XTRA	pt	8.32	Propanil 4E	qt	5.15
Cornerstone	pt	2.50	Prowl 3.3 EC	pt	3.44
Cotoran 4L	pt	5.98	Pursuit DG	oz	11.59
Cotoran DF	lb	7.92	Pursuit Plus EC	pt	7.10
Cotton Pro Flowable	pt	3.44	Python WDG	oz	13.04
Crossbow	pt	8.05	Raptor	oz	4.18
Cy-Pro 4L	qt	0.00	Reflex 2LC	pt	7.04
Cypro 90DF	lb	0.00	Regiment 80WP	oz	4.38
Delta Goal	pt	9.44	Remedy	pt	8.45
Denim 0.16 EC	pt	24.06	Resource .86EC	pt	28.75
Detail	pt	7.99	Ricestar	pt	22.55
Direx 4L	pt	2.81	Roundup Original	pt	6.00
Direx 80 DF	lb	7.37	Roundup Original Max	oz	0.38
Diuron 4L	pt	2.81	Roundup Power Max	pt	3.16
Diuron 80 DF	lb	2.70	Roundup Ultra MAX	pt	5.97
Domain 60DF	lb	12.75	Roundup Ultra Dry	lb	6.14
DSMA 4	pt	0.90	Roundup WeatherMax	oz	0.27
Dual 8E	pt	0.00	Scepter 70 DG	oz	4.52
Dual II Magnum	pt	14.50	Select 2EC	oz	0.77
Dual Magnum	pt	13.49	Sencor 4F	pt	14.74
Duet	pt	4.99	Sencor DF	lb	11.20
Evik DF 80W	lb	11.75	Squadron CE	pt	12.50
Exceed	oz	10.71	Stam 4E	qt	5.12
Exceed Custom Pak	oz	11.50	Stam 80 EDF	lb	8.04
Expert	pt	4.27	Staple 85%	oz	16.01
Facet 75DF	lb	50.00	Staple Plus	oz	8.55
First Rate	oz	38.78	Steadfast	oz	11.85
Flexstar HL	pt	4.50	Steel	pt	10.28
FloMet 4L	pt	4.74	Storm	pt	11.50
Freedom	qt	2.51	Strongarm	oz	51.20
Front Row	oz	21.92	Superwham	qt	8.83
Frontier 6.0	oz	0.63	Suprend	lb	12.92
Fultime	pt	5.25	Surpass 20G	lb	2.36
Fusilade DX	oz	1.14	Surpass EC	qt	26.25
Fusion	pt	27.00	Touchdown	qt	9.32
Glyphos	pt	1.80	Touchdown 4 IQ	pt	3.33
Glyphomax	pt	3.49	Touchdown Total	qt	6.74
Glyphosate Plus 4L	pt	3.19	Treflan HFP	pt	2.90
Glystar Plus	pt	2.25	Treflan TR-10	lb	1.10
Goal 2XL	pt	10.00	Tri-Scept	pt	5.24
Gramoxone Max	pt	5.46	Trifluralin 4EC	pt	3.34
Gramoxone Max	pt	4.06	Trilin 10G	lb	0.79
Grandstand R	qt	28.38	Trilin 4EC	pt	2.12
Guardman	pt	4.66	Typhoon	qt	13.06
Guardman Max	pt	6.93	Valor WP	oz	4.23
Harmony Extra	oz	14.35	Whip 360	pt	25.08
Hoelon 3EC	pt	11.03	Zorial Rapid 80DF	lb	14.10
Karmex DF	lb	5.93	INSECTICIDES		
LA Asulox/Asulam	gal	37.00	Acephate 80SP	lb	0.00
LA Weedmaster	qt	6.50	Acephate 90SP	lb	7.23
Lariat	qt	7.49	Admire 2 Flowable	oz	4.78
Lasso 4EC	qt	6.60	Ammo 2.5 EC	oz	0.92
Lasso II 15G	lb	0.00	Asana .66 XL	oz	0.64
Layby Pro	qt	6.30	Aztec 2.1% G	lb	3.68

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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
INSECTICIDES (CON'T)			Tracer		
Baythroid 2	oz	2.30	Trimax	oz	1.85
Bidrin 8L	oz	0.98	Vydate C-LV	oz	0.89
Brigade EC	pt	15.10	Warrior Z	oz	1.80
Brigade WSB	lb	21.00	Warrior ZT	oz	1.88
Capture 2EC	oz	2.40	SEED/PLANTS		
Carbamate	oz	0.00	Corn Seed Bt	thous	2.60
Centric 40WG	oz	4.83	Corn Seed BtRR	thous	3.47
Comite	pt	8.46	Corn Seed Conv.	thous	2.88
Condor XL	pt	0.00	Corn Seed RR	thous	3.08
Confirm 2F	oz	2.05	Corn Seed VT3	thous	2.84
Counter 15G	lb	4.22	Corn Seed VT3Pro	thous	3.12
Counter CR	lb	2.65	Cotton Seed BG/RR	thous	0.62
Curacron 8E	pt	10.74	Cotton Seed BGII/RRF	thous	0.61
Decis 1.5EC	oz	2.84	Cotton Seed Bt	thoud	0.28
Declare	pt	4.08	Cotton Seed BtRR	thous	0.74
Denim 0.16EC	pt	32.63	Cotton Seed Bxn	thous	0.00
Di-Syston 15G	lb	3.48	Cotton Seed Conv.	thous	0.00
Di-Syston 8	pt	14.32	Cotton Seed Liberty	thous	1.05
Diamond .83EC	pt	16.28	Cotton Seed Liberty	thous	1.05
Dimethoate 4E	pt	6.27	Cotton Seed RR	thous	0.63
Dimilin 2L	oz	2.02	Cotton Seed RR	thous	0.63
Dipel DF	lb	13.50	Cotton Seed WS	thous	0.49
Dipel ES	pt	5.00	Cotton Seed WS/RR	thous	0.00
Force 3G	lb	6.73	Cotton Seed WS/RRF	thous	0.59
Furadan 3G	lb	0.00	Sorghum Concept	lb	2.28
Furadan 4F	pt	9.81	Sorghum Hybrid Sudax	lb	1.20
Fury 1.5 EC	oz	1.30	Sorghum NonConcept	lb	1.18
Gaucho 480	oz	5.80	Soybean Seed LL	lb	0.89
Intrepid 2F	oz	1.76	Soybean Seed Private	lb	0.38
Intruder 70WP	oz	9.65	Soybean Seed Public	lb	0.00
Karate Z	oz	3.40	Soybean Seed RR	lb	1.11
Lannate LV	pt	10.34	Soybean Seed Stack	lb	1.28
Lannate SP	oz	1.93	Wheat Seed Private	lb	0.32
Larvin 3.2	oz	0.63	Wheat Seed Public	lb	0.00
Leverage 2.7	oz	1.66	SERVICE FEE		
Lorsban 15G	lb	2.15	Cotton Checkoff	bale	2.56
Lorsban 4E	pt	5.63	Cotton Storage	bale	25.00
Malathion 57EC	pt	4.23	Crop Consultant	acre	7.00
Malathion 8E	pt	5.60	Insect Scouting	acre	7.00
Malathion ULV	pt	4.93	Rice Consultant	acre	7.00
Mepichlor 4.2% Liq	pt	5.91	SC Treating Charge	acre	0.00
Methyl Parathion	pt	5.79	Survey & Mark Levees	acre	4.50
Monitor 4	pt	16.50	Survey & Mark Levees	acre	4.50
Monitor 4	pt	16.50	BG Cot Tech Fee	thous	0.28
Mustang Max	oz	1.60	BG Cot Tech Fee	cap/ac	19.50
Organophosphate	oz	0.00	BG II Cot Tech Fee	thous	0.76
Orthene 90S	lb	5.75	BG II Cot Tech Fee	cap/ac	31.91
Orthene 97	lb	10.59	BG II/RR Tech Fee	thous	1.49
Ovasyn	pt	0.00	BG II/RR Tech Fee	cap/ac	62.69
Ovicide	oz	0.00	BGII/RRF Cot Tech Fe	thous	1.49
Penncap M	pt	6.71	BGII/RRF Cot Tech Fe	cap/ac	69.25
Phaser 3E	qt	8.13	Eradication Fee	acre	6.00
Pirate 3SC	oz	0.00	Eradication Zone 1	acre	6.00
Pounce 25WP	lb	12.85	Eradication Zone 1A	acre	6.00
Pounce 3.2 EC	oz	0.91	Eradication Zone 1B	acre	6.00
Provado 1.6F	oz	1.94	Eradication Zone 2	acre	6.00
Scout X-TRA	oz	0.00	Eradication Zone 3	acre	6.00
Sevin 80S	lb	7.40	Eradication Zone 4	acre	6.00
Sevin XLR Plus	qt	12.50	RR Cotton Tech Fee	thous	1.04
Spintor 2SC	oz	4.93	RR Cotton Tech Fee	cap/ac	43.66
Steward	pt	29.30	RR Cotton Tech Fee	thous	1.04
Synthetic Pyrethroid	oz	0.00	RR Cotton Tech Fee	cap/ac	43.66
Temik 15G Grit	lb	4.00	RRF Cotton Tech Fee	thous	1.04
Thimet 20-G	lb	3.60	RRF Cotton Tech Fee	cap/ac	48.25
Thionex 3EC	pt	4.65			
Thionex 50W	lb	10.45			

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"255hp	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"255hp	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, (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-----														
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, 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.	
			dollars	hours	years	hr/ac	-----\$/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