

Projected Costs and Returns Crop Enterprise Budgets for Soybean Production in Louisiana, 2018

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



**Farm Management Research & Extension
Department of Agricultural Economics & Agribusiness
Louisiana State University Agricultural Center
Agricultural Economics Information Report Series No. 331 - January 2018**

January 2018

Agricultural Economics Information Report Series No. 331

**PROJECTED COSTS AND RETURNS
CROP ENTERPRISE BUDGETS
FOR SOYBEAN PRODUCTION IN LOUISIANA, 2018**

by

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



**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, 2018	4
2	Soybeans, RR, 8-row equipment, stale seedbed, irrigated, alluvial soils, Northeast Louisiana, 2018	7
3	Soybeans, RR, 8-row equipment, stale seedbed, irrigated, Macon Ridge, Northeast Louisiana, 2018	10
4	Soybeans, RR, 12-row equipment, 20-inch rows, non-irrigated, alluvial soils, Northeast Louisiana, 2018	13
5	Soybeans, RR, 12-row equipment, 20-inch rows, irrigated, alluvial soils, Northeast Louisiana, 2018	16
6	Soybeans, RR, drill planted, conventional tillage, in rotation, Southwest Louisiana, 2018	19
7	Soybeans, RR, 12-row equipment, stale seedbed, non-irrigated, alluvial soils, Northeast Louisiana, 2018	22
8	Soybeans, RR, 12-row equipment, stale seedbed, irrigated, alluvial soils, Northeast Louisiana, 2018	25
9	Soybeans, RR, 12-row equipment, stale seedbed, irrigated, Macon Ridge, Northeast Louisiana, 2018	28
10	Soybeans, RR, 12-row equipment, 38-inch rows, non-irrigated, alluvial soils, Northeast Louisiana, 2018	31
11	Soybeans, RR, 12-row equipment, 38-inch rows, irrigated, alluvial soils, Northeast Louisiana, 2018	34
Appendices		37

App. Table

1	Est. Costs Per Acre, Poly Pipe, 160 acres, 10.5" in three applications, LA 2018....	37
2	Est. Costs Per Acre, Center Pivot, ¼ Mile, 7.5" in three applications, LA 2018....	37
3	Operating inputs, estimated prices, Louisiana, 2018	38
4	Tractors, performance rates and costs, Louisiana, 2018	45
5	Self-propelled machines, performance rates and costs, Louisiana, 2018	46
6	Implements, performance rates and costs, Louisiana, 2018	47

PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR SOYBEAN PRODUCTION IN LOUISIANA, 2018

by

Michael A. Deliberto, Brian M. Hilbun, and Michael E. Salassi¹

¹ Assistant Professor-Research, Research Associate, and Department Head and Professor
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 2018 crop year. Crop producers are annually faced with critical management decisions that impact the employment of production inputs for various crop enterprises and the combination of crops that will be assembled into a cropping system. The need for reliable information is crucial if sound production decisions are to be made. Planning information plays a pivotal role in the development of annual crop production plans by producers and is important in supporting their efforts to secure the necessary resources to carry out their plans. In addition, information regarding production alternatives and costs and returns for major crop enterprises is needed by extension personnel, researchers, lending institutions, and others involved in agriculture or agribusiness. The purpose of this report is to provide planning information regarding crop production costs and market returns for the 2018 crop year.

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

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

Procedure

The general procedure used in this study was to project machinery and other input price data and apply these data to the production practice data for crop enterprises produced in Louisiana. Input prices were obtained from surveys of farm suppliers, machinery dealers, and aerial applicators to provide a basis for estimating 2018 planning budgets. Machinery and other input cost data are presented in the Appendix.

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

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

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

Expected Crop Yields and Market Prices

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

Direct Production Costs

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

Hired labor was charged at \$10.38 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was

charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 4.75% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$2.28 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

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

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.38	0.1345	1.39	_____
Tractors	hour	10.38	0.4272	4.44	_____
DIESEL FUEL					
Tractors	gal	2.28	4.0612	9.26	_____
Harvesters	gal	2.28	1.2047	2.75	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.78	1.0000	4.78	_____
Tractors	Acre	2.22	1.0000	2.22	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
INTEREST ON OP. CAP.	Acre	6.38	1.0000	6.38	_____

TOTAL DIRECT EXPENSES				333.34	_____
FIXED EXPENSES					
Implements	Acre	8.39	1.0000	8.39	_____
Tractors	Acre	14.00	1.0000	14.00	_____
Harvesters	Acre	11.48	1.0000	11.48	_____

TOTAL FIXED EXPENSES				33.87	_____

TOTAL SPECIFIED EXPENSES				367.21	_____

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, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.37	0.98	0.07	0.77				6.69
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.85	2.24	1.30	2.49	0.14	1.54				9.42
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.04	1.27	0.14	0.17	0.06	0.66				3.28
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						17.14	25.48	4.78	8.39	0.64	6.98			298.06	360.83
INTEREST ON OPERATING CAPITAL															6.38
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															367.21

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, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.02	5.36	5.76	6.21	6.75	7.40	8.20	9.19	10.46	12.16	14.54
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-214	-206	-197	-187	-175	-160	-142	-120	-91	-53	0
			-247	-240	-231	-221	-209	-194	-176	-154	-125	-87	-33
60	27.00	bu	-192	-183	-172	-160	-145	-128	-107	-80	-45	0	64
			-226	-217	-206	-194	-179	-162	-140	-114	-79	-33	30
70	31.50	bu	-171	-160	-148	-133	-116	-96	-71	-40	0	53	128
			-205	-194	-182	-167	-150	-130	-105	-74	-33	19	94
80	36.00	bu	-149	-137	-123	-107	-87	-64	-35	0	45	107	192
			-183	-171	-157	-140	-121	-98	-69	-33	12	73	158
90	40.50	bu	-128	-114	-98	-80	-58	-32	0	40	91	160	256
			-162	-148	-132	-114	-92	-65	-33	6	57	126	223
100	45.00	bu	-107	-91	-74	-53	-29	0	35	80	137	214	321
			-140	-125	-107	-87	-63	-33	1	46	103	180	287
110	49.50	bu	-85	-68	-49	-26	0	32	71	120	183	267	385
			-119	-102	-83	-60	-33	-1	37	86	149	233	351
120	54.00	bu	-64	-45	-24	0	29	64	107	160	229	321	449
			-98	-79	-58	-33	-4	30	73	126	195	287	415
130	58.50	bu	-42	-22	0	26	58	96	142	200	275	374	513
			-76	-56	-33	-7	24	62	108	166	241	340	479
140	63.00	bu	-21	0	24	53	87	128	178	240	321	428	577
			-55	-33	-9	19	53	94	144	206	287	394	544
150	67.50	bu	0	22	49	80	116	160	214	280	366	481	642
			-33	-10	15	46	82	126	180	247	333	447	608

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, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.53	5.90	6.33	6.84	7.44	8.16	9.03	10.13	11.54	13.41	16.04
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-202	-194	-184	-173	-159	-143	-123	-99	-67	-25	33
			-236	-228	-218	-207	-193	-177	-157	-133	-101	-59	0
60	27.00	bu	-179	-168	-157	-143	-127	-108	-84	-54	-16	33	104
			-212	-202	-191	-177	-161	-141	-118	-88	-50	0	70
70	31.50	bu	-155	-143	-129	-114	-95	-72	-45	-10	33	93	175
			-189	-177	-163	-147	-129	-106	-78	-44	0	59	141
80	36.00	bu	-131	-118	-102	-84	-62	-37	-5	33	84	152	246
			-165	-152	-136	-118	-96	-70	-39	0	50	118	212
90	40.50	bu	-108	-92	-75	-54	-30	-1	33	78	135	211	317
			-141	-126	-109	-88	-64	-35	0	44	101	177	283
100	45.00	bu	-84	-67	-48	-25	1	33	73	122	185	270	388
			-118	-101	-81	-59	-32	0	39	88	152	236	354
110	49.50	bu	-60	-42	-20	4	33	69	112	166	236	329	459
			-94	-76	-54	-29	0	35	78	133	202	295	425
120	54.00	bu	-37	-16	6	33	66	104	152	211	287	388	530
			-70	-50	-27	0	32	70	118	177	253	354	496
130	58.50	bu	-13	8	33	63	98	140	191	255	338	447	601
			-47	-25	0	29	64	106	157	221	304	414	567
140	63.00	bu	10	33	61	93	130	175	231	300	388	507	672
			-23	0	27	59	96	141	197	266	354	473	638
150	67.50	bu	33	59	88	122	162	211	270	344	439	566	743
			0	25	54	88	129	177	236	310	405	532	709

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

Table 2.A Estimated costs per Acre

Soybeans, RR, 8-row equipment, stale seedbed, irrigated,
alluvial soils, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1345	1.39	_____
Tractors	hour	10.38	0.7203	7.48	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	6.8886	15.71	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	4.8877	11.16	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.13	1.0000	5.13	_____
Tractors	Acre	3.77	1.0000	3.77	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	7.01	1.0000	7.01	_____

TOTAL DIRECT EXPENSES				372.83	_____
FIXED EXPENSES					
Implements	Acre	9.33	1.0000	9.33	_____
Tractors	Acre	23.79	1.0000	23.79	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____

TOTAL FIXED EXPENSES				93.76	_____

TOTAL SPECIFIED EXPENSES				466.59	_____

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, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.29	0.76	0.07	0.77				6.39
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.85	2.24	1.30	2.49	0.14	1.54				9.42
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.04	1.27	0.14	0.17	0.06	0.66				3.28
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	16.83	50.32	0.44	4.66	1.0000		8.25	97.85
TOTALS						25.14	35.27	21.53	58.49	1.09	11.64			307.51	459.58
INTEREST ON OPERATING CAPITAL															7.01
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															466.59

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, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.60	4.91	5.27	5.69	6.18	6.77	7.50	8.40	9.56	11.11	13.28
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-238	-230	-220	-208	-195	-178	-159	-134	-102	-59	0
			-332	-323	-313	-302	-288	-272	-252	-227	-196	-153	-93
60	33.00	bu	-214	-204	-192	-178	-162	-143	-119	-89	-51	0	71
			-308	-298	-286	-272	-256	-236	-213	-183	-144	-93	-22
70	38.50	bu	-190	-178	-165	-149	-130	-107	-79	-44	0	59	143
			-284	-272	-258	-242	-223	-201	-173	-138	-93	-34	49
80	44.00	bu	-167	-153	-137	-119	-97	-71	-39	0	51	119	214
			-260	-247	-231	-213	-191	-165	-133	-93	-42	25	120
90	49.50	bu	-143	-127	-110	-89	-65	-35	0	44	102	178	286
			-236	-221	-203	-183	-158	-129	-93	-49	8	85	192
100	55.00	bu	-119	-102	-82	-59	-32	0	39	89	153	238	357
			-213	-196	-176	-153	-126	-93	-53	-4	59	144	264
110	60.50	bu	-95	-76	-55	-29	0	35	79	134	204	298	429
			-189	-170	-148	-123	-93	-57	-14	40	110	204	335
120	66.00	bu	-71	-51	-27	0	32	71	119	178	255	357	501
			-165	-144	-121	-93	-61	-22	25	85	161	264	407
130	71.50	bu	-47	-25	0	29	65	107	159	223	306	417	572
			-141	-119	-93	-63	-28	13	65	129	212	323	478
140	77.00	bu	-23	0	27	59	97	143	198	268	357	477	644
			-117	-93	-66	-34	3	49	105	174	264	383	550
150	82.50	bu	0	25	55	89	130	178	238	313	408	536	715
			-93	-68	-38	-4	36	85	144	219	315	443	621

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, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.74	6.13	6.58	7.11	7.73	8.48	9.39	10.53	12.00	13.95	16.69
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-207	-196	-184	-169	-152	-132	-106	-75	-35	18	93
			-301	-290	-277	-263	-246	-225	-200	-169	-129	-75	0
60	33.00	bu	-177	-164	-149	-132	-111	-86	-56	-19	29	93	184
			-270	-258	-243	-225	-205	-180	-150	-112	-64	0	90
70	38.50	bu	-147	-132	-114	-94	-70	-41	-6	37	93	169	274
			-240	-225	-208	-188	-164	-135	-100	-56	0	75	180
80	44.00	bu	-116	-99	-79	-56	-29	3	43	93	158	244	364
			-210	-193	-173	-150	-123	-90	-50	0	64	150	270
90	49.50	bu	-86	-67	-45	-19	11	48	93	150	222	319	455
			-180	-161	-138	-112	-82	-45	0	56	129	225	361
100	55.00	bu	-56	-35	-10	18	52	93	143	206	287	394	545
			-150	-129	-104	-75	-41	0	50	112	193	301	451
110	60.50	bu	-26	-3	24	56	93	138	194	263	351	470	635
			-120	-96	-69	-37	0	45	100	169	258	376	541
120	66.00	bu	3	29	59	93	134	184	244	319	416	545	726
			-90	-64	-34	0	41	90	150	225	322	451	632
130	71.50	bu	33	61	93	131	175	229	294	376	480	620	816
			-60	-32	0	37	82	135	200	282	387	526	722
140	77.00	bu	63	93	128	169	216	274	344	432	545	695	906
			-30	0	34	75	123	180	250	338	451	602	812
150	82.50	bu	93	126	163	206	257	319	394	488	609	771	997
			0	32	69	112	164	225	301	395	516	677	903

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1345	1.39	_____
Tractors	hour	10.38	0.7203	7.48	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	6.8886	15.71	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	4.8877	11.16	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.42	1.0000	5.42	_____
Tractors	Acre	3.77	1.0000	3.77	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	6.90	1.0000	6.90	_____
TOTAL DIRECT EXPENSES				356.48	_____
FIXED EXPENSES					
Implements	Acre	9.80	1.0000	9.80	_____
Tractors	Acre	23.79	1.0000	23.79	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____
TOTAL FIXED EXPENSES				94.23	_____
TOTAL SPECIFIED EXPENSES				450.71	_____

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, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.15	2.64	0.95	1.07	0.11	1.21				8.02
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.05	2.52	0.37	0.98	0.07	0.77				6.69
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.85	2.24	1.30	2.49	0.14	1.54				9.42
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.04	1.27	0.35	0.42	0.06	0.66				3.74
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50	13.50
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	16.83	50.32	0.44	4.66	1.0000		8.25	97.85
TOTALS						25.14	35.27	21.82	58.96	1.09	11.64			290.98	443.81
INTEREST ON OPERATING CAPITAL															6.90
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															450.71

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, 2018.

Soybeans			-----BREAKEVEN PRICE-----										
			4.84	5.17	5.54	5.98	6.50	7.12	7.89	8.84	10.06	11.70	13.98
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-228	-220	-210	-200	-187	-171	-152	-128	-97	-57	0
			-322	-314	-305	-294	-281	-265	-246	-222	-192	-151	-94
60	30.00	bu	-205	-195	-184	-171	-155	-137	-114	-85	-48	0	68
			-299	-290	-278	-265	-250	-231	-208	-179	-143	-94	-25
70	35.00	bu	-182	-171	-158	-142	-124	-102	-76	-42	0	57	137
			-277	-265	-252	-237	-218	-197	-170	-137	-94	-37	42
80	40.00	bu	-160	-146	-131	-114	-93	-68	-38	0	48	114	205
			-254	-241	-226	-208	-187	-162	-132	-94	-45	20	111
90	45.00	bu	-137	-122	-105	-85	-62	-34	0	42	97	171	274
			-231	-216	-199	-179	-156	-128	-94	-51	3	77	180
100	50.00	bu	-114	-97	-79	-57	-31	0	38	85	146	228	342
			-208	-192	-173	-151	-125	-94	-56	-8	52	134	248
110	55.00	bu	-91	-73	-52	-28	0	34	76	128	195	285	411
			-185	-167	-146	-122	-94	-59	-18	34	101	191	317
120	60.00	bu	-68	-48	-26	0	31	68	114	171	244	342	480
			-162	-143	-120	-94	-63	-25	20	77	150	248	385
130	65.00	bu	-45	-24	0	28	62	102	152	214	293	400	548
			-139	-118	-94	-65	-31	8	58	120	199	305	454
140	70.00	bu	-22	0	26	57	93	137	190	257	342	457	617
			-117	-94	-67	-37	-0	42	96	162	248	362	522
150	75.00	bu	0	24	52	85	124	171	228	300	391	514	685
			-94	-69	-41	-8	30	77	134	205	297	420	591

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, 2018.

Soybeans			-----BREAKEVEN PRICE-----										
			6.10	6.51	6.99	7.55	8.21	9.01	9.98	11.19	12.76	14.84	17.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-197	-186	-174	-160	-144	-124	-100	-69	-30	21	94
			-291	-280	-268	-254	-238	-218	-194	-163	-124	-72	0
60	30.00	bu	-168	-155	-141	-124	-104	-80	-51	-15	31	94	181
			-262	-249	-235	-218	-198	-174	-145	-109	-62	0	87
70	35.00	bu	-138	-124	-107	-87	-64	-36	-2	39	94	167	269
			-233	-218	-201	-182	-158	-131	-97	-54	0	72	174
80	40.00	bu	-109	-93	-73	-51	-24	6	45	94	156	239	356
			-203	-187	-168	-145	-119	-87	-48	0	62	145	262
90	45.00	bu	-80	-61	-40	-15	14	50	94	148	219	312	443
			-174	-156	-134	-109	-79	-43	0	54	124	218	349
100	50.00	bu	-51	-30	-6	21	54	94	142	203	281	385	531
			-145	-124	-100	-72	-39	0	48	109	187	291	437
110	55.00	bu	-22	0	26	57	94	137	191	258	344	458	618
			-116	-93	-67	-36	0	43	97	163	249	364	524
120	60.00	bu	6	31	60	94	133	181	239	312	406	531	706
			-87	-62	-33	0	39	87	145	218	312	437	611
130	65.00	bu	35	63	94	130	173	225	288	367	468	604	793
			-58	-31	0	36	79	131	194	273	374	509	699
140	70.00	bu	65	94	127	167	213	269	337	422	531	677	881
			-29	0	33	72	119	174	242	327	437	582	786
150	75.00	bu	94	125	161	203	253	312	385	476	593	749	968
			0	31	67	109	158	218	291	382	499	655	874

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.38	0.1586	1.65	_____
Tractors	hour	10.38	0.3542	3.68	_____
DIESEL FUEL					
Tractors	gal	2.28	3.4392	7.84	_____
Harvesters	gal	2.28	1.2047	2.75	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.82	1.0000	4.82	_____
Tractors	Acre	1.88	1.0000	1.88	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
INTEREST ON OP. CAP.	Acre	6.42	1.0000	6.42	_____
TOTAL DIRECT EXPENSES				331.16	_____
FIXED EXPENSES					
Implements	Acre	8.78	1.0000	8.78	_____
Tractors	Acre	11.88	1.0000	11.88	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
TOTAL FIXED EXPENSES				32.14	_____
TOTAL SPECIFIED EXPENSES				363.30	_____

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, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	Oct	2.59	3.25	1.05	1.18	0.11	1.23				9.30
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.29	1.59	0.45	1.90	0.04	0.48				5.71
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
NT Plant-Rigid	12R-20	MFWD 190	0.098	1.00	May	2.72	3.34	1.93	3.68	0.19	2.04				13.71
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.04	1.27	0.35	0.42	0.06	0.66				3.74
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						15.38	23.36	4.82	8.78	0.59	6.48			298.06	356.88
INTEREST ON OPERATING CAPITAL															6.42
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															363.30

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, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.99	5.33	5.72	6.17	6.71	7.35	8.14	9.13	10.39	12.08	14.44
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-212	-205	-196	-186	-173	-159	-141	-119	-91	-53	0
			-244	-237	-228	-218	-206	-191	-173	-151	-123	-85	-32
60	27.00	bu	-191	-182	-171	-159	-144	-127	-106	-79	-45	0	63
			-223	-214	-203	-191	-177	-159	-138	-111	-77	-32	31
70	31.50	bu	-170	-159	-147	-132	-115	-95	-70	-39	0	53	127
			-202	-191	-179	-165	-148	-127	-103	-72	-32	21	95
80	36.00	bu	-148	-136	-122	-106	-86	-63	-35	0	45	106	191
			-180	-168	-154	-138	-119	-95	-67	-32	13	74	159
90	40.50	bu	-127	-113	-98	-79	-57	-31	0	39	91	159	255
			-159	-146	-130	-111	-90	-64	-32	7	58	127	222
100	45.00	bu	-106	-91	-73	-53	-28	0	35	79	136	212	318
			-138	-123	-105	-85	-61	-32	3	47	104	180	286
110	49.50	bu	-85	-68	-49	-26	0	31	70	119	182	265	382
			-117	-100	-81	-58	-32	-0	38	87	150	233	350
120	54.00	bu	-63	-45	-24	0	28	63	106	159	227	318	446
			-95	-77	-56	-32	-3	31	74	127	195	286	414
130	58.50	bu	-42	-22	0	26	57	95	141	199	273	372	510
			-74	-54	-32	-5	25	63	109	167	241	339	478
140	63.00	bu	-21	0	24	53	86	127	177	239	318	425	574
			-53	-32	-7	21	54	95	145	207	286	393	541
150	67.50	bu	0	22	49	79	115	159	212	279	364	478	637
			-32	-9	16	47	83	127	180	246	332	446	605

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, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.47	5.84	6.27	6.77	7.36	8.07	8.94	10.02	11.41	13.27	15.87
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-201	-193	-183	-172	-159	-143	-123	-99	-68	-26	32
			-234	-225	-216	-204	-191	-175	-156	-131	-100	-58	0
60	27.00	bu	-178	-168	-156	-143	-127	-108	-84	-55	-18	32	102
			-210	-200	-189	-175	-159	-140	-117	-87	-50	0	70
70	31.50	bu	-155	-143	-129	-114	-95	-73	-45	-11	32	90	172
			-187	-175	-162	-146	-127	-105	-78	-43	0	58	140
80	36.00	bu	-131	-118	-102	-84	-63	-38	-6	32	82	149	242
			-163	-150	-135	-117	-95	-70	-39	0	50	117	210
90	40.50	bu	-108	-93	-75	-55	-31	-2	32	76	132	207	312
			-140	-125	-108	-87	-63	-35	0	43	100	175	280
100	45.00	bu	-84	-68	-48	-26	0	32	71	119	182	266	383
			-117	-100	-81	-58	-31	0	39	87	150	234	351
110	49.50	bu	-61	-43	-21	2	32	67	110	163	232	324	453
			-93	-75	-54	-29	0	35	78	131	200	292	421
120	54.00	bu	-38	-18	5	32	64	102	149	207	282	383	523
			-70	-50	-27	0	31	70	117	175	250	351	491
130	58.50	bu	-14	7	32	61	95	137	188	251	333	441	593
			-46	-25	0	29	63	105	156	219	300	409	561
140	63.00	bu	8	32	59	90	127	172	227	295	383	500	664
			-23	0	27	58	95	140	195	263	351	468	631
150	67.50	bu	32	57	86	119	159	207	266	339	433	558	734
			0	25	54	87	127	175	234	307	401	526	702

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.1586	1.65	_____
Tractors	hour	10.38	0.6473	6.72	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	6.2667	14.29	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	4.8877	11.16	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.57	1.0000	5.57	_____
Tractors	Acre	3.43	1.0000	3.43	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	7.08	1.0000	7.08	_____

TOTAL DIRECT EXPENSES				372.58	_____
FIXED EXPENSES					
Implements	Acre	10.71	1.0000	10.71	_____
Tractors	Acre	21.67	1.0000	21.67	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____

TOTAL FIXED EXPENSES				93.02	_____

TOTAL SPECIFIED EXPENSES				465.60	_____

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, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	Oct	2.59	3.25	1.05	1.18	0.11	1.23				9.30
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.29	1.59	0.45	1.90	0.04	0.48				5.71
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
NT Plant-Folding	12R-20	MFWD 190	0.098	1.00	May	2.72	3.34	2.46	4.70	0.19	2.04				15.26
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.04	1.27	0.14	0.17	0.06	0.66				3.28
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	16.83	50.32	0.44	4.66	1.0000		8.25	97.85
TOTALS						23.38	33.15	21.97	59.87	1.04	11.14			309.01	458.52
INTEREST ON OPERATING CAPITAL															7.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															465.60

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, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.60	4.91	5.27	5.69	6.18	6.77	7.49	8.39	9.56	11.10	13.27
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-238	-229	-220	-208	-195	-178	-158	-134	-102	-59	0
			-331	-322	-313	-301	-288	-271	-251	-227	-195	-152	-93
60	33.00	bu	-214	-204	-192	-178	-162	-143	-119	-89	-51	0	71
			-307	-297	-285	-271	-255	-236	-212	-182	-144	-93	-21
70	38.50	bu	-190	-178	-165	-149	-130	-107	-79	-44	0	59	143
			-283	-271	-258	-242	-223	-200	-172	-137	-93	-33	50
80	44.00	bu	-166	-153	-137	-119	-97	-71	-39	0	51	119	214
			-259	-246	-230	-212	-190	-164	-132	-93	-41	26	121
90	49.50	bu	-143	-127	-110	-89	-65	-35	0	44	102	178	286
			-236	-220	-203	-182	-158	-128	-93	-48	9	85	193
100	55.00	bu	-119	-102	-82	-59	-32	0	39	89	153	238	357
			-212	-195	-175	-152	-125	-93	-53	-3	60	145	264
110	60.50	bu	-95	-76	-55	-29	0	35	79	134	204	298	429
			-188	-169	-148	-122	-93	-57	-13	41	111	204	336
120	66.00	bu	-71	-51	-27	0	32	71	119	178	255	357	500
			-164	-144	-120	-93	-60	-21	26	85	162	264	407
130	71.50	bu	-47	-25	0	29	65	107	158	223	306	417	572
			-140	-118	-93	-63	-28	14	65	130	213	324	479
140	77.00	bu	-23	0	27	59	97	143	198	268	357	476	643
			-116	-93	-65	-33	4	50	105	175	264	383	550
150	82.50	bu	0	25	55	89	130	178	238	312	408	536	715
			-93	-67	-38	-3	37	85	145	219	315	443	622

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, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.73	6.12	6.57	7.09	7.72	8.46	9.37	10.51	11.97	13.92	16.65
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-207	-196	-184	-169	-152	-132	-107	-75	-35	17	93
			-300	-289	-277	-262	-245	-225	-200	-168	-128	-75	0
60	33.00	bu	-177	-164	-149	-132	-111	-87	-57	-19	28	93	183
			-270	-257	-242	-225	-204	-180	-150	-112	-64	0	90
70	38.50	bu	-147	-132	-114	-94	-70	-42	-7	36	93	168	273
			-240	-225	-207	-187	-163	-135	-100	-56	0	75	180
80	44.00	bu	-117	-100	-80	-57	-29	2	42	93	157	243	363
			-210	-193	-173	-150	-122	-90	-50	0	64	150	270
90	49.50	bu	-87	-67	-45	-19	11	47	93	149	221	318	453
			-180	-160	-138	-112	-81	-45	0	56	128	225	360
100	55.00	bu	-57	-35	-10	17	52	93	143	205	286	393	543
			-150	-128	-103	-75	-40	0	50	112	193	300	450
110	60.50	bu	-27	-3	23	55	93	138	193	262	350	468	633
			-120	-96	-69	-37	0	45	100	168	257	375	540
120	66.00	bu	2	28	58	93	133	183	243	318	414	543	723
			-90	-64	-34	0	40	90	150	225	321	450	630
130	71.50	bu	32	60	93	130	174	228	293	374	479	618	814
			-60	-32	0	37	81	135	200	281	386	525	721
140	77.00	bu	62	93	127	168	215	273	343	430	543	693	904
			-30	0	34	75	122	180	250	337	450	600	811
150	82.50	bu	93	125	162	205	256	318	393	487	608	768	994
			0	32	69	112	163	225	300	394	515	675	901

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, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
LA Rice GPS Charge-SW	acre	0.35	3.0000	1.05	_____
App by Air (3 gal)	appl	5.00	4.0000	20.00	_____
HARVEST AIDS					
Gramoxone Max	pt	4.06	1.0000	4.06	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup Ultra MAX	pt	5.97	3.5000	20.90	_____
Classic	oz	17.18	0.2500	4.30	_____
INSECTICIDES					
Dimilin 2L	oz	1.45	2.0000	2.90	_____
Besiege	oz	1.90	10.0000	19.00	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Methyl Parathion	pt	5.79	1.0000	5.79	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	75.0000	97.50	_____
ADJUVANTS					
Surfactant	pt	1.63	0.5000	0.82	_____
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	10.38	0.3772	3.93	_____
LA Other Labor					
Special Labor	hour	10.38	0.1250	1.30	_____
DIESEL FUEL					
Tractors	gal	2.28	3.3869	7.72	_____
Self-Propelled	gal	2.28	1.4915	3.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.79	1.0000	3.79	_____
Tractors	acre	1.90	1.0000	1.90	_____
Self-Propelled	acre	8.40	1.0000	8.40	_____
INTEREST ON OP. CAP.	acre	6.42	1.0000	6.42	_____
TOTAL DIRECT EXPENSES				330.13	_____
FIXED EXPENSES					
Implements	acre	8.62	1.0000	8.62	_____
Tractors	acre	11.61	1.0000	11.61	_____
Self-Propelled	acre	12.77	1.0000	12.77	_____
TOTAL FIXED EXPENSES				33.00	_____
TOTAL SPECIFIED EXPENSES				363.13	_____

Table 6.B Estimated resource use and costs for field operations, per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	32'	Track 300	0.061	1.00	Nov	2.77	3.84	0.92	1.94	0.06	0.64				10.11
LARice Land Level	13 ft	MFWD 150	0.190	0.20	Nov	0.83	0.94	0.03	0.13	0.03	0.39				2.32
Ditcher		MFWD 150	0.020	1.00	Nov	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Disk Harrow	32'	MFWD 150	0.061	1.00	Mar	1.33	1.51	0.92	1.94	0.06	0.64				6.34
Custom Spread(Truc	appl			1.00	Mar							1.0000	4.50	4.50	4.50
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Field Cultivate	24'	MFWD 150	0.062	1.00	Mar	1.35	1.53	0.45	1.91	0.06	0.65				5.89
Ditcher		MFWD 150	0.020	1.00	Apr	0.43	0.49	0.05	0.06	0.02	0.21				1.24
Grain Drill	20'	MFWD 150	0.094	1.00	May	2.05	2.32	1.32	2.52	0.18	1.83				10.04
LA Other Labor	hour									0.12	1.30				1.30
Soybean Seed RR	lb											75.0000	1.30	97.50	97.50
Ditcher		MFWD 150	0.020	1.00	May	0.43	0.49	0.05	0.06	0.02	0.21				1.24
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup Ultra MAX	pt											2.0000	5.97	11.94	11.94
Classic	oz											0.2500	17.18	4.30	4.30
Surfactant	pt											0.2000	1.63	0.33	0.33
LRice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup Ultra MAX	pt											1.5000	5.97	8.96	8.96
LRice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Dimilin 2L	oz											2.0000	1.45	2.90	2.90
Quadris	oz											6.0000	1.56	9.36	9.36
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (5 gal)	appl			1.00	Aug							1.0000	6.50	6.50	6.50
Methyl Parathion	pt											1.0000	5.79	5.79	5.79
LRice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Stratego	pt											0.6250	25.00	15.63	15.63
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (5 gal)	appl			1.00	Sep								6.50		
Gramoxone Max	pt											1.0000	4.06	4.06	4.06
Surfactant	pt											0.3000	1.63	0.49	0.49
LARice Combine Med	20 ft		0.210	1.00	Oct	11.80	12.77			0.23	3.54				28.11
Haul Soybeans	bu			1.00	Oct							35.0000	0.27	9.45	9.45
TOTALS						21.42	24.38	3.79	8.62	0.82	9.62			288.88	356.71
INTEREST ON OPERATING CAPITAL															6.42
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															363.13

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, 2018.

			-----BREAKEVEN PRICE-----										
LA Soybeans			6.37	6.81	7.31	7.90	8.59	9.43	10.45	11.72	13.35	15.53	18.59
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-213	-206	-197	-187	-174	-160	-142	-120	-91	-53	0
			-246	-239	-230	-220	-207	-193	-175	-153	-124	-86	-33
60	21.00	bu	-192	-183	-172	-160	-145	-128	-106	-80	-45	0	64
			-225	-216	-205	-193	-178	-161	-139	-113	-78	-33	31
70	24.50	bu	-171	-160	-147	-133	-116	-96	-71	-40	0	53	128
			-204	-193	-180	-166	-149	-129	-104	-73	-33	20	95
80	28.00	bu	-149	-137	-123	-106	-87	-64	-35	0	45	106	192
			-182	-170	-156	-139	-120	-97	-68	-33	12	73	159
90	31.50	bu	-128	-114	-98	-80	-58	-32	0	40	91	160	256
			-161	-147	-131	-113	-91	-65	-33	7	58	127	223
100	35.00	bu	-106	-91	-73	-53	-29	0	35	80	137	213	320
			-139	-124	-106	-86	-62	-33	2	47	104	180	287
110	38.50	bu	-85	-68	-49	-26	0	32	71	120	183	267	384
			-118	-101	-82	-59	-33	-0	38	87	150	234	351
120	42.00	bu	-64	-45	-24	0	29	64	106	160	229	320	448
			-97	-78	-57	-33	-3	31	73	127	196	287	415
130	45.50	bu	-42	-22	0	26	58	96	142	200	274	374	513
			-75	-55	-33	-6	25	63	109	167	241	341	480
140	49.00	bu	-21	0	24	53	87	128	178	240	320	427	577
			-54	-33	-8	20	54	95	145	207	287	394	544
150	52.50	bu	0	22	49	80	116	160	213	280	366	480	641
			-33	-10	16	47	83	127	180	247	333	447	608

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, 2018.

			-----BREAKEVEN PRICE-----										
LA Soybeans			7.00	7.48	8.04	8.69	9.45	10.37	11.49	12.90	14.70	17.11	20.47
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-202	-194	-184	-173	-159	-143	-124	-99	-68	-25	33
			-235	-227	-217	-206	-192	-176	-157	-132	-101	-58	0
60	21.00	bu	-179	-169	-157	-143	-127	-108	-84	-55	-17	33	103
			-212	-202	-190	-176	-160	-141	-117	-88	-50	0	70
70	24.50	bu	-155	-143	-130	-114	-95	-73	-45	-11	33	91	174
			-188	-176	-163	-147	-128	-106	-78	-44	0	58	141
80	28.00	bu	-132	-118	-103	-84	-63	-37	-6	33	83	150	245
			-165	-151	-136	-117	-96	-70	-39	0	50	117	212
90	31.50	bu	-108	-93	-75	-55	-31	-2	33	77	134	209	315
			-141	-126	-108	-88	-64	-35	0	44	101	176	282
100	35.00	bu	-84	-68	-48	-25	0	33	72	121	184	268	386
			-117	-101	-81	-58	-32	0	39	88	151	235	353
110	38.50	bu	-61	-42	-21	3	33	68	111	165	235	327	457
			-94	-75	-54	-29	0	35	78	132	202	294	424
120	42.00	bu	-37	-17	5	33	65	103	150	209	285	386	528
			-70	-50	-27	0	32	70	117	176	252	353	495
130	45.50	bu	-14	7	33	62	97	139	190	254	336	445	598
			-47	-25	0	29	64	106	157	221	303	412	565
140	49.00	bu	9	33	60	91	129	174	229	298	386	504	669
			-23	0	27	58	96	141	196	265	353	471	636
150	52.50	bu	33	58	87	121	161	209	268	342	437	563	740
			0	25	54	88	128	176	235	309	404	530	707

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

Table 7.A Estimated costs per Acre
 Soybeans, RR, 12-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.38	0.0966	1.01	_____
Tractors	hour	10.38	0.3516	3.66	_____
DIESEL FUEL					
Tractors	gal	2.28	3.5802	8.16	_____
Harvesters	gal	2.28	1.2047	2.75	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.55	1.0000	4.55	_____
Tractors	Acre	1.97	1.0000	1.97	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
INTEREST ON OP. CAP.	Acre	6.35	1.0000	6.35	_____

TOTAL DIRECT EXPENSES				330.57	_____
FIXED EXPENSES					
Implements	Acre	8.18	1.0000	8.18	_____
Tractors	Acre	12.47	1.0000	12.47	_____
Harvesters	Acre	11.48	1.0000	11.48	_____

TOTAL FIXED EXPENSES				32.13	_____

TOTAL SPECIFIED EXPENSES				362.70	_____

Table 7.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Oct	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.04	1.27	0.14	0.17	0.06	0.66				3.28
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						15.79	23.95	4.55	8.18	0.53	5.82			298.06	356.35
INTEREST ON OPERATING CAPITAL															6.35
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															362.70

Table 7.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, stale seedbed, non-irrigated,
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.98	5.32	5.71	6.16	6.70	7.34	8.13	9.11	10.37	12.06	14.41
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-212	-204	-195	-185	-173	-159	-141	-119	-90	-53	0
			-244	-236	-228	-217	-205	-191	-173	-151	-123	-85	-32
60	27.00	bu	-190	-181	-171	-159	-144	-127	-106	-79	-45	0	63
			-223	-214	-203	-191	-176	-159	-138	-111	-77	-32	31
70	31.50	bu	-169	-159	-146	-132	-115	-95	-70	-39	0	53	127
			-201	-191	-179	-164	-147	-127	-102	-71	-32	20	95
80	36.00	bu	-148	-136	-122	-106	-86	-63	-35	0	45	106	190
			-180	-168	-154	-138	-118	-95	-67	-32	13	73	158
90	40.50	bu	-127	-113	-97	-79	-57	-31	0	39	90	159	254
			-159	-145	-130	-111	-90	-63	-32	7	58	127	222
100	45.00	bu	-106	-90	-73	-53	-28	0	35	79	136	212	318
			-138	-123	-105	-85	-61	-32	3	47	104	180	286
110	49.50	bu	-84	-68	-48	-26	0	31	70	119	181	265	381
			-117	-100	-81	-58	-32	-0	38	87	149	233	349
120	54.00	bu	-63	-45	-24	0	28	63	106	159	227	318	445
			-95	-77	-56	-32	-3	31	73	127	195	286	413
130	58.50	bu	-42	-22	0	26	57	95	141	198	272	371	509
			-74	-54	-32	-5	25	63	109	166	240	339	477
140	63.00	bu	-21	0	24	53	86	127	176	238	318	424	572
			-53	-32	-7	20	54	95	144	206	286	392	540
150	67.50	bu	0	22	48	79	115	159	212	278	363	477	636
			-32	-9	16	47	83	127	180	246	331	445	604

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

Table 7.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, stale seedbed, non-irrigated,
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.46	5.83	6.26	6.76	7.35	8.06	8.92	10.00	11.39	13.25	15.84
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-201	-193	-183	-172	-159	-143	-123	-99	-67	-26	32
			-233	-225	-215	-204	-191	-175	-155	-131	-100	-58	0
60	27.00	bu	-178	-168	-156	-143	-127	-108	-84	-55	-17	32	102
			-210	-200	-188	-175	-159	-140	-116	-87	-50	0	70
70	31.50	bu	-154	-143	-129	-113	-95	-73	-45	-11	32	90	172
			-186	-175	-161	-146	-127	-105	-77	-43	0	58	140
80	36.00	bu	-131	-118	-102	-84	-63	-37	-6	32	82	148	242
			-163	-150	-134	-116	-95	-70	-38	0	50	116	210
90	40.50	bu	-108	-93	-75	-55	-31	-2	32	75	132	207	312
			-140	-125	-107	-87	-63	-35	0	43	100	175	280
100	45.00	bu	-84	-67	-48	-26	0	32	71	119	182	265	382
			-116	-100	-80	-58	-31	0	38	87	150	233	350
110	49.50	bu	-61	-42	-21	2	32	67	110	163	232	324	452
			-93	-75	-53	-29	0	35	77	131	200	292	420
120	54.00	bu	-37	-17	5	32	63	102	148	207	282	382	522
			-70	-50	-26	0	31	70	116	175	250	350	490
130	58.50	bu	-14	7	32	61	95	137	187	251	332	440	592
			-46	-25	0	29	63	105	155	219	300	408	560
140	63.00	bu	8	32	59	90	127	172	226	294	382	499	662
			-23	0	26	58	95	140	194	262	350	467	630
150	67.50	bu	32	57	86	119	159	207	265	338	432	557	733
			0	25	53	87	127	175	233	306	400	525	700

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

Table 8.A Estimated costs per Acre

Soybeans, RR, 12-row equipment, stale seedbed, irrigated,
alluvial soils, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.0966	1.01	_____
Tractors	hour	10.38	0.6447	6.70	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	6.4077	14.61	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	4.8877	11.16	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.98	1.0000	4.98	_____
Tractors	Acre	3.52	1.0000	3.52	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	6.99	1.0000	6.99	_____

TOTAL DIRECT EXPENSES				370.15	_____
FIXED EXPENSES					
Implements	Acre	9.34	1.0000	9.34	_____
Tractors	Acre	22.26	1.0000	22.26	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____

TOTAL FIXED EXPENSES				92.24	_____

TOTAL SPECIFIED EXPENSES				462.39	_____

Table 8.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, stale seedbed, irrigated,
 alluvial soils, Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Oct	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.04	1.27	0.14	0.17	0.06	0.66				3.28
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	16.83	50.32	0.44	4.66	1.0000		8.25	97.85
TOTALS						23.79	33.74	21.38	58.50	0.98	10.48			307.51	455.40
INTEREST ON OPERATING CAPITAL															6.99
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															462.39

Table 8.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, stale seedbed, irrigated,
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.57	4.88	5.23	5.65	6.14	6.73	7.44	8.34	9.49	11.03	13.18
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-236	-228	-218	-207	-193	-177	-157	-133	-101	-59	0
			-329	-320	-310	-299	-285	-269	-250	-225	-193	-151	-92
60	33.00	bu	-213	-202	-191	-177	-161	-142	-118	-88	-50	0	71
			-305	-295	-283	-269	-253	-234	-210	-181	-142	-92	-21
70	38.50	bu	-189	-177	-163	-147	-129	-106	-78	-44	0	59	142
			-281	-269	-256	-240	-221	-198	-171	-136	-92	-33	49
80	44.00	bu	-165	-152	-136	-118	-96	-71	-39	0	50	118	213
			-257	-244	-228	-210	-189	-163	-131	-92	-41	26	120
90	49.50	bu	-142	-126	-109	-88	-64	-35	0	44	101	177	284
			-234	-219	-201	-181	-156	-127	-92	-47	9	85	191
100	55.00	bu	-118	-101	-81	-59	-32	0	39	88	152	236	355
			-210	-193	-174	-151	-124	-92	-52	-3	59	144	262
110	60.50	bu	-94	-76	-54	-29	0	35	78	133	202	295	426
			-186	-168	-146	-121	-92	-56	-13	40	110	203	333
120	66.00	bu	-71	-50	-27	0	32	71	118	177	253	355	497
			-163	-142	-119	-92	-59	-21	26	85	161	262	405
130	71.50	bu	-47	-25	0	29	64	106	157	221	304	414	568
			-139	-117	-92	-62	-27	14	65	129	212	322	476
140	77.00	bu	-23	0	27	59	96	142	197	266	355	473	639
			-115	-92	-64	-33	4	49	105	174	262	381	547
150	82.50	bu	0	25	54	88	129	177	236	310	405	532	710
			-92	-66	-37	-3	36	85	144	218	313	440	618

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

Table 8.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, stale seedbed, irrigated,
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.69	6.08	6.52	7.05	7.66	8.40	9.31	10.44	11.89	13.83	16.54
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-206	-195	-183	-168	-151	-131	-106	-75	-35	17	92
			-298	-287	-275	-260	-244	-223	-198	-167	-127	-74	0
60	33.00	bu	-176	-163	-148	-131	-111	-86	-56	-19	28	92	181
			-268	-255	-240	-223	-203	-178	-149	-111	-63	0	89
70	38.50	bu	-146	-131	-114	-94	-70	-41	-7	36	92	166	271
			-238	-223	-206	-186	-162	-134	-99	-55	0	74	178
80	44.00	bu	-116	-99	-79	-56	-29	2	42	92	156	241	360
			-208	-191	-172	-149	-122	-89	-49	0	63	149	268
90	49.50	bu	-86	-67	-45	-19	10	47	92	148	220	315	450
			-178	-159	-137	-111	-81	-44	0	55	127	223	357
100	55.00	bu	-56	-35	-11	17	51	92	141	204	283	390	539
			-149	-127	-103	-74	-40	0	49	111	191	298	447
110	60.50	bu	-27	-3	23	54	92	136	191	260	347	465	629
			-119	-95	-68	-37	0	44	99	167	255	372	536
120	66.00	bu	2	28	57	92	132	181	241	315	411	539	718
			-89	-63	-34	0	40	89	149	223	319	447	626
130	71.50	bu	32	60	92	129	173	226	291	371	475	614	808
			-59	-31	0	37	81	134	198	279	383	521	715
140	77.00	bu	62	92	126	166	214	271	340	427	539	688	897
			-29	0	34	74	122	178	248	335	447	596	805
150	82.50	bu	92	124	161	204	254	315	390	483	603	763	987
			0	31	68	111	162	223	298	391	511	671	894

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 9.A Estimated costs per Acre
 Soybeans, RR, 12-row equipment, stale seedbed,
 irrigated, Macon Ridge, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.0966	1.01	_____
Tractors	hour	10.38	0.6447	6.70	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	6.4077	14.61	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	4.8877	11.16	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.19	1.0000	5.19	_____
Tractors	Acre	3.52	1.0000	3.52	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	6.87	1.0000	6.87	_____
TOTAL DIRECT EXPENSES				353.71	_____
FIXED EXPENSES					
Implements	Acre	9.59	1.0000	9.59	_____
Tractors	Acre	22.26	1.0000	22.26	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____
TOTAL FIXED EXPENSES				92.49	_____
TOTAL SPECIFIED EXPENSES				446.20	_____

Table 9.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, stale seedbed,
 irrigated, Macon Ridge, Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Oct	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.31	2.90	0.98	2.08	0.07	0.73				9.00
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.62	2.04	0.36	0.95	0.04	0.51				5.48
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.38	1.69	1.38	2.64	0.09	1.04				8.13
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.04	1.27	0.35	0.42	0.06	0.66				3.74
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50	13.50
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	16.83	50.32	0.44	4.66	1.0000		8.25	97.85
TOTALS						23.79	33.74	21.59	58.75	0.98	10.48			290.98	439.33
INTEREST ON OPERATING CAPITAL															6.87
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															446.20

Table 9.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, stale seedbed,
irrigated, Macon Ridge, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.80	5.13	5.50	5.94	6.45	7.07	7.82	8.77	9.98	11.60	13.87
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-226	-218	-209	-198	-185	-170	-151	-127	-97	-56	0
			-319	-311	-301	-290	-277	-262	-243	-220	-189	-149	-92
60	30.00	bu	-204	-194	-183	-170	-154	-136	-113	-85	-48	0	68
			-296	-286	-275	-262	-247	-228	-205	-177	-141	-92	-24
70	35.00	bu	-181	-170	-156	-141	-123	-102	-75	-42	0	56	136
			-273	-262	-249	-234	-216	-194	-168	-135	-92	-35	43
80	40.00	bu	-158	-145	-130	-113	-92	-68	-37	0	48	113	204
			-251	-238	-223	-205	-185	-160	-130	-92	-43	20	111
90	45.00	bu	-136	-121	-104	-85	-61	-34	0	42	97	170	272
			-228	-213	-197	-177	-154	-126	-92	-49	4	77	179
100	50.00	bu	-113	-97	-78	-56	-30	0	37	85	145	226	340
			-205	-189	-170	-149	-123	-92	-54	-7	53	134	247
110	55.00	bu	-90	-72	-52	-28	0	34	75	127	194	283	408
			-183	-165	-144	-120	-92	-58	-16	35	101	190	315
120	60.00	bu	-68	-48	-26	0	30	68	113	170	242	340	476
			-160	-141	-118	-92	-61	-24	20	77	150	247	383
130	65.00	bu	-45	-24	0	28	61	102	151	212	291	396	544
			-137	-116	-92	-64	-30	9	58	120	199	304	451
140	70.00	bu	-22	0	26	56	92	136	188	255	340	453	612
			-115	-92	-66	-35	0	43	96	162	247	360	519
150	75.00	bu	0	24	52	85	123	170	226	297	388	510	680
			-92	-68	-40	-7	31	77	134	205	296	417	587

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 9.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, stale seedbed,
irrigated, Macon Ridge, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			6.04	6.45	6.92	7.48	8.13	8.92	9.88	11.08	12.63	14.69	17.57
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-195	-185	-173	-159	-143	-123	-99	-69	-31	20	92
			-288	-278	-266	-252	-235	-216	-192	-162	-123	-72	0
60	30.00	bu	-167	-154	-140	-123	-104	-80	-51	-15	30	92	179
			-259	-247	-232	-216	-196	-173	-144	-108	-61	0	86
70	35.00	bu	-138	-123	-107	-87	-64	-37	-3	38	92	164	265
			-230	-216	-199	-180	-157	-129	-96	-54	0	72	173
80	40.00	bu	-109	-92	-73	-51	-25	5	44	92	154	236	352
			-201	-185	-166	-144	-117	-86	-48	0	61	144	259
90	45.00	bu	-80	-62	-40	-15	13	49	92	146	216	308	438
			-173	-154	-133	-108	-78	-43	0	54	123	216	346
100	50.00	bu	-51	-31	-7	20	53	92	140	200	277	380	525
			-144	-123	-99	-72	-39	0	48	108	185	288	432
110	55.00	bu	-22	-0	25	56	92	135	188	254	339	452	611
			-115	-92	-66	-36	0	43	96	162	247	360	519
120	60.00	bu	5	30	59	92	131	179	236	308	401	525	698
			-86	-61	-33	0	39	86	144	216	308	432	605
130	65.00	bu	34	61	92	128	171	222	284	362	463	597	784
			-57	-30	0	36	78	129	192	270	370	504	692
140	70.00	bu	63	92	125	164	210	265	332	416	525	669	871
			-28	0	33	72	117	173	240	324	432	576	778
150	75.00	bu	92	123	159	200	249	308	380	471	586	741	957
			0	30	66	108	157	216	288	378	494	648	865

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 10.A Estimated costs per Acre
 Soybeans, RR, 12-row equipment, 38-inch rows, non-irrigated,
 alluvial soils, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	10.38	0.1124	1.17	_____
Tractors	hour	10.38	0.2946	3.06	_____
DIESEL FUEL					
Tractors	gal	2.28	2.8077	6.40	_____
Harvesters	gal	2.28	1.2047	2.75	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.10	1.0000	4.10	_____
Tractors	Acre	1.52	1.0000	1.52	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
INTEREST ON OP. CAP.	Acre	6.35	1.0000	6.35	_____

TOTAL DIRECT EXPENSES				327.47	_____
FIXED EXPENSES					
Implements	Acre	7.73	1.0000	7.73	_____
Tractors	Acre	9.66	1.0000	9.66	_____
Harvesters	Acre	11.48	1.0000	11.48	_____

TOTAL FIXED EXPENSES				28.87	_____

TOTAL SPECIFIED EXPENSES				356.34	_____

Table 10.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, 38-inch rows, non-irrigated,
 alluvial soils, Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Oct	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.29	1.59	0.45	1.90	0.04	0.48				5.71
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
NT Plant-Rigid	12R-30	MFWD 190	0.065	1.00	May	1.81	2.23	1.61	3.07	0.13	1.36				10.08
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.04	1.27	0.35	0.42	0.06	0.66				3.74
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						13.58	21.14	4.10	7.73	0.49	5.38			298.06	349.99
INTEREST ON OPERATING CAPITAL															6.35
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															356.34

Table 10.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, 38-inch rows, non-irrigated,
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.94	5.27	5.66	6.10	6.64	7.27	8.05	9.02	10.27	11.94	14.28
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-210	-202	-193	-183	-171	-157	-140	-118	-90	-52	0
			-239	-231	-222	-212	-200	-186	-168	-147	-118	-81	-28
60	27.00	bu	-189	-180	-169	-157	-143	-126	-105	-78	-45	0	63
			-218	-208	-198	-186	-172	-154	-133	-107	-73	-28	34
70	31.50	bu	-168	-157	-145	-131	-114	-94	-70	-39	0	52	126
			-196	-186	-174	-160	-143	-123	-98	-68	-28	23	97
80	36.00	bu	-147	-135	-121	-105	-85	-63	-35	0	45	105	189
			-175	-163	-150	-133	-114	-91	-63	-28	16	76	160
90	40.50	bu	-126	-112	-96	-78	-57	-31	0	39	90	157	252
			-154	-141	-125	-107	-86	-60	-28	10	61	128	223
100	45.00	bu	-105	-90	-72	-52	-28	0	35	78	135	210	315
			-133	-118	-101	-81	-57	-28	6	49	106	181	286
110	49.50	bu	-84	-67	-48	-26	0	31	70	118	180	262	378
			-112	-96	-77	-55	-28	2	41	89	151	233	349
120	54.00	bu	-63	-45	-24	0	28	63	105	157	225	315	441
			-91	-73	-53	-28	-0	34	76	128	196	286	412
130	58.50	bu	-42	-22	0	26	57	94	140	197	270	367	504
			-70	-51	-28	-2	28	65	111	168	241	338	475
140	63.00	bu	-21	0	24	52	85	126	175	236	315	420	567
			-49	-28	-4	23	57	97	146	207	286	391	538
150	67.50	bu	0	22	48	78	114	157	210	275	360	472	630
			-28	-6	19	49	85	128	181	246	331	443	601

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 10.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, 38-inch rows, non-irrigated,
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.36	5.73	6.15	6.64	7.22	7.91	8.76	9.83	11.19	13.01	15.56
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-200	-192	-182	-171	-158	-143	-124	-100	-69	-28	28
			-229	-221	-211	-200	-187	-172	-152	-129	-98	-57	0
60	27.00	bu	-177	-167	-156	-143	-127	-108	-85	-57	-20	28	97
			-206	-196	-185	-172	-156	-137	-114	-86	-49	0	68
70	31.50	bu	-154	-143	-129	-114	-96	-74	-47	-14	28	86	166
			-183	-172	-158	-143	-125	-103	-76	-43	0	57	137
80	36.00	bu	-131	-118	-103	-85	-64	-39	-9	28	78	143	235
			-160	-147	-132	-114	-93	-68	-38	0	49	114	206
90	40.50	bu	-108	-94	-77	-57	-33	-5	28	71	127	200	304
			-137	-122	-105	-86	-62	-34	0	43	98	172	275
100	45.00	bu	-85	-69	-50	-28	-2	28	67	114	176	258	372
			-114	-98	-79	-57	-31	0	38	86	147	229	344
110	49.50	bu	-62	-44	-24	0	28	63	105	157	225	315	441
			-91	-73	-52	-28	0	34	76	129	196	286	412
120	54.00	bu	-39	-20	2	28	60	97	143	200	274	372	510
			-68	-49	-26	0	31	68	114	172	245	344	481
130	58.50	bu	-17	4	28	57	91	132	181	243	323	430	579
			-45	-24	0	28	62	103	152	215	294	401	550
140	63.00	bu	5	28	55	86	122	166	220	286	372	487	648
			-22	0	26	57	93	137	191	258	344	458	619
150	67.50	bu	28	53	81	114	153	200	258	329	422	545	717
			0	24	52	86	125	172	229	301	393	516	688

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 11.A Estimated costs per Acre
 Soybeans, RR, 12-row equipment, 38-inch rows, irrigated
 alluvial soils, Northeast Louisiana, 2018.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.40	50.0000	20.00	_____
LA Potash	lb	0.26	50.0000	13.00	_____
FUNGICIDES					
Quadris	oz	1.56	6.0000	9.36	_____
Stratego	pt	25.00	0.6250	15.63	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	6.38	2.0000	12.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	8.75	0.7500	6.56	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.90	10.0000	19.00	_____
Surfactant	pt	1.63	1.0000	1.63	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
CUSTOM FERT/LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	10.38	0.0986	1.03	_____
Tractors	hour	10.38	0.5739	5.96	_____
LA Irrigation Labor					
Special Labor	hour	10.38	0.1500	1.56	_____
DIESEL FUEL					
Tractors	gal	2.28	5.5004	12.54	_____
Harvesters	gal	2.28	1.2047	2.75	_____
Roll-Out Pipe Irr.	gal	2.28	4.8877	11.16	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.28	1.0000	4.28	_____
Tractors	Acre	3.00	1.0000	3.00	_____
Harvesters	Acre	2.91	1.0000	2.91	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	6.98	1.0000	6.98	_____

TOTAL DIRECT EXPENSES				367.63	_____
FIXED EXPENSES					
Implements	Acre	8.58	1.0000	8.58	_____
Tractors	Acre	18.98	1.0000	18.98	_____
Harvesters	Acre	11.48	1.0000	11.48	_____
Roll-Out Pipe Irr.	Acre	49.16	1.0000	49.16	_____

TOTAL FIXED EXPENSES				88.20	_____

TOTAL SPECIFIED EXPENSES				455.83	_____

Table 11.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 12-row equipment, 38-inch rows, irrigated
 alluvial soils, Northeast Louisiana, 2018.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Oct	1.70	2.14	0.65	0.74	0.07	0.81				6.04
LA Phosphate	lb											50.0000	0.40	20.00	20.00
LA Potash	lb											50.0000	0.26	13.00	13.00
Lime (Spread)	ton			0.33	Oct							0.3300	46.00	15.18	15.18
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.29	1.59	0.45	1.90	0.04	0.48				5.71
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.34	1.65	0.06	0.15	0.04	0.50				3.70
Ditcher		2WD 130	0.020	1.00	Oct	0.37	0.39	0.05	0.06	0.02	0.21				1.08
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	6.38	12.76	12.76
NT Plant-Folding	12R-38	MFWD 190	0.051	1.00	May	1.43	1.76	1.57	3.01	0.10	1.08				8.85
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.37	0.39	0.05	0.06	0.02	0.21				1.08
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.04	1.27	0.14	0.17	0.06	0.66				3.28
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Quadris	oz											6.0000	1.56	9.36	9.36
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.90	9.50	9.50
Stratego	pt											0.6250	25.00	15.63	15.63
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	8.75	3.28	3.28
Besiege	oz											5.0000	1.90	9.50	9.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.63	1.63	1.63
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.66	11.48	0.88	1.33	0.08	1.15				20.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.00	9.79	16.83	50.32	0.44	4.66	1.0000		8.25	97.85
TOTALS						21.20	30.46	20.68	57.74	0.91	9.76			309.01	448.85
INTEREST ON OPERATING CAPITAL															6.98
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															455.83

Table 11.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, 38-inch rows, irrigated
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			4.54	4.85	5.20	5.61	6.10	6.68	7.39	8.28	9.43	10.95	13.09
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-235	-226	-217	-205	-192	-176	-156	-132	-100	-58	0
			-323	-314	-305	-293	-280	-264	-244	-220	-188	-146	-88
60	33.00	bu	-211	-201	-189	-176	-160	-141	-117	-88	-50	0	70
			-299	-289	-278	-264	-248	-229	-205	-176	-138	-88	-17
70	38.50	bu	-188	-176	-162	-146	-128	-105	-78	-44	0	58	141
			-276	-264	-250	-235	-216	-193	-166	-132	-88	-29	52
80	44.00	bu	-164	-151	-135	-117	-96	-70	-39	0	50	117	211
			-252	-239	-223	-205	-184	-158	-127	-88	-37	29	123
90	49.50	bu	-141	-125	-108	-88	-64	-35	0	44	100	176	282
			-229	-214	-196	-176	-152	-123	-88	-44	12	88	193
100	55.00	bu	-117	-100	-81	-58	-32	0	39	88	151	235	352
			-205	-188	-169	-146	-120	-88	-49	-0	62	146	264
110	60.50	bu	-94	-75	-54	-29	0	35	78	132	201	293	423
			-182	-163	-142	-117	-88	-52	-9	44	113	205	334
120	66.00	bu	-70	-50	-27	0	32	70	117	176	251	352	493
			-158	-138	-115	-88	-56	-17	29	88	163	264	405
130	71.50	bu	-47	-25	0	29	64	105	156	220	302	411	564
			-135	-113	-88	-58	-24	17	68	132	214	323	476
140	77.00	bu	-23	0	27	58	96	141	195	264	352	470	634
			-111	-88	-61	-29	7	52	107	176	264	382	546
150	82.50	bu	0	25	54	88	128	176	235	308	403	528	705
			-88	-63	-33	-0	40	88	146	220	314	440	617

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 11.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 12-row equipment, 38-inch rows, irrigated
alluvial soils, Northeast Louisiana, 2018.

			-----BREAKEVEN PRICE-----										
Soybeans			5.61	5.99	6.43	6.95	7.55	8.28	9.17	10.29	11.72	13.63	16.30
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-205	-195	-183	-168	-152	-132	-107	-77	-37	14	88
			-293	-283	-271	-257	-240	-220	-195	-165	-125	-73	0
60	33.00	bu	-176	-163	-149	-132	-112	-88	-58	-22	25	88	176
			-264	-251	-237	-220	-200	-176	-146	-110	-62	0	88
70	38.50	bu	-146	-132	-115	-95	-72	-44	-9	33	88	161	264
			-235	-220	-203	-183	-160	-132	-97	-55	0	73	176
80	44.00	bu	-117	-100	-81	-58	-32	0	39	88	151	235	352
			-205	-188	-169	-146	-120	-88	-48	0	62	146	264
90	49.50	bu	-88	-69	-47	-22	8	44	88	143	214	308	440
			-176	-157	-135	-110	-80	-44	0	55	125	220	352
100	55.00	bu	-58	-37	-13	14	48	88	137	198	277	382	529
			-146	-125	-101	-73	-40	0	48	110	188	293	440
110	60.50	bu	-29	-6	20	51	88	132	186	253	340	455	617
			-117	-94	-67	-36	0	44	97	165	251	367	529
120	66.00	bu	0	25	54	88	128	176	235	308	403	529	705
			-88	-62	-33	0	40	88	146	220	314	440	617
130	71.50	bu	29	56	88	124	168	220	284	363	466	602	793
			-58	-31	0	36	80	132	195	275	377	514	705
140	77.00	bu	58	88	122	161	208	264	333	418	529	676	881
			-29	0	33	73	120	176	244	330	440	587	793
150	82.50	bu	88	119	156	198	248	308	382	473	592	749	969
			0	31	67	110	160	220	293	385	503	661	881

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

Appendix Table 1 Estimated costs per Acre
 Poly pipe irrigation system, 160 acres
 applying 10.5 inches in three applications Louisiana, 2018.

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

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

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

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

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

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

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

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

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

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

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Fultime	pt	6.29
Fusilade DX	oz	1.00
Fusion	pt	29.86
Glyphos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	1.75
Glystar Plus	pt	2.17
Goal 2XL	pt	9.89
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	5.46
Gramoxone Max	pt	5.46
Grandstand R	qt	17.15
Guardzman	pt	4.66
Guardzman Max	pt	7.22
Harmony Extra	oz	12.00
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	38.80
LA Weedmaster	qt	3.08
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	6.30
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	2.90
MSMA6 + Surfactant	pt	3.63
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.47
Pendimax 3.3	pt	2.47
Permit 75DF	oz	18.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	6.07
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.58
Raptor	oz	4.38
Reflex 2LC	pt	6.52
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	2.50
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.48
Select 2EC	oz	0.66
Sencor 4F	pt	14.74
Sencor DF	lb	9.00
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.61
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	12.75
Strongarm	oz	56.42
Superwham	qt	9.18
Suprend	lb	13.49

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

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

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

ITEM NAME	UNIT	PRICE
INSECTICIDES CONT'D		
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
Synthetic Pyrethroid	oz	0.00
Temik 15G Grit	lb	4.00
Thimet 20-G	lb	3.65
Thionex 3EC	pt	4.17
Thionex 50W	lb	10.45
Tracer	oz	9.73
Trimax	oz	1.85
Vydate C-LV	oz	0.93
Warrior Z	oz	1.80
Warrior ZT	oz	1.88
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LA Rice Insurance	Dollar	1.00
LA Rice Misc. Overhd	dollar	1.00
LA Rice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	2.60
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.13
Cotton Seed Bt	thoud	0.28
Cotton Seed BtRR	thous	1.26
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
LA Hybrid Rice Seed	acre	160.00
Rice Clearfield 161	lb	1.03
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.28
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.85
Sorghum NonConcept	lb	1.18
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	1.30
Wheat Seed Private	lb	0.29
Wheat Seed Public	lb	0.00
SERVICE FEE		
Crop Consultant	acre	7.00
Insect Scouting	acre	7.00
Rice Consultant	acre	8.00
SC Treating Charge	acre	0.00
Survey & Mark Levees	acre	4.50
Survey & Mark Levees	acre	4.50
TECHNOLOGY FEE		
BG Cot Tech Fee	thous	0.28
BG Cot Tech Fee	cap/ac	19.50
BG II Cot Tech Fee	thous	0.76
BG II Cot Tech Fee	cap/ac	31.91
BG II/RR Tech Fee	thous	1.49
BG II/RR Tech Fee	cap/ac	62.69
BG/RR Cot Tech Fee	thous	1.49
BG/RR Cot Tech Fee	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00

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

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

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

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (170-199 hp)	190hp	0	300	8	9.78	13.51	22.29	0.00	35.80	0.00	35.80
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	28.15	16.82	58.49	66.39	124.89
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	29.34	0.00	42.85	0.00	42.85
Combine (250-299 hp)	275hp	328,000	300	8	14.15	13.51	32.26	34.16	79.93	134.81	214.75
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	34.61	22.73	70.85	89.69	160.54
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	34.04	0.00	47.55	0.00	47.55
Combine (300-349 hp)	325hp	355,000	300	8	16.73	13.51	38.14	36.97	88.63	145.91	234.54
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	37.55	0.00	51.06	0.00	51.06
Combine (350-379 hp)	370hp	354,000	300	8	19.04	13.51	43.41	36.87	93.79	145.50	239.29
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	42.84	0.00	56.35	0.00	56.35
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	18.42	26.56	58.49	104.80	163.30
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.38	10.92	2.72	24.02	7.84	31.87
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.38	7.98	1.57	19.93	4.54	24.48
test-mes		0	0	0	0.00	13.51	0.00	0.00	0.00	0.00	0.00
Tractor(40-59hp)Cab	2WD 50	32,300	600	8	2.57	10.38	5.86	1.00	17.25	6.07	23.33
Tractor(40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.38	5.86	1.23	17.48	7.42	24.91
Tractor(40-59hp)RB	2WD 50	21,100	600	8	2.57	10.38	5.86	0.65	16.90	3.96	20.87
Tractor(40-59hp)RB	MFWD 50	24,800	600	8	2.57	10.38	5.86	0.77	17.02	4.66	21.68
Tractor(60-89hp)CAB	2WD 75	49,300	600	8	3.86	10.38	8.80	1.54	20.72	9.27	29.99
Tractor(60-89hp)CAB	MFWD 75	52,500	600	8	3.86	10.38	8.80	1.64	20.82	9.87	30.69
Tractor(60-89hp)RB	2WD 75	33,100	600	8	3.86	10.38	8.80	1.03	20.21	6.22	26.44
Tractor(60-89hp)RB	MFWD 75	37,800	600	8	3.86	10.38	8.80	1.18	20.36	7.10	27.47
Tractor(90-119hp)CB	2WD 105	60,300	600	8	5.40	10.38	12.32	1.88	24.58	11.33	35.92
Tractor(90-119hp)CB	MFWD 105	76,100	600	8	5.40	10.38	12.32	2.37	25.08	14.31	39.39
Tractor(90-119hp)RB	2WD 105	60,300	600	8	5.40	10.38	12.32	1.88	24.58	11.33	35.92
Tractor(90-119hp)RB	MFWD 105	76,100	600	8	5.40	10.38	12.32	2.37	25.08	14.31	39.39
Tractor(120-139hp)CB	2WD 130	103,000	600	8	6.69	10.38	15.25	3.21	28.85	19.36	48.22
Tractor(120-139hp)CB	MFWD 130	113,000	600	8	6.69	10.38	15.25	3.53	29.16	21.25	50.41
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	10.38	17.60	3.37	31.35	20.30	51.66
Tractor(140-159hp)CB	MFWD 150	131,000	600	8	7.72	10.38	17.60	4.09	32.07	24.63	56.71
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.38	19.95	4.87	35.20	30.69	65.90
Tractor(160-179hp)CB	MFWD 170	153,000	600	8	8.75	10.38	19.95	4.78	35.11	30.10	65.21
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.38	21.12	4.45	35.96	28.08	64.04
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.38	22.29	4.46	37.14	28.13	65.28
Tractor(180-199hp)CB	MFWD 190	173,000	600	8	9.77	10.38	22.29	5.40	38.08	34.04	72.12
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.38	26.40	4.59	41.38	28.93	70.32
Tractor(200-249hp)CB	MFWD 225	210,000	600	8	11.58	10.38	26.40	6.56	43.34	41.32	84.67
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.38	26.40	8.65	45.44	54.50	99.95
Tractor(250-349hp)CB	4WD 300	285,000	600	8	15.44	10.38	35.20	8.90	54.49	56.08	110.57
Tractor(250-349hp)CB	Track 300	318,000	600	8	15.44	10.38	35.20	9.93	55.52	62.57	118.10
Tractor(350-449hp)CB	4WD 400	331,000	600	8	20.58	10.38	46.94	10.34	67.66	65.13	132.80
Tractor(350-449hp)CB	Track 400	341,000	600	8	20.58	10.38	46.94	10.65	67.97	67.10	135.08
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.38	55.74	8.74	74.86	55.07	129.94

Appendix Table 5. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Louisiana 2018.

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

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

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

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
-----\$/acre-----														
Field Cultivate	32'	MFWD 190	38,500	100	10	0.046	0.48	1.04	0.44	0.25	2.22	1.89	1.58	5.71
Field Cultivate	42'	MFWD 225	52,600	100	10	0.035	0.36	0.93	0.46	0.23	2.00	1.97	1.46	5.45
Field Cultivate	50'	MFWD 225	62,100	100	10	0.029	0.30	0.78	0.46	0.19	1.75	1.95	1.23	4.95
Gate Installer		2WD 130	2,960	10	10	0.020	0.41	0.30	0.17	0.06	0.96	0.60	0.38	1.95
Grain Drill	12'	2WD 130	25,200	150	8	0.157	3.26	2.39	1.48	0.50	7.65	2.84	3.04	13.53
Grain Drill	15'	MFWD 150	31,800	150	8	0.125	2.60	2.21	1.49	0.51	6.83	2.86	3.09	12.80
Grain Drill	20'	MFWD 170	37,300	150	8	0.094	1.95	1.88	1.31	0.45	5.60	2.52	2.83	10.96
Grain Drill	24'	MFWD 190	63,000	150	8	0.078	1.63	1.75	1.85	0.42	5.66	3.55	2.67	11.88
Grain Drill	30'	MFWD 225	59,500	150	8	0.062	1.30	1.65	1.40	0.41	4.77	2.68	2.59	10.06
Grain Drill & Pre	12'	2WD 130	30,600	150	8	0.169	3.51	2.58	1.94	0.54	8.58	3.71	3.27	15.57
Grain Drill & Pre	15'	MFWD 150	37,200	150	8	0.135	2.81	2.38	1.88	0.55	7.63	3.61	3.33	14.58
Grain Drill & Pre	20'	MFWD 170	42,700	150	8	0.101	2.10	2.02	1.62	0.48	6.24	3.11	3.05	12.41
Grain Drill & Pre	24'	MFWD 190	68,400	150	8	0.084	1.75	1.88	2.17	0.45	6.27	4.15	2.88	13.30
Grain Drill & Pre	30'	MFWD 225	64,800	150	8	0.067	1.40	1.78	1.64	0.44	5.28	3.14	2.79	11.22
Harrow	13'	2WD 130	4,360	200	10	0.119	1.23	1.82	0.18	0.38	3.62	0.27	2.31	6.21
Harrow	21'	2WD 150	6,750	200	10	0.073	0.76	1.30	0.17	0.24	2.49	0.26	1.50	4.25
Harrow	40'	MFWD 190	17,400	200	10	0.038	0.40	0.86	0.23	0.20	1.71	0.35	1.32	3.39
Harrow	47'	MFWD 190	22,700	200	10	0.033	0.34	0.73	0.26	0.17	1.52	0.39	1.12	3.04
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	5.66	1.26	3.38	13.02	1.90	13.35	28.28
Header - Corn	6R30"	240hp	47,300	300	8	0.170	2.30	4.79	2.01	2.86	11.97	3.02	11.30	26.30
Header - Corn	6R38"	240hp	47,700	300	8	0.134	1.81	3.78	1.60	2.26	9.46	2.41	8.92	20.80
Header - Corn	8R-30	240hp	61,500	300	8	0.127	1.72	3.59	1.96	2.14	9.43	2.95	8.47	20.86
Header - Corn	8R-38	275hp	62,100	300	8	0.100	1.36	3.25	1.56	3.44	9.63	2.35	13.61	25.60
Header - Corn	12R-20	275hp	94,400	300	8	0.127	1.72	4.12	3.01	4.36	13.22	4.53	17.21	34.97
Header - Corn	12R-30	275hp	96,300	300	8	0.085	1.15	2.74	2.04	2.90	8.85	3.08	11.47	23.41
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.12	4.64	4.85	21.51	6.98	19.15	47.65
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.14	4.08	4.27	18.93	6.14	16.85	41.94
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	6.82	3.91	7.22	20.82	5.89	28.51	55.24
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.03	4.02	4.20	18.64	6.05	16.59	41.30
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.19	3.54	3.70	16.41	5.32	14.60	36.34
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	5.91	3.39	6.26	18.05	5.10	24.71	47.87
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	4.79	0.00	2.86	9.96	0.00	11.30	21.26
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	3.99	0.72	2.38	9.02	1.08	9.42	19.52
Header - Soybean	22' Flex	240hp	32,400	300	8	0.116	1.56	3.26	0.94	1.95	7.73	1.41	7.70	16.85
Header - Soybean	25' Flex	275hp	34,600	300	8	0.102	1.38	3.29	0.88	3.49	9.05	1.32	13.77	24.15
Header - Soybean	30' Flex	275hp	41,400	300	8	0.085	1.15	2.74	0.88	2.90	7.68	1.32	11.47	20.49
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	3.99	0.67	2.38	8.97	1.01	9.42	19.41
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.26	0.57	1.95	7.36	0.86	7.70	15.93
Header Wheat/Sorghum	25' Rigid	240hp	20,500	300	8	0.102	1.38	2.87	0.52	1.71	6.50	0.78	6.78	14.07
Header Wheat/Sorghum	30' Rigid	275hp	23,600	300	8	0.085	1.15	2.74	0.50	2.90	7.30	0.75	11.47	19.54
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.01	4.63	1.00	6.68	18.35	3.02	26.39	47.77
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	4.88	3.76	0.91	5.43	15.00	2.74	21.44	39.19
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.11	3.17	0.84	4.57	12.71	2.54	18.05	33.32
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	7.82	6.03	1.25	8.69	23.80	3.78	34.31	61.91
Header-Cotton-Brush	4R30*2X1	173hp	34,400	200	8	0.218	5.21	4.02	1.40	5.79	16.43	4.23	22.87	43.54
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.15	4.74	1.64	6.84	19.39	4.94	27.01	51.36
Header-Cotton-Brush	4R38*2X1	173hp	36,000	200	8	0.172	4.11	3.17	1.16	4.57	13.03	3.49	18.05	34.59
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.25	4.82	2.10	6.95	20.14	6.32	27.44	53.91
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	4.95	3.81	1.72	5.50	15.99	5.17	21.71	42.88
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.21	4.02	2.15	5.79	17.18	6.48	22.87	46.55
Heavy Disk	14'	MFWD 150	24,800	180	10	0.145	1.51	2.56	1.00	0.59	5.68	2.12	3.59	11.40
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.00	1.94	1.09	0.46	4.51	2.31	2.92	9.76
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.78	1.68	1.05	0.40	3.94	2.23	2.57	8.75
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.62	1.05	0.13	0.24	2.05	0.14	1.47	3.67
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.51	5.41	0.29	1.31	9.53	0.77	8.26	18.56
Land Plane	50'x16'	MFWD 190	14,300	200	10	0.151	1.57	3.38	0.43	0.81	6.20	1.14	5.16	12.51
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.19	8.80	2.64	2.04	18.67	3.64	12.31	34.64
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	1.97	3.34	0.15	0.77	6.25	0.65	4.68	11.59
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.51	1.76	0.07	0.44	2.80	0.18	2.80	5.79
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.55	5.27	0.23	1.33	8.40	0.48	8.40	17.29
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.07	0.00	0.01	0.13	0.06	0.08	0.28
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.51	3.24	0.26	0.78	5.81	0.48	4.95	11.24
Middle Buster	6R-30	MFWD 150	12,800	160	8	0.120	1.24	2.11	0.36	0.49	4.21	1.13	2.96	8.31
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.18	2.54	0.55	0.61	4.90	1.75	3.88	10.54
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	0.93	2.01	0.38	0.48	3.82	1.20	3.07	8.09
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.62	1.34	0.41	0.32	2.70	1.29	2.04	6.04
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	0.94	2.41	0.62	0.59	4.58	1.97	3.77	10.33
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.74	1.90	0.54	0.47	3.66	1.70	2.97	8.34
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.62	1.58	0.41	0.39	3.01	1.29	2.48	6.79
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	10.78	11.58	4.06	2.80	29.25	8.26	17.69	55.21
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	6.79	7.29	2.84	1.76	18.70	5.77	11.14	35.62
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	6.79	7.29	2.84	1.76	18.70	5.77	11.14	35.62
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.35	5.74	2.23	1.39	14.72	4.54	8.77	28.05
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.35	5.74	2.23	1.39	14.72	4.54	8.77	28.05
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.57	3.84	1.49	0.93	9.84	3.03	5.86	18.75
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.43	5.83	2.27	1.41	14.96	4.62	8.91	28.50
Module Builder-1st	5R-38(325)	MFWD 190	34,700	200	10	0.207	4.30	4.62	1.79	1.12	11.83	3.65	7.05	22.54
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.53	4.86	1.89	1.17	12.47	3.85	7.43	23.75
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.57	3.84	1.49	0.93	9.84	3.03	5.86	18.75
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	9.13	9.81	3.81	2.37	25.15	7.76	14.98	47.90
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	5.75	6.18	2.40	1.49	15.84	4.89	9.44	30.17
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	5.75	6.18	2.40	1.49	15.84	4.89	9.44	30.17
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.53	4.86	1.89	1.18	12.47	3.85	7.43	23.76

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	---P.U. Direct	Total Direct	---Fixed--- Imp.	---P.U.	Total Cost
			dollars	hours	years	hr/ac	\$/acre							
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	4.60	4.94	1.92	1.19	12.67	3.91	7.55	24.14
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.64	3.91	1.52	0.94	10.02	3.09	5.97	19.09
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	3.83	4.12	1.60	0.99	10.56	3.26	6.29	20.11
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	3.02	3.25	1.26	0.78	8.33	2.57	4.96	15.88
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	6.79	5.76	2.84	1.34	16.73	5.77	8.06	30.58
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.53	3.84	1.89	0.89	11.15	3.85	5.37	20.38
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.35	4.53	2.23	1.05	13.18	4.54	6.35	24.07
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.57	3.03	1.49	0.70	8.81	3.03	4.24	16.09
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.43	4.61	2.27	1.07	13.39	4.62	6.45	24.46
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.30	3.64	1.79	0.84	10.59	3.65	5.10	19.35
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.53	3.84	1.89	0.89	11.15	3.85	5.37	20.38
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.70	1.79	0.00	0.44	2.95	0.00	2.81	5.76
NT Grain Drill	12'	2WD 130	42,200	150	8	0.163	3.39	2.49	2.59	0.52	9.01	4.95	3.17	17.13
NT Grain Drill	15'	MFWD 150	49,200	150	8	0.130	2.71	2.30	2.41	0.53	7.97	4.62	3.22	15.82
NT Grain Drill	20'	MFWD 170	66,300	150	8	0.098	2.03	1.95	2.44	0.46	6.90	4.67	2.95	14.53
NT Grain Drill	24'	MFWD 190	75,600	150	8	0.081	1.69	1.82	2.32	0.44	6.28	4.43	2.78	13.51
NT Grain Drill	30'	MFWD 225	89,000	150	8	0.065	1.35	1.72	2.18	0.42	5.70	4.18	2.70	12.58
NT Grain Drill & Pre	12'	2WD 130	47,500	150	8	0.176	3.65	2.68	3.14	0.56	10.05	6.00	3.41	19.47
NT Grain Drill & Pre	15'	MFWD 150	54,600	150	8	0.141	2.92	2.48	2.88	0.57	8.87	5.52	3.47	17.87
NT Grain Drill & Pre	20'	MFWD 170	71,600	150	8	0.105	2.19	2.11	2.83	0.50	7.65	5.43	3.18	16.26
NT Grain Drill & Pre	24'	MFWD 190	81,000	150	8	0.088	1.82	1.96	2.67	0.47	6.94	5.12	3.00	15.07
NT Grain Drill & Pre	30'	MFWD 225	94,300	150	8	0.070	1.46	1.86	2.49	0.46	6.28	4.76	2.91	13.96
NT Plant&Pre-Folding	8R-38	MFWD 170	56,700	150	8	0.083	1.73	1.66	1.77	0.39	5.58	3.40	2.51	11.49
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	88,200	150	8	0.055	1.15	1.11	1.84	0.26	4.37	3.52	1.67	9.57
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.75	1.88	1.82	0.45	5.92	3.49	2.88	12.30
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.38	1.48	1.32	0.36	4.55	2.53	2.27	9.36
NT Plant&Pre-Folding	12R-20	MFWD 190	72,100	150	8	0.105	2.19	2.35	2.85	0.57	7.98	5.47	3.60	17.05
NT Plant&Pre-Folding	12R-30	MFWD 190	77,500	150	8	0.070	1.46	1.57	2.04	0.38	5.46	3.91	2.40	11.78
NT Plant&Pre-Folding	12R-38	MFWD 190	88,200	150	8	0.055	1.15	1.24	1.84	0.30	4.53	3.52	1.89	9.95
NT Plant&Pre-Folding	16R-30	MFWD 190	114,000	150	8	0.052	1.09	1.17	2.26	0.28	4.82	4.32	1.80	10.94
NT Plant&Pre-Folding	23R-15	MFWD 190	150,000	150	8	0.073	1.52	1.63	4.13	0.39	7.69	7.90	2.50	18.09
NT Plant&Pre-Folding	24R-20	MFWD 190	153,000	150	8	0.052	1.09	1.17	3.03	0.28	5.59	5.80	1.80	13.20
NT Plant&Pre-Folding	24R-30	MFWD 190	188,000	150	8	0.035	0.73	0.78	2.48	0.19	4.19	4.75	1.20	10.14
NT Plant&Pre-Rigid	4R-30	2WD 130	28,200	150	8	0.211	4.39	3.22	2.23	0.68	10.53	4.27	4.09	18.91
NT Plant&Pre-Rigid	4R-38	2WD 130	30,800	150	8	0.166	3.45	2.54	1.92	0.53	8.45	3.67	3.22	15.36
NT Plant&Pre-Rigid	6R-30	MFWD 150	39,300	150	8	0.141	2.92	2.48	2.07	0.57	8.06	3.97	3.47	15.51
NT Plant&Pre-Rigid	6R-38	MFWD 150	36,200	150	8	0.111	2.31	1.95	1.51	0.45	6.23	2.89	2.74	11.87
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	2.98	2.87	1.41	0.68	7.96	2.70	4.33	15.00
NT Plant&Pre-Rigid	8R-30	MFWD 170	46,900	150	8	0.105	2.19	2.11	1.86	0.50	6.67	3.55	3.18	13.41
NT Plant&Pre-Rigid	8R-38	MFWD 170	43,200	150	8	0.077	1.60	1.53	1.25	0.36	4.76	2.39	2.32	9.47
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.75	1.88	1.64	0.45	5.74	3.15	2.88	11.77
NT Plant&Pre-Rigid	12R-20	MFWD 190	57,700	150	8	0.105	2.19	2.35	2.28	0.57	7.41	4.37	3.60	15.39
NT Plant&Pre-Rigid	12R-30	MFWD 190	72,400	150	8	0.070	1.46	1.57	1.91	0.38	5.33	3.66	2.40	11.39
NT Plant-Folding	8R-38	MFWD 170	51,300	150	8	0.077	1.61	1.54	1.49	0.37	5.02	2.85	2.33	10.22
NT Plant-Folding	8R-38 2x1	MFWD 170	81,200	150	8	0.051	1.07	1.03	1.57	0.24	3.92	3.01	1.55	8.49
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.63	1.75	1.53	0.42	5.34	2.93	2.67	10.95
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.28	1.38	1.10	0.33	4.11	2.11	2.10	8.33
NT Plant-Folding	12R-20	MFWD 190	66,700	150	8	0.098	2.03	2.18	2.45	0.53	7.21	4.69	3.34	15.25
NT Plant-Folding	12R-30	MFWD 190	70,400	150	8	0.065	1.35	1.45	1.72	0.35	4.90	3.30	2.22	10.43
NT Plant-Folding	12R-38	MFWD 190	81,200	150	8	0.051	1.07	1.15	1.57	0.27	4.07	3.01	1.75	8.84
NT Plant-Folding	16R-30	MFWD 190	107,000	150	8	0.049	1.01	1.09	1.97	0.26	4.35	3.76	1.67	9.79
NT Plant-Folding	23R-15	MFWD 190	143,000	150	8	0.068	1.41	1.52	3.65	0.36	6.96	6.99	2.32	16.28
NT Plant-Folding	24R-20	MFWD 190	156,000	150	8	0.049	1.01	1.09	2.87	0.26	5.25	5.49	1.67	12.41
NT Plant-Folding	24R-30	MFWD 190	171,000	150	8	0.032	0.67	0.72	2.09	0.17	3.68	4.01	1.11	8.81
NT Plant-Rigid	4R-30	2WD 130	22,900	150	8	0.196	4.07	2.99	1.68	0.63	9.39	3.22	3.80	16.42
NT Plant-Rigid	4R-38	2WD 130	25,500	150	8	0.154	3.21	2.35	1.47	0.49	7.54	2.82	2.99	13.37
NT Plant-Rigid	6R-30	MFWD 150	34,000	150	8	0.130	2.71	2.30	1.66	0.53	7.22	3.19	3.22	13.64
NT Plant-Rigid	6R-38	MFWD 150	30,900	150	8	0.103	2.14	1.81	1.19	0.42	5.58	2.29	2.54	10.42
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	2.77	2.66	1.05	0.63	7.13	2.02	4.02	13.18
NT Plant-Rigid	8R-30	MFWD 170	41,600	150	8	0.098	2.03	1.95	1.53	0.46	6.00	2.93	2.95	11.88
NT Plant-Rigid	8R-38	MFWD 170	37,800	150	8	0.077	1.61	1.54	1.10	0.37	4.63	2.10	2.33	9.07
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.63	1.75	1.37	0.42	5.17	2.62	2.67	10.47
NT Plant-Rigid	12R-20	MFWD 190	52,300	150	8	0.098	2.03	2.18	1.92	0.53	6.68	3.68	3.34	13.71
NT Plant-Rigid	12R-30	MFWD 190	65,400	150	8	0.065	1.35	1.45	1.60	0.35	4.77	3.07	2.22	10.07
Paratill & Bed	4R-30	MFWD 225	13,500	150	12	0.204	2.12	5.39	0.99	1.34	9.85	1.72	8.44	20.02
Paratill & Bed	4R-38	MFWD 225	13,500	150	12	0.160	1.67	4.24	0.78	1.05	7.75	1.36	6.64	15.76
Paratill & Bed	6R-30	MFWD 225	19,900	150	12	0.136	1.41	3.59	0.97	0.89	6.88	1.69	5.62	14.21
Paratill & Bed	6R-38	MFWD 225	18,800	150	12	0.107	1.11	2.83	0.73	0.70	5.39	1.26	4.44	11.10
Paratill & Bed	8R-30	MFWD 225	25,000	150	12	0.102	1.06	2.69	0.92	0.67	5.35	1.60	4.22	11.17
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.55	1.41	1.34	0.35	3.67	2.32	2.22	8.22
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.83	2.13	1.58	0.52	5.08	2.75	3.33	11.17
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.55	1.41	1.34	0.35	3.67	2.32	2.22	8.22
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.83	2.13	0.65	0.52	4.15	1.14	3.33	8.64
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.53	0.91	0.00	0.17	1.63	0.02	1.05	2.70
Pipe Spool 160ac	1/4m roll	2WD 130	3,600	15	12	0.003	0.08	0.04	0.00	0.01	0.15	0.07	0.06	0.28
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.17	0.05	0.00	0.01	0.24	0.00	0.07	0.32
Plant & Pre Folding	8R-38	MFWD 170	52,000	150	8	0.080	1.66	1.60	1.56	0.38	5.21	2.99	2.41	10.62
Plant & Pre Folding	8R38 2x1	MFWD 170	81,200	150	8	0.053	1.10	1.06	1.62	0.25	4.05	3.11	1.60	8.78
Plant & Pre Folding	10R-30	MFWD 190	52,920	150	8	0.081	1.68	1.81	1.61	0.43	5.54	3.08	2.76	11.39
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.32	1.42	1.15	0.34	4.26	2.21	2.18	8.66
Plant & Pre Folding	12R-20	MFWD 190	65,100	150	8	0.101	2.10	2.26	2.47	0.54	7.39	4.74	3.45	15.59
Plant & Pre Folding	12R-30	MFWD 190	70,500	150	8	0.067	1.40	1.50	1.78	0.36	5.07	3.42	2.30	10.79

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

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

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

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