

Projected Costs and Returns Crop Enterprise Budgets for Soybean Production in Louisiana, 2019

Michael A. Deliberto and Brian M. Hilbun



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by

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Introduction

This publication presents estimates of projected costs and returns for soybean production in Louisiana for the 2019 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 2019 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 2019 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 \$10.73 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 6.00% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$2.50 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 6.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast Louisiana, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.1345	1.45	_____
Tractors	hour	10.73	0.4272	4.57	_____
DIESEL FUEL					
Tractors	gal	2.50	4.0612	10.15	_____
Harvesters	gal	2.50	1.2047	3.01	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.97	1.0000	4.97	_____
Tractors	Acre	2.18	1.0000	2.18	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
INTEREST ON OP. CAP.	Acre	8.58	1.0000	8.58	_____
TOTAL DIRECT EXPENSES				371.29	_____
FIXED EXPENSES					
Implements	Acre	9.67	1.0000	9.67	_____
Tractors	Acre	15.04	1.0000	15.04	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
TOTAL FIXED EXPENSES				37.65	_____
TOTAL SPECIFIED EXPENSES				408.94	_____

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, 2019.

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	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.37	1.08	0.07	0.80				7.27
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.97	2.38	1.41	3.01	0.14	1.60				10.37
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.13	1.35	0.17	0.23	0.06	0.68				3.56
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						18.35	27.98	4.97	9.67	0.64	7.17			332.22	400.36
INTEREST ON OPERATING CAPITAL															8.58
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															408.94

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.59	5.97	6.40	6.92	7.52	8.25	9.13	10.24	11.67	13.56	16.22
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-239	-230	-220	-209	-195	-179	-159	-134	-102	-59	0
			-276	-268	-258	-247	-233	-217	-197	-172	-140	-97	-37
60	27.00	bu	-215	-205	-193	-179	-163	-143	-119	-89	-51	0	71
			-253	-242	-230	-217	-200	-181	-157	-127	-88	-37	34
70	31.50	bu	-191	-179	-165	-149	-130	-107	-79	-44	0	59	143
			-229	-217	-203	-187	-168	-145	-117	-82	-37	22	105
80	36.00	bu	-167	-153	-138	-119	-97	-71	-39	0	51	119	215
			-205	-191	-175	-157	-135	-109	-77	-37	13	82	177
90	40.50	bu	-143	-128	-110	-89	-65	-35	0	44	102	179	287
			-181	-165	-148	-127	-102	-73	-37	7	64	141	249
100	45.00	bu	-119	-102	-82	-59	-32	0	39	89	153	239	359
			-157	-140	-120	-97	-70	-37	2	52	116	201	321
110	49.50	bu	-95	-76	-55	-29	0	35	79	134	205	299	430
			-133	-114	-92	-67	-37	-1	42	96	167	261	393
120	54.00	bu	-71	-51	-27	0	32	71	119	179	256	359	502
			-109	-88	-65	-37	-5	34	82	141	218	321	464
130	58.50	bu	-47	-25	0	29	65	107	159	224	307	418	574
			-85	-63	-37	-7	27	70	121	186	270	381	536
140	63.00	bu	-23	0	27	59	97	143	199	269	359	478	646
			-61	-37	-10	22	60	105	161	231	321	441	608
150	67.50	bu	0	25	55	89	130	179	239	314	410	538	718
			-37	-12	17	52	92	141	201	276	372	500	680

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.14	6.56	7.05	7.61	8.28	9.08	10.06	11.29	12.86	14.96	17.90
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-226	-217	-206	-193	-178	-160	-138	-111	-75	-28	37
			-264	-255	-244	-231	-216	-198	-176	-148	-113	-66	0
60	27.00	bu	-200	-189	-175	-160	-142	-121	-94	-61	-19	37	116
			-238	-226	-213	-198	-180	-158	-132	-99	-56	0	79
70	31.50	bu	-173	-160	-145	-127	-106	-81	-50	-11	37	103	196
			-211	-198	-183	-165	-144	-119	-88	-49	0	66	158
80	36.00	bu	-147	-132	-114	-94	-70	-41	-6	37	94	169	275
			-185	-170	-152	-132	-108	-79	-44	0	56	132	238
90	40.50	bu	-121	-104	-84	-61	-34	-2	37	87	150	235	354
			-158	-141	-122	-99	-72	-39	0	49	113	198	317
100	45.00	bu	-94	-75	-53	-28	1	37	81	136	207	302	434
			-132	-113	-91	-66	-36	0	44	99	170	264	396
110	49.50	bu	-68	-47	-23	4	37	77	125	186	264	368	513
			-105	-85	-61	-33	0	39	88	148	226	330	476
120	54.00	bu	-41	-19	7	37	73	116	169	235	320	434	592
			-79	-56	-30	0	36	79	132	198	283	396	555
130	58.50	bu	-15	9	37	70	109	156	213	285	377	500	672
			-52	-28	0	33	72	119	176	247	340	462	634
140	63.00	bu	11	37	68	103	145	196	258	335	434	566	751
			-26	0	30	66	108	158	220	297	396	528	714
150	67.50	bu	37	65	98	136	181	235	302	384	490	632	830
			0	28	61	99	144	198	264	347	453	595	793

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.1345	1.45	_____
Tractors	hour	10.73	0.7203	7.71	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	6.8886	17.22	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	4.8877	12.24	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.37	1.0000	5.37	_____
Tractors	Acre	3.76	1.0000	3.76	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	9.42	1.0000	9.42	_____

TOTAL DIRECT EXPENSES				412.93	_____
FIXED EXPENSES					
Implements	Acre	10.87	1.0000	10.87	_____
Tractors	Acre	25.91	1.0000	25.91	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				106.30	_____

TOTAL SPECIFIED EXPENSES				519.23	_____

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, 2019.

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	38.00	12.54	12.54
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.34	1.00	0.07	0.80				7.16
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.97	2.38	1.41	3.01	0.14	1.60				10.37
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.13	1.35	0.17	0.23	0.06	0.68				3.56
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	17.91	57.86	0.44	4.82	1.0000		8.25	108.36
TOTALS						27.00	38.85	22.85	67.45	1.09	11.99			341.67	509.81
INTEREST ON OPERATING CAPITAL															9.42
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															519.23

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.09	5.44	5.83	6.30	6.85	7.50	8.31	9.31	10.60	12.33	14.74
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-265	-255	-244	-232	-217	-198	-176	-149	-113	-66	0
			-371	-362	-351	-338	-323	-305	-283	-255	-219	-172	-106
60	33.00	bu	-238	-227	-214	-198	-180	-159	-132	-99	-56	0	79
			-345	-333	-320	-305	-287	-265	-238	-205	-163	-106	-26
70	38.50	bu	-212	-198	-183	-165	-144	-119	-88	-49	0	66	159
			-318	-305	-289	-272	-251	-225	-194	-156	-106	-39	52
80	44.00	bu	-185	-170	-153	-132	-108	-79	-44	0	56	132	238
			-292	-276	-259	-238	-214	-185	-150	-106	-49	26	132
90	49.50	bu	-159	-142	-122	-99	-72	-39	0	49	113	198	318
			-265	-248	-228	-205	-178	-146	-106	-56	7	92	212
100	55.00	bu	-132	-113	-91	-66	-36	0	44	99	170	265	397
			-238	-219	-198	-172	-142	-106	-62	-6	64	158	291
110	60.50	bu	-106	-85	-61	-33	0	39	88	149	227	331	477
			-212	-191	-167	-139	-106	-66	-17	42	121	225	371
120	66.00	bu	-79	-56	-30	0	36	79	132	198	284	397	557
			-185	-163	-136	-106	-70	-26	26	92	177	291	450
130	71.50	bu	-53	-28	0	33	72	119	176	248	341	464	636
			-159	-134	-106	-73	-33	13	70	142	234	357	530
140	77.00	bu	-26	0	30	66	108	159	221	298	397	530	716
			-132	-106	-75	-39	2	52	114	192	291	424	609
150	82.50	bu	0	28	61	99	144	198	265	348	454	596	795
			-106	-77	-45	-6	38	92	158	241	348	490	689

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.38	6.82	7.32	7.91	8.60	9.44	10.45	11.73	13.36	15.55	18.60
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-229	-217	-203	-187	-168	-145	-117	-82	-37	22	106
			-336	-324	-310	-294	-275	-252	-224	-189	-144	-84	0
60	33.00	bu	-196	-181	-165	-145	-122	-95	-61	-19	34	106	207
			-302	-288	-271	-252	-229	-201	-168	-126	-72	0	100
70	38.50	bu	-162	-145	-126	-103	-77	-44	-5	43	106	190	307
			-268	-252	-232	-210	-183	-151	-112	-63	0	84	201
80	44.00	bu	-129	-109	-87	-61	-31	5	50	106	178	274	408
			-235	-216	-193	-168	-137	-100	-56	0	72	168	302
90	49.50	bu	-95	-73	-48	-19	14	55	106	169	250	358	509
			-201	-180	-155	-126	-91	-50	0	63	144	252	403
100	55.00	bu	-61	-37	-10	22	60	106	162	232	322	442	610
			-168	-144	-116	-84	-45	0	56	126	216	336	504
110	60.50	bu	-28	-1	28	64	106	156	218	295	394	526	711
			-134	-108	-77	-42	0	50	112	189	288	420	605
120	66.00	bu	5	34	67	106	152	207	274	358	466	610	812
			-100	-72	-38	0	45	100	168	252	360	504	705
130	71.50	bu	39	70	106	148	197	257	330	421	538	694	913
			-67	-36	0	42	91	151	224	315	432	588	806
140	77.00	bu	72	106	145	190	243	307	386	484	610	778	1013
			-33	0	38	84	137	201	280	378	504	672	907
150	82.50	bu	106	142	183	232	289	358	442	547	682	862	1114
			0	36	77	126	183	252	336	441	576	756	1008

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	10.73	0.1345	1.45	_____
Tractors	hour	10.73	0.7203	7.71	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	6.8886	17.22	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	4.8877	12.24	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.66	1.0000	5.66	_____
Tractors	Acre	3.76	1.0000	3.76	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	9.28	1.0000	9.28	_____
TOTAL DIRECT EXPENSES				399.19	_____
FIXED EXPENSES					
Implements	Acre	11.29	1.0000	11.29	_____
Tractors	Acre	25.91	1.0000	25.91	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____
TOTAL FIXED EXPENSES				106.72	_____
TOTAL SPECIFIED EXPENSES				505.91	_____

Table 3.B Estimated resource use and costs for field operations, per Acre
 Soybeans, RR, 8-row equipment, stale seedbed,
 irrigated, Macon Ridge, Northeast Louisiana, 2019.

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	2.32	2.93	0.98	1.22	0.11	1.25				8.70
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.22	2.80	0.37	1.08	0.07	0.80				7.27
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.97	2.38	1.41	3.01	0.14	1.60				10.37
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.13	1.35	0.43	0.57	0.06	0.68				4.16
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50	13.50
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	17.91	57.86	0.44	4.82	1.0000		8.25	108.36
TOTALS						27.00	38.85	23.14	67.87	1.09	11.99			327.78	496.63
INTEREST ON OPERATING CAPITAL															9.28
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															505.91

Table 3.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Soybeans, RR, 8-row equipment, stale seedbed,
irrigated, Macon Ridge, Northeast Louisiana, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.41	5.78	6.20	6.69	7.28	7.98	8.84	9.91	11.28	13.12	15.69
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-257	-247	-237	-224	-210	-192	-171	-144	-110	-64	0
			-363	-354	-343	-331	-317	-299	-278	-251	-216	-170	-106
60	30.00	bu	-231	-220	-207	-192	-175	-154	-128	-96	-55	0	77
			-338	-327	-314	-299	-281	-260	-235	-203	-161	-106	-29
70	35.00	bu	-205	-192	-177	-160	-140	-115	-85	-48	0	64	154
			-312	-299	-284	-267	-246	-222	-192	-154	-106	-42	47
80	40.00	bu	-179	-165	-148	-128	-105	-77	-42	0	55	128	231
			-286	-271	-255	-235	-211	-183	-149	-106	-51	21	124
90	45.00	bu	-154	-137	-118	-96	-70	-38	0	48	110	192	308
			-260	-244	-225	-203	-176	-145	-106	-58	3	86	201
100	50.00	bu	-128	-110	-88	-64	-35	0	42	96	165	257	385
			-235	-216	-195	-170	-141	-106	-63	-10	58	150	278
110	55.00	bu	-102	-82	-59	-32	0	38	85	144	220	321	462
			-209	-189	-166	-138	-106	-68	-21	37	113	214	355
120	60.00	bu	-77	-55	-29	0	35	77	128	192	275	385	539
			-183	-161	-136	-106	-71	-29	21	86	168	278	433
130	65.00	bu	-51	-27	0	32	70	115	171	240	330	449	616
			-158	-134	-106	-74	-36	8	64	134	223	343	510
140	70.00	bu	-25	0	29	64	105	154	214	289	385	514	694
			-132	-106	-77	-42	-1	47	107	182	278	407	587
150	75.00	bu	0	27	59	96	140	192	257	337	440	578	771
			-106	-79	-47	-10	33	86	150	230	333	471	664

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.83	7.30	7.84	8.47	9.22	10.11	11.21	12.57	14.33	16.68	19.96
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-221	-209	-196	-180	-161	-139	-112	-77	-33	24	106
			-328	-316	-302	-287	-268	-246	-218	-184	-140	-82	0
60	30.00	bu	-188	-174	-158	-139	-117	-90	-57	-16	36	106	205
			-295	-281	-265	-246	-223	-196	-164	-123	-70	0	98
70	35.00	bu	-155	-139	-120	-98	-72	-40	-2	45	106	188	303
			-262	-246	-227	-205	-179	-147	-109	-61	0	82	196
80	40.00	bu	-123	-104	-82	-57	-27	8	52	106	177	270	402
			-229	-210	-189	-164	-134	-98	-54	0	70	164	295
90	45.00	bu	-90	-69	-44	-16	17	57	106	168	247	352	500
			-196	-175	-151	-123	-89	-49	0	61	140	246	393
100	50.00	bu	-57	-33	-6	24	61	106	161	229	317	434	599
			-164	-140	-113	-82	-44	0	54	123	210	328	492
110	55.00	bu	-24	1	30	65	106	155	216	291	388	516	697
			-131	-105	-75	-41	0	49	109	184	281	410	590
120	60.00	bu	8	36	68	106	151	205	270	352	458	599	795
			-98	-70	-37	0	44	98	164	246	351	492	689
130	65.00	bu	41	71	106	147	196	254	325	414	528	681	894
			-65	-35	0	41	89	147	218	307	421	574	787
140	70.00	bu	73	106	144	188	240	303	380	475	599	763	992
			-32	0	37	82	134	196	273	369	492	656	886
150	75.00	bu	106	141	182	229	285	352	434	537	669	845	1091
			0	35	75	123	179	246	328	430	562	738	984

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.1586	1.70	_____
Tractors	hour	10.73	0.3542	3.78	_____
DIESEL FUEL					
Tractors	gal	2.50	3.4392	8.59	_____
Harvesters	gal	2.50	1.2047	3.01	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.28	1.0000	5.28	_____
Tractors	Acre	1.86	1.0000	1.86	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
INTEREST ON OP. CAP.	Acre	8.62	1.0000	8.62	_____
TOTAL DIRECT EXPENSES				369.22	_____
FIXED EXPENSES					
Implements	Acre	10.69	1.0000	10.69	_____
Tractors	Acre	12.75	1.0000	12.75	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
TOTAL FIXED EXPENSES				36.38	_____
TOTAL SPECIFIED EXPENSES				405.60	_____

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, 2019.

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	2.74	3.24	1.18	1.47	0.11	1.26				9.89
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.40	1.76	0.51	2.36	0.04	0.50				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
NT Plant-Rigid	12R-20	MFWD 190	0.098	1.00	May	2.94	3.71	2.13	4.53	0.19	2.10				15.41
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.13	1.35	0.43	0.57	0.06	0.68				4.16
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						16.47	25.69	5.28	10.69	0.59	6.63			332.22	396.98
INTEREST ON OPERATING CAPITAL															8.62
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															405.60

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.56	5.93	6.37	6.88	7.48	8.20	9.08	10.18	11.60	13.49	16.13
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-237	-229	-219	-208	-194	-178	-158	-133	-101	-59	0
			-274	-265	-256	-244	-231	-214	-195	-170	-138	-95	-36
60	27.00	bu	-214	-203	-192	-178	-162	-142	-118	-89	-50	0	71
			-250	-240	-228	-214	-198	-179	-155	-125	-87	-36	35
70	31.50	bu	-190	-178	-164	-148	-129	-107	-79	-44	0	59	142
			-226	-214	-201	-185	-166	-143	-115	-80	-36	23	106
80	36.00	bu	-166	-152	-137	-118	-97	-71	-39	0	50	118	214
			-202	-189	-173	-155	-133	-107	-76	-36	14	82	177
90	40.50	bu	-142	-127	-109	-89	-64	-35	0	44	101	178	285
			-179	-163	-146	-125	-101	-72	-36	8	65	142	249
100	45.00	bu	-118	-101	-82	-59	-32	0	39	89	152	237	356
			-155	-138	-118	-95	-68	-36	3	52	116	201	320
110	49.50	bu	-95	-76	-54	-29	0	35	79	133	203	297	428
			-131	-112	-91	-66	-36	-0	42	97	167	261	391
120	54.00	bu	-71	-50	-27	0	32	71	118	178	254	356	499
			-107	-87	-63	-36	-3	35	82	142	218	320	463
130	58.50	bu	-47	-25	0	29	64	107	158	223	305	416	571
			-83	-61	-36	-6	28	70	122	186	269	380	534
140	63.00	bu	-23	0	27	59	97	142	198	267	356	475	642
			-60	-36	-8	23	60	106	161	231	320	439	606
150	67.50	bu	0	25	54	89	129	178	237	312	407	535	713
			-36	-10	18	52	93	142	201	275	371	499	677

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.09	6.51	6.99	7.55	8.21	9.01	9.98	11.19	12.75	14.84	17.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-225	-216	-205	-193	-178	-160	-138	-111	-76	-29	36
			-262	-252	-242	-229	-214	-196	-174	-147	-112	-65	0
60	27.00	bu	-199	-188	-175	-160	-142	-120	-94	-61	-19	36	115
			-235	-224	-211	-196	-178	-157	-131	-98	-56	0	78
70	31.50	bu	-173	-160	-145	-127	-106	-81	-51	-12	36	101	193
			-209	-196	-181	-163	-143	-117	-87	-49	0	65	157
80	36.00	bu	-147	-132	-114	-94	-70	-42	-7	36	92	167	272
			-183	-168	-151	-131	-107	-78	-43	0	56	131	235
90	40.50	bu	-120	-104	-84	-61	-35	-2	36	85	148	233	351
			-157	-140	-121	-98	-71	-39	0	49	112	196	314
100	45.00	bu	-94	-76	-54	-29	0	36	80	134	204	298	429
			-131	-112	-90	-65	-35	0	43	98	168	262	393
110	49.50	bu	-68	-47	-24	3	36	75	123	183	261	364	508
			-104	-84	-60	-32	0	39	87	147	224	327	471
120	54.00	bu	-42	-19	6	36	72	115	167	233	317	429	587
			-78	-56	-30	0	35	78	131	196	280	393	550
130	58.50	bu	-16	8	36	69	107	154	211	282	373	495	665
			-52	-28	0	32	71	117	174	245	337	458	629
140	63.00	bu	10	36	66	101	143	193	254	331	429	560	744
			-26	0	30	65	107	157	218	294	393	524	707
150	67.50	bu	36	64	96	134	179	233	298	380	485	626	823
			0	28	60	98	143	196	262	344	449	589	786

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.1586	1.70	_____
Tractors	hour	10.73	0.6473	6.92	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	6.2667	15.66	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	4.8877	12.24	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.94	1.0000	5.94	_____
Tractors	Acre	3.44	1.0000	3.44	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	9.49	1.0000	9.49	_____

TOTAL DIRECT EXPENSES				412.65	_____
FIXED EXPENSES					
Implements	Acre	12.67	1.0000	12.67	_____
Tractors	Acre	23.62	1.0000	23.62	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				105.81	_____

TOTAL SPECIFIED EXPENSES				518.46	_____

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, 2019.

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	2.74	3.24	1.18	1.47	0.11	1.26				9.89
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.40	1.76	0.51	2.36	0.04	0.50				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
NT Plant-Folding	12R-20	MFWD 190	0.098	1.00	May	2.94	3.71	2.62	5.57	0.19	2.10				16.94
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.13	1.35	0.17	0.23	0.06	0.68				3.56
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	17.91	57.86	0.44	4.82	1.0000		8.25	108.36
TOTALS						25.12	36.56	23.42	69.25	1.04	11.45			343.17	508.97
INTEREST ON OPERATING CAPITAL															9.49
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															518.46

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.09	5.43	5.83	6.29	6.84	7.50	8.30	9.31	10.60	12.32	14.73
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-265	-255	-244	-231	-216	-198	-176	-149	-113	-66	0
			-370	-361	-350	-337	-322	-304	-282	-254	-219	-172	-105
60	33.00	bu	-238	-227	-214	-198	-180	-159	-132	-99	-56	0	79
			-344	-333	-319	-304	-286	-264	-238	-205	-162	-105	-26
70	38.50	bu	-212	-198	-183	-165	-144	-119	-88	-49	0	66	159
			-317	-304	-289	-271	-250	-225	-194	-155	-105	-39	53
80	44.00	bu	-185	-170	-152	-132	-108	-79	-44	0	56	132	238
			-291	-276	-258	-238	-214	-185	-149	-105	-49	26	132
90	49.50	bu	-159	-142	-122	-99	-72	-39	0	49	113	198	318
			-264	-247	-228	-205	-178	-145	-105	-56	7	93	212
100	55.00	bu	-132	-113	-91	-66	-36	0	44	99	170	265	397
			-238	-219	-197	-172	-141	-105	-61	-6	64	159	291
110	60.50	bu	-106	-85	-61	-33	0	39	88	149	227	331	477
			-211	-191	-166	-138	-105	-66	-17	43	121	225	371
120	66.00	bu	-79	-56	-30	0	36	79	132	198	284	397	556
			-185	-162	-136	-105	-69	-26	26	93	178	291	450
130	71.50	bu	-53	-28	0	33	72	119	176	248	340	463	636
			-158	-134	-105	-72	-33	13	70	142	235	358	530
140	77.00	bu	-26	0	30	66	108	159	220	298	397	530	715
			-132	-105	-75	-39	2	53	115	192	291	424	609
150	82.50	bu	0	28	61	99	144	198	265	347	454	596	795
			-105	-77	-44	-6	38	93	159	242	348	490	689

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.37	6.81	7.31	7.90	8.59	9.42	10.44	11.71	13.34	15.52	18.58
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-229	-217	-204	-187	-168	-145	-117	-82	-38	21	105
			-335	-323	-309	-293	-274	-251	-223	-188	-143	-83	0
60	33.00	bu	-196	-181	-165	-145	-123	-95	-62	-20	33	105	206
			-302	-287	-271	-251	-228	-201	-167	-125	-71	0	100
70	38.50	bu	-162	-145	-126	-103	-77	-45	-6	42	105	189	307
			-268	-251	-232	-209	-183	-151	-111	-62	0	83	201
80	44.00	bu	-129	-109	-87	-62	-31	5	49	105	177	273	407
			-234	-215	-193	-167	-137	-100	-55	0	71	167	302
90	49.50	bu	-95	-73	-49	-20	14	55	105	168	249	357	508
			-201	-179	-154	-125	-91	-50	0	62	143	251	402
100	55.00	bu	-62	-38	-10	21	60	105	161	231	321	441	609
			-167	-143	-116	-83	-45	0	55	125	215	335	503
110	60.50	bu	-28	-2	28	63	105	156	217	294	393	525	709
			-134	-107	-77	-41	0	50	111	188	287	419	604
120	66.00	bu	5	33	67	105	151	206	273	357	465	609	810
			-100	-71	-38	0	45	100	167	251	359	503	704
130	71.50	bu	38	69	105	147	197	256	329	420	537	693	911
			-67	-35	0	41	91	151	223	314	431	587	805
140	77.00	bu	72	105	144	189	243	307	385	483	609	777	1012
			-33	0	38	83	137	201	279	377	503	671	906
150	82.50	bu	105	141	183	231	288	357	441	546	681	861	1112
			0	35	77	125	183	251	335	440	575	755	1006

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

Table 6.A Estimated costs and returns per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2019.

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	4.16	1.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup Ultra MAX	pt	5.97	3.5000	20.90	_____
Classic	oz	17.18	0.2500	4.30	_____
INSECTICIDES					
Dimilin 2L	oz	2.13	2.0000	4.26	_____
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	1.75	0.5000	0.88	_____
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	10.73	0.3772	4.04	_____
LA Other Labor					
Special Labor	hour	10.73	0.1250	1.34	_____
DIESEL FUEL					
Tractors	gal	2.50	3.3869	8.47	_____
Self-Propelled	gal	2.50	1.4915	3.73	_____
REPAIR & MAINTENANCE					
Implements	acre	3.99	1.0000	3.99	_____
Tractors	acre	1.88	1.0000	1.88	_____
Self-Propelled	acre	9.24	1.0000	9.24	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
TOTAL DIRECT EXPENSES				376.71	_____
FIXED EXPENSES					
Implements	acre	10.04	1.0000	10.04	_____
Tractors	acre	12.73	1.0000	12.73	_____
Self-Propelled	acre	15.22	1.0000	15.22	_____
TOTAL FIXED EXPENSES				37.99	_____
TOTAL SPECIFIED EXPENSES				414.70	_____

Table 6.B Estimated resource use and costs for field operations, per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2019.

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	2.98	4.20	1.00	2.34	0.06	0.66					11.18
LARice Land Level	13 ft	MFWD 150	0.190	0.20	Nov	0.88	1.03	0.03	0.15	0.03	0.41					2.50
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.54	0.05	0.07	0.02	0.21					1.34
Disk Harrow	32'	MFWD 150	0.061	1.00	Mar	1.43	1.66	1.00	2.34	0.06	0.66					7.09
Custom Spread(Truc	appl			1.00	Mar							1.0000	4.50	4.50		4.50
LA Phosphate	lb											50.0000	0.55	27.50		27.50
LA Potash	lb											50.0000	0.32	16.00		16.00
Field Cultivate	24'	MFWD 150	0.062	1.00	Mar	1.45	1.68	0.44	2.08	0.06	0.67					6.32
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.54	0.05	0.07	0.02	0.21					1.34
Grain Drill	20'	MFWD 150	0.094	1.00	May	2.20	2.54	1.37	2.92	0.18	1.86					10.89
LA Other Labor	hour															1.34
Soybean Seed RR	lb											75.0000	1.30	97.50		97.50
Ditcher		MFWD 150	0.020	1.00	May	0.47	0.54	0.05	0.07	0.02	0.21					1.34
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	1.75	0.35		0.35
LARice GPS Charge-SW acre												1.0000	0.35	0.35		0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50		6.50
Roundup Ultra MAX	pt											1.5000	5.97	8.96		8.96
LARice GPS Charge-SW acre												1.0000	0.35	0.35		0.35
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Dimilin 2L	oz											2.0000	2.13	4.26		4.26
Quadris	oz											6.0000	1.13	6.78		6.78
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
LARice 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	76.88	48.05		48.05
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	4.16	4.16		4.16
Surfactant	pt											0.3000	1.75	0.53		0.53
LARice Combine Med	20 ft		0.210	1.00	Oct	12.97	15.22			0.23	3.54					31.73
Haul Soybeans	bu			1.00	Oct							35.0000	0.27	9.45		9.45
TOTALS						23.32	27.95	3.99	10.04	0.82	9.77			330.74		405.81
INTEREST ON OPERATING CAPITAL																8.89
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																414.70

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, 2019.

			-----BREAKEVEN PRICE-----										
LA Soybeans			7.26	7.76	8.34	9.01	9.80	10.76	11.92	13.38	15.25	17.75	21.25
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-244	-236	-225	-214	-200	-183	-163	-137	-104	-61	0
			-282	-274	-263	-252	-238	-221	-201	-175	-142	-99	-37
60	21.00	bu	-220	-209	-197	-183	-166	-146	-122	-91	-52	0	73
			-258	-247	-235	-221	-204	-184	-160	-129	-90	-37	35
70	24.50	bu	-195	-183	-169	-153	-133	-110	-81	-45	0	61	146
			-233	-221	-207	-190	-171	-148	-119	-83	-37	23	108
80	28.00	bu	-171	-157	-141	-122	-100	-73	-40	0	52	122	220
			-209	-195	-179	-160	-138	-111	-78	-37	14	84	182
90	31.50	bu	-146	-131	-112	-91	-66	-36	0	45	104	183	293
			-184	-169	-150	-129	-104	-74	-37	7	66	145	255
100	35.00	bu	-122	-104	-84	-61	-33	0	40	91	157	244	367
			-160	-142	-122	-99	-71	-37	2	53	119	206	329
110	38.50	bu	-97	-78	-56	-30	0	36	81	137	209	306	440
			-135	-116	-94	-68	-37	-1	43	99	171	268	402
120	42.00	bu	-73	-52	-28	0	33	73	122	183	262	367	514
			-111	-90	-66	-37	-4	35	84	145	224	329	476
130	45.50	bu	-48	-26	0	30	66	110	163	229	314	428	587
			-86	-64	-37	-7	28	72	125	191	276	390	549
140	49.00	bu	-24	0	28	61	100	146	204	275	367	489	660
			-62	-37	-9	23	62	108	166	237	329	451	622
150	52.50	bu	0	26	56	91	133	183	244	321	419	550	734
			-37	-11	18	53	95	145	206	283	381	512	696

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, 2019.

			-----BREAKEVEN PRICE-----										
LA Soybeans			7.98	8.54	9.17	9.91	10.79	11.84	13.13	14.74	16.81	19.56	23.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-232	-222	-211	-198	-183	-164	-142	-113	-77	-29	37
			-270	-260	-249	-236	-221	-202	-180	-151	-115	-67	0
60	21.00	bu	-205	-193	-180	-164	-146	-124	-97	-63	-19	37	119
			-243	-231	-218	-202	-184	-162	-135	-101	-57	0	81
70	24.50	bu	-178	-164	-149	-130	-109	-83	-52	-12	37	105	200
			-216	-202	-187	-168	-147	-121	-90	-50	0	67	162
80	28.00	bu	-151	-135	-117	-97	-72	-43	-7	37	95	173	281
			-189	-173	-155	-135	-110	-81	-45	0	57	135	243
90	31.50	bu	-124	-106	-86	-63	-35	-2	37	88	153	240	362
			-162	-144	-124	-101	-73	-40	0	50	115	202	324
100	35.00	bu	-97	-77	-55	-29	1	37	83	139	211	308	443
			-135	-115	-93	-67	-36	0	45	101	173	270	405
110	38.50	bu	-70	-48	-24	4	37	78	128	189	269	375	524
			-108	-86	-62	-33	0	40	90	151	231	337	486
120	42.00	bu	-43	-19	6	37	74	119	173	240	327	443	605
			-81	-57	-31	0	36	81	135	202	289	405	567
130	45.50	bu	-16	9	37	71	111	159	218	291	385	510	686
			-54	-28	0	33	73	121	180	253	347	472	648
140	49.00	bu	10	37	69	105	148	200	263	341	443	578	767
			-27	0	31	67	110	162	225	303	405	540	729
150	52.50	bu	37	66	100	139	185	240	308	392	501	645	848
			0	28	62	101	147	202	270	354	463	607	810

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.0966	1.04	_____
Tractors	hour	10.73	0.3516	3.75	_____
DIESEL FUEL					
Tractors	gal	2.50	3.5802	8.95	_____
Harvesters	gal	2.50	1.2047	3.01	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.79	1.0000	4.79	_____
Tractors	Acre	1.88	1.0000	1.88	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
INTEREST ON OP. CAP.	Acre	8.53	1.0000	8.53	_____

TOTAL DIRECT EXPENSES				368.33	_____
FIXED EXPENSES					
Implements	Acre	9.52	1.0000	9.52	_____
Tractors	Acre	12.96	1.0000	12.96	_____
Harvesters	Acre	12.94	1.0000	12.94	_____

TOTAL FIXED EXPENSES				35.42	_____

TOTAL SPECIFIED EXPENSES				403.75	_____

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, 2019.

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	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.13	1.35	0.17	0.23	0.06	0.68				3.56
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						16.85	25.90	4.79	9.52	0.53	5.94			332.22	395.22
INTEREST ON OPERATING CAPITAL															8.53
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															403.75

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.54	5.92	6.35	6.86	7.46	8.18	9.06	10.16	11.57	13.46	16.09
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-237	-228	-219	-207	-194	-178	-158	-133	-101	-59	0
			-272	-264	-254	-243	-229	-213	-193	-168	-137	-94	-35
60	27.00	bu	-213	-203	-191	-178	-161	-142	-118	-89	-50	0	71
			-249	-238	-227	-213	-197	-177	-154	-124	-86	-35	35
70	31.50	bu	-189	-178	-164	-148	-129	-106	-79	-44	0	59	142
			-225	-213	-199	-183	-164	-142	-114	-79	-35	23	107
80	36.00	bu	-166	-152	-136	-118	-97	-71	-39	0	50	118	213
			-201	-188	-172	-154	-132	-106	-74	-35	15	83	178
90	40.50	bu	-142	-127	-109	-89	-64	-35	0	44	101	178	284
			-177	-162	-144	-124	-100	-71	-35	9	66	142	249
100	45.00	bu	-118	-101	-82	-59	-32	0	39	89	152	237	356
			-154	-137	-117	-94	-67	-35	4	53	117	201	320
110	49.50	bu	-94	-76	-54	-29	0	35	79	133	203	296	427
			-130	-111	-90	-65	-35	0	43	98	168	261	391
120	54.00	bu	-71	-50	-27	0	32	71	118	178	254	356	498
			-106	-86	-62	-35	-3	35	83	142	218	320	463
130	58.50	bu	-47	-25	0	29	64	106	158	222	305	415	569
			-82	-60	-35	-5	29	71	122	187	269	379	534
140	63.00	bu	-23	0	27	59	97	142	197	267	356	474	640
			-59	-35	-8	23	61	107	162	231	320	439	605
150	67.50	bu	0	25	54	89	129	178	237	311	406	534	712
			-35	-9	19	53	94	142	201	276	371	498	676

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.07	6.48	6.96	7.52	8.18	8.97	9.93	11.14	12.70	14.77	17.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-225	-216	-205	-192	-178	-160	-138	-111	-76	-29	35
			-260	-251	-240	-228	-213	-195	-173	-146	-111	-65	0
60	27.00	bu	-199	-188	-175	-160	-142	-121	-95	-62	-20	35	113
			-234	-223	-210	-195	-177	-156	-130	-97	-55	0	78
70	31.50	bu	-173	-160	-145	-127	-106	-82	-51	-13	35	100	192
			-208	-195	-180	-163	-142	-117	-86	-48	0	65	156
80	36.00	bu	-147	-132	-115	-95	-71	-42	-8	35	91	165	270
			-182	-167	-150	-130	-106	-78	-43	0	55	130	234
90	40.50	bu	-121	-104	-85	-62	-35	-3	35	84	147	231	348
			-156	-139	-120	-97	-71	-39	0	48	111	195	313
100	45.00	bu	-95	-76	-54	-29	-0	35	78	133	203	296	426
			-130	-111	-90	-65	-35	0	43	97	167	260	391
110	49.50	bu	-68	-48	-24	2	35	74	122	182	259	361	505
			-104	-83	-60	-32	0	39	86	146	223	326	469
120	54.00	bu	-42	-20	5	35	71	113	165	231	315	426	583
			-78	-55	-30	0	35	78	130	195	279	391	548
130	58.50	bu	-16	7	35	68	106	152	209	280	370	492	661
			-52	-27	0	32	71	117	173	244	335	456	626
140	63.00	bu	9	35	65	100	142	192	252	329	426	557	740
			-26	0	30	65	106	156	217	293	391	521	704
150	67.50	bu	35	63	95	133	177	231	296	377	482	622	818
			0	27	60	97	142	195	260	342	447	587	782

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.0966	1.04	_____
Tractors	hour	10.73	0.6447	6.89	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	6.4077	16.02	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	4.8877	12.24	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.22	1.0000	5.22	_____
Tractors	Acre	3.46	1.0000	3.46	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	9.37	1.0000	9.37	_____

TOTAL DIRECT EXPENSES				410.00	_____
FIXED EXPENSES					
Implements	Acre	10.80	1.0000	10.80	_____
Tractors	Acre	23.83	1.0000	23.83	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____

TOTAL FIXED EXPENSES				104.15	_____

TOTAL SPECIFIED EXPENSES				514.15	_____

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, 2019.

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	38.00	12.54	12.54
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Oct	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.13	1.35	0.17	0.23	0.06	0.68				3.56
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	17.91	57.86	0.44	4.82	1.0000		8.25	108.36
TOTALS						25.50	36.77	22.70	67.38	0.98	10.76			341.67	504.78
INTEREST ON OPERATING CAPITAL															9.37
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															514.15

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.06	5.40	5.79	6.25	6.80	7.45	8.25	9.25	10.53	12.24	14.63
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-263	-253	-243	-230	-215	-197	-175	-148	-112	-65	0
			-367	-358	-347	-334	-319	-301	-279	-252	-217	-169	-104
60	33.00	bu	-237	-225	-212	-197	-179	-158	-131	-98	-56	0	79
			-341	-329	-316	-301	-283	-262	-235	-202	-160	-104	-25
70	38.50	bu	-210	-197	-182	-164	-143	-118	-87	-49	0	65	158
			-314	-301	-286	-268	-247	-222	-191	-153	-104	-38	53
80	44.00	bu	-184	-169	-151	-131	-107	-79	-43	0	56	131	237
			-288	-273	-256	-235	-211	-183	-148	-104	-47	27	132
90	49.50	bu	-158	-141	-121	-98	-71	-39	0	49	112	197	316
			-262	-245	-225	-202	-175	-143	-104	-54	8	93	211
100	55.00	bu	-131	-112	-91	-65	-35	0	43	98	169	263	395
			-235	-217	-195	-169	-140	-104	-60	-5	65	159	290
110	60.50	bu	-105	-84	-60	-32	0	39	87	148	225	329	474
			-209	-188	-164	-137	-104	-64	-16	43	121	225	369
120	66.00	bu	-79	-56	-30	0	35	79	131	197	282	395	553
			-183	-160	-134	-104	-68	-25	27	93	177	290	448
130	71.50	bu	-52	-28	0	32	71	118	175	246	338	460	632
			-156	-132	-104	-71	-32	14	71	142	234	356	527
140	77.00	bu	-26	0	30	65	107	158	219	296	395	526	711
			-130	-104	-73	-38	3	53	115	192	290	422	606
150	82.50	bu	0	28	60	98	143	197	263	345	451	592	790
			-104	-75	-43	-5	39	93	159	241	347	488	685

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.32	6.75	7.25	7.83	8.52	9.34	10.35	11.61	13.23	15.39	18.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-228	-216	-203	-187	-168	-145	-117	-83	-38	20	104
			-332	-320	-307	-291	-272	-249	-221	-187	-142	-83	0
60	33.00	bu	-195	-181	-164	-145	-122	-95	-62	-20	32	104	203
			-299	-285	-268	-249	-226	-199	-166	-124	-71	0	99
70	38.50	bu	-162	-145	-126	-103	-77	-45	-6	41	104	187	303
			-266	-249	-230	-207	-181	-149	-110	-62	0	83	199
80	44.00	bu	-128	-109	-87	-62	-31	4	48	104	175	270	403
			-232	-213	-191	-166	-136	-99	-55	0	71	166	299
90	49.50	bu	-95	-74	-49	-20	13	54	104	166	246	353	503
			-199	-178	-153	-124	-90	-49	0	62	142	249	399
100	55.00	bu	-62	-38	-11	20	58	104	159	228	318	436	603
			-166	-142	-115	-83	-45	0	55	124	213	332	499
110	60.50	bu	-28	-2	27	62	104	154	215	291	389	520	703
			-133	-106	-76	-41	0	49	110	187	285	415	598
120	66.00	bu	4	32	65	104	149	203	270	353	460	603	802
			-99	-71	-38	0	45	99	166	249	356	499	698
130	71.50	bu	37	68	104	145	194	253	325	416	531	686	902
			-66	-35	0	41	90	149	221	311	427	582	798
140	77.00	bu	70	104	142	187	240	303	381	478	603	769	1002
			-33	0	38	83	136	199	277	374	499	665	898
150	82.50	bu	104	139	180	228	285	353	436	540	674	852	1102
			0	35	76	124	181	249	332	436	570	748	998

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	10.73	0.0966	1.04	_____
Tractors	hour	10.73	0.6447	6.89	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	6.4077	16.02	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	4.8877	12.24	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.48	1.0000	5.48	_____
Tractors	Acre	3.46	1.0000	3.46	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	9.23	1.0000	9.23	_____
TOTAL DIRECT EXPENSES				396.23	_____
FIXED EXPENSES					
Implements	Acre	11.14	1.0000	11.14	_____
Tractors	Acre	23.83	1.0000	23.83	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____
TOTAL FIXED EXPENSES				104.49	_____
TOTAL SPECIFIED EXPENSES				500.72	_____

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, 2019.

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	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.45	2.89	1.01	2.37	0.07	0.75				9.47
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.72	2.03	0.36	1.05	0.04	0.53				5.69
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.48	1.87	1.53	3.26	0.09	1.06				9.20
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.13	1.35	0.43	0.57	0.06	0.68				4.16
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50	13.50
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	17.91	57.86	0.44	4.82	1.0000		8.25	108.36
TOTALS						25.50	36.77	22.96	67.72	0.98	10.76			327.78	491.49
INTEREST ON OPERATING CAPITAL															9.23
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															500.72

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			5.37	5.73	6.15	6.64	7.22	7.92	8.77	9.83	11.20	13.02	15.57
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-255	-245	-235	-223	-208	-191	-170	-143	-109	-63	0
			-359	-350	-339	-327	-313	-295	-274	-247	-213	-168	-104
60	30.00	bu	-229	-218	-206	-191	-173	-153	-127	-95	-54	0	76
			-334	-323	-310	-295	-278	-257	-232	-200	-159	-104	-27
70	35.00	bu	-204	-191	-176	-159	-139	-114	-85	-47	0	63	153
			-308	-295	-281	-263	-243	-219	-189	-152	-104	-40	48
80	40.00	bu	-178	-163	-147	-127	-104	-76	-42	0	54	127	229
			-283	-268	-251	-232	-208	-181	-147	-104	-49	23	125
90	45.00	bu	-153	-136	-117	-95	-69	-38	0	47	109	191	306
			-257	-241	-222	-200	-174	-142	-104	-56	4	86	201
100	50.00	bu	-127	-109	-88	-63	-34	0	42	95	163	255	382
			-232	-213	-192	-168	-139	-104	-61	-8	59	150	278
110	55.00	bu	-102	-81	-58	-31	0	38	85	143	218	318	459
			-206	-186	-163	-136	-104	-66	-19	38	114	214	354
120	60.00	bu	-76	-54	-29	0	34	76	127	191	273	382	535
			-181	-159	-133	-104	-69	-27	23	86	168	278	431
130	65.00	bu	-51	-27	0	31	69	114	170	239	327	446	612
			-155	-131	-104	-72	-34	10	65	134	223	341	507
140	70.00	bu	-25	0	29	63	104	153	212	286	382	510	688
			-129	-104	-75	-40	0	48	108	182	278	405	584
150	75.00	bu	0	27	58	95	139	191	255	334	437	573	765
			-104	-77	-45	-8	34	86	150	230	332	469	660

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.76	7.23	7.76	8.39	9.12	10.01	11.09	12.44	14.18	16.50	19.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-220	-208	-195	-179	-161	-139	-111	-78	-34	23	104
			-324	-313	-299	-284	-265	-243	-216	-182	-139	-81	0
60	30.00	bu	-187	-173	-157	-139	-116	-90	-57	-17	34	104	201
			-292	-278	-262	-243	-221	-194	-162	-121	-69	0	97
70	35.00	bu	-155	-139	-120	-98	-72	-41	-3	43	104	185	299
			-259	-243	-224	-202	-177	-146	-108	-60	0	81	194
80	40.00	bu	-122	-104	-82	-57	-28	7	50	104	174	266	396
			-227	-208	-187	-162	-132	-97	-54	0	69	162	292
90	45.00	bu	-90	-69	-45	-17	15	55	104	165	243	348	494
			-194	-173	-149	-121	-88	-48	0	60	139	243	389
100	50.00	bu	-57	-34	-7	23	60	104	158	226	313	429	591
			-162	-139	-112	-81	-44	0	54	121	208	324	487
110	55.00	bu	-25	0	29	63	104	153	212	287	382	510	688
			-129	-104	-74	-40	0	48	108	182	278	405	584
120	60.00	bu	7	34	67	104	148	201	266	348	452	591	786
			-97	-69	-37	0	44	97	162	243	347	487	681
130	65.00	bu	39	69	104	145	193	250	320	408	521	672	883
			-64	-34	0	40	88	146	216	304	417	568	779
140	70.00	bu	72	104	141	185	237	299	375	469	591	753	981
			-32	0	37	81	132	194	270	365	487	649	876
150	75.00	bu	104	139	179	226	281	348	429	530	661	835	1078
			0	34	74	121	177	243	324	426	556	730	974

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.1124	1.21	_____
Tractors	hour	10.73	0.2946	3.14	_____
DIESEL FUEL					
Tractors	gal	2.50	2.8077	7.02	_____
Harvesters	gal	2.50	1.2047	3.01	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.40	1.0000	4.40	_____
Tractors	Acre	1.52	1.0000	1.52	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
INTEREST ON OP. CAP.	Acre	8.53	1.0000	8.53	_____

TOTAL DIRECT EXPENSES				365.21	_____
FIXED EXPENSES					
Implements	Acre	9.23	1.0000	9.23	_____
Tractors	Acre	10.40	1.0000	10.40	_____
Harvesters	Acre	12.94	1.0000	12.94	_____

TOTAL FIXED EXPENSES				32.57	_____

TOTAL SPECIFIED EXPENSES				397.78	_____

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, 2019.

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	1.81	2.13	0.69	0.85	0.07	0.83					6.31
LA Phosphate	lb											50.0000	0.55	27.50		27.50
LA Potash	lb											50.0000	0.32	16.00		16.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54		12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.40	1.76	0.51	2.36	0.04	0.50					6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52					4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21					1.15
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	2.31	2.31		2.31
Valor WP	oz											2.0000	4.38	8.76		8.76
NT Plant-Rigid	12R-30	MFWD 190	0.065	1.00	May	1.96	2.47	1.74	3.69	0.13	1.40					11.26
Soybean Seed RR	lb											50.0000	1.30	65.00		65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21					1.15
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.13	1.35	0.43	0.57	0.06	0.68					4.16
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	1.13	6.78		6.78
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	76.88	48.05		48.05
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	6.02	12.94	0.87	1.45	0.08	1.15					22.43
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15		12.15
TOTALS						14.56	23.34	4.40	9.23	0.49	5.50			332.22		389.25
INTEREST ON OPERATING CAPITAL																8.53
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																397.78

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, 2019.

Soybeans			-----BREAKEVEN PRICE-----										
			5.50	5.87	6.30	6.80	7.40	8.11	8.98	10.07	11.47	13.34	15.95
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-235	-226	-217	-205	-192	-176	-156	-132	-100	-58	0
			-267	-259	-249	-238	-225	-209	-189	-164	-133	-91	-32
60	27.00	bu	-211	-201	-190	-176	-160	-141	-117	-88	-50	0	70
			-244	-234	-222	-209	-192	-173	-150	-120	-82	-32	38
70	31.50	bu	-188	-176	-162	-147	-128	-105	-78	-44	0	58	141
			-220	-209	-195	-179	-160	-138	-111	-76	-32	26	108
80	36.00	bu	-164	-151	-135	-117	-96	-70	-39	0	50	117	211
			-197	-183	-168	-150	-128	-103	-71	-32	17	85	179
90	40.50	bu	-141	-126	-108	-88	-64	-35	0	44	100	176	282
			-173	-158	-141	-120	-96	-67	-32	11	68	143	249
100	45.00	bu	-117	-100	-81	-58	-32	0	39	88	151	235	352
			-150	-133	-114	-91	-64	-32	6	55	118	202	320
110	49.50	bu	-94	-75	-54	-29	0	35	78	132	201	294	423
			-126	-108	-86	-61	-32	2	45	99	169	261	390
120	54.00	bu	-70	-50	-27	0	32	70	117	176	252	352	494
			-103	-82	-59	-32	-0	38	85	143	219	320	461
130	58.50	bu	-47	-25	0	29	64	105	156	220	302	411	564
			-79	-57	-32	-3	31	73	124	188	269	379	532
140	63.00	bu	-23	0	27	58	96	141	196	264	352	470	635
			-56	-32	-5	26	63	108	163	232	320	438	602
150	67.50	bu	0	25	54	88	128	176	235	308	403	529	705
			-32	-7	21	55	95	143	202	276	370	496	673

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, 2019.

Soybeans			-----BREAKEVEN PRICE-----										
			5.98	6.39	6.86	7.41	8.06	8.83	9.79	10.98	12.51	14.55	17.40
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-224	-215	-204	-192	-177	-160	-138	-111	-77	-31	32
			-257	-247	-237	-224	-210	-192	-171	-144	-110	-64	0
60	27.00	bu	-198	-187	-175	-160	-142	-121	-95	-63	-22	32	109
			-231	-220	-207	-192	-175	-154	-128	-96	-55	0	77
70	31.50	bu	-173	-160	-145	-128	-107	-83	-53	-15	32	96	186
			-205	-192	-177	-160	-140	-115	-85	-48	0	64	154
80	36.00	bu	-147	-132	-115	-95	-72	-44	-10	32	87	161	263
			-179	-165	-148	-128	-105	-77	-42	0	55	128	231
90	40.50	bu	-121	-105	-86	-63	-37	-5	32	80	142	225	340
			-154	-137	-118	-96	-70	-38	0	48	110	192	308
100	45.00	bu	-95	-77	-56	-31	-2	32	75	128	197	289	418
			-128	-110	-88	-64	-35	0	42	96	165	257	385
110	49.50	bu	-70	-50	-26	0	32	71	118	177	252	353	495
			-102	-82	-59	-32	0	38	85	144	220	321	462
120	54.00	bu	-44	-22	2	32	67	109	161	225	307	418	572
			-77	-55	-29	0	35	77	128	192	275	385	539
130	58.50	bu	-18	5	32	64	102	148	203	273	363	482	649
			-51	-27	0	32	70	115	171	240	330	449	616
140	63.00	bu	6	32	62	96	137	186	246	321	418	546	726
			-25	0	29	64	105	154	214	289	385	514	693
150	67.50	bu	32	60	91	128	172	225	289	369	473	610	803
			0	27	59	96	140	192	257	337	440	578	771

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, 2019.

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	0.55	50.0000	27.50	_____
LA Potash	lb	0.32	50.0000	16.00	_____
FUNGICIDES					
Quadris	oz	1.13	6.0000	6.78	_____
Stratego	pt	76.88	0.6250	48.05	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	2.31	1.0000	2.31	_____
Valor WP	oz	4.38	2.0000	8.76	_____
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	38.00	0.3300	12.54	_____
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	10.73	0.0986	1.06	_____
Tractors	hour	10.73	0.5739	6.13	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	5.5004	13.75	_____
Harvesters	gal	2.50	1.2047	3.01	_____
Roll-Out Pipe Irr.	gal	2.50	4.8877	12.24	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.63	1.0000	4.63	_____
Tractors	Acre	3.02	1.0000	3.02	_____
Harvesters	Acre	3.01	1.0000	3.01	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	9.36	1.0000	9.36	_____
TOTAL DIRECT EXPENSES				407.45	_____
FIXED EXPENSES					
Implements	Acre	10.31	1.0000	10.31	_____
Tractors	Acre	20.75	1.0000	20.75	_____
Harvesters	Acre	12.94	1.0000	12.94	_____
Roll-Out Pipe Irr.	Acre	56.58	1.0000	56.58	_____
TOTAL FIXED EXPENSES				100.58	_____
TOTAL SPECIFIED EXPENSES				508.03	_____

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, 2019.

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	1.81	2.13	0.69	0.85	0.07	0.83				6.31
LA Phosphate	lb											50.0000	0.55	27.50	27.50
LA Potash	lb											50.0000	0.32	16.00	16.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.40	1.76	0.51	2.36	0.04	0.50				6.53
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.46	1.83	0.06	0.17	0.04	0.52				4.04
Ditcher		2WD 130	0.020	1.00	Oct	0.39	0.43	0.05	0.07	0.02	0.21				1.15
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	2.31	2.31	2.31
Valor WP	oz											2.0000	4.38	8.76	8.76
NT Plant-Folding	12R-38	MFWD 190	0.051	1.00	May	1.54	1.95	1.80	3.83	0.10	1.10				10.22
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.39	0.43	0.05	0.07	0.02	0.21				1.15
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.13	1.35	0.17	0.23	0.06	0.68				3.56
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	1.13	6.78	6.78
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	76.88	48.05	48.05
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	6.02	12.94	0.87	1.45	0.08	1.15				22.43
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	8.65	10.87	17.91	57.86	0.44	4.82	1.0000		8.25	108.36
TOTALS						22.79	33.69	22.11	66.89	0.91	10.02			343.17	498.67
INTEREST ON OPERATING CAPITAL															9.36
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															508.03

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, 2019.

			-----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	27.50	bu	-261	-252	-241	-228	-214	-196	-174	-147	-112	-65	0
			-362	-352	-342	-329	-314	-296	-275	-247	-212	-165	-100
60	33.00	bu	-235	-224	-211	-196	-178	-156	-130	-98	-56	0	78
			-336	-324	-311	-296	-278	-257	-231	-198	-156	-100	-22
70	38.50	bu	-209	-196	-181	-163	-142	-117	-87	-49	0	65	156
			-309	-296	-281	-264	-243	-218	-187	-149	-100	-35	56
80	44.00	bu	-183	-168	-150	-130	-107	-78	-43	0	56	130	235
			-283	-268	-251	-231	-207	-179	-144	-100	-44	30	134
90	49.50	bu	-156	-140	-120	-98	-71	-39	0	49	112	196	313
			-257	-240	-221	-198	-171	-139	-100	-51	11	95	213
100	55.00	bu	-130	-112	-90	-65	-35	0	43	98	168	261	392
			-231	-212	-191	-165	-136	-100	-56	-2	67	161	291
110	60.50	bu	-104	-84	-60	-32	0	39	87	147	224	327	470
			-205	-184	-160	-133	-100	-61	-13	46	123	226	370
120	66.00	bu	-78	-56	-30	0	35	78	130	196	280	392	549
			-179	-156	-130	-100	-64	-22	30	95	179	291	448
130	71.50	bu	-52	-28	0	32	71	117	174	245	336	457	627
			-152	-128	-100	-67	-29	17	73	144	235	357	527
140	77.00	bu	-26	0	30	65	107	156	218	294	392	523	706
			-126	-100	-70	-35	6	56	117	193	291	422	605
150	82.50	bu	0	28	60	98	142	196	261	343	448	588	784
			-100	-72	-40	-2	42	95	161	242	347	488	684

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, 2019.

			-----BREAKEVEN PRICE-----										
Soybeans			6.24	6.67	7.16	7.74	8.42	9.23	10.23	11.47	13.07	15.21	18.20
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-228	-216	-202	-187	-168	-145	-118	-84	-40	18	100
			-328	-316	-303	-287	-268	-246	-219	-184	-140	-82	0
60	33.00	bu	-195	-181	-164	-145	-123	-96	-63	-22	30	100	199
			-295	-281	-265	-246	-224	-197	-164	-123	-70	0	98
70	38.50	bu	-162	-145	-126	-104	-78	-47	-8	38	100	182	297
			-262	-246	-227	-205	-179	-147	-109	-61	0	82	197
80	44.00	bu	-129	-110	-89	-63	-33	1	45	100	171	264	396
			-230	-211	-189	-164	-134	-98	-54	0	70	164	295
90	49.50	bu	-96	-75	-51	-22	10	51	100	162	241	347	495
			-197	-176	-151	-123	-89	-49	0	61	140	246	394
100	55.00	bu	-63	-40	-13	18	55	100	155	223	311	429	593
			-164	-140	-113	-82	-44	0	54	123	211	328	493
110	60.50	bu	-30	-5	24	59	100	149	210	285	382	511	692
			-131	-105	-75	-41	0	49	109	184	281	410	591
120	66.00	bu	1	30	62	100	145	199	264	347	452	593	790
			-98	-70	-37	0	44	98	164	246	352	493	690
130	71.50	bu	34	65	100	141	190	248	319	408	523	675	889
			-65	-35	0	41	89	147	219	308	422	575	788
140	77.00	bu	67	100	138	182	235	297	374	470	593	757	988
			-32	0	37	82	134	197	273	369	493	657	887
150	82.50	bu	100	135	176	223	279	347	429	531	664	840	1086
			0	35	75	123	179	246	328	431	563	739	986

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, 2019.

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	10.73	0.2930	3.14	_____
LA Irrigation Labor					
Special Labor	hour	10.73	0.1500	1.62	_____
DIESEL FUEL					
Tractors	gal	2.50	2.8274	7.07	_____
Engine, RPF, 75	gal	2.50	8.5535	21.39	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.43	1.0000	0.43	_____
Tractors	Acre	1.58	1.0000	1.58	_____
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	1.06	1.0000	1.06	_____
TOTAL DIRECT EXPENSES				51.49	_____
FIXED EXPENSES					
Implements	Acre	1.28	1.0000	1.28	_____
Tractors	Acre	10.87	1.0000	10.87	_____
Well & Pump, Furrow	each	1615.03	0.0062	10.09	_____
Main Line Pipe	each	798.66	0.0062	4.99	_____
Land Forming (\$300)	each	31.97	1.0000	31.97	_____
Engine, RPF, 75	each	1524.70	0.0062	9.53	_____
TOTAL FIXED EXPENSES				68.73	_____
TOTAL SPECIFIED EXPENSES				120.22	_____

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2019.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	10.73	0.2036	2.19	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.50	11.2011	28.00	_____
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	1.22	1.0000	1.22	_____
TOTAL DIRECT EXPENSES				53.06	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1615.03	0.0074	11.96	_____
Engine, 1/4 CP, 65	each	1524.70	0.0074	11.29	_____
Pivot, 1/4 CP	each	8258.83	0.0074	61.18	_____
TOTAL FIXED EXPENSES				84.43	_____
TOTAL SPECIFIED EXPENSES				137.49	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
dollars		
ADJUVANTS		
Surfactant	pt	1.75
CUSTOM FERT/LIME		
App Fert by Air	cwt	7.00
App Fert by Air(Min)	appl	7.00
Custom Apply Fert	acre	7.50
Custom Spread(Truc	appl	4.50
Lime (Spread)	ton	38.00
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	23.76
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	2.59
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	0.43
LA Phosphate	lb	0.55
LA Potash	lb	0.32
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	11.25
UAN + Sulfur (28% N)	cwt	12.40
Urea, Solid (46% N)	cwt	14.50
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.95
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	4.28
Crop Oil (Petroleum)	pt	2.37
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 2019.

ITEM NAME	UNIT	PRICE
FUNGICIDES CONT'D		
Dithane Rainsheild	lb	4.08
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	1.13
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	76.88
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	0.18
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	7.00
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	3.53
Finish 6	pt	9.60
Folex 6EC	pt	10.90
Ginstar EC	pt	26.41
Gramoxone Extra	pt	4.86
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.00
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	2.31
2,4-D Ester	pt	4.17
AAtrex 4L	pt	2.12
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.25
Aim DF	oz	9.65

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

ITEM NAME	UNIT	PRICE
HERBICIDES CONT'D		
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.38
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	13.43
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	11.21
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	4.52
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.51
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	13.81
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	43.40
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 2019.

ITEM NAME	UNIT	PRICE
Fultime	pt	6.29
Fusilade DX	oz	1.00
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.00
Glystar Plus	pt	2.17
Goal 2XL	pt	9.89
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	4.16
Gramoxone Max	pt	4.16
Grandstand R	qt	17.15
Guardzman	pt	4.66
Guardzman Max	pt	7.22
Harmony Extra	oz	14.43
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.20
LA Weedmaster	qt	5.75
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.60
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	3.68
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	5.44
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	2.94
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	0.70
Sencor 4F	pt	14.74
Sencor DF	lb	12.75
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.64
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.41
Strongarm	oz	56.42
Superwham	qt	9.20
Suprend	lb	13.74

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

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	6.97
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	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.92
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	1.33
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.37
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	5.35
Dimilin 2L	oz	2.13
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	1.02
Lannate LV	pt	10.99
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	6.00
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	0.34

Appendix Table 3 Cont'd. Operating Inputs: Estimated Prices for 2019.

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
LARice Insurance	Dollar	1.00
LARice Misc. Overhd	dollar	1.00
LARice 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	3.63
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	165.00
Rice Clearfield 161	lb	1.05
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.43
Rice Seed CF(Levees)	lb	0.90
Rice Seed Conv.	lb	0.30
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.10
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	0.22
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 2019.

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 2019.

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	24.45	0.00	37.96	0.00	37.96
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	30.87	16.82	61.21	72.40	133.62
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	32.17	0.00	45.68	0.00	45.68
Combine (250-299 hp)	275hp	339,000	300	8	14.15	13.51	35.37	35.31	84.19	151.94	236.14
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	37.95	22.73	74.19	97.81	172.00
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	37.32	0.00	50.83	0.00	50.83
Combine (300-349 hp)	325hp	362,000	300	8	16.73	13.51	41.82	37.70	93.04	162.25	255.29
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	41.17	0.00	54.68	0.00	54.68
Combine (350-379 hp)	370hp	354,000	300	8	19.04	13.51	47.60	36.87	97.98	158.67	256.65
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	46.97	0.00	60.48	0.00	60.48
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	20.20	26.56	60.27	114.29	174.56
SC Tractor 93 MDR	93	46,683	600	10	4.79	10.73	11.97	2.72	25.42	8.74	34.17
SC Tractpr 68 MDR	68	27,049	600	10	3.50	10.73	8.75	1.57	21.05	5.06	26.12
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	29,400	600	8	2.57	10.73	6.43	0.91	18.08	6.10	24.18
Tractor(40-59hp)Cab	MFWD 50	39,500	600	8	2.57	10.73	6.43	1.23	18.39	8.19	26.59
Tractor(40-59hp)RB	2WD 50	22,900	600	8	2.57	10.73	6.43	0.71	17.87	4.75	22.63
Tractor(40-59hp)RB	MFWD 50	27,800	600	8	2.57	10.73	6.43	0.86	18.03	5.77	23.80
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	10.73	9.65	1.65	22.03	10.95	32.99
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	10.73	9.65	1.95	22.33	12.97	35.30
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	10.73	9.65	1.20	21.58	8.01	29.59
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	10.73	9.65	1.25	21.63	8.32	29.95
Tractor(90-119hp)CB	2WD 105	69,200	600	8	5.40	10.73	13.51	2.16	26.40	14.36	40.76
Tractor(90-119hp)CB	MFWD 105	83,000	600	8	5.40	10.73	13.51	2.59	26.83	17.22	44.06
Tractor(90-119hp)RB	2WD 105	61,200	600	8	5.40	10.73	13.51	1.91	26.15	12.70	38.85
Tractor(90-119hp)RB	MFWD 105	67,500	600	8	5.40	10.73	13.51	2.10	26.35	14.01	40.36
Tractor(120-139hp)CB	2WD 130	103,000	600	8	6.69	10.73	16.72	3.21	30.67	21.37	52.05
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	10.73	16.72	3.56	31.02	23.66	54.68
Tractor(140-159hp)CB	2WD 150	109,000	600	8	7.72	10.73	19.30	3.40	33.43	22.62	56.06
Tractor(140-159hp)CB	MFWD 150	130,000	600	8	7.72	10.73	19.30	4.06	34.09	26.98	61.07
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	10.73	21.87	4.87	37.48	33.67	71.15
Tractor(160-179hp)CB	MFWD 170	148,000	600	8	8.75	10.73	21.87	4.62	37.23	31.94	69.17
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.73	23.16	4.45	38.35	30.80	69.15
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	10.73	24.44	4.46	39.64	30.86	70.51
Tractor(180-199hp)CB	MFWD 190	175,000	600	8	9.77	10.73	24.44	5.46	40.64	37.77	78.42
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.73	28.95	4.59	44.27	31.74	76.02
Tractor(200-249hp)CB	MFWD 225	191,000	600	8	11.58	10.73	28.95	5.96	45.65	41.22	86.87
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	10.73	28.95	8.65	48.33	59.78	108.12
Tractor(250-349hp)CB	4WD 300	286,000	600	8	15.44	10.73	38.60	8.93	58.27	61.73	120.00
Tractor(250-349hp)CB	Track 300	317,000	600	8	15.44	10.73	38.60	9.90	59.24	68.42	127.66
Tractor(350-449hp)CB	4WD 400	328,000	600	8	20.58	10.73	51.47	10.25	72.45	70.79	143.24
Tractor(350-449hp)CB	Track 400	420,000	600	8	20.58	10.73	51.47	13.12	75.32	90.65	165.98
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	10.73	61.12	8.74	80.59	60.40	141.00

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 2019.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/acre	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.42	0.43	3.55	2.06	5.62
Butt Levee (Backhoe)	70 HP	73,000	150	8	5.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.23	8.54	17.67	33.71	51.38
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	9.60	13.40	30.39	52.88	83.27
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	13.44	17.90	38.73	70.64	109.37
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	7.67	11.66	25.25	46.01	71.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.07	9.21	19.96	36.35	56.32
Cotton Picker-1st-BB	6R30"255hp	465,000	200	8	18.27	0.218	4.92	9.09	15.85	29.87	62.56	92.44
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.17	12.51	23.58	49.39	72.98
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	9.57	11.76	33.06	46.42	79.49
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.07	8.67	19.63	34.22	53.86
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	9.60	13.39	30.38	52.84	83.23
Cotton Picker-1st-Tr	4R30"325hp	311,088	200	8	16.72	0.327	7.38	12.48	15.91	35.78	62.78	98.57
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	7.71	10.79	24.32	42.59	66.91
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	10.58	14.13	30.54	55.78	86.32
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	7.83	11.67	25.42	46.06	71.49
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.07	9.40	20.15	37.10	57.26
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.32	15.85	29.10	62.56	91.67
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.07	12.51	23.48	49.39	72.88
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.89	9.96	28.79	42.88	71.67
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	6.57	7.34	17.21	31.61	48.82
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.92	11.34	26.52	48.81	75.34
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.59	13.47	31.33	58.00	89.33
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	7.16	9.14	21.23	39.34	60.57
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.83	11.97	26.73	51.52	78.26
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.27	9.88	22.17	42.55	64.73
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.64	7.80	17.41	33.58	50.99
Cotton Picker-2nd-BB	6R30"255hp	465,000	200	8	18.01	0.184	4.17	8.32	13.43	25.92	57.79	83.72
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.57	10.60	20.46	45.62	66.09
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.89	9.96	28.79	42.88	71.67
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	6.57	7.34	17.21	31.61	48.82
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.92	11.34	26.52	48.81	75.34
Cotton Picker-2nd-Tr	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.59	13.47	31.33	58.00	89.33
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	7.16	9.14	21.23	39.34	60.57
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.83	11.97	26.73	51.52	78.26
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.27	9.88	22.17	42.55	64.73
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.64	7.96	17.57	34.27	51.84
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.57	10.60	20.46	45.62	66.09
LA Pickup Truck	1/2 ton	27,500	800	5	2.50	1.000	10.73	6.25	3.09	20.07	7.66	27.74
LA Rice Combine	25 ft	181,500	300	10	8.60	0.300	5.05	6.45	14.53	26.04	23.92	49.97
LA Rice Combine-2	25 ft	181,500	300	10	8.60	0.300	5.05	6.45	14.53	26.04	23.92	49.97
LARice Combine Med	20 ft	165,000	300	10	7.10	0.210	3.53	3.72	9.24	16.50	15.21	31.72
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.24	0.06	1.00	0.45	1.45
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	21.00	29.77	62.55	38.76	101.32
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	14.87	23.05	52.66	32.32	84.98
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	7.76	18.67	32.96	26.17	59.13
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.06	7.63	9.61	24.31	17.34	41.66
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.54	5.25	8.51	17.31	15.35	32.66
SC Transloader		33,000	120	12	4.70	0.250	2.95	2.93	4.12	10.01	8.03	18.04
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	11.80	17.50	8.66	37.96	16.29	54.26
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.30	0.00	0.70	0.00	0.70
Sprayer(300-450Gal)	60'	103,000	350	8	5.66	0.017	0.31	0.24	0.09	0.66	0.69	1.36
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.18	0.07	0.49	0.52	1.02
Sprayer(600-750Gal)	60'	208,000	350	8	10.29	0.017	0.31	0.45	0.19	0.96	1.40	2.37
Sprayer(600-825Gal)	80'	210,000	350	8	10.29	0.013	0.23	0.34	0.14	0.72	1.06	1.79
Sprayer(600-825Gal)	90'	288,000	350	8	10.29	0.011	0.21	0.30	0.18	0.69	1.30	1.99
Sprayer(1000-1400Gal)	90'	328,000	350	8	14.15	0.014	0.25	0.49	0.24	1.00	1.77	2.77
Sprayer(1200PlusGal)	120'	332,000	350	8	15.44	0.008	0.15	0.34	0.15	0.65	1.12	1.78

