

Projected Costs and Returns Crop Enterprise Budgets for Soybean Production in Louisiana, 2021

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 2021 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 2021 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 2021 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 \$11.83 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at \$15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was

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

Interest on operating capital (short term) was charged at a nominal rate of 4.00% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$1.73 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 4.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
 Soybeans, RR, 8-row equipment, stale seedbed, non-irrigated,
 alluvial soils, Northeast Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
LA Hired Labor					
Implements	hour	11.83	0.1345	1.59	_____
Tractors	hour	11.83	0.4272	5.06	_____
DIESEL FUEL					
Tractors	gal	1.73	4.0612	7.02	_____
Harvesters	gal	1.73	1.2047	2.08	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.31	1.0000	5.31	_____
Tractors	Acre	2.42	1.0000	2.42	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	5.10	1.0000	5.10	_____
TOTAL DIRECT EXPENSES				339.44	_____
FIXED EXPENSES					
Implements	Acre	8.99	1.0000	8.99	_____
Tractors	Acre	14.71	1.0000	14.71	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
TOTAL FIXED EXPENSES				35.65	_____
TOTAL SPECIFIED EXPENSES				375.09	_____

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, 2021.

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	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.41	1.04	0.07	0.88				6.69
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.50	2.27	1.50	2.77	0.14	1.76				9.80
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	0.85	1.29	0.18	0.21	0.06	0.75				3.28
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						14.64	26.66	5.31	8.99	0.64	7.95			306.44	369.99
INTEREST ON OPERATING CAPITAL															5.10
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															375.09

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.11	5.46	5.86	6.33	6.88	7.54	8.35	9.36	10.65	12.39	14.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-218	-210	-201	-190	-178	-163	-145	-122	-93	-54	0
			-253	-245	-237	-226	-214	-199	-181	-158	-129	-90	-35
60	27.00	bu	-196	-186	-176	-163	-148	-130	-109	-81	-46	0	65
			-231	-222	-211	-199	-184	-166	-144	-117	-82	-35	29
70	31.50	bu	-174	-163	-151	-136	-118	-98	-72	-40	0	54	130
			-210	-199	-186	-171	-154	-133	-108	-76	-35	18	95
80	36.00	bu	-152	-140	-125	-109	-89	-65	-36	0	46	109	196
			-188	-175	-161	-144	-124	-101	-72	-35	11	73	160
90	40.50	bu	-130	-116	-100	-81	-59	-32	0	40	93	163	261
			-166	-152	-136	-117	-95	-68	-35	5	57	127	226
100	45.00	bu	-109	-93	-75	-54	-29	0	36	81	140	218	327
			-144	-129	-111	-90	-65	-35	0	46	104	182	291
110	49.50	bu	-87	-70	-50	-27	0	32	72	122	186	272	392
			-122	-105	-85	-62	-35	-2	37	87	151	237	357
120	54.00	bu	-65	-46	-25	0	29	65	109	163	233	327	458
			-101	-82	-60	-35	-5	29	73	127	198	291	422
130	58.50	bu	-43	-23	0	27	59	98	145	204	280	381	523
			-79	-59	-35	-8	23	62	109	168	244	346	487
140	63.00	bu	-21	0	25	54	89	130	181	245	327	436	588
			-57	-35	-10	18	53	95	146	209	291	400	553
150	67.50	bu	0	23	50	81	118	163	218	286	373	490	654
			-35	-12	14	46	83	127	182	250	338	455	618

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

Table 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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.64	6.03	6.47	6.99	7.60	8.33	9.23	10.35	11.79	13.71	16.39
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-206	-197	-187	-176	-162	-145	-125	-100	-68	-24	35
			-241	-233	-223	-211	-197	-181	-161	-136	-103	-60	0
60	27.00	bu	-182	-171	-159	-145	-129	-109	-85	-55	-16	35	108
			-217	-207	-195	-181	-164	-145	-120	-90	-51	0	72
70	31.50	bu	-157	-145	-131	-115	-96	-73	-44	-9	35	96	180
			-193	-181	-167	-151	-131	-108	-80	-45	0	60	145
80	36.00	bu	-133	-119	-103	-85	-63	-36	-4	35	87	156	253
			-169	-155	-139	-120	-98	-72	-40	0	51	120	217
90	40.50	bu	-109	-93	-75	-55	-30	-0	35	81	139	217	325
			-145	-129	-111	-90	-65	-36	0	45	103	181	290
100	45.00	bu	-85	-68	-48	-24	2	35	75	126	191	277	398
			-120	-103	-83	-60	-32	0	40	90	155	241	362
110	49.50	bu	-61	-42	-20	5	35	71	116	171	242	338	471
			-96	-77	-55	-30	0	36	80	136	207	302	435
120	54.00	bu	-36	-16	7	35	68	108	156	217	294	398	543
			-72	-51	-27	0	32	72	120	181	259	362	508
130	58.50	bu	-12	9	35	65	101	144	196	262	346	458	616
			-48	-25	0	30	65	108	161	226	311	423	580
140	63.00	bu	11	35	63	96	134	180	237	307	398	519	688
			-24	0	27	60	98	145	201	272	362	483	653
150	67.50	bu	35	61	91	126	167	217	277	353	450	579	761
			0	25	55	90	131	181	241	317	414	544	725

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.0000	14.00	_____
App by Air (3 gal)	appl	5.50	6.0000	33.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1345	1.59	_____
Tractors	hour	11.83	0.7203	8.53	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	6.8886	11.92	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	4.8877	8.46	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.66	1.0000	5.66	_____
Tractors	Acre	4.11	1.0000	4.11	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.36	1.0000	5.36	_____
INTEREST ON OP. CAP.	Acre	5.57	1.0000	5.57	_____
TOTAL DIRECT EXPENSES				375.11	_____
FIXED EXPENSES					
Implements	Acre	9.96	1.0000	9.96	_____
Tractors	Acre	25.06	1.0000	25.06	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				94.76	_____
TOTAL SPECIFIED EXPENSES				469.87	_____

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, 2021.

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	1.77	2.80	1.07	1.16	0.11	1.38				8.18
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.36	0.93	0.07	0.88				6.53
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.50	2.27	1.50	2.77	0.14	1.76				9.80
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	0.85	1.29	0.18	0.21	0.06	0.75				3.28
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.50	5.50	5.50
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	14.22	48.87	0.44	5.32	1.0000		7.92	93.27
TOTALS						21.23	37.01	19.48	57.75	1.09	13.27			315.56	464.30
INTEREST ON OPERATING CAPITAL															5.57
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															469.87

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			4.63	4.94	5.30	5.72	6.22	6.82	7.54	8.45	9.62	11.18	13.36
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-240	-231	-221	-210	-196	-180	-160	-135	-102	-60	0
			-334	-326	-316	-304	-291	-274	-254	-229	-197	-154	-94
60	33.00	bu	-216	-205	-193	-180	-163	-144	-120	-90	-51	0	72
			-310	-300	-288	-274	-258	-238	-214	-184	-146	-94	-22
70	38.50	bu	-192	-180	-166	-150	-130	-108	-80	-45	0	60	144
			-286	-274	-260	-244	-225	-202	-174	-139	-94	-34	49
80	44.00	bu	-168	-154	-138	-120	-98	-72	-40	0	51	120	216
			-262	-249	-233	-214	-192	-166	-134	-94	-43	25	121
90	49.50	bu	-144	-128	-110	-90	-65	-36	0	45	102	180	288
			-238	-223	-205	-184	-160	-130	-94	-49	8	85	193
100	55.00	bu	-120	-102	-83	-60	-32	0	40	90	154	240	360
			-214	-197	-177	-154	-127	-94	-54	-4	59	145	265
110	60.50	bu	-96	-77	-55	-30	0	36	80	135	205	300	432
			-190	-171	-150	-124	-94	-58	-14	40	111	205	337
120	66.00	bu	-72	-51	-27	0	32	72	120	180	257	360	504
			-166	-146	-122	-94	-62	-22	25	85	162	265	409
130	71.50	bu	-48	-25	0	30	65	108	160	225	308	420	576
			-142	-120	-94	-64	-29	13	65	130	213	325	481
140	77.00	bu	-24	0	27	60	98	144	200	270	360	480	648
			-118	-94	-67	-34	3	49	105	175	265	385	553
150	82.50	bu	0	25	55	90	130	180	240	315	411	540	720
			-94	-69	-39	-4	36	85	145	220	316	445	625

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.78	6.17	6.63	7.16	7.79	8.54	9.46	10.61	12.08	14.05	16.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-208	-197	-185	-170	-153	-132	-107	-75	-35	18	94
			-303	-292	-279	-265	-248	-227	-202	-170	-129	-75	0
60	33.00	bu	-178	-165	-150	-132	-112	-87	-56	-18	29	94	185
			-272	-259	-244	-227	-206	-181	-151	-113	-64	0	90
70	38.50	bu	-147	-132	-115	-94	-70	-41	-6	37	94	170	276
			-242	-227	-209	-189	-165	-136	-101	-56	0	75	181
80	44.00	bu	-117	-100	-80	-56	-29	3	44	94	159	246	367
			-212	-194	-174	-151	-124	-90	-50	0	64	151	272
90	49.50	bu	-87	-67	-45	-18	12	49	94	151	224	322	458
			-181	-162	-139	-113	-82	-45	0	56	129	227	363
100	55.00	bu	-56	-35	-10	18	53	94	145	208	289	398	549
			-151	-129	-104	-75	-41	0	50	113	194	303	454
110	60.50	bu	-26	-2	24	56	94	140	195	265	354	473	640
			-121	-97	-69	-37	0	45	101	170	259	379	545
120	66.00	bu	3	29	59	94	136	185	246	322	419	549	731
			-90	-64	-34	0	41	90	151	227	324	454	636
130	71.50	bu	34	62	94	132	177	231	296	379	484	625	822
			-60	-32	0	37	82	136	202	284	389	530	727
140	77.00	bu	64	94	129	170	218	276	347	435	549	701	913
			-30	0	34	75	124	181	252	341	454	606	818
150	82.50	bu	94	127	164	208	260	322	398	492	614	777	1004
			0	32	69	113	165	227	303	398	519	682	909

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.0000	14.00	_____
App by Air (3 gal)	appl	5.50	6.0000	33.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1345	1.59	_____
Tractors	hour	11.83	0.7203	8.53	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	6.8886	11.92	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	4.8877	8.46	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.91	1.0000	5.91	_____
Tractors	Acre	4.11	1.0000	4.11	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.36	1.0000	5.36	_____
INTEREST ON OP. CAP.	Acre	5.49	1.0000	5.49	_____
TOTAL DIRECT EXPENSES				361.39	_____
FIXED EXPENSES					
Implements	Acre	10.30	1.0000	10.30	_____
Tractors	Acre	25.06	1.0000	25.06	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				95.10	_____
TOTAL SPECIFIED EXPENSES				456.49	_____

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, 2021.

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	1.77	2.80	1.07	1.16	0.11	1.38					8.18
LA Phosphate	lb											50.0000	0.39	19.50		19.50
LA Potash	lb											50.0000	0.28	14.00		14.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	1.92	3.11	1.09	2.23	0.07	0.83					9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57					3.64
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	1.69	2.67	0.41	1.04	0.07	0.88					6.69
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24					1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00		7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	5.83	11.66		11.66
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.50	2.27	1.50	2.77	0.14	1.76					9.80
Soybean Seed RR	lb											50.0000	0.84	42.00		42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24					1.06
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	0.85	1.29	0.38	0.44	0.06	0.75					3.71
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
Dual II Magnum	pt											1.0000	14.56	14.56		14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00		7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
Flexstar HL	pt											1.0000	4.66	4.66		4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50		5.50
Brigade EC	pt											0.3750	9.60	3.60		3.60
Quadris	oz											6.0000	0.94	5.64		5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50		5.50
Prevathon	oz											8.0000	1.05	8.40		8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	77.60	48.50		48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Prevathon	oz											8.0000	1.05	8.40		8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Brigade EC	pt											0.3750	9.60	3.60		3.60
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.50	5.50		5.50
Gramoxone Inteon	oz											16.0000	0.19	3.04		3.04
Surfactant	pt											1.0000	3.30	3.30		3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30					20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50		8.50
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50		13.50
Roll-Out Pipe Irr.	Acres				Jul	6.59	10.35	14.22	48.87	0.44	5.32	1.0000		7.92		93.27
TOTALS						21.23	37.01	19.73	58.09	1.09	13.27			301.67		451.00
INTEREST ON OPERATING CAPITAL																5.49
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																456.49

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			4.90	5.24	5.62	6.06	6.59	7.22	8.00	8.96	10.20	11.86	14.18
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-231	-223	-214	-202	-189	-173	-154	-130	-99	-57	0
			-326	-318	-309	-297	-284	-269	-249	-225	-194	-153	-95
60	30.00	bu	-208	-198	-187	-173	-158	-139	-115	-86	-49	0	69
			-303	-293	-282	-269	-253	-234	-211	-182	-144	-95	-25
70	35.00	bu	-185	-173	-160	-144	-126	-104	-77	-43	0	57	139
			-280	-269	-255	-240	-221	-199	-172	-138	-95	-37	44
80	40.00	bu	-162	-149	-133	-115	-94	-69	-38	0	49	115	208
			-257	-244	-228	-211	-189	-164	-133	-95	-45	20	113
90	45.00	bu	-139	-124	-107	-86	-63	-34	0	43	99	173	278
			-234	-219	-202	-182	-158	-129	-95	-51	4	78	183
100	50.00	bu	-115	-99	-80	-57	-31	0	38	86	149	231	347
			-211	-194	-175	-153	-126	-95	-56	-8	53	136	252
110	55.00	bu	-92	-74	-53	-28	0	34	77	130	198	289	417
			-187	-169	-148	-124	-95	-60	-17	35	103	194	322
120	60.00	bu	-69	-49	-26	0	31	69	115	173	248	347	486
			-164	-144	-121	-95	-63	-25	20	78	153	252	391
130	65.00	bu	-46	-24	0	28	63	104	154	217	298	405	556
			-141	-119	-95	-66	-31	9	59	122	203	310	461
140	70.00	bu	-23	0	26	57	94	139	193	260	347	463	626
			-118	-95	-68	-37	-0	44	98	165	252	368	530
150	75.00	bu	0	24	53	86	126	173	231	304	397	521	695
			-95	-70	-41	-8	31	78	136	209	302	426	600

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			6.17	6.59	7.08	7.65	8.32	9.12	10.11	11.34	12.92	15.03	17.98
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-200	-189	-177	-163	-146	-126	-101	-70	-31	21	95
			-295	-284	-272	-258	-241	-221	-196	-166	-126	-73	0
60	30.00	bu	-170	-157	-143	-126	-106	-82	-52	-15	31	95	183
			-265	-253	-238	-221	-201	-177	-147	-110	-63	0	88
70	35.00	bu	-141	-126	-109	-89	-65	-37	-3	39	95	168	272
			-236	-221	-204	-184	-161	-132	-98	-55	0	73	177
80	40.00	bu	-111	-94	-75	-52	-25	6	45	95	158	242	360
			-206	-189	-170	-147	-120	-88	-49	0	63	147	265
90	45.00	bu	-82	-63	-41	-15	14	50	95	150	221	316	449
			-177	-158	-136	-110	-80	-44	0	55	126	221	354
100	50.00	bu	-52	-31	-7	21	54	95	144	205	284	390	538
			-147	-126	-102	-73	-40	0	49	110	189	295	442
110	55.00	bu	-23	0	26	58	95	139	193	261	348	464	626
			-118	-94	-68	-36	0	44	98	166	253	369	531
120	60.00	bu	6	31	61	95	135	183	242	316	411	538	715
			-88	-63	-34	0	40	88	147	221	316	442	620
130	65.00	bu	36	63	95	132	175	227	291	371	474	611	803
			-59	-31	0	36	80	132	196	276	379	516	708
140	70.00	bu	65	95	129	168	215	272	341	427	538	685	892
			-29	0	34	73	120	177	246	332	442	590	797
150	75.00	bu	95	126	163	205	256	316	390	482	601	759	980
			0	31	68	110	161	221	295	387	506	664	885

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
LA Hired Labor					
Implements	hour	11.83	0.1586	1.87	_____
Tractors	hour	11.83	0.3542	4.19	_____
DIESEL FUEL					
Tractors	gal	1.73	3.4392	5.94	_____
Harvesters	gal	1.73	1.2047	2.08	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.40	1.0000	5.40	_____
Tractors	Acre	2.07	1.0000	2.07	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	5.12	1.0000	5.12	_____
TOTAL DIRECT EXPENSES				337.53	_____
FIXED EXPENSES					
Implements	Acre	9.46	1.0000	9.46	_____
Tractors	Acre	12.57	1.0000	12.57	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
TOTAL FIXED EXPENSES				33.98	_____
TOTAL SPECIFIED EXPENSES				371.51	_____

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, 2021.

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	2.14	3.49	1.30	1.41	0.11	1.39				9.73
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.07	1.68	0.51	2.07	0.04	0.55				5.88
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
NT Plant-Rigid	12R-20	MFWD 190	0.098	1.00	May	2.24	3.54	2.15	3.96	0.19	2.32				14.21
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	0.85	1.29	0.38	0.44	0.06	0.75				3.71
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						13.21	24.52	5.40	9.46	0.59	7.36			306.44	366.39
INTEREST ON OPERATING CAPITAL															5.12
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															371.51

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.09	5.43	5.83	6.29	6.84	7.50	8.30	9.30	10.59	12.31	14.72
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-216	-209	-200	-189	-177	-162	-144	-121	-92	-54	0
			-250	-243	-234	-223	-211	-196	-178	-155	-126	-88	-33
60	27.00	bu	-195	-185	-175	-162	-147	-130	-108	-81	-46	0	65
			-229	-219	-209	-196	-181	-164	-142	-115	-80	-33	31
70	31.50	bu	-173	-162	-150	-135	-118	-97	-72	-40	0	54	130
			-207	-196	-184	-169	-152	-131	-106	-74	-33	20	96
80	36.00	bu	-151	-139	-125	-108	-88	-65	-36	0	46	108	195
			-185	-173	-159	-142	-122	-99	-70	-33	12	74	161
90	40.50	bu	-130	-116	-100	-81	-59	-32	0	40	92	162	260
			-164	-150	-134	-115	-93	-66	-33	6	58	128	226
100	45.00	bu	-108	-92	-75	-54	-29	0	36	81	139	216	325
			-142	-126	-109	-88	-63	-33	2	47	105	182	291
110	49.50	bu	-86	-69	-50	-27	0	32	72	121	185	271	390
			-120	-103	-84	-61	-33	-1	38	88	151	237	356
120	54.00	bu	-65	-46	-25	0	29	65	108	162	232	325	455
			-99	-80	-59	-33	-4	31	74	128	198	291	421
130	58.50	bu	-43	-23	0	27	59	97	144	203	278	379	520
			-77	-57	-33	-6	25	63	110	169	244	345	486
140	63.00	bu	-21	0	25	54	88	130	180	243	325	433	585
			-55	-33	-8	20	54	96	146	209	291	399	551
150	67.50	bu	0	23	50	81	118	162	216	284	371	487	650
			-33	-10	16	47	84	128	182	250	337	453	616

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.59	5.97	6.41	6.92	7.52	8.25	9.14	10.25	11.67	13.57	16.23
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-205	-196	-187	-175	-161	-145	-125	-100	-68	-25	33
			-239	-230	-221	-209	-195	-179	-159	-134	-102	-59	0
60	27.00	bu	-181	-171	-159	-145	-129	-109	-85	-55	-17	33	105
			-215	-205	-193	-179	-163	-143	-119	-89	-51	0	71
70	31.50	bu	-157	-145	-131	-115	-96	-73	-45	-10	33	93	177
			-191	-179	-165	-149	-130	-107	-79	-44	0	59	143
80	36.00	bu	-133	-119	-104	-85	-64	-37	-5	33	85	153	249
			-167	-153	-138	-119	-97	-71	-39	0	51	119	215
90	40.50	bu	-109	-94	-76	-55	-31	-1	33	78	136	213	321
			-143	-128	-110	-89	-65	-35	0	44	102	179	287
100	45.00	bu	-85	-68	-48	-25	1	33	73	123	187	273	393
			-119	-102	-82	-59	-32	0	39	89	153	239	359
110	49.50	bu	-61	-43	-21	4	33	69	113	168	239	333	465
			-95	-76	-55	-29	0	35	79	134	205	299	431
120	54.00	bu	-37	-17	6	33	66	105	153	213	290	393	536
			-71	-51	-27	0	32	71	119	179	256	359	502
130	58.50	bu	-13	8	33	63	99	141	193	258	341	453	608
			-47	-25	0	29	65	107	159	224	307	419	574
140	63.00	bu	10	33	61	93	131	177	233	303	393	513	680
			-23	0	27	59	97	143	199	269	359	479	646
150	67.50	bu	33	59	89	123	164	213	273	348	444	572	752
			0	25	55	89	130	179	239	314	410	538	718

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.1586	1.87	_____
Tractors	hour	11.83	0.6473	7.66	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	6.2667	10.84	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	4.8877	8.46	_____
REPAIR & MAINTENANCE					
Implements	Acre	6.22	1.0000	6.22	_____
Tractors	Acre	3.76	1.0000	3.76	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.36	1.0000	5.36	_____
INTEREST ON OP. CAP.	Acre	5.60	1.0000	5.60	_____
TOTAL DIRECT EXPENSES				375.18	_____
FIXED EXPENSES					
Implements	Acre	11.45	1.0000	11.45	_____
Tractors	Acre	22.92	1.0000	22.92	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				94.11	_____
TOTAL SPECIFIED EXPENSES				469.29	_____

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, 2021.

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	2.14	3.49	1.30	1.41	0.11	1.39				9.73
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.07	1.68	0.51	2.07	0.04	0.55				5.88
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
NT Plant-Folding	12R-20	MFWD 190	0.098	1.00	May	2.24	3.54	2.77	5.10	0.19	2.32				15.97
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	0.85	1.29	0.18	0.21	0.06	0.75				3.28
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acres				Jul	6.59	10.35	14.22	48.87	0.44	5.32	1.0000		7.92	93.27
TOTALS						19.80	34.87	20.04	59.24	1.04	12.68			317.06	463.69
INTEREST ON OPERATING CAPITAL															5.60
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															469.29

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			4.63	4.95	5.31	5.72	6.22	6.82	7.54	8.45	9.62	11.18	13.37
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-240	-231	-221	-210	-196	-180	-160	-135	-102	-60	0
			-334	-325	-315	-304	-290	-274	-254	-229	-197	-154	-94
60	33.00	bu	-216	-205	-193	-180	-163	-144	-120	-90	-51	0	72
			-310	-299	-288	-274	-257	-238	-214	-184	-145	-94	-22
70	38.50	bu	-192	-180	-166	-150	-130	-108	-80	-45	0	60	144
			-286	-274	-260	-244	-225	-202	-174	-139	-94	-34	49
80	44.00	bu	-168	-154	-138	-120	-98	-72	-40	0	51	120	216
			-262	-248	-232	-214	-192	-166	-134	-94	-42	25	122
90	49.50	bu	-144	-128	-110	-90	-65	-36	0	45	102	180	288
			-238	-222	-204	-184	-159	-130	-94	-49	8	86	194
100	55.00	bu	-120	-102	-83	-60	-32	0	40	90	154	240	360
			-214	-197	-177	-154	-126	-94	-54	-4	60	146	266
110	60.50	bu	-96	-77	-55	-30	0	36	80	135	205	300	432
			-190	-171	-149	-124	-94	-58	-14	40	111	206	338
120	66.00	bu	-72	-51	-27	0	32	72	120	180	257	360	504
			-166	-145	-121	-94	-61	-22	25	86	163	266	410
130	71.50	bu	-48	-25	0	30	65	108	160	225	308	420	576
			-142	-119	-94	-64	-28	13	65	131	214	326	482
140	77.00	bu	-24	0	27	60	98	144	200	270	360	480	648
			-118	-94	-66	-34	4	49	106	176	266	386	554
150	82.50	bu	0	25	55	90	130	180	240	315	411	540	720
			-94	-68	-38	-4	36	86	146	221	317	446	626

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.77	6.17	6.62	7.15	7.78	8.53	9.45	10.59	12.07	14.03	16.79
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-208	-197	-185	-170	-153	-133	-107	-76	-35	18	94
			-302	-292	-279	-265	-247	-227	-201	-170	-129	-75	0
60	33.00	bu	-178	-165	-150	-133	-112	-87	-57	-19	29	94	184
			-272	-259	-244	-227	-206	-181	-151	-113	-64	0	90
70	38.50	bu	-148	-133	-115	-95	-71	-42	-6	37	94	169	275
			-242	-227	-209	-189	-165	-136	-100	-56	0	75	181
80	44.00	bu	-117	-100	-80	-57	-29	3	43	94	159	245	366
			-212	-194	-174	-151	-123	-90	-50	0	64	151	272
90	49.50	bu	-87	-68	-45	-19	11	48	94	150	223	321	457
			-181	-162	-139	-113	-82	-45	0	56	129	227	363
100	55.00	bu	-57	-35	-10	18	52	94	144	207	288	397	548
			-151	-129	-104	-75	-41	0	50	113	194	302	454
110	60.50	bu	-27	-3	24	56	94	139	195	264	353	472	639
			-121	-97	-69	-37	0	45	100	170	259	378	545
120	66.00	bu	3	29	59	94	135	184	245	321	418	548	730
			-90	-64	-34	0	41	90	151	227	324	454	636
130	71.50	bu	33	61	94	131	176	230	296	378	483	624	821
			-60	-32	0	37	82	136	201	283	389	530	726
140	77.00	bu	63	94	129	169	218	275	346	434	548	699	911
			-30	0	34	75	123	181	252	340	454	605	817
150	82.50	bu	94	126	164	207	259	321	397	491	613	775	1002
			0	32	69	113	165	227	302	397	519	681	908

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
LA Rice GPS Charge-SW	acre	0.35	3.0000	1.05	_____
App by Air (3 gal)	appl	5.50	4.0000	22.00	_____
HARVEST AIDS					
Gramoxone Max	pt	3.00	1.0000	3.00	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup Ultra MAX	pt	5.97	3.5000	20.90	_____
Classic	oz	16.86	0.2500	4.22	_____
INSECTICIDES					
Dimilin 2L	oz	2.16	2.0000	4.32	_____
Besiege	oz	1.95	10.0000	19.50	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Methyl Parathion	pt	5.79	1.0000	5.79	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	75.0000	63.00	_____
SERVICE FEE					
Surfactant	pt	3.30	0.5000	1.65	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
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	11.83	0.3772	4.49	_____
LA Other Labor					
Special Labor	hour	11.83	0.1250	1.48	_____
DIESEL FUEL					
Tractors	gal	1.73	3.3869	5.87	_____
Self-Propelled	gal	1.73	1.4915	2.58	_____
REPAIR & MAINTENANCE					
Implements	acre	4.22	1.0000	4.22	_____
Tractors	acre	2.04	1.0000	2.04	_____
Self-Propelled	acre	9.24	1.0000	9.24	_____
INTEREST ON OP. CAP.	acre	4.93	1.0000	4.93	_____

TOTAL DIRECT EXPENSES				332.56	_____
FIXED EXPENSES					
Implements	acre	9.09	1.0000	9.09	_____
Tractors	acre	11.85	1.0000	11.85	_____
Self-Propelled	acre	13.47	1.0000	13.47	_____

TOTAL FIXED EXPENSES				34.41	_____

TOTAL SPECIFIED EXPENSES				366.97	_____

Table 6.B Estimated resource use and costs for field operations, per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2021.

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	2.27	3.78	1.05	2.10	0.06	0.73				9.93
LARice Land Level	13 ft	MFWD 150	0.190	0.20	Nov	0.68	0.97	0.03	0.12	0.03	0.45				2.25
Ditcher		MFWD 150	0.020	1.00	Nov	0.36	0.51	0.05	0.06	0.02	0.24				1.22
Disk Harrow	32'	MFWD 150	0.061	1.00	Mar	1.09	1.57	1.05	2.10	0.06	0.73				6.54
Custom Spread(Truc	appl			1.00	Mar							1.0000	4.50	4.50	4.50
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Field Cultivate	24'	MFWD 150	0.062	1.00	Mar	1.11	1.59	0.48	1.94	0.06	0.74				5.86
Ditcher		MFWD 150	0.020	1.00	Apr	0.36	0.51	0.05	0.06	0.02	0.24				1.22
Grain Drill	20'	MFWD 150	0.094	1.00	May	1.68	2.41	1.46	2.65	0.18	1.97				10.17
LA Other Labor	hour														1.48
Soybean Seed RR	lb											75.0000	0.84	63.00	63.00
Ditcher		MFWD 150	0.020	1.00	May	0.36	0.51	0.05	0.06	0.02	0.24				1.22
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup Ultra MAX	pt											2.0000	5.97	11.94	11.94
Classic	oz											0.2500	16.86	4.22	4.22
Surfactant	pt											0.2000	3.30	0.66	0.66
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup Ultra MAX	pt											1.5000	5.97	8.96	8.96
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Dimilin 2L	oz											2.0000	2.16	4.32	4.32
Quadris	oz											6.0000	0.94	5.64	5.64
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (5 gal)	appl			1.00	Aug							1.0000	7.00	7.00	7.00
Methyl Parathion	pt											1.0000	5.79	5.79	5.79
LARice GPS Charge-SW	acre											1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.50	5.50	5.50
Stratego	pt											0.6250	77.60	48.50	48.50
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep								7.00		
Gramoxone Max	pt											1.0000	3.00	3.00	3.00
Surfactant	pt											0.3000	3.30	0.99	0.99
LARice Combine Med	20 ft		0.210	1.00	Oct	11.82	13.47			0.23	3.54				28.83
Haul Soybeans	bu			1.00	Oct							35.0000	0.27	9.45	9.45
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
TOTALS						19.73	25.32	4.22	9.09	0.82	10.36			293.32	362.04
INTEREST ON OPERATING CAPITAL															4.93
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															366.97

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, 2021.

			-----BREAKEVEN PRICE-----										
LA Soybeans			6.42	6.86	7.37	7.96	8.66	9.50	10.52	11.80	13.45	15.65	18.73
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-215	-207	-198	-188	-176	-161	-143	-121	-92	-53	0
			-249	-242	-233	-222	-210	-195	-178	-155	-126	-88	-34
60	21.00	bu	-193	-184	-173	-161	-146	-129	-107	-80	-46	0	64
			-228	-219	-208	-195	-181	-163	-142	-115	-80	-34	30
70	24.50	bu	-172	-161	-149	-134	-117	-96	-71	-40	0	53	129
			-206	-195	-183	-169	-151	-131	-106	-74	-34	19	94
80	28.00	bu	-150	-138	-124	-107	-88	-64	-35	0	46	107	193
			-185	-172	-158	-142	-122	-99	-70	-34	11	73	159
90	31.50	bu	-129	-115	-99	-80	-58	-32	0	40	92	161	258
			-163	-149	-133	-115	-93	-66	-34	5	57	127	224
100	35.00	bu	-107	-92	-74	-53	-29	0	35	80	138	215	323
			-142	-126	-108	-88	-63	-34	1	46	104	180	288
110	38.50	bu	-86	-69	-49	-26	0	32	71	121	184	269	387
			-120	-103	-84	-61	-34	-2	37	86	150	234	353
120	42.00	bu	-64	-46	-24	0	29	64	107	161	230	323	452
			-99	-80	-59	-34	-5	30	73	127	196	288	417
130	45.50	bu	-43	-23	0	26	58	96	143	201	276	376	516
			-77	-57	-34	-7	24	62	109	167	242	342	482
140	49.00	bu	-21	0	24	53	88	129	179	242	323	430	581
			-55	-34	-9	19	53	94	145	207	288	396	547
150	52.50	bu	0	23	49	80	117	161	215	282	369	484	646
			-34	-11	15	46	83	127	180	248	334	450	611

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

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, 2021.

			-----BREAKEVEN PRICE-----										
LA Soybeans			7.08	7.56	8.12	8.78	9.55	10.48	11.61	13.03	14.86	17.29	20.69
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-203	-195	-185	-174	-160	-144	-124	-99	-67	-25	34
			-238	-229	-219	-208	-194	-178	-158	-134	-102	-59	0
60	21.00	bu	-180	-169	-158	-144	-128	-108	-84	-54	-16	34	105
			-214	-204	-192	-178	-162	-142	-119	-89	-51	0	71
70	24.50	bu	-156	-144	-130	-114	-95	-72	-45	-10	34	93	177
			-190	-178	-164	-148	-129	-107	-79	-44	0	59	142
80	28.00	bu	-132	-118	-103	-84	-63	-37	-5	34	85	153	248
			-166	-153	-137	-119	-97	-71	-39	0	51	119	214
90	31.50	bu	-108	-93	-75	-54	-30	-1	34	79	136	213	320
			-142	-127	-109	-89	-64	-35	0	44	102	178	285
100	35.00	bu	-84	-67	-48	-25	1	34	74	123	187	272	391
			-119	-102	-82	-59	-32	0	39	89	153	238	357
110	38.50	bu	-60	-42	-20	4	34	70	113	168	238	332	463
			-95	-76	-54	-29	0	35	79	134	204	297	428
120	42.00	bu	-37	-16	6	34	66	105	153	213	289	391	534
			-71	-51	-27	0	32	71	119	178	255	357	500
130	45.50	bu	-13	8	34	64	99	141	193	257	340	451	606
			-47	-25	0	29	64	107	158	223	306	417	571
140	49.00	bu	10	34	61	93	131	177	233	302	391	511	677
			-23	0	27	59	97	142	198	268	357	476	643
150	52.50	bu	34	59	89	123	164	213	272	347	442	570	749
			0	25	54	89	129	178	238	312	408	536	714

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
LA Hired Labor					
Implements	hour	11.83	0.0966	1.15	_____
Tractors	hour	11.83	0.3516	4.16	_____
DIESEL FUEL					
Tractors	gal	1.73	3.5802	6.20	_____
Harvesters	gal	1.73	1.2047	2.08	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.18	1.0000	5.18	_____
Tractors	Acre	2.18	1.0000	2.18	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	5.07	1.0000	5.07	_____
TOTAL DIRECT EXPENSES				336.88	_____
FIXED EXPENSES					
Implements	Acre	9.22	1.0000	9.22	_____
Tractors	Acre	13.24	1.0000	13.24	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
TOTAL FIXED EXPENSES				34.41	_____
TOTAL SPECIFIED EXPENSES				371.29	_____

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, 2021.

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	1.42	2.29	0.67	0.72	0.07	0.92					6.02
LA Phosphate	lb											50.0000	0.39	19.50		19.50
LA Potash	lb											50.0000	0.28	14.00		14.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54		12.54
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	1.92	3.11	1.09	2.23	0.07	0.83					9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57					3.64
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58					6.37
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24					1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00		7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	5.83	11.66		11.66
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.13	1.79	1.55	2.86	0.09	1.18					8.51
Soybean Seed RR	lb											50.0000	0.84	42.00		42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24					1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	0.85	1.29	0.18	0.21	0.06	0.75					3.28
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
Dual II Magnum	pt											1.0000	14.56	14.56		14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00		7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
Flexstar HL	pt											1.0000	4.66	4.66		4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50		5.50
Brigade EC	pt											0.3750	9.60	3.60		3.60
Quadris	oz											6.0000	0.94	5.64		5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50		5.50
Prevathon	oz											8.0000	1.05	8.40		8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	77.60	48.50		48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Prevathon	oz											8.0000	1.05	8.40		8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Brigade EC	pt											0.3750	9.60	3.60		3.60
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00		7.00
Gramoxone Inteon	oz											16.0000	0.19	3.04		3.04
Surfactant	pt											1.0000	3.30	3.30		3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30					20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50		8.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15		12.15
TOTALS						13.58	25.19	5.18	9.22	0.53	6.61			306.44		366.22
INTEREST ON OPERATING CAPITAL																5.07
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																371.29

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.08	5.42	5.82	6.28	6.83	7.48	8.28	9.28	10.57	12.29	14.70
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-216	-208	-199	-189	-177	-162	-144	-121	-92	-54	0
			-250	-243	-234	-223	-211	-196	-178	-156	-127	-88	-34
60	27.00	bu	-194	-185	-174	-162	-147	-129	-108	-81	-46	0	64
			-229	-219	-209	-196	-181	-164	-142	-115	-80	-34	30
70	31.50	bu	-173	-162	-149	-135	-118	-97	-72	-40	0	54	129
			-207	-196	-184	-169	-152	-131	-106	-74	-34	19	95
80	36.00	bu	-151	-139	-124	-108	-88	-64	-36	0	46	108	194
			-185	-173	-159	-142	-122	-99	-70	-34	11	73	160
90	40.50	bu	-129	-115	-99	-81	-59	-32	0	40	92	162	259
			-164	-150	-134	-115	-93	-66	-34	6	58	127	225
100	45.00	bu	-108	-92	-74	-54	-29	0	36	81	139	216	324
			-142	-127	-109	-88	-63	-34	1	46	104	182	290
110	49.50	bu	-86	-69	-49	-27	0	32	72	121	185	270	389
			-120	-103	-84	-61	-34	-1	37	87	151	236	355
120	54.00	bu	-64	-46	-24	0	29	64	108	162	231	324	454
			-99	-80	-59	-34	-4	30	73	127	197	290	420
130	58.50	bu	-43	-23	0	27	59	97	144	202	278	378	519
			-77	-57	-34	-7	24	62	109	168	243	344	485
140	63.00	bu	-21	0	24	54	88	129	180	243	324	432	584
			-56	-34	-9	19	54	95	145	209	290	398	549
150	67.50	bu	0	23	49	81	118	162	216	284	371	486	649
			-34	-11	15	46	83	127	182	249	336	452	614

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.59	5.97	6.40	6.92	7.52	8.25	9.13	10.24	11.67	13.57	16.23
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-204	-196	-186	-175	-161	-145	-125	-100	-68	-25	34
			-239	-230	-220	-209	-195	-179	-159	-134	-102	-59	0
60	27.00	bu	-181	-170	-158	-145	-128	-109	-85	-55	-16	34	106
			-215	-205	-193	-179	-163	-143	-119	-89	-51	0	71
70	31.50	bu	-157	-145	-131	-115	-96	-73	-45	-10	34	94	178
			-191	-179	-165	-149	-130	-107	-79	-44	0	59	143
80	36.00	bu	-133	-119	-103	-85	-63	-37	-5	34	85	154	249
			-167	-153	-138	-119	-97	-71	-39	0	51	119	215
90	40.50	bu	-109	-93	-76	-55	-30	-1	34	79	136	213	321
			-143	-128	-110	-89	-65	-35	0	44	102	179	287
100	45.00	bu	-85	-68	-48	-25	1	34	74	124	188	273	393
			-119	-102	-82	-59	-32	0	39	89	153	239	359
110	49.50	bu	-61	-42	-20	4	34	70	114	169	239	333	465
			-95	-76	-55	-29	0	35	79	134	205	299	430
120	54.00	bu	-37	-16	6	34	67	106	154	213	290	393	537
			-71	-51	-27	0	32	71	119	179	256	359	502
130	58.50	bu	-13	8	34	64	99	142	193	258	342	453	608
			-47	-25	0	29	65	107	159	224	307	418	574
140	63.00	bu	10	34	62	94	132	178	233	303	393	513	680
			-23	0	27	59	97	143	199	269	359	478	646
150	67.50	bu	34	60	89	124	164	213	273	348	444	573	752
			0	25	55	89	130	179	239	314	410	538	718

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.0000	14.00	_____
App by Air (3 gal)	appl	5.50	6.0000	33.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.0966	1.15	_____
Tractors	hour	11.83	0.6447	7.63	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	6.4077	11.10	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	4.8877	8.46	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.58	1.0000	5.58	_____
Tractors	Acre	3.87	1.0000	3.87	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.36	1.0000	5.36	_____
INTEREST ON OP. CAP.	Acre	5.54	1.0000	5.54	_____
TOTAL DIRECT EXPENSES				372.60	_____
FIXED EXPENSES					
Implements	Acre	10.30	1.0000	10.30	_____
Tractors	Acre	23.59	1.0000	23.59	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				93.63	_____
TOTAL SPECIFIED EXPENSES				466.23	_____

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, 2021.

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	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.13	1.79	1.55	2.86	0.09	1.18				8.51
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	0.85	1.29	0.18	0.21	0.06	0.75				3.28
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.50	5.50	5.50
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acre				Jul	6.59	10.35	14.22	48.87	0.44	5.32	1.0000		7.92	93.27
TOTALS						20.17	35.54	19.40	58.09	0.98	11.93			315.56	460.69
INTEREST ON OPERATING CAPITAL															5.54
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															466.23

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			4.60	4.91	5.27	5.69	6.18	6.77	7.49	8.40	9.56	11.10	13.27
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-238	-229	-220	-208	-195	-178	-158	-134	-102	-59	0
			-332	-323	-313	-302	-288	-272	-252	-227	-195	-153	-93
60	33.00	bu	-214	-204	-192	-178	-162	-143	-119	-89	-51	0	71
			-308	-298	-286	-272	-256	-236	-212	-183	-144	-93	-22
70	38.50	bu	-190	-178	-165	-149	-130	-107	-79	-44	0	59	143
			-284	-272	-258	-242	-223	-200	-173	-138	-93	-34	49
80	44.00	bu	-166	-153	-137	-119	-97	-71	-39	0	51	119	214
			-260	-246	-231	-212	-191	-165	-133	-93	-42	25	120
90	49.50	bu	-143	-127	-110	-89	-65	-35	0	44	102	178	286
			-236	-221	-203	-183	-158	-129	-93	-48	8	85	192
100	55.00	bu	-119	-102	-82	-59	-32	0	39	89	153	238	357
			-212	-195	-176	-153	-126	-93	-53	-4	59	144	264
110	60.50	bu	-95	-76	-55	-29	0	35	79	134	204	298	429
			-189	-170	-148	-123	-93	-57	-14	40	110	204	335
120	66.00	bu	-71	-51	-27	0	32	71	119	178	255	357	500
			-165	-144	-121	-93	-61	-22	25	85	161	264	407
130	71.50	bu	-47	-25	0	29	65	107	158	223	306	417	572
			-141	-119	-93	-63	-28	13	65	129	212	323	478
140	77.00	bu	-23	0	27	59	97	143	198	268	357	476	643
			-117	-93	-66	-34	3	49	105	174	264	383	550
150	82.50	bu	0	25	55	89	130	178	238	312	408	536	715
			-93	-68	-38	-4	36	85	144	219	315	442	621

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

Table 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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.74	6.13	6.58	7.10	7.73	8.47	9.38	10.52	11.99	13.94	16.68
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-207	-196	-184	-169	-152	-132	-106	-75	-35	18	93
			-300	-290	-277	-263	-246	-225	-200	-169	-128	-75	0
60	33.00	bu	-177	-164	-149	-132	-111	-86	-56	-19	29	93	183
			-270	-257	-242	-225	-205	-180	-150	-112	-64	0	90
70	38.50	bu	-147	-132	-114	-94	-70	-41	-6	37	93	168	274
			-240	-225	-208	-188	-164	-135	-100	-56	0	75	180
80	44.00	bu	-116	-99	-79	-56	-29	3	43	93	158	244	364
			-210	-193	-173	-150	-123	-90	-50	0	64	150	270
90	49.50	bu	-86	-67	-45	-19	11	48	93	150	222	319	454
			-180	-161	-138	-112	-82	-45	0	56	128	225	361
100	55.00	bu	-56	-35	-10	18	52	93	143	206	287	394	544
			-150	-128	-104	-75	-41	0	50	112	193	300	451
110	60.50	bu	-26	-3	24	56	93	138	193	262	351	469	635
			-120	-96	-69	-37	0	45	100	169	257	376	541
120	66.00	bu	3	29	58	93	134	183	244	319	415	544	725
			-90	-64	-34	0	41	90	150	225	322	451	631
130	71.50	bu	33	61	93	131	175	229	294	375	480	620	815
			-60	-32	0	37	82	135	200	282	386	526	722
140	77.00	bu	63	93	128	168	216	274	344	432	544	695	905
			-30	0	34	75	123	180	250	338	451	601	812
150	82.50	bu	93	125	163	206	257	319	394	488	609	770	996
			0	32	69	112	164	225	300	394	515	676	902

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.0000	14.00	_____
App by Air (3 gal)	appl	5.50	6.0000	33.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.0966	1.15	_____
Tractors	hour	11.83	0.6447	7.63	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	6.4077	11.10	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	4.8877	8.46	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.78	1.0000	5.78	_____
Tractors	Acre	3.87	1.0000	3.87	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.36	1.0000	5.36	_____
INTEREST ON OP. CAP.	Acre	5.46	1.0000	5.46	_____
TOTAL DIRECT EXPENSES				358.83	_____
FIXED EXPENSES					
Implements	Acre	10.53	1.0000	10.53	_____
Tractors	Acre	23.59	1.0000	23.59	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				93.86	_____
TOTAL SPECIFIED EXPENSES				452.69	_____

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, 2021.

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	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	1.92	3.11	1.09	2.23	0.07	0.83				9.18
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.35	2.19	0.63	1.62	0.04	0.58				6.37
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.13	1.79	1.55	2.86	0.09	1.18				8.51
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	0.85	1.29	0.38	0.44	0.06	0.75				3.71
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.50	5.50	5.50
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							50.0000	0.27	13.50	13.50
Roll-Out Pipe Irr.	Acres				Jul	6.59	10.35	14.22	48.87	0.44	5.32	1.0000		7.92	93.27
TOTALS						20.17	35.54	19.60	58.32	0.98	11.93			301.67	447.23
INTEREST ON OPERATING CAPITAL															5.46
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															452.69

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			4.87	5.20	5.58	6.02	6.54	7.17	7.94	8.90	10.13	11.77	14.08
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-230	-221	-212	-201	-188	-172	-153	-129	-98	-57	0
			-324	-315	-306	-295	-282	-266	-247	-223	-192	-151	-93
60	30.00	bu	-207	-197	-185	-172	-156	-138	-115	-86	-49	0	69
			-301	-291	-279	-266	-250	-231	-208	-180	-143	-93	-24
70	35.00	bu	-184	-172	-159	-143	-125	-103	-76	-43	0	57	138
			-277	-266	-253	-237	-219	-197	-170	-137	-93	-36	44
80	40.00	bu	-161	-147	-132	-115	-94	-69	-38	0	49	115	207
			-254	-241	-226	-208	-188	-162	-132	-93	-44	21	113
90	45.00	bu	-138	-123	-106	-86	-62	-34	0	43	98	172	276
			-231	-217	-200	-180	-156	-128	-93	-50	4	78	182
100	50.00	bu	-115	-98	-79	-57	-31	0	38	86	147	230	345
			-208	-192	-173	-151	-125	-93	-55	-7	54	136	251
110	55.00	bu	-92	-73	-53	-28	0	34	76	129	197	287	414
			-185	-167	-146	-122	-93	-59	-17	35	103	193	320
120	60.00	bu	-69	-49	-26	0	31	69	115	172	246	345	483
			-162	-143	-120	-93	-62	-24	21	78	152	251	389
130	65.00	bu	-46	-24	0	28	62	103	153	215	295	402	552
			-139	-118	-93	-65	-31	9	59	121	202	308	458
140	70.00	bu	-23	0	26	57	94	138	191	258	345	460	621
			-116	-93	-67	-36	0	44	97	165	251	366	527
150	75.00	bu	0	24	53	86	125	172	230	302	394	517	690
			-93	-69	-40	-7	31	78	136	208	300	424	596

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			6.12	6.54	7.02	7.59	8.25	9.05	10.02	11.24	12.81	14.90	17.83
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-198	-188	-176	-162	-145	-125	-101	-70	-31	20	93
			-292	-282	-270	-256	-239	-219	-195	-164	-125	-73	0
60	30.00	bu	-169	-157	-142	-125	-105	-81	-52	-15	31	93	181
			-263	-250	-236	-219	-199	-175	-146	-109	-62	0	87
70	35.00	bu	-140	-125	-108	-89	-65	-37	-3	38	93	167	269
			-234	-219	-202	-182	-159	-131	-97	-54	0	73	175
80	40.00	bu	-111	-94	-75	-52	-25	6	45	93	156	240	357
			-204	-188	-168	-146	-119	-87	-48	0	62	146	263
90	45.00	bu	-81	-62	-41	-15	14	49	93	148	219	313	445
			-175	-156	-135	-109	-79	-43	0	54	125	219	351
100	50.00	bu	-52	-31	-7	20	53	93	142	203	282	386	532
			-146	-125	-101	-73	-39	0	48	109	188	292	439
110	55.00	bu	-23	-0	26	57	93	137	191	258	344	459	620
			-117	-94	-67	-36	0	43	97	164	250	365	526
120	60.00	bu	6	31	60	93	133	181	240	313	407	532	708
			-87	-62	-33	0	39	87	146	219	313	439	614
130	65.00	bu	35	62	93	130	173	225	289	368	470	606	796
			-58	-31	0	36	79	131	195	274	376	512	702
140	70.00	bu	64	93	127	167	213	269	337	423	532	679	884
			-29	0	33	73	119	175	243	329	439	585	790
150	75.00	bu	93	125	161	203	253	313	386	478	595	752	972
			0	31	67	109	159	219	292	384	501	658	878

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
LA Hired Labor					
Implements	hour	11.83	0.1124	1.33	_____
Tractors	hour	11.83	0.2946	3.48	_____
DIESEL FUEL					
Tractors	gal	1.73	2.8077	4.86	_____
Harvesters	gal	1.73	1.2047	2.08	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.42	1.0000	4.42	_____
Tractors	Acre	1.69	1.0000	1.69	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	5.06	1.0000	5.06	_____
TOTAL DIRECT EXPENSES				333.78	_____
FIXED EXPENSES					
Implements	Acre	8.13	1.0000	8.13	_____
Tractors	Acre	10.19	1.0000	10.19	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
TOTAL FIXED EXPENSES				30.27	_____
TOTAL SPECIFIED EXPENSES				364.05	_____

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, 2021.

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	1.42	2.29	0.67	0.72	0.07	0.92					6.02
LA Phosphate	lb											50.0000	0.39	19.50		19.50
LA Potash	lb											50.0000	0.28	14.00		14.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54		12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.07	1.68	0.51	2.07	0.04	0.55					5.88
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57					3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24					1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00		7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	5.83	11.66		11.66
NT Plant-Rigid	12R-30	MFWD 190	0.065	1.00	May	1.50	2.36	1.80	3.32	0.13	1.54					10.52
Soybean Seed RR	lb											50.0000	0.84	42.00		42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24					1.06
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	0.85	1.29	0.38	0.44	0.06	0.75					3.71
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
Dual II Magnum	pt											1.0000	14.56	14.56		14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00		7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18		4.18
Flexstar HL	pt											1.0000	4.66	4.66		4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50		5.50
Brigade EC	pt											0.3750	9.60	3.60		3.60
Quadris	oz											6.0000	0.94	5.64		5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50		5.50
Prevathon	oz											8.0000	1.05	8.40		8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	77.60	48.50		48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Prevathon	oz											8.0000	1.05	8.40		8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50		5.50
Brigade EC	pt											0.3750	9.60	3.60		3.60
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00		7.00
Gramoxone Inteon	oz											16.0000	0.19	3.04		3.04
Surfactant	pt											1.0000	3.30	3.30		3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30					20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50		8.50
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15		12.15
TOTALS						11.75	22.14	4.42	8.13	0.49	6.11			306.44		358.99
INTEREST ON OPERATING CAPITAL																5.06
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																364.05

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.03	5.37	5.76	6.22	6.76	7.41	8.21	9.20	10.47	12.18	14.56
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-214	-206	-197	-187	-175	-160	-142	-120	-91	-53	0
			-244	-236	-228	-217	-205	-191	-173	-150	-122	-83	-30
60	27.00	bu	-192	-183	-173	-160	-146	-128	-107	-80	-45	0	64
			-223	-214	-203	-191	-176	-158	-137	-110	-76	-30	34
70	31.50	bu	-171	-160	-148	-133	-116	-96	-71	-40	0	53	128
			-201	-191	-178	-164	-147	-126	-101	-70	-30	23	98
80	36.00	bu	-150	-137	-123	-107	-87	-64	-35	0	45	107	192
			-180	-168	-153	-137	-117	-94	-65	-30	15	76	162
90	40.50	bu	-128	-114	-98	-80	-58	-32	0	40	91	160	257
			-158	-145	-129	-110	-88	-62	-30	9	61	130	226
100	45.00	bu	-107	-91	-74	-53	-29	0	35	80	137	214	321
			-137	-122	-104	-83	-59	-30	5	50	107	184	291
110	49.50	bu	-85	-68	-49	-26	0	32	71	120	183	267	385
			-116	-99	-79	-57	-30	1	41	90	153	237	355
120	54.00	bu	-64	-45	-24	0	29	64	107	160	229	321	450
			-94	-76	-55	-30	-1	34	76	130	199	291	419
130	58.50	bu	-42	-22	0	26	58	96	142	200	275	375	514
			-73	-53	-30	-3	28	66	112	170	245	344	484
140	63.00	bu	-21	0	24	53	87	128	178	241	321	428	578
			-51	-30	-5	23	57	98	148	210	291	398	548
150	67.50	bu	0	22	49	80	116	160	214	281	367	482	643
			-30	-7	19	50	86	130	184	251	337	452	612

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.48	5.85	6.28	6.78	7.37	8.09	8.95	10.04	11.44	13.30	15.90
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-204	-195	-186	-174	-161	-145	-126	-101	-70	-28	30
			-234	-226	-216	-205	-191	-175	-156	-131	-100	-58	0
60	27.00	bu	-180	-170	-159	-145	-129	-110	-87	-57	-19	30	100
			-211	-201	-189	-175	-159	-140	-117	-87	-50	0	70
70	31.50	bu	-157	-145	-132	-116	-97	-75	-47	-13	30	88	170
			-187	-175	-162	-146	-127	-105	-78	-43	0	58	140
80	36.00	bu	-133	-120	-105	-87	-65	-40	-8	30	80	147	241
			-164	-150	-135	-117	-95	-70	-39	0	50	117	211
90	40.50	bu	-110	-95	-77	-57	-33	-4	30	74	130	206	311
			-140	-125	-108	-87	-63	-35	0	43	100	175	281
100	45.00	bu	-87	-70	-50	-28	-1	30	69	118	181	264	382
			-117	-100	-81	-58	-31	0	39	87	150	234	351
110	49.50	bu	-63	-45	-23	0	30	65	108	162	231	323	452
			-93	-75	-54	-29	0	35	78	131	201	293	422
120	54.00	bu	-40	-19	3	30	62	100	147	206	281	382	522
			-70	-50	-27	0	31	70	117	175	251	351	492
130	58.50	bu	-16	5	30	59	94	135	186	250	331	440	593
			-46	-25	0	29	63	105	156	219	301	410	562
140	63.00	bu	6	30	57	88	126	170	225	294	382	499	663
			-23	0	27	58	95	140	195	263	351	469	633
150	67.50	bu	30	55	84	118	158	206	264	338	432	558	733
			0	25	54	87	127	175	234	307	402	527	703

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	3.0000	21.00	_____
App by Air (3 gal)	appl	5.50	5.0000	27.50	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.19	16.0000	3.04	_____
FERTILIZERS					
LA Phosphate	lb	0.39	50.0000	19.50	_____
LA Potash	lb	0.28	50.0000	14.00	_____
FUNGICIDES					
Quadris	oz	0.94	6.0000	5.64	_____
Stratego	pt	77.60	0.6250	48.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.19	66.0000	12.54	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	5.83	2.0000	11.66	_____
Dual II Magnum	pt	14.56	1.0000	14.56	_____
Flexstar HL	pt	4.66	1.0000	4.66	_____
INSECTICIDES					
Brigade EC	pt	9.60	0.7500	7.20	_____
Prevathon	oz	1.05	16.0000	16.80	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	3.30	1.0000	3.30	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.84	50.0000	42.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
Digital Ag Fee	acre	8.50	1.0000	8.50	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	55.0000	14.85	_____
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.83	0.0986	1.17	_____
Tractors	hour	11.83	0.5739	6.79	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	5.5004	9.52	_____
Harvesters	gal	1.73	1.2047	2.08	_____
Roll-Out Pipe Irr.	gal	1.73	4.8877	8.46	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.63	1.0000	4.63	_____
Tractors	Acre	3.30	1.0000	3.30	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.36	1.0000	5.36	_____
INTEREST ON OP. CAP.	Acre	5.52	1.0000	5.52	_____
TOTAL DIRECT EXPENSES				370.16	_____
FIXED EXPENSES					
Implements	Acre	9.00	1.0000	9.00	_____
Tractors	Acre	20.04	1.0000	20.04	_____
Harvesters	Acre	11.95	1.0000	11.95	_____
Roll-Out Pipe Irr.	Acre	47.79	1.0000	47.79	_____
TOTAL FIXED EXPENSES				88.78	_____
TOTAL SPECIFIED EXPENSES				458.94	_____

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, 2021.

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	1.42	2.29	0.67	0.72	0.07	0.92				6.02
LA Phosphate	lb											50.0000	0.39	19.50	19.50
LA Potash	lb											50.0000	0.28	14.00	14.00
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.07	1.68	0.51	2.07	0.04	0.55				5.88
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.11	1.75	0.06	0.15	0.04	0.57				3.64
Ditcher		2WD 130	0.020	1.00	Oct	0.30	0.41	0.05	0.06	0.02	0.24				1.06
App by Air (5 gal)	appl			1.00	Mar							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	5.83	11.66	11.66
NT Plant-Folding	12R-38	MFWD 190	0.051	1.00	May	1.18	1.86	1.81	3.34	0.10	1.22				9.41
Soybean Seed RR	lb											50.0000	0.84	42.00	42.00
Ditcher		2WD 130	0.020	1.00	May	0.30	0.41	0.05	0.06	0.02	0.24				1.06
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	0.85	1.29	0.18	0.21	0.06	0.75				3.28
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual II Magnum	pt											1.0000	14.56	14.56	14.56
App by Air (5 gal)	appl			1.00	Jun							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Flexstar HL	pt											1.0000	4.66	4.66	4.66
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Quadris	oz											6.0000	0.94	5.64	5.64
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	77.60	48.50	48.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Brigade EC	pt											0.3750	9.60	3.60	3.60
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.50	5.50	5.50
Prevathon	oz											8.0000	1.05	8.40	8.40
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Gramoxone Inteon	oz											16.0000	0.19	3.04	3.04
Surfactant	pt											1.0000	3.30	3.30	3.30
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	5.20	11.95	0.90	1.31	0.08	1.30				20.66
Digital Ag Fee	acre			1.00	Oct							1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							55.0000	0.27	14.85	14.85
Roll-Out Pipe Irr.	Acres				Jul	6.59	10.35	14.22	48.87	0.44	5.32	1.0000		7.92	93.27
TOTALS						18.02	31.99	18.45	56.79	0.91	11.11			317.06	453.42
INTEREST ON OPERATING CAPITAL															5.52
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															458.94

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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			4.57	4.88	5.23	5.65	6.14	6.73	7.44	8.34	9.49	11.03	13.18
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-236	-228	-218	-207	-193	-177	-157	-133	-101	-59	0
			-325	-317	-307	-295	-282	-266	-246	-221	-190	-147	-88
60	33.00	bu	-213	-202	-191	-177	-161	-142	-118	-88	-50	0	71
			-301	-291	-280	-266	-250	-230	-207	-177	-139	-88	-17
70	38.50	bu	-189	-177	-163	-148	-129	-106	-78	-44	0	59	142
			-278	-266	-252	-236	-217	-195	-167	-133	-88	-29	53
80	44.00	bu	-165	-152	-136	-118	-96	-71	-39	0	50	118	213
			-254	-241	-225	-207	-185	-159	-128	-88	-38	29	124
90	49.50	bu	-142	-126	-109	-88	-64	-35	0	44	101	177	284
			-230	-215	-198	-177	-153	-124	-88	-44	12	88	195
100	55.00	bu	-118	-101	-81	-59	-32	0	39	88	152	236	355
			-207	-190	-170	-147	-121	-88	-49	0	63	148	266
110	60.50	bu	-94	-76	-54	-29	0	35	78	133	202	296	426
			-183	-164	-143	-118	-88	-53	-9	44	114	207	337
120	66.00	bu	-71	-50	-27	0	32	71	118	177	253	355	497
			-159	-139	-116	-88	-56	-17	29	88	164	266	408
130	71.50	bu	-47	-25	0	29	64	106	157	222	304	414	568
			-136	-114	-88	-59	-24	17	69	133	215	325	479
140	77.00	bu	-23	0	27	59	96	142	197	266	355	473	639
			-112	-88	-61	-29	8	53	108	177	266	384	550
150	82.50	bu	0	25	54	88	129	177	236	310	405	532	710
			-88	-63	-34	0	40	88	148	222	317	444	621

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

Table 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, 2021.

			-----BREAKEVEN PRICE-----										
Soybeans			5.65	6.03	6.48	6.99	7.61	8.34	9.24	10.36	11.80	13.72	16.41
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-207	-196	-184	-170	-153	-133	-108	-77	-38	14	88
			-295	-285	-273	-258	-242	-221	-197	-166	-126	-73	0
60	33.00	bu	-177	-164	-150	-133	-113	-88	-59	-22	25	88	177
			-266	-253	-239	-221	-201	-177	-147	-110	-63	0	88
70	38.50	bu	-148	-133	-116	-96	-72	-44	-9	33	88	162	266
			-236	-221	-204	-184	-161	-133	-98	-55	0	73	177
80	44.00	bu	-118	-101	-81	-59	-32	0	39	88	152	236	355
			-207	-190	-170	-147	-121	-88	-49	0	63	147	266
90	49.50	bu	-88	-69	-47	-22	8	44	88	144	215	310	443
			-177	-158	-136	-110	-80	-44	0	55	126	221	355
100	55.00	bu	-59	-38	-13	14	48	88	138	199	279	384	532
			-147	-126	-102	-73	-40	0	49	110	190	295	443
110	60.50	bu	-29	-6	20	51	88	133	187	255	342	458	621
			-118	-95	-68	-36	0	44	98	166	253	369	532
120	66.00	bu	-0	25	54	88	129	177	236	310	405	532	710
			-88	-63	-34	0	40	88	147	221	317	443	621
130	71.50	bu	29	57	88	125	169	221	286	366	469	606	799
			-59	-31	0	36	80	133	197	277	380	517	710
140	77.00	bu	59	88	122	162	209	266	335	421	532	680	887
			-29	0	34	73	121	177	246	332	443	591	799
150	82.50	bu	88	120	157	199	250	310	384	477	596	754	976
			0	31	68	110	161	221	295	388	507	665	887

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, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	11.83	0.2930	3.47	_____
LA Irrigation Labor					
Special Labor	hour	11.83	0.1500	1.79	_____
DIESEL FUEL					
Tractors	gal	1.73	2.8274	4.90	_____
Engine, RPF, 75	gal	1.73	8.5535	14.79	_____
REPAIR & MAINTENANCE					
Implements	Acre	0.40	1.0000	0.40	_____
Tractors	Acre	1.69	1.0000	1.69	_____
Well & Pump, Furrow	each	472.80	0.0062	2.96	_____
Engine, RPF, 75	ac-in	0.39	10.5000	4.20	_____
INTEREST ON OP. CAP.	Acre	0.59	1.0000	0.59	_____
TOTAL DIRECT EXPENSES				42.77	_____
FIXED EXPENSES					
Implements	Acre	1.08	1.0000	1.08	_____
Tractors	Acre	10.35	1.0000	10.35	_____
Well & Pump, Furrow	each	1328.54	0.0062	8.30	_____
Main Line Pipe	each	734.41	0.0062	4.59	_____
Land Forming (\$300)	each	26.30	1.0000	26.30	_____
Engine, RPF, 75	each	1376.08	0.0062	8.60	_____
TOTAL FIXED EXPENSES				59.22	_____
TOTAL SPECIFIED EXPENSES				101.99	_____

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2021.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	11.83	0.2036	2.41	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	1.73	11.2011	19.37	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	472.80	0.0074	3.50	_____
Engine, 1/4 CP, 65	ac-in	0.66	7.5000	4.97	_____
Pivot, 1/4 CP	1320'	1820.00	0.0074	13.48	_____
INTEREST ON OP. CAP.	Acre	0.70	1.0000	0.70	_____
TOTAL DIRECT EXPENSES				44.43	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1328.54	0.0074	9.84	_____
Engine, 1/4 CP, 65	each	1376.08	0.0074	10.19	_____
Pivot, 1/4 CP	each	6995.72	0.0074	51.82	_____
TOTAL FIXED EXPENSES				71.85	_____
TOTAL SPECIFIED EXPENSES				116.28	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2021.

ITEM NAME	UNIT	PRICE
dollars		
CUSTOM HARVEST/HAUL		
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	5.50
App by Air (5 gal)	appl	7.00
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	7.50
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	18.62
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	3.00
DAP	cwt	20.99
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	24.08
Fert 10-34-0	gal	2.80
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	18.22
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.38
LA Phosphate	lb	0.39
LA Potash	lb	0.28
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	12.03
UAN + Sulfur (28% N)	cwt	14.49
Urea, Solid (46% N)	cwt	19.74
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.90
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	5.94
Crop Oil (Petroleum)	pt	2.86
Cruiser 5FS	oz	0.90
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81
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	0.94
Ridomil GoldPC 10G	lb	2.08

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
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	77.60
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	0.76
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	0.19
Mepex	oz	0.06
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.21
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	3.84
CottonQuik	pt	6.06
Def 6	pt	7.68
Def/Folex	pt	7.68
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.70
Ethephon 6E	pt	4.00
Finish 6	pt	8.00
Folex 6EC	pt	10.21
Ginstar EC	pt	26.68
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.19
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.84
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	6.77
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	2.68
AAtrex 4L	pt	2.23
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.00
Aim DF	oz	9.65
App Fert by Air	cwt	7.00
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	1.50
Atrazine 90DF	lb	3.59
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	6.67
Basagran	pt	5.43
Basis Gold	lb	9.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
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	11.07
Bucril 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	3.64
Canopy 75%	oz	2.74
Canopy XL	oz	2.32
Caparol 4L	pt	4.67
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	10.73
Classic	oz	16.86
Clincher EC	oz	1.95
Cobra 2EC	oz	1.70
Command 3ME	pt	18.56
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	6.01
Cotoran DF	lb	7.92
Cotton Pro Flowable	pt	3.75
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	3.02
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.03
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	14.56
Dual Magnum	pt	13.33
Duet	pt	5.63
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	42.57
Flexstar HL	pt	4.66
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29
Fusilade DX	oz	1.15
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.08
Glystar Plus	pt	2.17
Goal 2XL	pt	7.52
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	3.00
Gramoxone Max	pt	3.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Grandstand R	qt	17.15
Guardsman	pt	4.66
Guardsman Max	pt	7.22
Harmony Extra	oz	11.03
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.00
LA Weedmaster	qt	5.76
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	3.86
MSMA6 + Surfactant	pt	3.86
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.66
Pendimax 3.3	pt	2.47
Permit 75DF	oz	15.00
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.76
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.10
Raptor	oz	4.38
Reflex 2LC	pt	6.20
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	24.49
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	3.04
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.19
Scepter 70 DG	oz	4.82
Select 2EC	oz	0.71
Sencor 4F	pt	14.74
Sencor DF	lb	14.25
Squadron CE	pt	12.50
Stam 4E	qt	7.72
Stam 80 EDF	lb	9.45
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.91
Strongarm	oz	56.42
Superwham	qt	8.61
Suprend	lb	13.52
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	10.21
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	10.21
Treflan HFP	pt	2.88
Treflan TR-10	lb	1.10

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
		dollars
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.68
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	5.83
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	6.42
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.85
App Fert by Air (Min)	appl	7.50
Asana .66 XL	oz	0.55
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Brigade EC	pt	9.60
Brigade WSB	lb	26.04
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.08
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
Custom Apply Fert	acre	7.00
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
Diamond .83EC	pt	19.52
Dimethoate 4E	pt	5.44
Dimilin 2L	oz	2.16
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	7.28
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	1.94
Intruder 70WP	oz	1.80
Karate Z	oz	1.00
Lannate LV	pt	9.00
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	10.56
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	1.50
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	16.50
Pounce 3.2 EC	oz	0.34

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
dollars		
Prevathon	oz	1.05
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	12.16
Spintor 2SC	oz	4.93
Steward	pt	39.51
Surfactant	pt	3.30
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	2.57
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.24
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LRice Insurance	Dollar	1.00
LRice Misc. Overhd	dollar	1.00
LRice 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	4.38
Corn Seed Conv.	thous	2.76
Corn Seed RR	thous	3.38
Corn Seed VT3	thous	3.91
Corn Seed VT3Pro	thous	3.91
Cotton Seed BG/RR	thous	0.62
Cotton Seed BGII/RRF	thous	2.61
Cotton Seed Bt	thous	2.60
Cotton Seed BtRR	thous	3.15
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
Cotton Seed WS	thous	0.49
Cotton Seed WS/RR	thous	0.00
Cotton Seed WS/RRF	thous	0.59
Rice Clearfield 161	lb	0.90
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.90
Rice Seed CF (Levees)	lb	0.95
Rice Seed Conv.	lb	0.32
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	2.64
Sorghum Hybrid Sudax	lb	1.20
Sorghum NonConcept	lb	1.18
Soybean Seed LL	lb	1.16
Soybean Seed Private	lb	0.38
Soybean Seed Public	lb	0.00
Soybean Seed RR	lb	0.84
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.28
Wheat Seed Public	lb	0.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2021.

ITEM NAME	UNIT	PRICE
dollars		
SERVICE FEE		
Cotton Checkoff	bale	2.56
Cotton Storage	bale	25.00
Crop Consultant	acre	7.00
Custom Combine Rice	acre	0.00
Custom Spread(Truc	appl	4.50
Digital Ag Fee	acre	8.50
Digital Ag Fee	acre	8.50
Insect Scouting	acre	7.00
Lime (Spread)	ton	38.00
Rice Consultant	acre	8.00
RRF Cotton Tech Fee	cap/ac	48.25
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
BGII/RRF Cot Tech Fe	thous	1.49
BGII/RRF Cot Tech Fe	cap/ac	62.69
Eradication Fee	acre	6.00
Eradication Zone 1	acre	6.00
Eradication Zone 1A	acre	6.00
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
RR Cotton Tech Fee	thous	1.04
RR Cotton Tech Fee	cap/ac	43.66
RRF Cotton Tech Fee	thous	1.04

Appendix Table 4. Tractors: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Louisiana 2021.

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	16.91	0.00	30.42	0.00	30.42
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	21.36	16.82	51.70	64.41	116.12
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	22.26	0.00	35.77	0.00	35.77
Combine (250-299 hp)	275hp	352,000	300	8	14.15	13.51	24.47	36.66	74.65	140.36	215.01
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	26.26	22.73	62.50	87.01	149.52
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	25.82	0.00	39.33	0.00	39.33
Combine (300-349 hp)	325hp	383,000	300	8	16.73	13.51	28.94	39.89	82.34	152.72	235.07
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	28.49	0.00	42.00	0.00	42.00
Combine (350-379 hp)	370hp	390,000	300	8	19.04	13.51	32.93	40.62	87.07	155.51	242.58
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	32.50	0.00	46.01	0.00	46.01
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	13.97	26.56	54.05	101.68	155.73
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.83	8.28	2.72	22.83	7.55	30.39
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.83	6.05	1.57	19.46	4.37	23.83
Tractor (40-59hp)Cab	2WD 50	30,900	600	8	2.57	11.83	4.45	0.96	17.24	5.61	22.85
Tractor (40-59hp)Cab	MFWD 50	41,400	600	8	2.57	11.83	4.45	1.29	17.57	7.51	25.09
Tractor (40-59hp)RB	2WD 50	30,900	600	8	2.57	11.83	4.45	0.96	17.24	5.61	22.85
Tractor (40-59hp)RB	MFWD 50	27,200	600	8	2.57	11.83	4.45	0.85	17.13	4.93	22.07
Tractor (60-89hp)CAB	2WD 75	53,200	600	8	3.86	11.83	6.67	1.66	20.17	9.66	29.83
Tractor (60-89hp)CAB	MFWD 75	57,600	600	8	3.86	11.83	6.67	1.80	20.30	10.46	30.76
Tractor (60-89hp)RB	2WD 75	38,400	600	8	3.86	11.83	6.67	1.20	19.70	6.97	26.68
Tractor (60-89hp)RB	MFWD 75	41,800	600	8	3.86	11.83	6.67	1.30	19.81	7.59	27.40
Tractor (90-119hp)CB	2WD 105	71,200	600	8	5.40	11.83	9.34	2.22	23.40	12.93	36.33
Tractor (90-119hp)CB	MFWD 105	91,700	600	8	5.40	11.83	9.34	2.86	24.04	16.65	40.69
Tractor (90-119hp)RB	2WD 105	64,600	600	8	5.40	11.83	9.34	2.01	23.19	11.73	34.93
Tractor (90-119hp)RB	MFWD 105	71,900	600	8	5.40	11.83	9.34	2.24	23.42	13.05	36.48
Tractor (120-139hp)CB	2WD 130	113,000	600	8	6.69	11.83	11.57	3.53	26.93	20.52	47.45
Tractor (120-139hp)CB	MFWD 130	126,000	600	8	6.69	11.83	11.57	3.93	27.34	22.88	50.22
Tractor (140-159hp)CB	2WD 150	111,000	600	8	7.72	11.83	13.35	3.46	28.65	20.15	48.81
Tractor (140-159hp)CB	MFWD 150	143,000	600	8	7.72	11.83	13.35	4.46	29.65	25.97	55.62
Tractor (160-179hp)CB	2WD 170	160,000	600	8	8.75	11.83	15.13	5.00	31.96	30.47	62.44
Tractor (160-179hp)CB	MFWD 170	160,000	600	8	8.75	11.83	15.13	5.00	31.96	30.47	62.44
Tractor (160-199hp)CB	Track 180	142,710	600	8	9.26	11.83	16.02	4.45	32.31	27.18	59.50
Tractor (180-199hp)CB	2WD 190	143,000	600	8	9.77	11.83	16.91	4.46	33.21	27.24	60.45
Tractor (180-199hp)CB	MFWD 190	189,000	600	8	9.77	11.83	16.91	5.90	34.65	36.00	70.65
Tractor (200-249hp)CB	4WD 225	147,066	600	8	11.58	11.83	20.03	4.59	36.46	28.01	64.47
Tractor (200-249hp)CB	MFWD 225	233,000	600	8	11.58	11.83	20.03	7.28	39.14	44.38	83.53
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	11.83	20.03	8.65	40.52	52.76	93.28
Tractor (250-349hp)CB	4WD 300	298,000	600	8	15.44	11.83	26.71	9.31	47.85	56.76	104.62
Tractor (250-349hp)CB	Track 300	329,000	600	8	15.44	11.83	26.71	10.28	48.82	62.67	111.49
Tractor (350-449hp)CB	4WD 400	366,000	600	8	20.58	11.83	35.61	11.43	58.88	69.72	128.60
Tractor (350-449hp)CB	Track 400	453,000	600	8	20.58	11.83	35.61	14.15	61.60	86.29	147.89
Tractor (450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.83	42.29	8.74	62.87	53.31	116.18

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 2021.

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
ATV - 4 Wheeler	12'	0	100	8	1.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
ATV - 4 Wheeler	20'	8,750	100	8	1.00	0.200	2.70	0.50	0.43	3.63	2.23	5.87
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	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-BB	4R2X1260hp	317,399	200	8	13.33	0.172	3.88	5.60	8.54	18.03	36.25	54.29
Cotton Picker-1st-BB	4R30"250hp	262,000	200	8	12.86	0.327	7.38	10.27	13.40	31.07	56.86	87.93
Cotton Picker-1st-BB	4R30"325hp	350,000	200	8	18.01	0.327	7.38	14.38	17.90	39.67	75.96	115.64
Cotton Picker-1st-BB	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-BB	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-BB	5R30"255hp	285,000	200	8	12.86	0.261	5.91	8.21	11.66	25.79	49.48	75.27
Cotton Picker-1st-BB	5R38"250hp	284,601	200	8	12.86	0.207	4.67	6.50	9.21	20.39	39.09	59.49
Cotton Picker-1st-BB	6R30"325hp	465,000	200	8	18.27	0.218	4.92	9.72	15.85	30.51	67.28	97.79
Cotton Picker-1st-BB	6R38"330hp	465,000	200	8	18.27	0.172	3.88	7.68	12.51	24.08	53.11	77.20
Cotton Picker-1st-Tr	2R38"157hp	144,912	200	8	8.08	0.519	11.72	10.24	11.76	33.73	49.92	83.66
Cotton Picker-1st-Tr	4R2X1255hp	322,137	200	8	18.01	0.172	3.88	7.57	8.67	20.13	36.79	56.93
Cotton Picker-1st-Tr	4R30"250hp	261,825	200	8	12.86	0.327	7.38	10.27	13.39	31.06	56.82	87.88
Cotton Picker-1st-Tr	4R38"325hp	311,088	200	8	16.72	0.327	7.38	13.36	15.91	36.66	67.51	104.18
Cotton Picker-1st-Tr	4R38"255hp	268,000	200	8	13.12	0.257	5.81	8.25	10.79	24.86	45.80	70.66
Cotton Picker-1st-Tr	4R38"325hp	351,000	200	8	18.01	0.257	5.81	11.32	14.13	31.28	59.98	91.26
Cotton Picker-1st-Tr	5R30"255hp	285,303	200	8	13.12	0.261	5.91	8.38	11.67	25.97	49.53	75.51
Cotton Picker-1st-Tr	5R38"250hp	290,471	200	8	12.86	0.207	4.67	6.50	9.40	20.58	39.90	60.48
Cotton Picker-1st-Tr	6R30"325hp	465,000	200	8	16.72	0.218	4.92	8.90	15.85	29.69	67.28	96.97
Cotton Picker-1st-Tr	6R38"330hp	465,000	200	8	18.01	0.172	3.88	7.57	12.51	23.98	53.11	77.10
Cotton Picker-2nd-BB	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.67	9.96	28.57	42.28	70.86
Cotton Picker-2nd-BB	4R2x1260hp	322,187	200	8	18.01	0.145	3.29	6.41	7.34	17.05	31.17	48.23
Cotton Picker-2nd-BB	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.70	11.34	26.31	48.13	74.44
Cotton Picker-2nd-BB	4R30"325hp	311,088	200	8	16.72	0.277	6.25	11.31	13.47	31.05	57.19	88.25
Cotton Picker-2nd-BB	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.99	9.14	21.06	38.79	59.85
Cotton Picker-2nd-BB	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.59	11.97	26.49	50.81	77.30
Cotton Picker-2nd-BB	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.10	9.88	22.00	41.96	63.96
Cotton Picker-2nd-BB	5R38"250hp	284,601	200	8	12.86	0.175	3.96	5.51	7.80	17.27	33.11	50.39
Cotton Picker-2nd-BB	6R30"325hp	465,000	200	8	18.01	0.184	4.17	8.12	13.43	25.72	56.99	82.72
Cotton Picker-2nd-BB	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.41	10.60	20.31	44.99	65.30
Cotton Picker-2nd-Tr	2R38"157hp	144,912	200	8	8.08	0.440	9.93	8.67	9.96	28.57	42.28	70.86
Cotton Picker-2nd-Tr	4R2X1260hp	322,137	200	8	18.01	0.145	3.29	6.41	7.34	17.05	31.16	48.22
Cotton Picker-2nd-Tr	4R30"250hp	261,825	200	8	12.86	0.277	6.25	8.70	11.34	26.31	48.13	74.44
Cotton Picker-2nd-Tr	4R38"325hp	311,088	200	8	16.72	0.277	6.25	11.31	13.47	31.05	57.19	88.25
Cotton Picker-2nd-Tr	4R38"255hp	268,000	200	8	13.12	0.218	4.92	6.99	9.14	21.06	38.79	59.85
Cotton Picker-2nd-Tr	4R38"325hp	351,000	200	8	18.01	0.218	4.92	9.59	11.97	26.49	50.81	77.30
Cotton Picker-2nd-Tr	5R30"255hp	285,303	200	8	13.12	0.221	5.00	7.10	9.88	22.00	41.96	63.96
Cotton Picker-2nd-Tr	5R38"250hp	290,471	200	8	12.86	0.175	3.96	5.51	7.96	17.43	33.79	51.23
Cotton Picker-2nd-Tr	6R30"325hp	465,000	200	8	16.72	0.184	4.17	7.54	13.43	25.15	56.99	82.14
Cotton Picker-2nd-Tr	6R38"330hp	465,000	200	8	18.01	0.145	3.29	6.41	10.60	20.31	44.99	65.30
LA Pickup Truck	1/2 ton	28,000	800	5	2.50	1.000	11.33	6.25	3.15	20.73	7.74	28.47
LA Rice Combine	25 ft	181,500	300	10	8.60	0.300	5.05	6.30	14.53	25.89	23.61	49.50
LA Rice Combine-2	25 ft	181,500	300	10	8.60	0.300	5.05	6.30	14.53	25.89	23.61	49.50
LARice Combine Med	20 ft	165,000	300	10	7.10	0.210	3.53	3.63	9.24	16.41	15.01	31.43
Levee Sprayer	27'	30,768	350	8	2.57	0.038	0.69	0.24	0.06	0.99	0.44	1.44
SC Billet Harvester	6 ft	319,000	750	10	12.00	0.700	11.78	20.49	29.77	62.05	38.25	100.30
SC Harvester 1Rw	6 ft	126,500	400	12	6.80	0.875	14.72	14.51	23.05	52.30	31.84	84.14
SC Harvester 2Rw	12 ft	231,000	400	12	8.00	0.388	6.53	7.57	18.67	32.77	25.78	58.56
SC Loader 1Rw	6 ft	93,500	425	10	5.10	0.598	7.46	7.45	9.61	24.53	17.12	41.65
SC Loader 2Rw	12 ft	165,000	425	10	7.00	0.300	3.74	5.12	8.51	17.38	15.15	32.53
SC Transloader		33,000	120	12	4.70	0.250	3.11	2.86	4.12	10.10	7.91	18.01
SC Truck&Trailer	30 Ton	49,500	400	10	7.00	1.000	12.46	17.08	8.66	38.20	16.08	54.29
Sprayer(300-450Gal)	47'	0	350	8	5.40	0.022	0.40	0.29	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	0.65	0.68	1.34
Sprayer(300-450Gal)	80'	103,000	350	8	5.66	0.013	0.23	0.18	0.07	0.49	0.51	1.00
Sprayer(600-750Gal)	60'	216,000	350	8	10.29	0.017	0.31	0.44	0.20	0.96	1.44	2.40
Sprayer(600-825Gal)	80'	215,000	350	8	10.29	0.013	0.23	0.33	0.15	0.72	1.07	1.79
Sprayer(600-825Gal)	90'	316,000	350	8	10.29	0.011	0.21	0.29	0.19	0.70	1.40	2.11
Sprayer(1000-1400Gal)	90'	316,000	350	8	14.15	0.014	0.25	0.48	0.23	0.98	1.68	2.66
Sprayer(1200PlusGal)	120'	376,000	350	8	15.44	0.008	0.15	0.33	0.17	0.66	1.25	1.92

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2021.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Spray (Bcast/HB)	27' Rigid	MFWD 170	10,900	200	8	0.062	1.11	0.94	0.32	0.31	2.69	0.37	1.91	4.97
Spray (Bcast/HB)	30' Fold	MFWD 170	18,900	200	8	0.056	1.00	0.85	0.49	0.28	2.63	0.58	1.71	4.93
Spray (Bcast/HB)	40' Fold	MFWD 170	19,100	200	8	0.042	0.75	0.64	0.37	0.21	1.98	0.44	1.28	3.71
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.11	0.94	0.65	0.31	3.03	0.76	1.91	5.70
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.75	0.64	0.63	0.21	2.24	0.74	1.28	4.27
Spray (Broadcast)	27'	MFWD 170	7,400	200	8	0.062	1.11	0.94	0.21	0.31	2.59	0.25	1.91	4.75
Spray (Broadcast)	40'	MFWD 170	9,300	200	8	0.042	0.75	0.64	0.18	0.21	1.78	0.21	1.28	3.29
Spray (Broadcast)	50'	MFWD 170	10,100	200	8	0.033	0.60	0.51	0.16	0.16	1.44	0.18	1.03	2.66
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.56	0.48	0.14	0.15	1.35	0.17	0.97	2.50
Spray (Broadcast)	60'	MFWD 170	13,200	200	8	0.028	0.50	0.42	0.17	0.14	1.24	0.20	0.85	2.30
Spray (Direct/Hood)	8R-30	MFWD 170	17,000	200	8	0.084	1.50	1.28	0.67	0.42	3.87	0.78	2.57	7.24
Spray (Direct/Hood)	8R-38	MFWD 170	17,900	200	8	0.066	1.18	1.01	0.56	0.33	3.09	0.65	2.03	5.78
Spray (Direct/Hood)	12R-30	MFWD 170	23,900	200	8	0.056	1.00	0.85	0.63	0.28	2.76	0.73	1.71	5.22
Spray (Direct/Hood)	12R-38	MFWD 170	25,100	200	8	0.044	0.79	0.67	0.52	0.22	2.21	0.60	1.35	4.17
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.50	1.28	0.61	0.42	3.82	0.71	2.57	7.11
Spray (Direct/Layby)	8R-38	MFWD 170	15,500	200	8	0.066	1.18	1.01	0.48	0.33	3.01	0.56	2.03	5.62
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	19,400	200	8	0.044	0.79	0.67	0.40	0.22	2.09	0.47	1.35	3.91
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.20	1.02	0.38	0.33	2.95	0.44	2.06	5.46
Spray (Direct/Layby)	12R-30	MFWD 170	19,400	200	8	0.056	1.00	0.85	0.51	0.28	2.64	0.59	1.71	4.96
Spray (Direct/Layby)	12R-38	MFWD 170	19,400	200	8	0.044	0.79	0.67	0.40	0.22	2.09	0.47	1.35	3.91
Spray (Direct/Layby)	16R-20	MFWD 170	22,300	200	8	0.063	1.12	0.95	0.66	0.31	3.06	0.77	1.93	5.76
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.11	0.94	0.21	0.31	2.59	0.25	1.91	4.75
Spray (Spot)	40'	MFWD 170	9,300	200	8	0.042	0.75	0.64	0.18	0.21	1.78	0.21	1.28	3.29
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.60	0.51	0.21	0.16	1.49	0.25	1.03	2.78
Spray (Spot)	53'	MFWD 170	10,100	200	8	0.031	0.56	0.48	0.15	0.15	1.36	0.17	0.97	2.50
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.50	0.42	0.20	0.14	1.27	0.23	0.85	2.37
Stalk Shredder	14'	MFWD 150	14,900	200	10	0.117	1.39	1.57	1.53	0.52	5.03	0.89	3.06	8.98
Stalk Shredder	20'	MFWD 150	33,100	200	10	0.082	0.97	1.10	2.38	0.36	4.83	1.39	2.14	8.37
Stalk Shredder-Flail	12'	MFWD 150	21,700	200	10	0.137	1.62	1.83	2.61	0.61	6.68	1.52	3.57	11.78
Stalk Shredder-Flail	20'	MFWD 150	30,400	200	10	0.082	0.97	1.10	2.19	0.36	4.64	1.27	2.14	8.06
Subsoiler	3 shank	MFWD 190	6,360	100	15	0.204	2.41	3.45	0.43	1.20	7.51	1.02	7.35	15.89
Subsoiler	4 shank	MFWD 225	11,210	100	15	0.153	1.81	3.07	0.57	1.11	6.58	1.35	6.81	14.76
Subsoiler	5 shank	MFWD 225	14,300	100	15	0.122	1.44	2.45	0.58	0.89	5.37	1.37	5.43	12.18
Subsoiler low-till	4 shank	MFWD 225	9,830	100	15	0.153	1.81	3.07	0.50	1.11	6.51	1.18	6.81	14.52
Subsoiler low-till	6 shank	MFWD 225	19,400	100	15	0.102	1.20	2.04	0.66	0.74	4.66	1.55	4.53	10.75
Subsoiler low-till	8 shank	MFWD 225	21,400	100	15	0.076	0.90	1.53	0.54	0.55	3.54	1.28	3.39	8.22
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.90	3.22	0.83	1.17	7.12	1.38	7.14	15.65
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.27	2.15	0.75	0.78	4.96	1.25	4.77	10.99
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.41	4.09	1.05	1.48	9.05	1.75	9.06	19.88
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.61	2.72	0.75	0.99	6.08	1.25	6.04	13.38