

Projected Costs and Returns Crop Enterprise Budgets for Soybean Production in Louisiana, 2020

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 2020 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 2020 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 2020 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 \$11.33 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 5.25% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was \$2.44 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 6.25%. 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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
SERVICE FEE					
Lime (Spread)	ton	38.00	0.3300	12.54	_____
CUSTOM HARVEST/HAUL					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
OPERATOR LABOR					
Harvesters	hour	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	11.33	0.1345	1.52	_____
Tractors	hour	11.33	0.4272	4.84	_____
DIESEL FUEL					
Tractors	gal	2.44	4.0612	9.91	_____
Harvesters	gal	2.44	1.2047	2.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.23	1.0000	5.23	_____
Tractors	Acre	2.39	1.0000	2.39	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	7.26	1.0000	7.26	_____

TOTAL DIRECT EXPENSES				350.11	_____
FIXED EXPENSES					
Implements	Acre	10.15	1.0000	10.15	_____
Tractors	Acre	16.19	1.0000	16.19	_____
Harvesters	Acre	13.25	1.0000	13.25	_____

TOTAL FIXED EXPENSES				39.59	_____

TOTAL SPECIFIED EXPENSES				389.70	_____

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.31	3.12	0.98	1.21	0.11	1.32				8.94
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.50	1.45	0.07	0.84				7.98
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.95	2.46	1.47	3.07	0.14	1.68				10.63
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.10	1.39	0.17	0.22	0.06	0.72				3.60
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Quadris	oz											6.0000	1.25	7.50	7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	60.00	37.50	37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.75	1.75	1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15				22.84
Digital Ag Fee	acre				Oct								8.50		
Haul Soybeans	bu			1.00	Oct							45.0000	0.27	12.15	12.15
TOTALS						18.36	29.44	5.23	10.15	0.64	7.51			311.75	382.44
INTEREST ON OPERATING CAPITAL															7.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															389.70

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.27	5.63	6.04	6.52	7.09	7.78	8.61	9.65	10.99	12.78	15.28
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-225	-217	-207	-197	-184	-168	-150	-126	-96	-56	0
			-264	-256	-247	-236	-223	-208	-189	-166	-136	-95	-39
60	27.00	bu	-202	-193	-181	-168	-153	-135	-112	-84	-48	0	67
			-242	-232	-221	-208	-193	-174	-152	-124	-87	-39	27
70	31.50	bu	-180	-168	-155	-140	-122	-101	-75	-42	0	56	135
			-219	-208	-195	-180	-162	-140	-114	-81	-39	16	95
80	36.00	bu	-157	-144	-129	-112	-92	-67	-37	0	48	112	202
			-197	-184	-169	-152	-131	-107	-77	-39	8	73	163
90	40.50	bu	-135	-120	-103	-84	-61	-33	0	42	96	168	270
			-174	-160	-143	-124	-101	-73	-39	2	56	129	230
100	45.00	bu	-112	-96	-77	-56	-30	0	37	84	144	225	337
			-152	-136	-117	-95	-70	-39	-2	44	105	185	298
110	49.50	bu	-90	-72	-51	-28	0	33	75	126	193	281	405
			-129	-111	-91	-67	-39	-5	35	87	153	241	365
120	54.00	bu	-67	-48	-25	0	30	67	112	168	241	337	472
			-107	-87	-65	-39	-8	27	73	129	201	298	433
130	58.50	bu	-45	-24	0	28	61	101	150	211	289	394	540
			-84	-63	-39	-11	21	61	110	171	249	354	500
140	63.00	bu	-22	0	25	56	92	135	187	253	337	450	608
			-62	-39	-13	16	52	95	148	213	298	410	568
150	67.50	bu	0	24	51	84	122	168	225	295	386	506	675
			-39	-15	12	44	83	129	185	256	346	467	636

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.86	6.26	6.72	7.26	7.89	8.66	9.59	10.75	12.25	14.25	17.04
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-212	-203	-192	-180	-166	-149	-128	-101	-68	-23	39
			-251	-242	-232	-220	-205	-188	-167	-141	-107	-62	0
60	27.00	bu	-186	-176	-163	-149	-131	-111	-86	-54	-14	39	115
			-226	-215	-203	-188	-171	-150	-125	-94	-53	0	75
70	31.50	bu	-161	-149	-134	-117	-97	-73	-44	-7	39	102	190
			-201	-188	-174	-157	-137	-113	-83	-47	0	62	150
80	36.00	bu	-136	-122	-105	-86	-63	-35	-2	39	93	165	266
			-176	-161	-145	-125	-102	-75	-41	0	53	125	226
90	40.50	bu	-111	-95	-76	-54	-29	1	39	86	147	228	341
			-150	-134	-116	-94	-68	-37	0	47	107	188	301
100	45.00	bu	-86	-68	-47	-23	5	39	81	133	201	291	417
			-125	-107	-87	-62	-34	0	41	94	161	251	377
110	49.50	bu	-61	-41	-18	8	39	77	123	181	255	354	492
			-100	-80	-58	-31	0	37	83	141	215	314	452
120	54.00	bu	-35	-14	10	39	73	115	165	228	309	417	568
			-75	-53	-29	0	34	75	125	188	269	377	528
130	58.50	bu	-10	12	39	71	108	152	207	275	363	479	643
			-50	-26	0	31	68	113	167	235	323	440	603
140	63.00	bu	14	39	68	102	142	190	249	322	417	542	718
			-25	0	29	62	102	150	209	283	377	503	679
150	67.50	bu	39	66	97	133	176	228	291	369	470	605	794
			0	26	58	94	137	188	251	330	431	566	754

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.33	0.1345	1.52	_____
Tractors	hour	11.33	0.7203	8.17	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	6.8886	16.80	_____
Harvesters	gal	2.44	1.2047	2.94	_____
Roll-Out Pipe Irr.	gal	2.44	4.8877	11.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.52	1.0000	5.52	_____
Tractors	Acre	4.08	1.0000	4.08	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	8.03	1.0000	8.03	_____
TOTAL DIRECT EXPENSES				399.96	_____
FIXED EXPENSES					
Implements	Acre	11.05	1.0000	11.05	_____
Tractors	Acre	27.74	1.0000	27.74	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_____
TOTAL FIXED EXPENSES				107.93	_____
TOTAL SPECIFIED EXPENSES				507.89	_____

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.31	3.12	0.98	1.21	0.11	1.32				8.94
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.39	1.12	0.07	0.84				7.54
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.95	2.46	1.47	3.07	0.14	1.68				10.63
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.10	1.39	0.17	0.22	0.06	0.72				3.60
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Quadris	oz											6.0000	1.25	7.50	7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	60.00	37.50	37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.75	1.75	1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15				22.84
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	8.58	11.55	17.58	57.12	0.44	5.08	1.0000		8.25	108.16
TOTALS						26.94	40.99	22.70	66.94	1.09	12.59			329.70	499.86
INTEREST ON OPERATING CAPITAL															8.03
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															507.89

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			4.93	5.27	5.65	6.10	6.63	7.27	8.04	9.02	10.27	11.93	14.27
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-256	-247	-236	-224	-209	-192	-171	-144	-109	-64	0
			-364	-355	-344	-332	-317	-300	-279	-252	-217	-172	-107
60	33.00	bu	-230	-219	-207	-192	-174	-153	-128	-96	-54	0	76
			-338	-327	-315	-300	-282	-261	-236	-204	-162	-107	-30
70	38.50	bu	-205	-192	-177	-160	-139	-115	-85	-48	0	64	153
			-313	-300	-285	-268	-247	-223	-193	-156	-107	-43	46
80	44.00	bu	-179	-164	-148	-128	-104	-76	-42	0	54	128	230
			-287	-272	-255	-236	-212	-184	-150	-107	-52	20	123
90	49.50	bu	-153	-137	-118	-96	-69	-38	0	48	109	192	307
			-261	-245	-226	-204	-177	-146	-107	-59	2	84	200
100	55.00	bu	-128	-109	-88	-64	-34	0	42	96	164	256	384
			-236	-217	-196	-172	-142	-107	-65	-11	57	148	277
110	60.50	bu	-102	-82	-59	-32	0	38	85	144	219	320	461
			-210	-190	-167	-140	-107	-69	-22	36	112	212	354
120	66.00	bu	-76	-54	-29	0	34	76	128	192	274	384	538
			-184	-162	-137	-107	-72	-30	20	84	167	277	431
130	71.50	bu	-51	-27	0	32	69	115	171	240	329	449	615
			-159	-135	-107	-75	-37	7	63	132	222	341	508
140	77.00	bu	-25	0	29	64	104	153	213	288	384	513	692
			-133	-107	-78	-43	-2	46	105	180	277	405	585
150	82.50	bu	0	27	59	96	139	192	256	336	439	577	769
			-107	-80	-48	-11	32	84	148	228	332	469	662

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			6.24	6.67	7.16	7.74	8.41	9.23	10.23	11.47	13.07	15.20	18.19
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-220	-208	-195	-179	-160	-138	-111	-76	-32	25	107
			-328	-316	-303	-287	-268	-246	-219	-184	-140	-82	0
60	33.00	bu	-187	-173	-157	-138	-116	-89	-56	-15	37	107	206
			-295	-281	-265	-246	-224	-197	-164	-123	-70	0	98
70	38.50	bu	-154	-138	-119	-97	-71	-39	-1	46	107	190	305
			-262	-246	-227	-205	-179	-147	-109	-61	0	82	197
80	44.00	bu	-122	-103	-81	-56	-26	9	53	107	178	272	403
			-230	-211	-189	-164	-134	-98	-54	0	70	164	295
90	49.50	bu	-89	-68	-43	-15	18	58	107	169	248	354	502
			-197	-176	-151	-123	-89	-49	0	61	140	246	394
100	55.00	bu	-56	-32	-5	25	63	107	162	231	319	436	600
			-164	-140	-113	-82	-44	0	54	123	211	328	492
110	60.50	bu	-23	2	32	66	107	157	217	292	389	518	699
			-131	-105	-75	-41	0	49	109	184	281	410	591
120	66.00	bu	9	37	70	107	152	206	272	354	460	600	798
			-98	-70	-37	0	44	98	164	246	352	492	690
130	71.50	bu	42	72	107	149	197	255	327	415	530	682	896
			-65	-35	0	41	89	147	219	308	422	575	788
140	77.00	bu	75	107	145	190	242	305	381	477	600	765	995
			-32	0	37	82	134	197	273	369	492	657	887
150	82.50	bu	107	143	183	231	287	354	436	539	671	847	1093
			0	35	75	123	179	246	328	431	563	739	985

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.33	0.1345	1.52	_____
Tractors	hour	11.33	0.7203	8.17	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	6.8886	16.80	_____
Harvesters	gal	2.44	1.2047	2.94	_____
Roll-Out Pipe Irr.	gal	2.44	4.8877	11.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.90	1.0000	5.90	_____
Tractors	Acre	4.08	1.0000	4.08	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	7.92	1.0000	7.92	_____
TOTAL DIRECT EXPENSES				386.34	_____
FIXED EXPENSES					
Implements	Acre	11.73	1.0000	11.73	_____
Tractors	Acre	27.74	1.0000	27.74	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_____
TOTAL FIXED EXPENSES				108.61	_____
TOTAL SPECIFIED EXPENSES				494.95	_____

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, 2020.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Oct	2.31	3.12	0.98	1.21	0.11	1.32					8.94
LA Phosphate	lb											50.0000	0.38	19.00		19.00
LA Potash	lb											50.0000	0.27	13.50		13.50
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.48	3.39	1.05	2.41	0.07	0.79					10.12
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55					4.18
Disk Bed (Hipper)Fld	8R-38	MFWD 190	0.074	1.00	Oct	2.21	2.98	0.50	1.45	0.07	0.84					7.98
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23					1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	4.38	8.76		8.76
Plant - Folding	8R-38	MFWD 170	0.074	1.00	May	1.95	2.46	1.47	3.07	0.14	1.68					10.63
Soybean Seed RR	lb											50.0000	1.30	65.00		65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23					1.20
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.10	1.39	0.44	0.57	0.06	0.72					4.22
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Dual II Magnum	pt											1.0000	14.50	14.50		14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Flexstar HL	pt											1.0000	4.50	4.50		4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Quadris	oz											6.0000	1.25	7.50		7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	60.00	37.50		37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00		5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16		4.16
Surfactant	pt											1.0000	1.75	1.75		1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15					22.84
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	8.58	11.55	17.58	57.12	0.44	5.08	1.0000		8.25		108.16
TOTALS						26.94	40.99	23.08	67.62	1.09	12.59			315.81		487.03
INTEREST ON OPERATING CAPITAL																7.92
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																494.95

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, 2020.

Soybeans			-----BREAKEVEN PRICE-----										
			5.24	5.59	6.00	6.48	7.04	7.72	8.55	9.59	10.92	12.69	15.18
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-248	-239	-229	-217	-203	-186	-165	-139	-106	-62	0
			-357	-348	-337	-326	-311	-294	-274	-248	-215	-170	-108
60	30.00	bu	-223	-212	-200	-186	-169	-149	-124	-93	-53	0	74
			-332	-321	-309	-294	-278	-257	-232	-201	-161	-108	-34
70	35.00	bu	-198	-186	-172	-155	-135	-111	-82	-46	0	62	149
			-307	-294	-280	-263	-244	-220	-191	-155	-108	-46	40
80	40.00	bu	-173	-159	-143	-124	-101	-74	-41	0	53	124	223
			-282	-268	-251	-232	-210	-183	-150	-108	-55	15	115
90	45.00	bu	-149	-133	-114	-93	-67	-37	0	46	106	186	298
			-257	-241	-223	-201	-176	-145	-108	-62	-2	77	189
100	50.00	bu	-124	-106	-86	-62	-33	0	41	93	159	248	372
			-232	-215	-194	-170	-142	-108	-67	-15	51	139	264
110	55.00	bu	-99	-79	-57	-31	0	37	82	139	212	310	447
			-208	-188	-165	-139	-108	-71	-25	31	104	201	338
120	60.00	bu	-74	-53	-28	0	33	74	124	186	266	372	521
			-183	-161	-137	-108	-74	-34	15	77	157	264	413
130	65.00	bu	-49	-26	0	31	67	111	165	232	319	434	596
			-158	-135	-108	-77	-40	3	57	124	210	326	487
140	70.00	bu	-24	0	28	62	101	149	207	279	372	496	670
			-133	-108	-79	-46	-6	40	98	170	264	388	562
150	75.00	bu	0	26	57	93	135	186	248	326	425	559	745
			-108	-81	-51	-15	26	77	139	217	317	450	636

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, 2020.

Soybeans			-----BREAKEVEN PRICE-----										
			6.69	7.14	7.67	8.29	9.02	9.89	10.96	12.30	14.02	16.31	19.52
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-212	-200	-187	-172	-153	-132	-105	-71	-28	28	108
			-320	-309	-296	-280	-262	-240	-213	-180	-137	-80	0
60	30.00	bu	-180	-166	-150	-132	-110	-83	-51	-11	39	108	204
			-288	-275	-259	-240	-218	-192	-160	-120	-68	0	96
70	35.00	bu	-148	-132	-113	-91	-66	-35	1	48	108	188	301
			-256	-240	-222	-200	-175	-144	-106	-60	0	80	192
80	40.00	bu	-116	-97	-76	-51	-22	12	55	108	177	269	397
			-224	-206	-185	-160	-131	-96	-53	0	68	160	288
90	45.00	bu	-83	-63	-39	-11	21	60	108	168	246	349	493
			-192	-171	-148	-120	-87	-48	0	60	137	240	385
100	50.00	bu	-51	-28	-2	28	64	108	162	228	314	429	589
			-160	-137	-111	-80	-43	0	53	120	206	320	481
110	55.00	bu	-19	5	34	68	108	156	215	289	383	509	686
			-128	-103	-74	-40	0	48	106	180	275	401	577
120	60.00	bu	12	39	71	108	152	204	269	349	452	589	782
			-96	-68	-37	0	43	96	160	240	343	481	673
130	65.00	bu	44	74	108	148	196	253	322	409	521	670	878
			-64	-34	0	40	87	144	213	300	412	561	770
140	70.00	bu	76	108	145	188	239	301	376	469	589	750	975
			-32	0	37	80	131	192	267	360	481	641	866
150	75.00	bu	108	142	182	228	283	349	429	529	658	830	1071
			0	34	74	120	175	240	320	421	550	721	962

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	11.33	0.1586	1.80	_____
Tractors	hour	11.33	0.3542	4.02	_____
DIESEL FUEL					
Tractors	gal	2.44	3.4392	8.39	_____
Harvesters	gal	2.44	1.2047	2.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.37	1.0000	5.37	_____
Tractors	Acre	2.05	1.0000	2.05	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	7.36	1.0000	7.36	_____
TOTAL DIRECT EXPENSES				356.45	_____
FIXED EXPENSES					
Implements	Acre	10.65	1.0000	10.65	_____
Tractors	Acre	13.86	1.0000	13.86	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
TOTAL FIXED EXPENSES				37.76	_____
TOTAL SPECIFIED EXPENSES				394.21	_____

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, 2020.

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	2.78	3.79	1.21	1.48	0.11	1.34				10.60
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.39	1.88	0.50	2.30	0.04	0.53				6.60
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.38	8.76	8.76
NT Plant-Rigid	12R-20	MFWD 190	0.098	1.00	May	2.92	3.95	2.16	4.51	0.19	2.22				15.76
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.10	1.39	0.44	0.57	0.06	0.72				4.22
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Quadris	oz											6.0000	1.25	7.50	7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	60.00	37.50	37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.75	1.75	1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15				22.84
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						16.50	27.11	5.37	10.65	0.59	6.97			320.25	386.85
INTEREST ON OPERATING CAPITAL															7.36
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															394.21

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.37	5.73	6.15	6.64	7.22	7.92	8.77	9.83	11.19	13.02	15.56
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-229	-221	-211	-200	-187	-172	-152	-129	-98	-57	0
			-267	-259	-249	-238	-225	-209	-190	-166	-136	-95	-37
60	27.00	bu	-206	-196	-185	-172	-156	-137	-114	-86	-49	0	68
			-244	-234	-223	-209	-194	-175	-152	-123	-86	-37	31
70	31.50	bu	-183	-172	-158	-143	-125	-103	-76	-43	0	57	137
			-221	-209	-196	-181	-162	-141	-114	-80	-37	19	99
80	36.00	bu	-160	-147	-132	-114	-93	-68	-38	0	49	114	206
			-198	-185	-170	-152	-131	-106	-76	-37	11	76	168
90	40.50	bu	-137	-122	-105	-86	-62	-34	0	43	98	172	275
			-175	-160	-143	-123	-100	-72	-37	5	60	134	237
100	45.00	bu	-114	-98	-79	-57	-31	0	38	86	147	229	344
			-152	-136	-117	-95	-69	-37	0	48	109	191	306
110	49.50	bu	-91	-73	-52	-28	0	34	76	129	196	286	413
			-129	-111	-90	-66	-37	-3	38	91	158	249	375
120	54.00	bu	-68	-49	-26	0	31	68	114	172	245	344	481
			-106	-86	-64	-37	-6	31	76	134	208	306	444
130	58.50	bu	-45	-24	0	28	62	103	152	215	295	401	550
			-83	-62	-37	-9	24	65	115	177	257	363	512
140	63.00	bu	-22	0	26	57	93	137	191	258	344	458	619
			-60	-37	-11	19	56	99	153	220	306	421	581
150	67.50	bu	0	24	52	86	125	172	229	301	393	516	688
			-37	-13	15	48	87	134	191	263	355	478	650

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.93	6.33	6.80	7.34	7.98	8.76	9.70	10.88	12.39	14.41	17.24
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-216	-207	-197	-185	-170	-153	-131	-105	-71	-25	37
			-254	-245	-235	-222	-208	-190	-169	-143	-109	-63	0
60	27.00	bu	-191	-180	-167	-153	-135	-115	-89	-57	-16	37	114
			-229	-218	-205	-190	-173	-152	-127	-95	-54	0	76
70	31.50	bu	-165	-153	-138	-121	-101	-76	-47	-9	37	101	190
			-203	-190	-176	-159	-138	-114	-84	-47	0	63	152
80	36.00	bu	-140	-125	-109	-89	-66	-38	-4	37	92	165	266
			-178	-163	-146	-127	-104	-76	-42	0	54	127	229
90	40.50	bu	-115	-98	-79	-57	-31	-0	37	85	146	228	343
			-152	-136	-117	-95	-69	-38	0	47	109	190	305
100	45.00	bu	-89	-71	-50	-25	3	37	80	133	201	292	419
			-127	-109	-88	-63	-34	0	42	95	163	254	381
110	49.50	bu	-64	-44	-21	5	37	75	122	180	256	356	496
			-101	-81	-58	-31	0	38	84	143	218	318	458
120	54.00	bu	-38	-16	8	37	72	114	165	228	310	419	572
			-76	-54	-29	0	34	76	127	190	272	381	534
130	58.50	bu	-13	10	37	69	107	152	207	276	365	483	648
			-50	-27	0	31	69	114	169	238	327	445	611
140	63.00	bu	12	37	67	101	141	190	249	324	419	547	725
			-25	0	29	63	104	152	212	286	381	509	687
150	67.50	bu	37	65	96	133	176	228	292	371	474	610	801
			0	27	58	95	138	190	254	334	436	572	763

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.33	0.1586	1.80	_____
Tractors	hour	11.33	0.6473	7.35	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	6.2667	15.28	_____
Harvesters	gal	2.44	1.2047	2.94	_____
Roll-Out Pipe Irr.	gal	2.44	4.8877	11.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	6.14	1.0000	6.14	_____
Tractors	Acre	3.74	1.0000	3.74	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	8.09	1.0000	8.09	_____
TOTAL DIRECT EXPENSES				399.74	_____
FIXED EXPENSES					
Implements	Acre	12.86	1.0000	12.86	_____
Tractors	Acre	25.41	1.0000	25.41	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_____
TOTAL FIXED EXPENSES				107.41	_____
TOTAL SPECIFIED EXPENSES				507.15	_____

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, 2020.

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	2.78	3.79	1.21	1.48	0.11	1.34				10.60
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.39	1.88	0.50	2.30	0.04	0.53				6.60
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.38	8.76	8.76
NT Plant-Folding	12R-20	MFWD 190	0.098	1.00	May	2.92	3.95	2.80	5.84	0.19	2.22				17.73
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.10	1.39	0.17	0.22	0.06	0.72				3.60
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Quadris	oz											6.0000	1.25	7.50	7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	60.00	37.50	37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.75	1.75	1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15				22.84
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	8.58	11.55	17.58	57.12	0.44	5.08	1.0000		8.25	108.16
TOTALS						25.08	38.66	23.32	68.75	1.04	12.05			331.20	499.06
INTEREST ON OPERATING CAPITAL															8.09
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															507.15

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, 2020.

Soybeans			-----BREAKEVEN PRICE-----										
			4.93	5.26	5.65	6.10	6.63	7.26	8.04	9.01	10.26	11.93	14.26
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-256	-247	-236	-224	-209	-192	-171	-144	-109	-64	0
			-363	-354	-344	-331	-317	-299	-278	-251	-217	-171	-107
60	33.00	bu	-230	-219	-207	-192	-174	-153	-128	-96	-54	0	76
			-338	-327	-314	-299	-282	-261	-235	-203	-162	-107	-30
70	38.50	bu	-205	-192	-177	-160	-139	-115	-85	-48	0	64	153
			-312	-299	-284	-267	-247	-222	-192	-155	-107	-43	46
80	44.00	bu	-179	-164	-147	-128	-104	-76	-42	0	54	128	230
			-286	-272	-255	-235	-212	-184	-150	-107	-52	20	123
90	49.50	bu	-153	-137	-118	-96	-69	-38	0	48	109	192	307
			-261	-244	-225	-203	-177	-145	-107	-59	2	84	200
100	55.00	bu	-128	-109	-88	-64	-34	0	42	96	164	256	384
			-235	-217	-196	-171	-142	-107	-64	-11	57	149	277
110	60.50	bu	-102	-82	-59	-32	0	38	85	144	219	320	461
			-210	-189	-166	-139	-107	-68	-21	36	112	213	354
120	66.00	bu	-76	-54	-29	0	34	76	128	192	274	384	538
			-184	-162	-137	-107	-72	-30	20	84	167	277	431
130	71.50	bu	-51	-27	0	32	69	115	171	240	329	448	615
			-158	-134	-107	-75	-37	8	63	133	222	341	508
140	77.00	bu	-25	0	29	64	104	153	213	288	384	513	692
			-133	-107	-77	-43	-2	46	106	181	277	405	585
150	82.50	bu	0	27	59	96	139	192	256	336	439	577	769
			-107	-79	-48	-11	32	84	149	229	332	469	662

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, 2020.

Soybeans			-----BREAKEVEN PRICE-----										
			6.23	6.66	7.15	7.72	8.40	9.22	10.21	11.45	13.05	15.18	18.16
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-220	-208	-195	-179	-161	-138	-111	-77	-33	25	107
			-328	-316	-302	-287	-268	-246	-218	-184	-140	-82	0
60	33.00	bu	-187	-173	-157	-138	-116	-89	-56	-15	37	107	205
			-295	-281	-265	-246	-223	-196	-164	-123	-70	0	98
70	38.50	bu	-155	-138	-119	-97	-71	-40	-1	45	107	189	304
			-262	-246	-227	-205	-178	-147	-109	-61	0	82	196
80	44.00	bu	-122	-103	-81	-56	-26	8	52	107	177	271	402
			-229	-210	-189	-164	-134	-98	-54	0	70	164	295
90	49.50	bu	-89	-68	-44	-15	17	58	107	168	248	353	501
			-196	-175	-151	-123	-89	-49	0	61	140	246	393
100	55.00	bu	-56	-33	-6	25	62	107	162	230	318	435	599
			-164	-140	-113	-82	-44	0	54	123	210	328	492
110	60.50	bu	-23	1	31	66	107	156	216	291	388	517	698
			-131	-105	-75	-41	0	49	109	184	281	410	590
120	66.00	bu	8	37	69	107	152	205	271	353	458	599	796
			-98	-70	-37	0	44	98	164	246	351	492	689
130	71.50	bu	41	72	107	148	196	255	326	415	529	681	894
			-65	-35	0	41	89	147	218	307	421	574	787
140	77.00	bu	74	107	145	189	241	304	380	476	599	763	993
			-32	0	37	82	134	196	273	369	492	656	885
150	82.50	bu	107	142	183	230	286	353	435	538	669	845	1091
			0	35	75	123	178	246	328	430	562	738	984

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

Table 6.A Estimated costs and returns per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
LA Rice GPS Charge-SW	acre	0.35	3.0000	1.05	_____
App by Air (3 gal)	appl	5.00	4.0000	20.00	_____
HARVEST AIDS					
Gramoxone Max	pt	3.00	1.0000	3.00	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup Ultra MAX	pt	5.97	3.5000	20.90	_____
Classic	oz	14.02	0.2500	3.51	_____
INSECTICIDES					
Dimilin 2L	oz	2.13	2.0000	4.26	_____
Besiege	oz	1.95	10.0000	19.50	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Methyl Parathion	pt	5.79	1.0000	5.79	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	75.0000	97.50	_____
SERVICE FEE					
Surfactant	pt	1.75	0.5000	0.88	_____
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	11.33	0.3772	4.29	_____
LA Other Labor					
Special Labor	hour	11.33	0.1250	1.42	_____
DIESEL FUEL					
Tractors	gal	2.44	3.3869	8.28	_____
Self-Propelled	gal	2.44	1.4915	3.64	_____
REPAIR & MAINTENANCE					
Implements	acre	4.07	1.0000	4.07	_____
Tractors	acre	2.02	1.0000	2.02	_____
Self-Propelled	acre	9.24	1.0000	9.24	_____
INTEREST ON OP. CAP.	acre	7.31	1.0000	7.31	_____

TOTAL DIRECT EXPENSES				361.62	_____
FIXED EXPENSES					
Implements	acre	10.11	1.0000	10.11	_____
Tractors	acre	13.31	1.0000	13.31	_____
Self-Propelled	acre	15.02	1.0000	15.02	_____

TOTAL FIXED EXPENSES				38.44	_____

TOTAL SPECIFIED EXPENSES				400.06	_____

Table 6.B Estimated resource use and costs for field operations, per acre,
Soybeans, RR, drill planted, conventional tillage, in rotation,
Southwest Louisiana, 2020.

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	2.94	4.27	1.01	2.33	0.06	0.70				11.25
LARice Land Level	13 ft	MFWD 150	0.190	0.20	Nov	0.89	1.09	0.03	0.14	0.03	0.43				2.58
Ditcher		MFWD 150	0.020	1.00	Nov	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Disk Harrow	32'	MFWD 150	0.061	1.00	Mar	1.43	1.76	1.01	2.33	0.06	0.70				7.23
Custom Spread(Truc	appl			1.00	Mar							1.0000	4.50	4.50	4.50
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Field Cultivate	24'	MFWD 150	0.062	1.00	Mar	1.44	1.78	0.48	2.19	0.06	0.70				6.59
Ditcher		MFWD 150	0.020	1.00	Apr	0.47	0.57	0.05	0.07	0.02	0.23				1.39
Grain Drill	20'	MFWD 150	0.094	1.00	May	2.19	2.70	1.39	2.91	0.18	1.92				11.11
LA Other Labor	hour														1.42
Soybean Seed RR	lb											75.0000	1.30	97.50	97.50
Ditcher		MFWD 150	0.020	1.00	May	0.47	0.57	0.05	0.07	0.02	0.23				1.39
App by Air (5 gal)	appl			1.00	May							1.0000	6.50	6.50	6.50
Roundup Ultra MAX	pt											2.0000	5.97	11.94	11.94
Classic	oz											0.2500	14.02	3.51	3.51
Surfactant	pt											0.2000	1.75	0.35	0.35
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup Ultra MAX	pt											1.5000	5.97	8.96	8.96
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Dimilin 2L	oz											2.0000	2.13	4.26	4.26
Quadris	oz											6.0000	1.25	7.50	7.50
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (5 gal)	appl			1.00	Aug							1.0000	6.50	6.50	6.50
Methyl Parathion	pt											1.0000	5.79	5.79	5.79
LARice GPS Charge-SW acre												1.0000	0.35	0.35	0.35
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Stratego	pt											0.6250	60.00	37.50	37.50
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep								6.50		
Gramoxone Max	pt											1.0000	3.00	3.00	3.00
Surfactant	pt											0.3000	1.75	0.53	0.53
LARice Combine Med	20 ft		0.210	1.00	Oct	12.88	15.02			0.23	3.54				31.44
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						23.18	28.33	4.07	10.11	0.82	10.10			316.96	392.75
INTEREST ON OPERATING CAPITAL															7.31
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															400.06

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, 2020.

			-----BREAKEVEN PRICE-----										
LA Soybeans			6.97	7.45	8.01	8.65	9.41	10.33	11.44	12.84	14.64	17.03	20.39
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-234	-226	-216	-205	-192	-176	-156	-132	-100	-58	0
			-273	-264	-255	-243	-230	-214	-194	-170	-139	-97	-38
60	21.00	bu	-211	-201	-189	-176	-160	-140	-117	-88	-50	0	70
			-249	-239	-228	-214	-198	-179	-155	-126	-88	-38	31
70	24.50	bu	-187	-176	-162	-146	-128	-105	-78	-44	0	58	140
			-226	-214	-200	-185	-166	-144	-116	-82	-38	20	102
80	28.00	bu	-164	-150	-135	-117	-96	-70	-39	0	50	117	211
			-202	-189	-173	-155	-134	-108	-77	-38	11	78	172
90	31.50	bu	-140	-125	-108	-88	-64	-35	0	44	100	176	281
			-179	-164	-146	-126	-102	-73	-38	5	62	137	243
100	35.00	bu	-117	-100	-81	-58	-32	0	39	88	150	234	352
			-155	-139	-119	-97	-70	-38	0	49	112	196	313
110	38.50	bu	-93	-75	-54	-29	0	35	78	132	201	293	422
			-132	-113	-92	-67	-38	-3	39	93	162	255	384
120	42.00	bu	-70	-50	-27	0	32	70	117	176	251	352	492
			-108	-88	-65	-38	-6	31	78	137	213	313	454
130	45.50	bu	-46	-25	0	29	64	105	156	220	301	410	563
			-85	-63	-38	-9	25	67	118	181	263	372	524
140	49.00	bu	-23	0	27	58	96	140	195	264	352	469	633
			-61	-38	-11	20	57	102	157	225	313	431	595
150	52.50	bu	0	25	54	88	128	176	234	308	402	528	704
			-38	-13	15	49	89	137	196	269	363	489	665

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, 2020.

			-----BREAKEVEN PRICE-----										
LA Soybeans			7.71	8.24	8.85	9.57	10.41	11.43	12.67	14.22	16.21	18.86	22.58
PERCENT	YIELD	UNIT	-----dollars-----										
50	17.50	bu	-221	-212	-201	-189	-174	-156	-135	-108	-73	-26	38
			-260	-251	-240	-227	-213	-195	-173	-146	-111	-65	0
60	21.00	bu	-195	-184	-171	-156	-139	-117	-91	-59	-17	38	116
			-234	-223	-210	-195	-177	-156	-130	-97	-55	0	78
70	24.50	bu	-169	-156	-141	-124	-103	-78	-48	-10	38	103	194
			-208	-195	-180	-162	-142	-117	-86	-48	0	65	156
80	28.00	bu	-143	-128	-111	-91	-68	-39	-4	38	94	168	272
			-182	-167	-150	-130	-106	-78	-43	0	55	130	234
90	31.50	bu	-117	-101	-81	-59	-32	-0	38	87	150	233	350
			-156	-139	-120	-97	-71	-39	0	48	111	195	312
100	35.00	bu	-91	-73	-51	-26	2	38	81	136	205	298	429
			-130	-111	-90	-65	-35	0	43	97	167	260	390
110	38.50	bu	-65	-45	-21	5	38	77	125	184	261	363	507
			-104	-83	-60	-32	0	39	86	146	223	325	468
120	42.00	bu	-39	-17	8	38	73	116	168	233	317	429	585
			-78	-55	-30	0	35	78	130	195	278	390	546
130	45.50	bu	-13	10	38	70	109	155	212	282	373	494	663
			-52	-27	0	32	71	117	173	244	334	455	624
140	49.00	bu	12	38	68	103	144	194	255	331	429	559	741
			-26	0	30	65	106	156	216	292	390	520	703
150	52.50	bu	38	66	98	136	180	233	298	380	484	624	819
			0	27	60	97	142	195	260	341	446	585	781

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	11.33	0.0966	1.09	_____
Tractors	hour	11.33	0.3516	3.99	_____
DIESEL FUEL					
Tractors	gal	2.44	3.5802	8.73	_____
Harvesters	gal	2.44	1.2047	2.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.97	1.0000	4.97	_____
Tractors	Acre	2.14	1.0000	2.14	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	7.27	1.0000	7.27	_____
TOTAL DIRECT EXPENSES				355.65	_____
FIXED EXPENSES					
Implements	Acre	9.78	1.0000	9.78	_____
Tractors	Acre	14.50	1.0000	14.50	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
TOTAL FIXED EXPENSES				37.53	_____
TOTAL SPECIFIED EXPENSES				393.18	_____

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, 2020.

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	1.83	2.50	0.74	0.91	0.07	0.88					6.86
LA Phosphate	lb											50.0000	0.38	19.00		19.00
LA Potash	lb											50.0000	0.27	13.50		13.50
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54		12.54
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.48	3.39	1.05	2.41	0.07	0.79					10.12
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55					4.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56					6.47
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23					1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	4.38	8.76		8.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.47	1.99	1.49	3.12	0.09	1.12					9.19
Soybean Seed RR	lb											50.0000	1.30	65.00		65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23					1.20
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.10	1.39	0.17	0.22	0.06	0.72					3.60
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Dual II Magnum	pt											1.0000	14.50	14.50		14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Flexstar HL	pt											1.0000	4.50	4.50		4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Quadris	oz											6.0000	1.25	7.50		7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	60.00	37.50		37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50		6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16		4.16
Surfactant	pt											1.0000	1.75	1.75		1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15					22.84
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						16.93	27.75	4.97	9.78	0.53	6.23			320.25		385.91
INTEREST ON OPERATING CAPITAL																7.27
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																393.18

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.35	5.72	6.14	6.63	7.20	7.90	8.75	9.81	11.17	12.99	15.53
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-228	-220	-211	-200	-187	-171	-152	-128	-98	-57	0
			-266	-258	-248	-237	-224	-209	-190	-166	-135	-94	-37
60	27.00	bu	-206	-196	-184	-171	-156	-137	-114	-85	-49	0	68
			-243	-233	-222	-209	-193	-174	-151	-123	-86	-37	31
70	31.50	bu	-183	-171	-158	-143	-124	-103	-76	-42	0	57	137
			-220	-209	-196	-180	-162	-140	-113	-80	-37	19	99
80	36.00	bu	-160	-147	-132	-114	-93	-68	-38	0	49	114	206
			-197	-184	-169	-151	-131	-106	-75	-37	11	76	168
90	40.50	bu	-137	-122	-105	-85	-62	-34	0	42	98	171	274
			-174	-160	-143	-123	-99	-71	-37	5	60	134	237
100	45.00	bu	-114	-98	-79	-57	-31	0	38	85	147	228	343
			-151	-135	-116	-94	-68	-37	0	48	109	191	305
110	49.50	bu	-91	-73	-52	-28	0	34	76	128	196	286	412
			-129	-111	-90	-66	-37	-3	38	91	158	248	374
120	54.00	bu	-68	-49	-26	0	31	68	114	171	245	343	480
			-106	-86	-63	-37	-6	31	76	134	207	305	443
130	58.50	bu	-45	-24	0	28	62	103	152	214	294	400	549
			-83	-62	-37	-8	24	65	115	177	256	363	511
140	63.00	bu	-22	0	26	57	93	137	190	257	343	457	618
			-60	-37	-11	19	56	99	153	220	305	420	580
150	67.50	bu	0	24	52	85	124	171	228	300	392	515	686
			-37	-13	15	48	87	134	191	262	354	477	649

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.91	6.31	6.78	7.32	7.96	8.73	9.67	10.85	12.36	14.38	17.20
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-216	-207	-196	-184	-170	-152	-131	-105	-71	-25	37
			-253	-244	-234	-222	-207	-190	-169	-142	-108	-63	0
60	27.00	bu	-191	-180	-167	-152	-135	-114	-89	-57	-16	37	113
			-228	-217	-205	-190	-173	-152	-126	-95	-54	0	76
70	31.50	bu	-165	-152	-138	-121	-100	-76	-47	-10	37	101	189
			-203	-190	-175	-158	-138	-114	-84	-47	0	63	152
80	36.00	bu	-140	-125	-108	-89	-66	-38	-4	37	91	164	266
			-177	-163	-146	-126	-103	-76	-42	0	54	126	228
90	40.50	bu	-114	-98	-79	-57	-31	-0	37	85	146	227	342
			-152	-136	-117	-95	-69	-38	0	47	108	190	304
100	45.00	bu	-89	-71	-50	-25	2	37	79	132	200	291	418
			-126	-108	-87	-63	-34	0	42	95	163	253	380
110	49.50	bu	-64	-44	-21	5	37	75	122	180	255	354	494
			-101	-81	-58	-31	0	38	84	142	217	317	457
120	54.00	bu	-38	-16	8	37	72	113	164	227	309	418	570
			-76	-54	-29	0	34	76	126	190	272	380	533
130	58.50	bu	-13	10	37	69	106	151	206	275	364	481	647
			-50	-27	0	31	69	114	169	238	326	444	609
140	63.00	bu	12	37	66	101	141	189	249	323	418	545	723
			-25	0	29	63	103	152	211	285	380	507	685
150	67.50	bu	37	64	96	132	176	227	291	370	472	608	799
			0	27	58	95	138	190	253	333	435	571	761

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.33	0.0966	1.09	_____
Tractors	hour	11.33	0.6447	7.32	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	6.4077	15.62	_____
Harvesters	gal	2.44	1.2047	2.94	_____
Roll-Out Pipe Irr.	gal	2.44	4.8877	11.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.37	1.0000	5.37	_____
Tractors	Acre	3.83	1.0000	3.83	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	7.97	1.0000	7.97	_____
TOTAL DIRECT EXPENSES				397.04	_____
FIXED EXPENSES					
Implements	Acre	11.01	1.0000	11.01	_____
Tractors	Acre	26.05	1.0000	26.05	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_____
TOTAL FIXED EXPENSES				106.20	_____
TOTAL SPECIFIED EXPENSES				503.24	_____

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, 2020.

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	1.83	2.50	0.74	0.91	0.07	0.88				6.86
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.48	3.39	1.05	2.41	0.07	0.79				10.12
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56				6.47
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.38	8.76	8.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.47	1.99	1.49	3.12	0.09	1.12				9.19
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.10	1.39	0.17	0.22	0.06	0.72				3.60
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Quadris	oz											6.0000	1.25	7.50	7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	60.00	37.50	37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00	5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.75	1.75	1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15				22.84
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	8.58	11.55	17.58	57.12	0.44	5.08	1.0000		8.25	108.16
TOTALS						25.51	39.30	22.55	66.90	0.98	11.31			329.70	495.27
INTEREST ON OPERATING CAPITAL															7.97
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															503.24

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			4.90	5.23	5.61	6.06	6.58	7.21	7.99	8.95	10.19	11.84	14.16
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-254	-245	-235	-222	-208	-191	-169	-143	-109	-63	0
			-360	-351	-341	-329	-314	-297	-276	-249	-215	-169	-106
60	33.00	bu	-229	-218	-205	-191	-173	-152	-127	-95	-54	0	76
			-335	-324	-311	-297	-279	-259	-233	-201	-160	-106	-29
70	38.50	bu	-203	-191	-176	-159	-138	-114	-84	-47	0	63	152
			-309	-297	-282	-265	-245	-220	-191	-153	-106	-42	46
80	44.00	bu	-178	-163	-146	-127	-104	-76	-42	0	54	127	229
			-284	-269	-253	-233	-210	-182	-148	-106	-51	21	123
90	49.50	bu	-152	-136	-117	-95	-69	-38	0	47	109	191	305
			-259	-242	-223	-201	-175	-144	-106	-58	2	84	199
100	55.00	bu	-127	-109	-88	-63	-34	0	42	95	163	254	382
			-233	-215	-194	-169	-140	-106	-63	-10	57	148	275
110	60.50	bu	-101	-81	-58	-31	0	38	84	143	218	318	458
			-208	-188	-164	-138	-106	-67	-21	37	112	212	352
120	66.00	bu	-76	-54	-29	0	34	76	127	191	272	382	534
			-182	-160	-135	-106	-71	-29	21	84	166	275	428
130	71.50	bu	-50	-27	0	31	69	114	169	238	327	445	611
			-157	-133	-106	-74	-36	8	63	132	221	339	505
140	77.00	bu	-25	0	29	63	104	152	212	286	382	509	687
			-131	-106	-76	-42	-2	46	106	180	275	403	581
150	82.50	bu	0	27	58	95	138	191	254	334	436	573	764
			-106	-78	-47	-10	32	84	148	228	330	466	657

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			6.19	6.61	7.10	7.67	8.34	9.14	10.13	11.36	12.95	15.06	18.02
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-219	-207	-194	-178	-160	-137	-110	-76	-33	24	106
			-325	-313	-300	-284	-266	-244	-217	-183	-139	-81	0
60	33.00	bu	-186	-172	-156	-137	-115	-89	-56	-15	36	106	203
			-292	-279	-262	-244	-221	-195	-162	-122	-69	0	97
70	38.50	bu	-154	-137	-119	-97	-71	-40	-2	45	106	187	301
			-260	-244	-225	-203	-177	-146	-108	-61	0	81	195
80	44.00	bu	-121	-103	-81	-56	-26	8	51	106	175	268	399
			-227	-209	-187	-162	-133	-97	-54	0	69	162	292
90	49.50	bu	-89	-68	-44	-15	17	57	106	167	245	350	496
			-195	-174	-150	-122	-88	-48	0	61	139	244	390
100	55.00	bu	-56	-33	-6	24	61	106	160	228	315	431	594
			-162	-139	-112	-81	-44	0	54	122	209	325	488
110	60.50	bu	-24	1	31	65	106	155	214	289	385	513	692
			-130	-104	-75	-40	0	48	108	183	279	406	585
120	66.00	bu	8	36	68	106	150	203	268	350	454	594	789
			-97	-69	-37	0	44	97	162	244	348	488	683
130	71.50	bu	41	71	106	146	194	252	323	411	524	675	887
			-65	-34	0	40	88	146	217	305	418	569	781
140	77.00	bu	73	106	143	187	239	301	377	472	594	757	985
			-32	0	37	81	133	195	271	366	488	651	878
150	82.50	bu	106	141	181	228	283	350	431	533	664	838	1082
			0	34	75	122	177	244	325	427	558	732	976

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	6.0000	30.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.33	0.0966	1.09	_____
Tractors	hour	11.33	0.6447	7.32	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	6.4077	15.62	_____
Harvesters	gal	2.44	1.2047	2.94	_____
Roll-Out Pipe Irr.	gal	2.44	4.8877	11.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.64	1.0000	5.64	_____
Tractors	Acre	3.83	1.0000	3.83	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	7.86	1.0000	7.86	_____
TOTAL DIRECT EXPENSES				383.31	_____
FIXED EXPENSES					
Implements	Acre	11.36	1.0000	11.36	_____
Tractors	Acre	26.05	1.0000	26.05	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_____
TOTAL FIXED EXPENSES				106.55	_____
TOTAL SPECIFIED EXPENSES				489.86	_____

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, 2020.

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	1.83	2.50	0.74	0.91	0.07	0.88					6.86
LA Phosphate	lb											50.0000	0.38	19.00		19.00
LA Potash	lb											50.0000	0.27	13.50		13.50
Disk Harrow	28'	MFWD 225	0.070	1.00	Oct	2.48	3.39	1.05	2.41	0.07	0.79					10.12
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55					4.18
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	1.74	2.38	0.46	1.33	0.04	0.56					6.47
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23					1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	4.38	8.76		8.76
Plant - Folding	12R-38	MFWD 190	0.049	1.00	May	1.47	1.99	1.49	3.12	0.09	1.12					9.19
Soybean Seed RR	lb											50.0000	1.30	65.00		65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23					1.20
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.10	1.39	0.44	0.57	0.06	0.72					4.22
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Dual II Magnum	pt											1.0000	14.50	14.50		14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Flexstar HL	pt											1.0000	4.50	4.50		4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Quadris	oz											6.0000	1.25	7.50		7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	60.00	37.50		37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (3 gal)	appl			1.00	Sep							1.0000	5.00	5.00		5.00
Gramoxone Inteon	oz											16.0000	0.26	4.16		4.16
Surfactant	pt											1.0000	1.75	1.75		1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15					22.84
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	8.58	11.55	17.58	57.12	0.44	5.08	1.0000		8.25		108.16
TOTALS						25.51	39.30	22.82	67.25	0.98	11.31			315.81		482.00
INTEREST ON OPERATING CAPITAL																7.86
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																489.86

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			5.20	5.55	5.95	6.43	6.99	7.66	8.48	9.51	10.83	12.59	15.06
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-246	-237	-227	-215	-201	-184	-164	-138	-105	-61	0
			-353	-344	-334	-322	-308	-291	-270	-245	-212	-168	-106
60	30.00	bu	-221	-211	-199	-184	-168	-147	-123	-92	-52	0	73
			-328	-317	-305	-291	-274	-254	-229	-198	-159	-106	-32
70	35.00	bu	-197	-184	-170	-154	-134	-110	-82	-46	0	61	147
			-303	-291	-277	-260	-240	-217	-188	-152	-106	-44	41
80	40.00	bu	-172	-158	-142	-123	-100	-73	-41	0	52	123	221
			-279	-264	-248	-229	-207	-180	-147	-106	-53	16	115
90	45.00	bu	-147	-132	-113	-92	-67	-36	0	46	105	184	295
			-254	-238	-220	-198	-173	-143	-106	-60	-0	78	189
100	50.00	bu	-123	-105	-85	-61	-33	0	41	92	158	246	369
			-229	-212	-191	-168	-140	-106	-65	-14	51	139	263
110	55.00	bu	-98	-79	-56	-30	0	36	82	138	211	308	443
			-205	-185	-163	-137	-106	-69	-24	32	104	201	337
120	60.00	bu	-73	-52	-28	0	33	73	123	184	264	369	517
			-180	-159	-134	-106	-72	-32	16	78	157	263	411
130	65.00	bu	-49	-26	0	30	67	110	164	231	316	431	591
			-155	-132	-106	-75	-39	4	57	124	210	324	484
140	70.00	bu	-24	0	28	61	100	147	205	277	369	492	665
			-131	-106	-78	-44	-5	41	98	170	263	386	558
150	75.00	bu	0	26	56	92	134	184	246	323	422	554	739
			-106	-80	-49	-14	27	78	139	216	315	447	632

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

Table 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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			6.62	7.07	7.59	8.20	8.93	9.79	10.85	12.17	13.87	16.14	19.32
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-210	-199	-186	-171	-153	-131	-105	-72	-29	27	106
			-317	-306	-293	-277	-259	-238	-211	-178	-136	-79	0
60	30.00	bu	-179	-165	-149	-131	-109	-83	-52	-12	38	106	201
			-285	-272	-256	-238	-216	-190	-158	-119	-68	0	95
70	35.00	bu	-147	-131	-113	-91	-66	-36	0	47	106	185	297
			-253	-238	-219	-198	-173	-142	-105	-59	0	79	190
80	40.00	bu	-115	-97	-76	-52	-23	11	53	106	174	265	392
			-222	-204	-183	-158	-129	-95	-52	0	68	158	285
90	45.00	bu	-83	-63	-39	-12	19	58	106	166	242	344	487
			-190	-170	-146	-119	-86	-47	0	59	136	238	380
100	50.00	bu	-52	-29	-3	27	63	106	159	225	310	424	582
			-158	-136	-109	-79	-43	0	52	119	204	317	476
110	55.00	bu	-20	4	33	66	106	154	212	285	378	503	678
			-126	-102	-73	-39	0	47	105	178	272	396	571
120	60.00	bu	11	38	69	106	149	201	265	344	446	582	773
			-95	-68	-36	0	43	95	158	238	340	476	666
130	65.00	bu	43	72	106	146	193	249	318	404	514	662	868
			-63	-34	0	39	86	142	211	297	408	555	761
140	70.00	bu	74	106	143	185	236	297	371	463	582	741	963
			-31	0	36	79	129	190	264	357	476	634	857
150	75.00	bu	106	140	179	225	279	344	424	523	650	820	1059
			0	34	73	119	173	238	317	416	544	714	952

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
LA Hired Labor					
Implements	hour	11.33	0.1124	1.27	_____
Tractors	hour	11.33	0.2946	3.35	_____
DIESEL FUEL					
Tractors	gal	2.44	2.8077	6.85	_____
Harvesters	gal	2.44	1.2047	2.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.48	1.0000	4.48	_____
Tractors	Acre	1.67	1.0000	1.67	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
INTEREST ON OP. CAP.	Acre	7.28	1.0000	7.28	_____
TOTAL DIRECT EXPENSES				352.36	_____
FIXED EXPENSES					
Implements	Acre	9.20	1.0000	9.20	_____
Tractors	Acre	11.25	1.0000	11.25	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
TOTAL FIXED EXPENSES				33.70	_____
TOTAL SPECIFIED EXPENSES				386.06	_____

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, 2020.

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	1.83	2.50	0.74	0.91	0.07	0.88				6.86
LA Phosphate	lb											50.0000	0.38	19.00	19.00
LA Potash	lb											50.0000	0.27	13.50	13.50
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54	12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.39	1.88	0.50	2.30	0.04	0.53				6.60
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55				4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23				1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85	1.85
Valor WP	oz											2.0000	4.38	8.76	8.76
NT Plant-Rigid	12R-30	MFWD 190	0.065	1.00	May	1.95	2.63	1.74	3.63	0.13	1.48				11.43
Soybean Seed RR	lb											50.0000	1.30	65.00	65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23				1.20
Spray (Bcast/HB)	40' Fold	MFWD 170	0.042	1.00	May	1.10	1.39	0.44	0.57	0.06	0.72				4.22
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Dual II Magnum	pt											1.0000	14.50	14.50	14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50	6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72	5.72
Flexstar HL	pt											1.0000	4.50	4.50	4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Quadris	oz											6.0000	1.25	7.50	7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Besiege	oz											5.0000	1.95	9.75	9.75
Stratego	pt											0.6250	60.00	37.50	37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Prevathon	oz											8.0000	1.32	10.56	10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00	5.00
Brigade EC	pt											0.3750	9.00	3.38	3.38
Besiege	oz											5.0000	1.95	9.75	9.75
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50	6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16	4.16
Surfactant	pt											1.0000	1.75	1.75	1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15				22.84
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						14.58	24.50	4.48	9.20	0.49	5.77			320.25	378.78
INTEREST ON OPERATING CAPITAL															7.28
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															386.06

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, 2020.

Soybeans			-----BREAKEVEN PRICE-----										
			5.31	5.67	6.08	6.57	7.14	7.83	8.66	9.71	11.06	12.86	15.38
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-226	-218	-209	-198	-185	-170	-151	-127	-97	-56	0
			-260	-252	-242	-232	-219	-203	-184	-161	-130	-90	-33
60	27.00	bu	-204	-194	-183	-170	-154	-136	-113	-85	-48	0	68
			-237	-228	-216	-203	-188	-169	-147	-118	-82	-33	34
70	31.50	bu	-181	-170	-156	-141	-123	-102	-75	-42	0	56	136
			-215	-203	-190	-175	-157	-135	-109	-76	-33	22	102
80	36.00	bu	-158	-145	-130	-113	-92	-68	-37	0	48	113	204
			-192	-179	-164	-147	-126	-101	-71	-33	14	79	170
90	40.50	bu	-136	-121	-104	-85	-61	-34	0	42	97	170	272
			-169	-155	-138	-118	-95	-67	-33	8	63	136	238
100	45.00	bu	-113	-97	-78	-56	-30	0	37	85	145	226	340
			-147	-130	-112	-90	-64	-33	4	51	112	193	306
110	49.50	bu	-90	-72	-52	-28	0	34	75	127	194	283	408
			-124	-106	-86	-62	-33	0	41	93	160	249	374
120	54.00	bu	-68	-48	-26	0	30	68	113	170	242	340	476
			-101	-82	-59	-33	-2	34	79	136	209	306	442
130	58.50	bu	-45	-24	0	28	61	102	151	212	291	396	544
			-79	-57	-33	-5	28	68	117	178	257	363	510
140	63.00	bu	-22	0	26	56	92	136	188	255	340	453	612
			-56	-33	-7	22	59	102	155	221	306	419	578
150	67.50	bu	0	24	52	85	123	170	226	297	388	510	680
			-33	-9	18	51	89	136	193	263	354	476	646

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, 2020.

Soybeans			-----BREAKEVEN PRICE-----										
			5.81	6.20	6.66	7.19	7.82	8.57	9.50	10.65	12.13	14.11	16.88
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-215	-206	-196	-184	-170	-153	-132	-106	-73	-28	33
			-249	-240	-230	-218	-203	-186	-166	-140	-106	-62	0
60	27.00	bu	-190	-179	-167	-153	-136	-115	-90	-59	-19	33	108
			-224	-213	-201	-186	-169	-149	-124	-93	-53	0	74
70	31.50	bu	-165	-153	-138	-122	-102	-78	-49	-13	33	96	183
			-199	-186	-172	-155	-135	-112	-83	-46	0	62	149
80	36.00	bu	-140	-126	-110	-90	-68	-41	-7	33	87	158	257
			-174	-160	-143	-124	-101	-74	-41	0	53	124	224
90	40.50	bu	-115	-99	-81	-59	-34	-3	33	80	140	220	332
			-149	-133	-115	-93	-67	-37	0	46	106	186	299
100	45.00	bu	-90	-73	-52	-28	0	33	75	127	193	282	407
			-124	-106	-86	-62	-33	0	41	93	160	249	373
110	49.50	bu	-65	-46	-23	2	33	71	116	173	247	345	482
			-99	-80	-57	-31	0	37	83	140	213	311	448
120	54.00	bu	-41	-19	4	33	67	108	158	220	300	407	557
			-74	-53	-28	0	33	74	124	186	267	373	523
130	58.50	bu	-16	7	33	64	101	145	199	267	354	469	631
			-49	-26	0	31	67	112	166	233	320	436	598
140	63.00	bu	8	33	62	96	135	183	241	314	407	532	706
			-24	0	28	62	101	149	207	280	373	498	672
150	67.50	bu	33	60	91	127	169	220	282	360	460	594	781
			0	26	57	93	135	186	249	327	427	560	747

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	5.0000	25.00	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.26	16.0000	4.16	_____
FERTILIZERS					
LA Phosphate	lb	0.38	50.0000	19.00	_____
LA Potash	lb	0.27	50.0000	13.50	_____
FUNGICIDES					
Quadris	oz	1.25	6.0000	7.50	_____
Stratego	pt	60.00	0.6250	37.50	_____
HERBICIDES					
Roundup WeatherMax	oz	0.26	66.0000	17.16	_____
2,4-D Amine 4	pt	1.85	1.0000	1.85	_____
Valor WP	oz	4.38	2.0000	8.76	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Flexstar HL	pt	4.50	1.0000	4.50	_____
INSECTICIDES					
Brigade EC	pt	9.00	0.7500	6.75	_____
Prevathon	oz	1.32	16.0000	21.12	_____
Besiege	oz	1.95	10.0000	19.50	_____
Surfactant	pt	1.75	1.0000	1.75	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Soybean Seed RR	lb	1.30	50.0000	65.00	_____
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	13.51	0.0851	1.15	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Implements	hour	11.33	0.0986	1.12	_____
Tractors	hour	11.33	0.5739	6.53	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	5.5004	13.41	_____
Harvesters	gal	2.44	1.2047	2.94	_____
Roll-Out Pipe Irr.	gal	2.44	4.8877	11.94	_____
REPAIR & MAINTENANCE					
Implements	Acre	4.63	1.0000	4.63	_____
Tractors	Acre	3.28	1.0000	3.28	_____
Harvesters	Acre	3.12	1.0000	3.12	_____
Roll-Out Pipe Irr.	Acre	5.24	1.0000	5.24	_____
INTEREST ON OP. CAP.	Acre	7.97	1.0000	7.97	_____
TOTAL DIRECT EXPENSES				394.28	_____
FIXED EXPENSES					
Implements	Acre	10.14	1.0000	10.14	_____
Tractors	Acre	22.25	1.0000	22.25	_____
Harvesters	Acre	13.25	1.0000	13.25	_____
Roll-Out Pipe Irr.	Acre	55.89	1.0000	55.89	_____
TOTAL FIXED EXPENSES				101.53	_____
TOTAL SPECIFIED EXPENSES				495.81	_____

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, 2020.

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	1.83	2.50	0.74	0.91	0.07	0.88					6.86
LA Phosphate	lb											50.0000	0.38	19.00		19.00
LA Potash	lb											50.0000	0.27	13.50		13.50
Lime (Spread)	ton			0.33	Oct							0.3300	38.00	12.54		12.54
Field Cultivate	32'	MFWD 190	0.046	1.00	Oct	1.39	1.88	0.50	2.30	0.04	0.53					6.60
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.45	1.95	0.06	0.17	0.04	0.55					4.18
Ditcher		2WD 130	0.020	1.00	Oct	0.40	0.45	0.05	0.07	0.02	0.23					1.20
App by Air (5 gal)	appl			1.00	Mar							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
2,4-D Amine 4	pt											1.0000	1.85	1.85		1.85
Valor WP	oz											2.0000	4.38	8.76		8.76
NT Plant-Folding	12R-38	MFWD 190	0.051	1.00	May	1.54	2.08	1.76	3.69	0.10	1.18					10.25
Soybean Seed RR	lb											50.0000	1.30	65.00		65.00
Ditcher		2WD 130	0.020	1.00	May	0.40	0.45	0.05	0.07	0.02	0.23					1.20
Spray (Broadcast)	40'	MFWD 170	0.042	1.00	May	1.10	1.39	0.17	0.22	0.06	0.72					3.60
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Dual II Magnum	pt											1.0000	14.50	14.50		14.50
App by Air (5 gal)	appl			1.00	Jun							1.0000	6.50	6.50		6.50
Roundup WeatherMax	oz											22.0000	0.26	5.72		5.72
Flexstar HL	pt											1.0000	4.50	4.50		4.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Quadris	oz											6.0000	1.25	7.50		7.50
App by Air (3 gal)	appl			1.00	Jul							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Besiege	oz											5.0000	1.95	9.75		9.75
Stratego	pt											0.6250	60.00	37.50		37.50
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Brigade EC	pt											0.3750	9.00	3.38		3.38
Besiege	oz											5.0000	1.95	9.75		9.75
App by Air (3 gal)	appl			1.00	Aug							1.0000	5.00	5.00		5.00
Prevathon	oz											8.0000	1.32	10.56		10.56
App by Air (5 gal)	appl			1.00	Sep							1.0000	6.50	6.50		6.50
Gramoxone Inteon	oz											16.0000	0.26	4.16		4.16
Surfactant	pt											1.0000	1.75	1.75		1.75
Header - Soybean	30' Flex	275hp	0.085	1.00	Oct	6.06	13.25	0.90	1.48	0.08	1.15					22.84
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	8.58	11.55	17.58	57.12	0.44	5.08	1.0000		8.25		108.16
TOTALS						22.75	35.50	21.81	66.03	0.91	10.55			331.20		487.84
INTEREST ON OPERATING CAPITAL																7.97
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																495.81

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			4.86	5.19	5.57	6.01	6.54	7.16	7.93	8.89	10.12	11.76	14.06
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-252	-243	-233	-221	-206	-189	-168	-142	-108	-63	0
			-354	-345	-334	-322	-308	-291	-270	-243	-209	-164	-101
60	33.00	bu	-227	-216	-204	-189	-172	-151	-126	-94	-54	0	75
			-329	-318	-305	-291	-273	-253	-227	-196	-155	-101	-25
70	38.50	bu	-202	-189	-175	-158	-137	-113	-84	-47	0	63	151
			-303	-291	-276	-259	-239	-215	-185	-148	-101	-38	50
80	44.00	bu	-177	-162	-145	-126	-103	-75	-42	0	54	126	227
			-278	-264	-247	-227	-204	-177	-143	-101	-47	24	126
90	49.50	bu	-151	-135	-116	-94	-68	-37	0	47	108	189	303
			-253	-236	-218	-196	-170	-139	-101	-54	6	88	201
100	55.00	bu	-126	-108	-87	-63	-34	0	42	94	162	252	379
			-227	-209	-189	-164	-136	-101	-59	-6	61	151	277
110	60.50	bu	-101	-81	-58	-31	0	37	84	142	216	316	455
			-202	-182	-159	-133	-101	-63	-17	40	115	214	353
120	66.00	bu	-75	-54	-29	0	34	75	126	189	270	379	531
			-177	-155	-130	-101	-67	-25	24	88	169	277	429
130	71.50	bu	-50	-27	0	31	68	113	168	237	325	442	606
			-152	-128	-101	-69	-32	12	67	135	223	340	505
140	77.00	bu	-25	0	29	63	103	151	210	284	379	505	682
			-126	-101	-72	-38	1	50	109	182	277	404	581
150	82.50	bu	0	27	58	94	137	189	252	331	433	568	758
			-101	-74	-43	-6	36	88	151	230	331	467	657

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, 2020.

			-----BREAKEVEN PRICE-----										
Soybeans			6.10	6.51	6.99	7.55	8.21	9.01	9.98	11.20	12.76	14.84	17.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	27.50	bu	-219	-207	-194	-178	-160	-138	-112	-78	-35	21	101
			-320	-309	-295	-280	-262	-240	-213	-180	-137	-80	0
60	33.00	bu	-186	-173	-157	-138	-117	-90	-58	-18	32	101	197
			-288	-274	-258	-240	-218	-192	-160	-120	-68	0	96
70	38.50	bu	-154	-138	-120	-98	-73	-42	-5	41	101	181	293
			-256	-240	-221	-200	-174	-144	-106	-60	0	80	192
80	44.00	bu	-122	-104	-83	-58	-29	5	48	101	170	261	390
			-224	-206	-184	-160	-131	-96	-53	0	68	160	288
90	49.50	bu	-90	-70	-46	-18	14	53	101	161	238	341	486
			-192	-171	-147	-120	-87	-48	0	60	137	240	384
100	55.00	bu	-58	-35	-9	21	57	101	154	221	307	422	582
			-160	-137	-110	-80	-43	0	53	120	206	320	480
110	60.50	bu	-26	-1	27	61	101	149	208	281	376	502	678
			-128	-103	-73	-40	0	48	106	180	274	400	576
120	66.00	bu	5	32	64	101	145	197	261	341	444	582	774
			-96	-68	-36	0	43	96	160	240	343	480	673
130	71.50	bu	37	67	101	141	188	245	315	402	513	662	870
			-64	-34	0	40	87	144	213	300	412	560	769
140	77.00	bu	69	101	138	181	232	293	368	462	582	742	967
			-32	0	36	80	131	192	267	360	480	641	865
150	82.50	bu	101	135	175	221	276	341	422	522	651	822	1063
			0	34	73	120	174	240	320	420	549	721	961

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, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_____
LA Hired Labor					
Tractors	hour	11.33	0.2930	3.33	_____
LA Irrigation Labor					
Special Labor	hour	11.33	0.1500	1.69	_____
DIESEL FUEL					
Tractors	gal	2.44	2.8274	6.89	_____
Engine, RPF, 75	gal	2.44	8.5535	20.88	_____
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	0.37	10.5000	3.93	_____
INTEREST ON OP. CAP.	Acre	0.91	1.0000	0.91	_____
TOTAL DIRECT EXPENSES				50.99	_____
FIXED EXPENSES					
Implements	Acre	1.23	1.0000	1.23	_____
Tractors	Acre	11.55	1.0000	11.55	_____
Well & Pump, Furrow	each	1577.86	0.0062	9.86	_____
Main Line Pipe	each	872.23	0.0062	5.45	_____
Land Forming (\$300)	each	31.23	1.0000	31.24	_____
Engine, RPF, 75	each	1494.56	0.0062	9.34	_____
TOTAL FIXED EXPENSES				68.67	_____
TOTAL SPECIFIED EXPENSES				119.66	_____

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2020.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	11.33	0.2036	2.31	_____
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.44	11.2011	27.33	_____
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	472.80	0.0074	3.50	_____
Engine, 1/4 CP, 65	ac-in	0.62	7.5000	4.67	_____
Pivot, 1/4 CP	1320'	1820.00	0.0074	13.48	_____
INTEREST ON OP. CAP.	Acre	1.05	1.0000	1.05	_____
TOTAL DIRECT EXPENSES				52.34	_____
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1577.86	0.0074	11.69	_____
Engine, 1/4 CP, 65	each	1494.56	0.0074	11.07	_____
Pivot, 1/4 CP	each	8095.56	0.0074	59.97	_____
TOTAL FIXED EXPENSES				82.73	_____
TOTAL SPECIFIED EXPENSES				135.07	_____

Appendix Table 3. Operating Inputs: Estimated Prices for 2020.

ITEM NAME	UNIT	PRICE
dollars		
CUSTOM HARVEST/HAUL		
Custom Combine Rice	acre	0.00
Haul Corn	bu	0.23
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	0.25
Haul Sorghum	bu	0.25
Haul Soybeans	bu	0.27
Haul Wheat	bu	0.26
LARice Haul	cwt	0.30
CUSTOM PLANT		
Custom Spread + Seed	appl	0.00
LARice Air Plant NE	cwt	5.50
LARice Air Plant SW	cwt	5.60
Plant by Air	cwt	7.00
CUSTOM SPRAY		
App 2,4-D Helicopter	appl	0.00
App by Air (1 gal)	appl	2.50
App by Air (2 gal)	appl	4.00
App by Air (3 gal)	appl	5.00
App by Air (5 gal)	appl	6.50
App by Air (10 gal)	appl	9.00
App Furadan by Air	appl	0.00
App Ordram by Air	appl	0.00
Custom Apply	acre	7.50
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	13.43
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	3.00
DAP	cwt	22.64
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	22.25
Fert 10-34-0	gal	2.59
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	13.50
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.41
LA Phosphate	lb	0.38
LA Potash	lb	0.27
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	13.62
UAN + Sulfur (28% N)	cwt	12.55
Urea, Solid (46% N)	cwt	20.22
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	1.66
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	4.28
Crop Oil (Petroleum)	pt	3.00
Cruiser 5FS	oz	4.18
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	1.25
Ridomil GoldPC 10G	lb	2.08

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

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	60.00
Terrachlor Flowable	pt	4.74
Terraclor 2EC	pt	1.87
Terraclor Super X EC	pt	3.95
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	0.72
Vitavax 200	oz	0.47
Vitavax M Flowable	oz	1.06
Vitavax RTU-Thiram	oz	0.40
Vitavax T-L	oz	0.29
GIN/DRY		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Rice	bu	0.40
Dry Rice (cwt)	cwt	0.90
Gin	lb	0.11
LARice Dry	cwt	0.90
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
LA Polado	oz	0.18
Mepex	oz	0.07
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	7.01
CottonQuik	pt	6.06
Def 6	pt	7.55
Def/Folex	pt	7.55
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.09
Ethephon 6E	pt	2.90
Finish 6	pt	9.37
Folex 6EC	pt	8.61
Ginstar EC	pt	21.44
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.26
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.75
Sodium Chlorate 3L	gal	3.50
Sodium Chlorate 6L	gal	5.57
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.85
2,4-D Ester	pt	4.17
AAtrex 4L	pt	2.24
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	7.52
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	15.04
Basagran	pt	5.43
Basis Gold	lb	9.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

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	8.84
Buctril 4EC	pt	17.06
Butoxone 175(2,4-DB)	pt	3.24
Butoxone 200(2,4-DB)	pt	3.92
Butyrac 175 (2,4-DB)	pt	3.29
Butyrac 200 (2,4-DB)	pt	3.49
Canopy 75%	oz	2.74
Canopy XL	oz	2.23
Caparol 4L	pt	4.59
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.60
Classic	oz	14.02
Clincher EC	oz	1.95
Cobra 2EC	oz	1.72
Command 3ME	pt	16.09
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	5.75
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	3.99
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.90
Diuron 80 DF	lb	5.09
Domain 60DF	lb	12.75
DSMA 4	pt	0.90
Dual 8E	pt	0.00
Dual II Magnum	pt	14.50
Dual Magnum	pt	13.81
Duet	pt	5.39
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	43.40
Flexstar HL	pt	4.50
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29
Fusilade DX	oz	1.06
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	2.00
Glystar Plus	pt	2.17
Goal 2XL	pt	7.77
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	3.00
Gramoxone Max	pt	3.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Grandstand R	qt	17.15
Guardzman	pt	4.66
Guardzman Max	pt	7.22
Harmony Extra	oz	14.43
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	42.20
LA Weedmaster	qt	5.75
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.60
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	3.68
MSMA6 + Surfactant	pt	3.63
Newpath 2SL	oz	3.73
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.47
Pendimax 3.3	pt	2.47
Permit 75DF	oz	14.50
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	5.30
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.10
Raptor	oz	4.38
Reflex 2LC	pt	6.52
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	29.40
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	3.20
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.26
Scepter 70 DG	oz	4.50
Select 2EC	oz	0.70
Sencor 4F	pt	14.74
Sencor DF	lb	18.00
Squadron CE	pt	12.50
Stam 4E	qt	5.12
Stam 80 EDF	lb	9.64
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.58
Strongarm	oz	56.42
Superwham	qt	9.27
Suprend	lb	10.14
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	9.32
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	6.97
Treflan HFP	pt	3.37
Treflan TR-10	lb	1.10

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
dollars		
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.36
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	7.59
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.92
App Fert by Air(Min)	appl	7.00
Asana .66 XL	oz	0.48
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Brigade EC	pt	9.00
Brigade WSB	lb	26.04
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	4.89
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	19.50
Dimethoate 4E	pt	5.35
Dimilin 2L	oz	2.13
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	6.03
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaicho 480	oz	5.80
Intrepid 2F	oz	1.80
Intruder 70WP	oz	9.71
Karate Z	oz	3.40
Lannate LV	pt	9.85
Lannate SP	oz	2.42
Larvin 3.2	oz	0.63
Leverage 2.7	oz	2.17
Lorsban 15G	lb	2.35
Lorsban 4E	pt	6.10
Malathion 57EC	pt	4.23
Malathion 8E	pt	5.50
Malathion ULV	pt	4.93
Mepichlor 4.2% Liq	pt	5.91
Methyl Parathion	pt	5.79
Monitor 4	pt	16.50
Monitor 4	pt	16.50
Mustang Max	oz	1.48
Organophosphate	oz	0.00
Orthene 90S	lb	6.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Pennacap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	14.13
Pounce 3.2 EC	oz	0.34

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
		dollars
Prevathon	oz	1.32
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	13.23
Spintor 2SC	oz	4.93
Steward	pt	39.51
Surfactant	pt	1.75
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	0.25
OVERHEAD		
Farmstead & Drainage	Dol	1.00
LARice Insurance	Dollar	1.00
LARice Misc. Overhd	dollar	1.00
LARice Property Tax	dollar	1.00
Shops Bldg & Equip.	Dol	6.55
SERVICE FEE		
Utilities	Dol	1.00
SEED/PLANTS		
Corn Seed Bt	thous	2.60
Corn Seed BtRR	thous	3.63
Corn Seed Conv.	thous	2.89
Corn Seed RR	thous	3.43
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	2.60
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	1.13
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.90
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.30
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	3.94
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	1.30
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.24
Wheat Seed Public	lb	0.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2020.

ITEM NAME	UNIT	PRICE
dollars		
SERVICE FEE		
Cotton Checkoff	bale	2.56
Cotton Storage	bale	25.00
Crop Consultant	acre	7.00
Custom Spread(Truc	appl	4.50
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 2020.

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	23.86	0.00	37.37	0.00	37.37
Combine (200-249 hp)	240hp	161,548	300	8	12.35	13.51	30.13	16.82	60.47	71.40	131.87
Combine (225-274 hp)	Track250hp	0	300	8	12.87	13.51	31.40	0.00	44.91	0.00	44.91
Combine (250-299 hp)	275hp	352,000	300	8	14.15	13.51	34.52	36.66	84.70	155.57	240.27
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	13.51	37.03	22.73	73.28	96.44	169.72
Combine (275-299 hp)	Track290hp	0	300	8	14.93	13.51	36.42	0.00	49.93	0.00	49.93
Combine (300-349 hp)	325hp	383,000	300	8	16.73	13.51	40.82	39.89	94.22	169.27	263.50
Combine (300-349hp)	Track320hp	0	300	8	16.47	13.51	40.18	0.00	53.69	0.00	53.69
Combine (350-379 hp)	370hp	390,000	300	8	19.04	13.51	46.45	40.62	100.59	172.37	272.96
Combine (350-379 hp)	Track365hp	0	300	8	18.79	13.51	45.84	0.00	59.35	0.00	59.35
Cotton Stripper	173hp	170,000	200	8	8.08	13.51	19.71	26.56	59.78	112.70	172.49
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.33	11.68	2.72	25.74	8.59	34.33
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.33	8.54	1.57	21.44	4.98	26.42
Tractor(40-59hp)Cab	2WD 50	30,400	600	8	2.57	11.33	6.27	0.95	18.55	6.21	24.77
Tractor(40-59hp)Cab	MFWD 50	40,300	600	8	2.57	11.33	6.27	1.25	18.86	8.23	27.10
Tractor(40-59hp)RB	2WD 50	21,600	600	8	2.57	11.33	6.27	0.67	18.28	4.41	22.69
Tractor(40-59hp)RB	MFWD 50	27,500	600	8	2.57	11.33	6.27	0.85	18.46	5.61	24.08
Tractor(60-89hp)CAB	2WD 75	52,800	600	8	3.86	11.33	9.41	1.65	22.39	10.78	33.18
Tractor(60-89hp)CAB	MFWD 75	62,500	600	8	3.86	11.33	9.41	1.95	22.70	12.76	35.47
Tractor(60-89hp)RB	2WD 75	38,600	600	8	3.86	11.33	9.41	1.20	21.95	7.88	29.84
Tractor(60-89hp)RB	MFWD 75	40,100	600	8	3.86	11.33	9.41	1.25	22.00	8.19	30.19
Tractor(90-119hp)CB	2WD 105	69,300	600	8	5.40	11.33	13.18	2.16	26.68	14.15	40.84
Tractor(90-119hp)CB	MFWD 105	88,100	600	8	5.40	11.33	13.18	2.75	27.27	17.99	45.26
Tractor(90-119hp)RB	2WD 105	62,300	600	8	5.40	11.33	13.18	1.94	26.46	12.72	39.19
Tractor(90-119hp)RB	MFWD 105	69,700	600	8	5.40	11.33	13.18	2.17	26.69	14.23	40.93
Tractor(120-139hp)CB	2WD 130	110,000	600	8	6.69	11.33	16.32	3.43	31.09	22.47	53.56
Tractor(120-139hp)CB	MFWD 130	125,000	600	8	6.69	11.33	16.32	3.90	31.56	25.53	57.10
Tractor(140-159hp)CB	2WD 150	108,000	600	8	7.72	11.33	18.83	3.37	33.54	22.06	55.60
Tractor(140-159hp)CB	MFWD 150	140,000	600	8	7.72	11.33	18.83	4.37	34.54	28.60	63.14
Tractor(160-179hp)CB	2WD 170	156,000	600	8	8.75	11.33	21.35	4.87	37.55	33.17	70.72
Tractor(160-179hp)CB	MFWD 170	155,000	600	8	8.75	11.33	21.35	4.84	37.52	32.95	70.48
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	11.33	22.60	4.45	38.39	30.34	68.74
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	11.33	23.86	4.46	39.66	30.40	70.06
Tractor(180-199hp)CB	MFWD 190	189,000	600	8	9.77	11.33	23.86	5.90	41.09	40.18	81.28
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	11.33	28.25	4.59	44.18	31.27	75.45
Tractor(200-249hp)CB	MFWD 225	227,000	600	8	11.58	11.33	28.25	7.09	46.68	48.27	94.95
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	11.33	28.25	8.65	48.24	58.90	107.14
Tractor(250-349hp)CB	4WD 300	298,000	600	8	15.44	11.33	37.67	9.31	58.32	63.36	121.68
Tractor(250-349hp)CB	Track 300	327,000	600	8	15.44	11.33	37.67	10.21	59.22	69.53	128.76
Tractor(350-449hp)CB	4WD 400	342,000	600	8	20.58	11.33	50.23	10.68	72.25	72.72	144.97
Tractor(350-449hp)CB	Track 400	426,000	600	8	20.58	11.33	50.23	13.31	74.87	90.58	165.46
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.33	59.65	8.74	79.73	59.51	139.24

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 2020.

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	4R30"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	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-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, and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Blade-Box	6'	2WD 130	1,221	200	20	0.020	0.22	0.32	0.01	0.06	0.63	0.01	0.44	1.09
Blade-Box	10'	2WD 50	3,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	14'	2WD 50	6,270	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'	2WD 50	1,213	200	20	1.176	13.32	7.38	0.67	0.79	22.18	0.60	5.19	27.98
Blade-Scraper	10'	2WD 50	3,550	200	20	1.176	13.32	7.38	1.98	0.79	23.49	1.77	5.19	30.46
Blade-Scraper	14'	2WD 50	6,860	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy-1st Pick	2R38*157hp	MFWD 190	30,500	200	10	0.519	5.88	12.40	3.96	3.06	25.31	8.81	20.88	55.01
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	1.95	4.11	1.31	1.01	8.39	2.92	6.92	18.24
Boll Buggy-1st pick	4R30*255hp	MFWD 190	30,500	200	10	0.327	3.70	7.81	2.49	1.93	15.95	5.55	13.15	34.66
Boll Buggy-1st pick	4R30*325hp	MFWD 190	30,500	200	10	0.327	3.70	7.81	2.49	1.93	15.95	5.55	13.15	34.66
Boll Buggy-1st pick	4R38*255hp	MFWD 190	30,500	200	10	0.257	2.92	6.15	1.96	1.52	12.56	4.37	10.36	27.29
Boll Buggy-1st pick	4R38*325hp	MFWD 190	30,500	200	10	0.257	2.92	6.15	1.96	1.52	12.56	4.37	10.36	27.29
Boll Buggy-1st pick	5R30*255hp	MFWD 190	30,500	200	10	0.261	2.96	6.24	1.99	1.54	12.76	4.44	10.52	27.72
Boll Buggy-1st pick	5R38*255hp	MFWD 190	30,500	200	10	0.207	2.34	4.94	1.57	1.22	10.09	3.51	8.32	21.93
Boll Buggy-1st pick	6R30*325hp	MFWD 190	30,500	200	10	0.218	2.47	5.20	1.66	1.28	10.63	3.70	8.77	23.10
Boll Buggy-1st pick	6R38*325hp	MFWD 190	30,500	200	10	0.172	1.95	4.11	1.31	1.01	8.39	2.92	6.92	18.24
Boll Buggy-2nd pick	2R38*157hp	MFWD 190	30,500	200	10	0.440	4.98	10.50	3.35	2.59	21.44	7.46	17.69	46.60
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.65	3.48	1.11	0.86	7.11	2.47	5.86	15.45
Boll Buggy-2nd pick	4R30*255hp	MFWD 190	30,500	200	10	0.277	3.14	6.61	2.11	1.63	13.51	4.70	11.14	29.36
Boll Buggy-2nd pick	4R30*325hp	MFWD 190	30,500	200	10	0.277	3.14	6.61	2.11	1.63	13.51	4.70	11.14	29.36
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.47	5.21	1.66	1.28	10.63	3.70	8.77	23.11
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.47	5.21	1.66	1.28	10.63	3.70	8.77	23.11
Boll Buggy-2nd pick	5R30*255hp	MFWD 190	30,500	200	10	0.221	2.51	5.29	1.69	1.31	10.80	3.76	8.91	23.48
Boll Buggy-2nd pick	5R38*255hp	MFWD 190	30,500	200	10	0.175	1.98	4.18	1.33	1.03	8.55	2.97	7.05	18.58
Boll Buggy-2nd pick	6R30*325hp	MFWD 190	30,500	200	10	0.184	2.09	4.41	1.40	1.09	9.00	3.13	7.42	19.57
Boll Buggy-2nd pick	6R38*325hp	MFWD 190	30,500	200	10	0.145	1.65	3.48	1.11	0.86	7.11	2.47	5.86	15.45
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.85	4.74	1.92	1.10	10.61	4.27	7.20	22.09
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.31	3.85	1.56	0.89	8.62	3.47	5.85	17.95
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	1.95	3.24	1.31	0.75	7.26	2.92	4.92	15.11
Boll Buggy-Stripper	4R30*2X1Br	MFWD 150	30,500	200	10	0.218	2.47	4.11	1.66	0.95	9.20	3.70	6.24	19.14
Boll Buggy-Stripper	4R30*Brush	MFWD 150	30,500	200	10	0.327	3.70	6.16	2.49	1.43	13.80	5.55	9.36	28.72
Boll Buggy-Stripper	4R38*2X1Br	MFWD 150	30,500	200	10	0.172	1.95	3.24	1.31	0.75	7.26	2.92	4.92	15.11
Boll Buggy-Stripper	4R38*Brush	MFWD 150	30,500	200	10	0.257	2.92	4.85	1.96	1.12	10.87	4.37	7.37	22.61
Boll Buggy-Stripper	5R30*Brush	MFWD 150	30,500	200	10	0.261	2.96	4.93	1.99	1.14	11.04	4.44	7.49	22.97
Boll Buggy-Stripper	5R38*Brush	MFWD 150	30,500	200	10	0.207	2.34	3.90	1.57	0.90	8.73	3.51	5.92	18.17
Boll Buggy-Stripper	6R30*Brush	MFWD 150	30,500	200	10	0.218	2.47	4.11	1.66	0.95	9.20	3.70	6.24	19.14
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.30	1.88	0.93	0.39	4.53	1.79	2.59	8.92
Chisel Plow(Folding)	24'	MFWD 190	42,200	150	12	0.076	0.86	1.82	1.16	0.45	4.30	2.22	3.07	9.60
Chisel Plow(Folding)	32'	MFWD 225	54,200	150	12	0.057	0.65	1.63	1.13	0.40	3.82	2.15	2.78	8.77
Chisel Plow(Folding)	42'	MFWD 225	65,100	150	12	0.044	0.49	1.24	1.03	0.31	3.08	1.97	2.12	7.18
Chisel Plow(Rigid)	15'	2WD 130	14,700	150	12	0.123	1.39	2.01	0.65	0.42	4.48	1.24	2.76	8.50
Chisel Plow(Rigid)	24'	MFWD 190	11,700	150	12	0.077	0.87	1.83	0.32	0.45	3.49	0.62	3.09	7.20
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	0.99	2.10	0.21	0.39	3.70	0.40	2.67	6.79
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.77	1.93	0.34	0.48	3.54	0.66	3.30	7.51
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	0.99	2.10	0.61	0.39	4.10	1.16	2.67	7.94
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.77	1.93	0.59	0.48	3.78	1.13	3.30	8.22
Corn Grain Cart 8R30	500 bu	MFWD 190	25,700	200	12	0.031	0.36	0.76	0.22	0.18	1.53	0.42	1.28	3.24
Corn Grain Cart 8R40	700bu	MFWD 190	37,300	200	12	0.025	0.28	0.59	0.25	0.14	1.28	0.48	1.00	2.76
Cult & Post	4R-38	2WD 105	21,600	150	10	0.173	2.94	2.28	0.99	0.33	6.56	2.86	2.20	11.63
Cult & Post	6R-30	MFWD 150	25,900	150	10	0.146	4.98	2.76	1.01	0.64	9.40	2.91	4.19	16.50
Cult & Post	6R-38	MFWD 150	26,600	150	10	0.115	1.96	2.18	0.82	0.50	5.47	2.36	3.31	11.14
Cult & Post	8R-30	MFWD 190	31,500	150	10	0.110	1.86	2.62	0.92	0.64	6.06	2.65	4.42	13.14
Cult & Post	8R-38	MFWD 190	34,700	150	10	0.086	1.47	2.07	0.80	0.51	4.87	2.31	3.49	10.67
Cult & Post	8R-38 2x1	MFWD 190	47,900	150	10	0.057	0.98	1.38	0.73	0.34	3.44	2.12	2.32	7.89
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.49	2.48	0.75	0.62	5.35	2.15	4.24	11.76
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.10	1.83	0.00	0.46	3.40	0.00	3.14	6.54
Cult & Post	12R-30	MFWD 225	52,900	150	10	0.073	1.24	2.07	1.03	0.52	4.87	2.97	3.53	11.38
Cult & Post	12R-38	MFWD 225	53,200	150	10	0.057	0.98	1.63	0.82	0.41	3.85	2.36	2.79	9.00
Cultipacker	12'	2WD 130	6,910	300	12	0.124	1.40	2.03	0.20	0.42	4.07	0.30	2.79	7.17
Cultipacker	20'	MFWD 150	17,000	300	12	0.074	0.84	1.40	0.29	0.32	2.87	0.44	2.13	5.46
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	1.83	2.14	0.61	0.31	4.91	1.76	2.06	8.74
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	1.55	2.59	0.67	0.60	5.42	1.94	3.93	11.31
Cultivate	6R-38	MFWD 150	19,300	150	10	0.108	1.22	2.04	0.55	0.47	4.30	1.60	3.10	9.01
Cultivate	8R-30	MFWD 190	24,200	150	10	0.103	1.16	2.46	0.66	0.60	4.90	1.91	4.14	10.96
Cultivate	8R-38	MFWD 190	27,300	150	10	0.081	0.92	1.94	0.59	0.48	3.94	1.70	3.27	8.92
Cultivate	8R-38 2x1	MFWD 190	39,300	150	10	0.054	0.61	1.29	0.56	0.32	2.79	1.63	2.18	6.61
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.93	2.33	0.62	0.58	4.47	1.78	3.98	10.23
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.73	1.83	0.00	0.46	3.03	0.00	3.14	6.17
Cultivate	12R-30	MFWD 225	45,600	150	10	0.068	0.77	1.94	0.83	0.48	4.04	2.40	3.31	9.76
Cultivate	12R-38	MFWD 225	44,600	150	10	0.054	0.61	1.53	0.64	0.38	3.17	1.85	2.62	7.65
Disk & Incorporate	14'	2WD 130	33,200	200	10	0.149	2.54	2.44	1.49	0.51	6.99	2.85	3.36	13.21
Disk & Incorporate	24'	MFWD 190	51,800	200	10	0.087	1.48	2.08	1.35	0.51	5.43	2.59	3.50	11.54

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

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-----							
Disk & Incorporate	32'	4WD 225	66,900	200	10	0.068	1.16	1.94	1.37	0.31	4.80	2.64	2.15	9.60
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.83	1.38	0.44	0.34	3.02	0.86	2.37	6.25
Disk Bed (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	1.67	2.78	0.33	0.64	5.43	0.97	4.22	10.63
Disk Bed (Hipper)	6R-30	MFWD 170	15,100	160	10	0.125	1.41	2.66	0.47	0.60	5.16	1.35	4.11	10.63
Disk Bed (Hipper)	6R-38	MFWD 170	15,200	160	10	0.098	1.11	2.10	0.37	0.47	4.07	1.07	3.25	8.40
Disk Bed (Hipper)	8R-30	MFWD 190	19,500	160	10	0.093	1.06	2.23	0.45	0.55	4.31	1.31	3.76	9.39
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	37,400	160	10	0.049	0.55	1.17	0.46	0.29	2.48	1.32	1.98	5.79
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.84	2.11	0.37	0.53	3.87	1.07	3.62	8.56
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.67	1.67	0.34	0.41	3.10	0.98	2.85	6.93
Disk Bed (Hipper)	12R-30	MFWD 225	34,500	160	10	0.062	0.70	1.76	0.53	0.44	3.45	1.54	3.01	8.02
Disk Bed (Hipper)	12R-38	MFWD 225	37,400	160	10	0.049	0.55	1.39	0.46	0.35	2.76	1.32	2.38	6.47
Disk Bed (Hipper)Fld	8R-38	MFWD 190	27,200	160	10	0.074	0.83	1.76	0.50	0.43	3.54	1.44	2.97	7.97
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	21,000	160	10	0.074	0.83	1.76	0.38	0.43	3.43	1.11	2.97	7.53
Disk Bed w/roller	8R-30	2WD 190	28,300	160	10	0.093	1.06	2.23	0.66	0.41	4.38	1.90	2.85	9.13
Disk Bed w/roller	12R-30	MFWD 225	55,200	160	10	0.062	0.70	1.76	0.86	0.44	3.78	2.47	3.01	9.27
Disk Harrow	14'	2WD 130	25,900	180	10	0.140	1.58	2.29	1.00	0.48	5.37	2.32	3.15	10.84
Disk Harrow	24'	MFWD 190	44,400	180	10	0.081	0.92	1.95	1.00	0.48	4.37	2.32	3.28	9.98
Disk Harrow	28'	MFWD 225	53,800	180	10	0.070	0.79	1.98	1.04	0.49	4.32	2.41	3.38	10.12
Disk Harrow	32'		59,500	180	10	0.061	0.82	0.00	1.01	0.00	0.00	2.33	0.00	0.00
Disk Harrow	42'	MFWD 225	98,700	180	10	0.046	0.52	1.32	1.28	0.33	3.46	2.94	2.25	8.67
Ditcher		2WD 130	6,100	200	10	0.020	0.22	0.32	0.04	0.06	0.67	0.07	0.44	1.19
Ditcher (1m/160a)		2WD 130	6,100	200	10	0.009	0.10	0.15	0.02	0.03	0.31	0.03	0.21	0.55
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.62	2.91	1.33	0.67	7.54	1.63	4.42	13.60
Fert Appl (Liquid)	6R-30	MFWD 170	18,500	150	8	0.130	2.22	2.79	1.61	0.63	7.27	1.97	4.31	13.56
Fert Appl (Liquid)	6R-38	MFWD 170	18,500	150	8	0.103	1.75	2.20	1.27	0.50	5.73	1.56	3.40	10.71
Fert Appl (Liquid)	8R-30	MFWD 190	18,400	150	8	0.098	1.66	2.34	1.20	0.58	5.79	1.47	3.94	11.22
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.31	1.85	0.98	0.45	4.61	1.20	3.12	8.94
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	21,600	150	8	0.051	0.87	1.23	0.74	0.30	3.16	0.91	2.07	6.15
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.33	2.22	0.97	0.55	5.08	1.19	3.79	10.07
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	1.05	1.75	0.83	0.43	4.08	1.02	2.99	8.10
Fert Appl (Liquid)	12R-30	MFWD 225	23,100	150	8	0.078	1.33	2.22	1.20	0.55	5.32	1.48	3.79	10.59
Fert Appl (Liquid)	12R-38	MFWD 225	21,600	150	8	0.051	0.87	1.46	0.74	0.36	3.45	0.91	2.49	6.85
Field Cult & Inc	12'	2WD 150	19,600	100	10	0.132	2.24	2.49	0.64	0.44	5.83	2.97	2.91	11.72
Field Cult & Inc	24'	MFWD 170	30,600	100	10	0.066	1.12	1.41	0.50	0.32	3.36	2.32	2.17	7.86
Field Cult & Inc	32'	MFWD 190	42,900	100	10	0.049	0.84	1.18	0.53	0.29	2.85	2.44	1.99	7.28
Field Cult & Inc	42'	MFWD 225	58,400	100	10	0.037	0.64	1.06	0.55	0.26	2.52	2.53	1.82	6.88
Field Cultivate	12'	2WD 150	12,300	100	10	0.124	1.40	2.34	0.38	0.41	4.55	1.75	2.74	9.06
Field Cultivate	24'	MFWD 170	30,600	100	10	0.062	0.70	1.32	0.47	0.30	2.81	2.18	2.05	7.05
Field Cultivate	32'	MFWD 190	42,900	100	10	0.046	0.52	1.11	0.50	0.27	2.41	2.30	1.87	6.59
Field Cultivate	42'	MFWD 225	58,400	100	10	0.035	0.40	1.00	0.51	0.25	2.17	2.38	1.71	6.28
Field Cultivate	50'	MFWD 225	67,800	100	10	0.029	0.33	0.84	0.50	0.21	1.90	2.32	1.44	5.66
Gate Installer		2WD 130	2,960	10	10	0.020	0.45	0.32	0.17	0.06	1.02	0.65	0.44	2.13
Grain Drill	12'	2WD 130	27,500	150	8	0.157	3.56	2.56	1.62	0.54	8.28	3.38	3.53	15.20
Grain Drill	15'	MFWD 150	33,100	150	8	0.125	2.84	2.36	1.56	0.54	7.32	3.26	3.59	14.18
Grain Drill	20'	MFWD 170	39,400	150	8	0.094	2.13	2.01	1.39	0.45	5.99	2.91	3.10	12.01
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.78	1.87	1.93	0.46	6.05	4.03	3.15	13.24
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.42	1.77	1.50	0.44	5.15	3.14	3.03	11.32
Grain Drill & Pre	12'	2WD 130	34,800	150	8	0.169	3.83	2.76	2.20	0.58	9.38	4.61	3.80	17.80
Grain Drill & Pre	15'	MFWD 150	40,400	150	8	0.135	3.06	2.55	2.05	0.59	8.26	4.28	3.87	16.42
Grain Drill & Pre	20'	MFWD 170	46,700	150	8	0.101	2.30	2.16	1.77	0.49	6.73	3.71	3.34	13.80
Grain Drill & Pre	24'	MFWD 190	73,000	150	8	0.084	1.91	2.01	2.31	0.49	6.75	4.84	3.40	14.99
Grain Drill & Pre	30'	MFWD 225	71,200	150	8	0.067	1.53	1.91	1.80	0.48	5.73	3.77	3.26	12.77
Harrow	13'	2WD 130	4,360	200	10	0.119	1.35	1.95	0.18	0.41	3.89	0.29	2.68	6.88
Harrow	21'	2WD 150	6,750	200	10	0.073	0.83	1.39	0.17	0.24	2.65	0.28	1.63	4.57
Harrow	40'	MFWD 190	20,200	200	10	0.038	0.43	0.92	0.27	0.22	1.86	0.45	1.56	3.88
Harrow	47'	MFWD 190	23,700	200	10	0.033	0.37	0.78	0.27	0.19	1.63	0.45	1.32	3.41
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.71	6.06	1.26	3.38	13.42	2.06	14.36	29.85
Header - Corn	6R30"	240hp	50,800	300	8	0.170	2.30	5.13	2.16	2.86	12.45	3.53	12.15	28.15
Header - Corn	6R38"	240hp	51,400	300	8	0.134	1.81	4.05	1.72	2.26	9.85	2.82	9.59	22.27
Header - Corn	8R-30	240hp	62,000	300	8	0.127	1.72	3.84	1.97	2.14	9.70	3.23	9.11	22.05
Header - Corn	8R-38	275hp	67,000	300	8	0.100	1.36	3.48	1.69	3.70	10.24	2.76	15.70	28.71
Header - Corn	12R-20	275hp	102,000	300	8	0.127	1.72	4.40	3.25	4.68	14.07	5.32	19.86	39.26
Header - Corn	12R-30	275hp	103,000	300	8	0.085	1.15	2.93	2.19	3.12	9.40	3.58	13.24	26.23
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	3.89	8.69	4.64	4.85	22.08	7.59	20.59	50.27
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.42	7.64	4.08	4.27	19.43	6.67	18.12	44.24
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	2.85	7.30	3.91	7.75	21.83	6.40	32.91	61.15
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.37	7.53	4.02	4.20	19.14	6.57	17.85	43.57
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	2.97	6.62	3.54	3.70	16.84	5.78	15.70	38.34
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.47	6.32	3.39	6.72	18.92	5.55	28.52	52.99
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.30	5.13	0.00	2.86	10.29	0.00	12.15	22.45
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	1.91	4.27	0.72	2.38	9.30	1.17	10.13	20.61
Header - Soybean	22' Flex	240hp	33,500	300	8	0.116	1.56	3.49	0.97	1.95	7.99	1.58	8.28	17.87
Header - Soybean	25' Flex	275hp	35,900	300	8	0.102	1.38	3.52	0.91	3.74	9.57	1.49	15.89	26.96
Header - Soybean	30' Flex	275hp	42,400	300	8	0.085	1.15	2.93	0.90	3.12	8.11	1.47	13.24	22.83
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.91	4.27	0.67	2.38	9.25	1.10	10.13	20.49
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.56	3.49	0.57	1.95	7.59	0.93	8.28	16.82
Header Wheat/Sorghum	25' Rigid	240hp	21,000	300	8	0.102	1.38	3.07	0.53	1.71	6.71	0.87	7.29	14.88
Header Wheat/Sorghum	30' Rigid	275hp	25,700	300	8	0.085	1.15	2.93	0.54	3.12	7.75	0.89	13.24	21.89
Header-Cotton-Bcast	13'	173hp	21,300	200	8	0.251	6.25	4.96	1.00	6.68	18.91	3.28	28.38	50.58
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	5.08	4.03	0.91	5.43	15.46	2.98	23.06	41.50
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.28	3.39	0.84	4.57	13.10	2.76	19.42	35.28
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	8.13	6.45	1.25	8.69	24.54	4.11	36.89	65.55
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.42	4.30	1.40	5.79	16.92	4.60	24.59	46.12
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	6.40	5.08	1.64	6.84	19.97	5.37	29.05	54.40

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp. P.U.	Total Direct	--Fixed-- Imp. P.U.	Total Cost		
			dollars	hours	years	hr/ac	-----\$/acre-----							
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	6.50	5.16	2.10	6.95	20.72	6.87	29.51	57.11
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	5.14	4.08	1.72	5.50	16.45	5.62	23.35	45.43
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.42	4.30	2.15	5.79	17.67	7.04	24.59	49.32
Heavy Disk	14'	MFWD 150	25,900	180	10	0.145	1.65	2.74	1.05	0.63	6.09	2.41	4.17	12.68
Heavy Disk	21'	MFWD 170	40,600	180	10	0.097	1.10	2.07	1.09	0.47	4.74	2.52	3.20	10.47
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.85	1.80	1.05	0.44	4.16	2.43	3.04	9.64
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.67	1.13	0.13	0.26	2.20	0.15	1.71	4.07
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.74	5.79	0.29	1.43	10.26	0.83	9.75	20.85
Land Plane	50'x16'	MFWD 190	10,800	200	10	0.151	1.71	3.61	0.32	0.89	6.56	0.94	6.09	13.59
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.66	9.41	2.64	2.18	19.91	3.89	14.30	38.11
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.15	3.58	0.15	0.83	6.72	0.71	5.43	12.87
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.56	1.88	0.07	0.46	2.99	0.19	3.16	6.36
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.69	5.64	0.23	1.39	8.97	0.52	9.50	19.00
Levee Splitter (1/80	2 blade	2WD 150	7,180	50	10	0.004	0.04	0.07	0.00	0.01	0.14	0.06	0.09	0.30
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.64	3.47	0.26	0.85	6.25	0.52	5.85	12.62
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.36	2.26	0.36	0.52	4.51	1.22	3.43	9.17
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.29	2.72	0.55	0.67	5.24	1.89	4.58	11.73
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.02	2.15	0.38	0.53	4.09	1.30	3.62	9.02
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.68	1.43	0.41	0.35	2.88	1.39	2.41	6.69
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.03	2.58	0.62	0.64	4.89	2.13	4.40	11.43
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.81	2.03	0.54	0.51	3.90	1.84	3.47	9.22
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.68	1.69	0.41	0.42	3.21	1.39	2.90	7.51
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	11.77	12.40	4.06	3.06	31.31	9.04	20.88	61.24
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	7.41	7.81	2.84	1.93	20.00	6.31	13.15	39.47
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	7.41	7.81	2.84	1.93	20.00	6.31	13.15	39.47
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	5.84	6.15	2.23	1.52	15.75	4.97	10.36	31.08
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	5.84	6.15	2.23	1.52	15.75	4.97	10.36	31.08
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	3.90	4.11	1.49	1.01	10.52	3.32	6.92	20.77
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	5.93	6.24	2.27	1.54	16.00	5.05	10.52	31.58
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.69	4.94	1.79	1.22	12.66	3.99	8.32	24.98
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	4.94	5.20	1.89	1.28	13.33	4.21	8.77	26.31
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	3.90	4.11	1.49	1.01	10.52	3.32	6.92	20.77
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	9.97	10.50	3.81	2.59	26.89	8.49	17.69	53.08
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	6.28	6.61	2.40	1.63	16.94	5.35	11.14	33.44
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	6.28	6.61	2.40	1.63	16.94	5.35	11.14	33.44
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	4.94	5.21	1.89	1.28	13.34	4.21	8.77	26.33
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	4.94	5.21	1.89	1.28	13.34	4.21	8.77	26.33
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.30	3.48	1.26	0.86	8.91	2.81	5.86	17.60
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	5.02	5.29	1.92	1.31	13.55	4.28	8.91	26.75
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	3.97	4.18	1.52	1.03	10.72	3.38	7.05	21.16
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	4.18	4.41	1.60	1.09	11.29	3.56	7.43	22.29
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	3.30	3.48	1.26	0.86	8.91	2.81	5.86	17.60
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.70	4.74	2.18	1.10	13.73	4.86	7.20	25.80
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.63	3.85	1.77	0.89	11.16	3.94	5.85	20.96
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	3.90	3.24	1.49	0.75	9.39	3.32	4.92	17.65
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	7.41	6.16	2.84	1.43	17.85	6.31	9.36	33.54
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	4.94	4.11	1.89	0.95	11.90	4.21	6.24	22.35
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.84	4.85	2.23	1.12	14.06	4.97	7.37	26.40
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	3.90	3.24	1.49	0.75	9.39	3.32	4.92	17.65
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.93	4.93	2.27	1.14	14.28	5.05	7.49	26.83
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.69	3.90	1.79	0.90	11.30	3.99	5.92	21.22
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.94	4.11	1.89	0.95	11.90	4.21	6.24	22.35
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.77	1.92	0.00	0.48	3.17	0.00	3.28	6.46
NT Grain Drill	12'	2WD 130	46,100	150	8	0.163	3.70	2.67	2.82	0.56	9.77	5.91	3.67	19.36
NT Grain Drill	15'	MFWD 150	55,500	150	8	0.130	2.96	2.46	2.72	0.57	8.73	5.69	3.74	18.17
NT Grain Drill	20'	MFWD 170	65,100	150	8	0.098	2.22	2.09	2.39	0.47	7.19	5.01	3.23	15.44
NT Grain Drill	24'	MFWD 190	90,400	150	8	0.081	1.85	1.95	2.77	0.48	7.06	5.79	3.28	16.15
NT Grain Drill	30'	MFWD 225	103,000	150	8	0.065	1.48	1.85	2.52	0.46	6.32	5.28	3.16	14.77
NT Grain Drill & Pre	12'	2WD 130	55,200	150	8	0.176	3.99	2.87	3.64	0.60	11.12	7.62	3.96	22.71
NT Grain Drill & Pre	15'	MFWD 150	55,500	150	8	0.141	3.19	2.65	2.93	0.61	9.40	6.13	4.03	19.57
NT Grain Drill & Pre	20'	MFWD 170	65,100	150	8	0.105	2.39	2.25	2.58	0.51	7.74	5.39	3.48	16.63
NT Grain Drill & Pre	24'	MFWD 190	90,400	150	8	0.088	1.99	2.10	2.98	0.52	7.60	6.24	3.54	17.39
NT Grain Drill & Pre	30'	MFWD 225	110,700	150	8	0.070	1.59	1.99	2.92	0.50	7.01	6.11	3.40	16.53
NT Plant&Pre-Folding	8R-38	MFWD 170	67,100	150	8	0.083	1.89	1.78	2.10	0.40	6.18	4.39	2.75	13.34
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	99,600	150	8	0.055	1.26	1.18	2.07	0.26	4.79	4.34	1.83	10.97
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.91	2.01	1.82	0.49	6.26	3.81	3.40	13.48
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.51	1.59	1.32	0.39	4.82	2.76	2.68	10.27
NT Plant&Pre-Folding	12R-20	MFWD 190	83,300	150	8	0.105	2.39	2.52	3.30	0.62	8.84	6.90	4.25	20.00
NT Plant&Pre-Folding	12R-30	MFWD 190	8,600	150	8	0.070	1.59	1.68	0.22	0.41	3.92	0.47	2.83	7.23
NT Plant&Pre-Folding	12R-38	MFWD 190	99,600	150	8	0.055	1.26	1.32	2.07	0.32	4.99	4.34	2.23	11.58
NT Plant&Pre-Folding	16R-30	MFWD 190	129,000	150	8	0.052	1.19	1.26	2.55	0.31	5.33	5.34	2.12	12.80
NT Plant&Pre-Folding	23R-15	MFWD 190	163,000	150	8	0.073	1.66	1.75	4.48	0.43	8.34	9.38	2.95	20.67
NT Plant&Pre-Folding	24R-20	MFWD 190	182,000	150	8	0.052	1.19	1.26	3.60	0.31	6.38	7.54	2.12	16.05
NT Plant&Pre-Folding	24R-30	MFWD 190	208,000	150	8	0.035	0.79	0.84	2.74	0.20	4.59	5.74	1.41	11.76
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	4.79	3.45	2.74	0.72	11.71	5.73	4.75	22.20
NT Plant&Pre-Rigid	4R-38	2WD 130	35,600	150	8	0.166	3.77	2.71	2.22	0.57	9.29	4.64	3.74	17.68
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,700	150	8	0.141	3.19	2.65	2.31	0.61	8.78	4.83	4.03	17.64
NT Plant&Pre-Rigid	6R-38	MFWD 150	42,900	150	8	0.111	2.52	2.09	1.79	0.48	6.89	3.74	3.18	13.82
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	3.26	3.07	1.41	0.69	8.44	2.95	4.74	16.14
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,300	150	8	0.105	2.39	2.25	2.15	0.51	7.32	4.50	3.48	15.30
NT Plant&Pre-Rigid	8R-38	MFWD 170	51,700	150	8	0.077	1.74	1.64	1.49	0.37	5.26	3.12	2.54	10.93
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	1.91	2.01	1.64	0.49	6.08	3.44	3.40	12.92

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	P.U.	Total Direct	---Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,900	150	8	0.105	2.39	2.52	2.61	0.62	8.15	5.46	4.25	17.87
NT Plant&Pre-Rigid	12R-30	MFWD 190	75,300	150	8	0.070	1.59	1.68	1.99	0.41	5.68	4.16	2.83	12.68
NT Plant-Folding	8R-38	MFWD 170	59,700	150	8	0.077	1.75	1.65	1.73	0.37	5.53	3.63	2.55	11.72
NT Plant-Folding	8R-38 2x1	MFWD 170	91,000	150	8	0.051	1.17	1.10	1.76	0.25	4.28	3.68	1.70	9.68
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.78	1.87	1.53	0.46	5.65	3.20	3.15	12.01
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.40	1.47	1.10	0.36	4.35	2.31	2.49	9.16
NT Plant-Folding	12R-20	MFWD 190	75,900	150	8	0.098	2.22	2.34	2.79	0.58	7.94	5.84	3.94	17.73
NT Plant-Folding	12R-30	MFWD 190	81,000	150	8	0.065	1.48	1.56	1.98	0.38	5.42	4.15	2.63	12.21
NT Plant-Folding	12R-38	MFWD 190	91,000	150	8	0.051	1.17	1.23	1.76	0.30	4.47	3.68	2.07	10.23
NT Plant-Folding	16R-30	MFWD 190	120,000	150	8	0.049	1.11	1.17	2.20	0.29	4.78	4.61	1.97	11.37
NT Plant-Folding	23R-15	MFWD 190	155,000	150	8	0.068	1.54	1.62	3.96	0.40	7.54	8.28	2.74	18.56
NT Plant-Folding	24R-20	MFWD 190	174,000	150	8	0.049	1.11	1.17	3.20	0.29	5.77	6.69	1.97	14.44
NT Plant-Folding	24R-30	MFWD 190	194,000	150	8	0.032	0.74	0.78	2.38	0.19	4.09	4.97	1.31	10.39
NT Plant-Rigid	4R-30	2WD 130	27,200	150	8	0.196	4.45	3.20	2.00	0.67	10.33	4.18	4.41	18.93
NT Plant-Rigid	4R-38	2WD 130	28,200	150	8	0.154	3.50	2.52	1.63	0.53	8.19	3.41	3.47	15.09
NT Plant-Rigid	6R-30	MFWD 150	36,300	150	8	0.130	2.96	2.46	1.78	0.57	7.78	3.72	3.74	15.26
NT Plant-Rigid	6R-38	MFWD 150	35,600	150	8	0.103	2.34	1.94	1.38	0.45	6.12	2.88	2.95	11.96
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	3.02	2.85	1.05	0.64	7.58	2.21	4.40	14.20
NT Plant-Rigid	8R-30	MFWD 170	46,900	150	8	0.098	2.22	2.09	1.72	0.47	6.52	3.61	3.23	13.37
NT Plant-Rigid	8R-38	MFWD 170	44,300	150	8	0.077	1.75	1.65	1.28	0.37	5.08	2.69	2.55	10.33
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.78	1.87	1.37	0.46	5.48	2.86	3.15	11.51
NT Plant-Rigid	12R-20	MFWD 190	58,600	150	8	0.098	2.22	2.34	2.15	0.58	7.30	4.51	3.94	15.76
NT Plant-Rigid	12R-30	MFWD 190	70,700	150	8	0.065	1.48	1.56	1.73	0.38	5.16	3.62	2.63	11.42
Paratill & Bed	4R-30	MFWD 225	12,300	150	12	0.204	2.31	5.77	0.90	1.44	10.44	1.73	9.86	22.04
Paratill & Bed	4R-38	MFWD 225	12,300	150	12	0.160	1.82	4.54	0.71	1.14	8.22	1.36	7.76	17.35
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.54	3.84	0.85	0.96	7.21	1.62	6.57	15.40
Paratill & Bed	6R-38	MFWD 225	17,200	150	12	0.107	1.21	3.03	0.66	0.76	5.68	1.27	5.19	12.15
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.15	2.88	0.83	0.72	5.60	1.59	4.93	12.12
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.60	1.51	1.34	0.38	3.85	2.56	2.59	9.00
Paratill & Bed Fold.	8R-38	MFWD 225	54,400	150	12	0.080	0.91	2.28	1.58	0.57	5.35	3.02	3.89	12.28
Paratill & Bed Fold.	12R-38	MFWD 225	69,100	150	12	0.053	0.60	1.51	1.34	0.38	3.85	2.56	2.59	9.00
Paratill & Bed Rigid	8R-38	MFWD 225	22,600	150	12	0.080	0.91	2.28	0.65	0.57	4.42	1.25	3.89	9.58
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.58	0.97	0.00	0.17	1.74	0.02	1.14	2.91
Pipe Spool 160ac	1/4m roll	2WD 130	5,400	15	12	0.003	0.09	0.05	0.00	0.01	0.16	0.11	0.07	0.34
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.17	0.06	0.00	0.01	0.25	0.00	0.08	0.34
Plant & Pre Folding	8R-38	MFWD 170	59,900	150	8	0.080	1.81	1.71	1.80	0.38	5.72	3.76	2.64	12.13
Plant & Pre Folding	8R38 2x1	MFWD 170	88,900	150	8	0.053	1.21	1.14	1.78	0.25	4.39	3.72	1.76	9.87
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.84	1.93	1.58	0.47	5.83	3.30	3.26	12.40
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.45	1.52	1.15	0.37	4.51	2.42	2.57	9.51
Plant & Pre Folding	12R-20	MFWD 190	72,600	150	8	0.101	2.30	2.42	2.76	0.59	8.08	5.77	4.08	17.94
Plant & Pre Folding	12R-30	MFWD 190	78,900	150	8	0.067	1.53	1.61	2.00	0.39	5.55	4.18	2.72	12.45
Plant & Pre Folding	12R-38	MFWD 190	88,900	150	8	0.053	1.21	1.27	1.78	0.31	4.58	3.72	2.14	10.45
Plant & Pre Folding	16R-30	MFWD 190	115,000	150	8	0.050	1.15	1.21	2.18	0.29	4.85	4.57	2.04	11.46
Plant & Pre Folding	23R-15	MFWD 190	143,000	150	8	0.070	1.59	1.68	3.78	0.41	7.47	7.90	2.83	18.21
Plant & Pre Folding	24R-20	MFWD 190	161,000	150	8	0.050	1.15	1.21	3.06	0.29	5.72	6.40	2.04	14.17
Plant & Pre Folding	24R-30	MFWD 190	186,000	150	8	0.033	0.76	0.80	2.36	0.19	4.13	4.93	1.36	10.42
Plant & Pre Rigid	4R-30	2WD 130	31,000	150	8	0.203	4.60	3.31	2.36	0.69	10.97	4.93	4.56	20.47
Plant & Pre Rigid	4R-38	2WD 130	32,000	150	8	0.159	3.62	2.61	1.91	0.54	8.70	4.01	3.59	16.30
Plant & Pre Rigid	6R-30	MFWD 150	38,300	150	8	0.135	3.06	2.55	1.94	0.59	8.15	4.06	3.87	16.09
Plant & Pre Rigid	6R-38	MFWD 150	37,600	150	8	0.106	2.42	2.01	1.50	0.46	6.41	3.14	3.05	12.61
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	3.13	2.94	1.22	0.66	7.96	2.55	4.55	15.07
Plant & Pre Rigid	8R-30	MFWD 170	47,100	150	8	0.101	2.30	2.16	1.79	0.49	6.75	3.74	3.34	13.84
Plant & Pre Rigid	8R-38	MFWD 170	44,600	150	8	0.080	1.81	1.71	1.34	0.38	5.26	2.80	2.64	10.71
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.84	1.93	1.40	0.47	5.66	2.92	3.26	11.85
Plant & Pre Rigid	12R-20	MFWD 190	55,200	150	8	0.101	2.30	2.42	2.10	0.59	7.42	4.39	4.08	15.89
Plant & Pre Rigid	12R-30	MFWD 190	68,600	150	8	0.067	1.53	1.61	1.74	0.39	5.29	3.63	2.72	11.65
Plant - Folding	8R-38	MFWD 170	52,600	150	8	0.074	1.68	1.59	1.47	0.36	5.11	3.07	2.45	10.64
Plant - Folding	8R-38 2x1	MFWD 170	80,200	150	8	0.049	1.12	1.05	1.49	0.24	3.91	3.11	1.63	8.67
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.70	1.79	1.34	0.44	5.29	2.80	3.03	11.13
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.34	1.41	0.95	0.35	4.07	2.00	2.39	8.47
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.13	2.24	2.30	0.55	7.24	4.81	3.78	15.85
Plant - Folding	12R-30	MFWD 190	70,300	150	8	0.062	1.42	1.49	1.65	0.37	4.95	3.46	2.52	10.94
Plant - Folding	12R-38	MFWD 190	80,200	150	8	0.049	1.12	1.18	1.49	0.29	4.09	3.11	1.99	9.20
Plant - Folding	16R-30	MFWD 190	106,000	150	8	0.047	1.06	1.12	1.87	0.27	4.34	3.91	1.89	10.15
Plant - Folding	23R-15	MFWD 190	134,000	150	8	0.065	1.48	1.56	3.29	0.38	6.72	6.87	2.63	16.23
Plant - Folding	24R-20	MFWD 190	152,000	150	8	0.047	1.06	1.12	2.68	0.27	5.15	5.61	1.89	12.66
Plant - Folding	24R-30	MFWD 190	178,000	150	8	0.031	0.71	0.74	2.09	0.18	3.74	4.38	1.26	9.39
Plant - Rigid	4R-30	2WD 130	23,600	150	8	0.188	4.27	3.07	1.66	0.64	9.66	3.48	4.23	17.39
Plant - Rigid	4R-38	2WD 130	24,700	150	8	0.148	3.36	2.42	1.37	0.51	7.67	2.87	3.33	13.88
Plant - Rigid	6R-30	MFWD 150	30,900	150	8	0.125	2.84	2.36	1.45	0.55	7.22	3.04	3.59	13.86
Plant - Rigid	6R-38	MFWD 150	30,200	150	8	0.099	2.24	1.86	1.12	0.43	5.67	2.34	2.83	10.86
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	2.89	2.73	0.88	0.61	7.13	1.85	4.21	13.20
Plant - Rigid	8R-30	MFWD 170	39,800	150	8	0.094	2.13	2.01	1.40	0.45	6.01	2.94	3.10	12.06
Plant - Rigid	8R-38	MFWD 170	37,200	150	8	0.074	1.68	1.59	1.03	0.36	4.68	2.17	2.45	9.31
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.70	1.79	1.15	0.44	5.10	2.40	3.03	10.54
Plant - Rigid	12R-20	MFWD 190	47,900	150	8	0.094	2.13	2.24	1.69	0.55	6.63	3.53	3.78	13.96
Plant - Rigid	12R-30	MFWD 190	60,000	150	8	0.062	1.42	1.49	1.41	0.37	4.70	2.95	2.52	10.19
Plant - Rigid	15R-15	2WD 150	58,900	150	8	0.094	2.13	1.77	2.08	0.31	6.31	4.35	2.08	12.74
Pull Levee (1m/80a)	4 blade	2WD 50	3,180	100	10	0.003	0.04	0.02	0.00	0.00	0.06	0.01	0.01	0.09
Roller	32'	MFWD 170	22,800	100	12	0.046	0.52	0.99	0.17	0.22	1.92	1.09	1.53	4.56
Rotary Cutter	7'	MFWD 130	5,280	185	10	0.168	1.90	2.74	0.72	0.65	6.03	0.55	4.29	10.88
Rotary Cutter	12'	2WD 150	12,100	185	10	0.098	1.11	1.85	0.96	0.33	4.25	0.73	2.16	7.16
Rotary Cutter	15'	MFWD 150	22,100	185	10	0.078	0.89	1.48	1.40	0.34	4.12	1.07	2.24	7.44

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	P.U.	Total Direct	---Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Row Cond & Inc	13'	2WD 130	16,900	100	10	0.137	2.34	2.25	0.58	0.47	5.65	2.68	3.10	11.43
Row Cond & Inc	21'	2WD 170	20,800	100	10	0.085	1.45	1.82	0.44	0.41	4.13	2.04	2.83	9.01
Row Cond & Inc	26'	MFWD 190	24,000	100	10	0.063	1.07	1.51	0.38	0.37	3.34	1.74	2.54	7.64
Row Cond & Inc	38'	MFWD 225	29,600	100	10	0.047	0.80	1.33	0.34	0.33	2.81	1.60	2.27	6.70
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.68	1.13	0.20	0.28	2.30	0.94	1.93	5.19
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.30	1.87	0.20	0.39	3.78	0.96	2.58	7.32
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.80	1.51	0.21	0.34	2.88	0.98	2.35	6.22
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.65	1.37	0.17	0.33	2.53	0.81	2.30	5.66
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.44	1.11	0.21	0.27	2.05	1.00	1.89	4.95
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.40	1.00	0.13	0.25	1.79	0.63	1.71	4.15
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.78	2.56	0.27	0.54	5.16	1.28	3.53	9.98
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.10	2.07	0.28	0.47	3.93	1.30	3.22	8.47
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.89	1.87	0.24	0.46	3.47	1.12	3.15	7.75
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.60	1.51	0.22	0.38	2.73	1.02	2.59	6.35
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.55	1.37	0.18	0.34	2.46	0.87	2.34	5.68
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.16	2.20	1.02	0.50	4.89	1.13	3.42	9.45
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.77	1.64	0.98	0.30	3.71	1.09	2.09	6.90
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.46	2.75	1.28	0.62	6.12	1.42	4.27	11.82
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	0.97	2.05	1.23	0.38	4.64	1.37	2.61	8.62
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.86	2.07	1.09	0.37	5.40	1.21	2.42	9.04
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.24	2.07	1.05	0.52	4.89	1.16	3.53	9.60
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.33	2.93	1.73	0.67	7.67	1.91	4.56	14.15
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.55	2.18	1.55	0.40	5.71	1.72	2.78	10.23
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.36	2.26	1.43	0.52	5.60	0.51	3.44	9.56
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.36	2.26	0.68	0.52	4.83	0.88	3.43	9.14
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.36	2.26	0.58	0.52	4.73	0.73	3.43	8.90
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.36	2.26	0.69	0.52	4.83	0.89	3.43	9.16
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.36	2.26	0.46	0.52	4.61	0.60	3.43	8.65
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.36	2.86	1.11	0.70	6.04	1.42	4.82	12.29
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	9.93	16.52	2.55	3.83	32.86	2.52	25.08	60.47
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.36	2.26	0.25	0.52	4.40	0.30	3.43	8.13
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.69	1.97	0.24	0.32	4.24	0.43	2.12	6.80
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	11.33	18.83	8.43	4.37	42.98	19.42	28.60	91.00
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.59	12.62	3.68	2.93	26.82	8.48	19.16	54.47
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.26	1.25	5.10	0.13	8.75	11.73	0.88	21.37
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.59	12.62	3.68	2.93	26.82	8.48	19.16	54.47
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	6.23	10.36	0.62	2.40	19.62	0.94	14.30	34.86
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.47	12.43	5.33	2.88	28.13	4.34	17.16	49.63
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.49	5.24	0.96	1.29	9.99	1.25	8.83	20.09
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.36	2.86	0.49	0.70	5.42	1.37	4.82	11.62
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.24	1.45	0.29	0.23	3.23	0.50	1.55	5.29
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.24	2.34	0.39	0.53	4.52	0.58	3.64	8.76
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.58	2.63	0.32	0.47	5.02	0.48	3.09	8.60
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.69	0.94	0.56	0.10	3.30	0.82	0.66	4.79
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.13	2.38	0.77	0.59	4.87	1.13	4.01	10.03
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.79	1.49	0.64	0.34	3.27	0.95	2.32	6.55
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.13	2.13	0.40	0.48	4.16	0.60	3.31	8.08
SC Double Hitch	DBLHTCH	2WD 50	0	1000	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SC Drain Cleaner	6 ft	MFWD 75	3,750	300	9	0.080	0.90	0.75	0.13	0.10	1.89	0.14	0.65	2.68
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.47	2.44	0.36	0.56	4.85	0.59	3.71	9.16
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.67	1.13	0.22	0.26	2.30	0.33	1.71	4.35
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.15	3.58	0.47	0.83	7.04	0.49	5.43	12.97
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	11.33	28.25	0.13	4.59	44.31	0.20	31.27	75.79
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.40	5.65	0.66	1.31	11.03	1.50	8.58	21.13
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.83	4.70	3.12	1.09	11.76	4.06	7.15	22.97
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.90	1.30	0.41	0.27	2.89	0.54	1.79	5.24
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.83	2.35	0.51	0.31	6.01	1.51	2.04	9.57
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.49	5.24	3.51	1.29	12.54	3.80	8.83	25.19
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	11.33	13.18	0.86	2.16	27.54	3.51	14.15	45.21
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.24	1.45	0.04	0.23	2.98	0.06	1.55	4.60
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	11.33	16.32	0.23	3.43	31.32	1.00	22.47	54.80
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	11.33	18.83	7.26	4.37	41.80	12.59	28.60	83.00
Spin Spreader	5 ton	MFWD 190	12,900	100	8	0.042	0.95	1.00	0.30	0.24	2.51	0.66	1.69	4.86
Spin Spreader	5 ton	MFWD 190	12,900	100	8	0.042	0.95	1.00	0.30	0.24	2.51	0.66	1.69	4.86
Spray (Band)	27'	MFWD 170	7,400	200	8	0.062	1.06	1.33	0.21	0.30	2.92	0.28	2.06	5.27
Spray (Band)	40'	MFWD 170	8,600	200	8	0.042	0.71	0.90	0.17	0.20	1.99	0.22	1.39	3.61
Spray (Band)	50'	MFWD 170	13,700	200	8	0.033	0.57	0.72	0.21	0.16	1.67	0.28	1.11	3.07
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.54	0.68	0.14	0.15	1.52	0.19	1.05	2.77
Spray (Band)	60'	MFWD 170	15,600	200	8	0.028	0.47	0.60	0.20	0.13	1.42	0.26	0.92	2.62
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,900	200	8	0.130	2.21	2.45	0.42	0.56	5.65	0.55	3.72	9.92
Spray (Bcast/HB)	20' Rigid	2WD 50	8,100	200	8	0.084	1.43	0.53	0.32	0.05	2.34	0.42	0.37	3.14
Spray (Bcast/HB)	27' Fold	MFWD 170	15,400	200	8	0.062	1.06	1.33	0.45	0.30	3.15	0.59	2.06	5.81

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, (Continued) and direct and fixed cost per acre, Louisiana 2020.

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	9,800	200	8	0.062	1.06	1.33	0.28	0.30	2.99	0.37	2.06	5.43
Spray (Bcast/HB)	30' Fold	MFWD 170	18,930	200	8	0.056	0.95	1.20	0.50	0.27	2.93	0.65	1.85	5.45
Spray (Bcast/HB)	40' Fold	MFWD 170	22,000	200	8	0.042	0.71	0.90	0.43	0.20	2.26	0.57	1.39	4.22
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.06	1.33	0.65	0.30	3.36	0.86	2.06	6.29
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.71	0.90	0.63	0.20	2.46	0.83	1.39	4.69
Spray (Broadcast)	27'	MFWD 170	7,400	200	8	0.062	1.06	1.33	0.21	0.30	2.92	0.28	2.06	5.27
Spray (Broadcast)	40'	MFWD 170	8,600	200	8	0.042	0.71	0.90	0.17	0.20	1.99	0.22	1.39	3.61
Spray (Broadcast)	50'	MFWD 170	13,700	200	8	0.033	0.57	0.72	0.21	0.16	1.67	0.28	1.11	3.07
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.54	0.68	0.14	0.15	1.52	0.19	1.05	2.77
Spray (Broadcast)	60'	MFWD 170	15,600	200	8	0.028	0.47	0.60	0.20	0.13	1.42	0.26	0.92	2.62
Spray (Direct/Hood)	8R-30	MFWD 170	20,400	200	8	0.084	1.43	1.80	0.80	0.40	4.46	1.05	2.78	8.31
Spray (Direct/Hood)	8R-38	MFWD 170	21,900	200	8	0.066	1.13	1.42	0.68	0.32	3.57	0.89	2.20	6.67
Spray (Direct/Hood)	12R-30	MFWD 170	25,300	200	8	0.056	0.95	1.20	0.66	0.27	3.10	0.87	1.85	5.83
Spray (Direct/Hood)	12R-38	MFWD 170	27,100	200	8	0.044	0.75	0.95	0.56	0.21	2.48	0.73	1.46	4.69
Spray (Direct/Layby)	8R-30	MFWD 170	11,300	200	8	0.084	1.43	1.80	0.44	0.40	4.10	0.58	2.78	7.47
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.13	1.42	0.35	0.32	3.24	0.46	2.20	5.91
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,900	200	8	0.044	0.75	0.95	0.31	0.21	2.23	0.40	1.46	4.10
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.15	1.44	0.38	0.32	3.31	0.50	2.23	6.04
Spray (Direct/Layby)	12R-30	MFWD 170	14,900	200	8	0.056	0.95	1.20	0.39	0.27	2.83	0.51	1.85	5.20
Spray (Direct/Layby)	12R-38	MFWD 170	14,900	200	8	0.044	0.75	0.95	0.31	0.21	2.23	0.40	1.46	4.10
Spray (Direct/Layby)	16R-20	MFWD 170	22,300	200	8	0.063	1.07	1.35	0.66	0.30	3.39	0.86	2.08	6.35
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.06	1.33	0.21	0.30	2.92	0.28	2.06	5.27
Spray (Spot)	40'	MFWD 170	8,600	200	8	0.042	0.71	0.90	0.17	0.20	1.99	0.22	1.39	3.61
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.57	0.72	0.21	0.16	1.67	0.28	1.11	3.07
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.54	0.68	0.14	0.15	1.52	0.19	1.05	2.77
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.47	0.60	0.20	0.13	1.42	0.26	0.92	2.62
Stalk Shredder	14'	MFWD 150	14,500	200	10	0.117	1.33	2.22	1.49	0.51	5.56	0.98	3.37	9.92
Stalk Shredder	20'	MFWD 150	30,700	200	10	0.082	0.93	1.55	2.21	0.36	5.06	1.45	2.35	8.88
Stalk Shredder-Flail	12'	MFWD 150	20,500	200	10	0.137	1.55	2.59	2.46	0.60	7.21	1.62	3.93	12.76
Stalk Shredder-Flail	20'	MFWD 150	30,100	200	10	0.082	0.93	1.55	2.17	0.36	5.02	1.42	2.35	8.81
Subsoiler	3 shank	MFWD 190	5,920	100	15	0.204	2.31	4.87	0.40	1.20	8.80	1.11	8.21	18.12
Subsoiler	4 shank	MFWD 225	9,830	100	15	0.153	1.74	4.34	0.50	1.08	7.67	1.38	7.41	16.48
Subsoiler	5 shank	MFWD 225	13,900	100	15	0.122	1.38	3.45	0.56	0.86	6.27	1.56	5.90	13.75
Subsoiler low-till	4 shank	MFWD 225	9,830	100	15	0.153	1.74	4.34	0.50	1.08	7.67	1.38	7.41	16.48
Subsoiler low-till	6 shank	MFWD 225	15,300	100	15	0.102	1.15	2.88	0.52	0.72	5.29	1.43	4.93	11.66
Subsoiler low-till	8 shank	MFWD 225	22,000	100	15	0.076	0.86	2.16	0.56	0.54	4.13	1.54	3.69	9.37
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.82	4.54	0.83	1.14	8.34	1.58	7.76	17.69
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.21	3.03	0.75	0.76	5.77	1.43	5.19	12.40
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.31	5.77	1.05	1.44	10.59	2.01	9.86	22.47
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.54	3.84	0.75	0.96	7.11	1.43	6.57	15.12