Projected Costs and Returns Crop Enterprise Budgets for Corn Production in Louisiana, 2022

Michael A. Deliberto and Brian M. Hilbun

Farm Management Research & Extension
Department of Agricultural Economics & Agribusiness
Louisiana State University Agricultural Center
Agricultural Economics Information Report Series No. 359 - January 2022

January 2022 Agricultural Economics Information Report Series No. 359

PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR CORN PRODUCTION IN LOUISIANA, 2022

by

Michael A. Deliberto and Brian M. Hilbun

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

TABLE OF CONTENTS

PROJECTED COSTS AND RETURNS CROP ENTERPRISE BUDGETS FOR CORN PRODUCTION IN LOUISIANA, 2022

by

Michael A. Deliberto and Brian M. Hilbun [1]
[1] Assistant Professor and Research Associate
Department of Agricultural Economics and Agribusiness, LSU Agricultural Center, Baton Rouge, LA.

Introduction

This publication presents estimates of projected costs and returns for corn production in Louisiana for the 2022 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 2022 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 2022 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 $11.88 per hour for all classes of labor except for harvest machinery and laser leveling operator labor. This wage rate include a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. Operator labor was charged at $15.30 per hour, which includes a basic wage rate plus additional costs for social security, Medicare, and workman's compensation. The higher wage rate was charged for these classes of operators because of the relatively higher skills required to run these types of machinery and the general consensus that these operators are generally twelve month (salaried) employees i.e. foremen. Farm labor may not be generally available on an hourly basis; however, an hourly charge represents a practical method for charging labor to the respective crop enterprises on a per acre basis.

Interest on operating capital (short term) was charged at a nominal rate of 3.50% per year. Operating capital was assumed to be borrowed in a manner consistent with timely acquisition of inputs. Fuel price for diesel was $2.84 per gallon. Variable costs for tractors, self-propelled machinery, and irrigation machinery include the cost of fuel, lubrication, and repair.

The intermediate term interest rate was charged at an historical real rate of 4.50%. The reasoning behind the difference in short and intermediate term rates is that longer term nominal rates are highly variable and closely follow the trend set by the rate of inflation. Intermediate term interest rates above the real rate of interest can overstate true interest costs because they overlook the value gained by an asset due solely to inflation.

Farm Machinery Costs

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

Overhead Costs

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

Land and Management Charges

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

Acknowledgments

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

Internet Access

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

Table 1.A Estimated costs per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_________
App by Air (3 gal)	appl	5.60	1.0000	5.60	_________
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	_________
LA Potash	lb	0.58	60.0000	34.80	_________
LA Nitrogen	lb	0.76	180.0000	136.80	_________
Haul Corn	bu	0.23	160.0000	36.80	_________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	_________
2,4-D Amine 4	pt	1.81	1.0000	1.81	_________
Valor WP	oz	4.38	1.0000	4.38	_________
Roundup WeatherMax	oz	0.19	66.0000	12.54	_________
Atrazine 4L	pt	2.25	5.0000	11.25	_________
Select 2EC	oz	0.69	6.0000	4.14	_________
INSECTICIDES					
Karate Z	oz	1.41	2.1300	3.00	_________
Intrepid 2F	oz	1.94	6.0000	11.64	_________
Baythroid 2	oz	2.58	2.1300	5.50	_________
SEED/PLANTS					
Corn Seed RR	thous	3.38	32.0000	108.16	_________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	_________
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
Soil Test	acre	10.00	0.3300	3.30	_________
OPERATOR LABOR					
Harvesters	hour	15.30	0.1344	2.06	_________
LA Hired Labor					
Implements	hour	11.88	0.1611	1.91	_________
Tractors	hour	11.88	0.5819	6.91	_________
DIESEL FUEL					
Tractors	gal	2.84	5.3318	15.15	_________
Harvesters	gal	2.84	1.6602	4.71	_________
REPAIR & MAINTENANCE					
Implements	Acre	9.05	1.0000	9.05	_________
Tractors	Acre	3.33	1.0000	3.33	_________
Harvesters	Acre	2.26	1.0000	2.26	_________
INTEREST ON OP. CAP.	Acre	10.32	1.0000	10.32	_________

TOTAL DIRECT EXPENSES				551.19	_________
FIXED EXPENSES					
Implements	Acre	12.71	1.0000	12.71	_________
Tractors	Acre	19.55	1.0000	19.55	_________
Harvesters	Acre	8.39	1.0000	8.39	_________

TOTAL FIXED EXPENSES				40.65	_________

TOTAL SPECIFIED EXPENSES				591.84	________

Table 1.B Estimated resource use and costs for field operations, per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.54	2.81	0.36	0.90	0.07	0.88				7.49
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.40	2.43	1.38	2.44	0.16	1.90				10.55
Corn Seed RR	thous											32.0000	3.38	108.16	108.16
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.66	2.95	1.17	1.23	0.11	1.38				9.39
LA Nitrogen	lb											150.0000	0.76	114.00	114.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
Karate Z	oz											2.1300	1.41	3.00	3.00
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
Intrepid 2F	oz											6.0000	1.94	11.64	11.64
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.97	8.39	1.81	2.53	0.13	2.06				21.76
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu			1.00	Aug							160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
TOTALS						25.45	27.94	9.05	12.71	0.87	10.88			495.49	581.52
INTEREST ON OPERATING CAPITAL															10.32
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															591.84

Table 1.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE									
Corn			2.43	2.58	2.74	2.94	3.17	3.44	3.78	4.19	4.73	5.45	6.46
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-322	-310	-297	-281	-263	-241	-214	-181	-138	-80	0
			-362	-351	-338	-322	-304	-282	-255	-221	-178	-121	-40
60	96.00	bu	-289	-276	-260	-241	-219	-193	-161	-120	-69	0	96
			-330	-316	-300	-282	-260	-233	-201	-161	-109	-40	55
70	112.00	bu	-257	-241	-223	-201	-175	-144	-107	-60	0	80	193
			-298	-282	-263	-241	-216	-185	-148	-101	-40	39	152
80	128.00	bu	-225	-207	-185	-161	-131	-96	-53	0	69	161	289
			-266	-247	-226	-201	-172	-137	-94	-40	28	120	249
90	144.00	bu	-193	-172	-148	-120	-87	-48	0	60	138	241	386
			-233	-213	-189	-161	-128	-88	-40	19	97	200	345
100	160.00	bu	-161	-138	-111	-80	-43	0	53	120	207	322	483
			-201	-178	-152	-121	-84	-40	13	80	166	281	442
110	176.00	bu	-128	-103	-74	-40	0	48	107	181	276	402	579
			-169	-144	-114	-80	-40	7	66	140	235	362	539
120	192.00	bu	-96	-69	-37	0	43	96	161	241	345	483	676
			-137	-109	-77	-40	3	55	120	200	304	442	635
130	208.00	bu	-64	-34	0	40	87	144	214	302	414	563	773
			-105	-75	-40	-0	47	104	174	261	373	523	732
140	224.00	bu	-32	0	37	80	131	193	268	362	483	644	869
			-72	-40	-3	39	91	152	227	321	442	603	829
150	240.00	bu	0	34	74	120	175	241	322	422	552	724	966
			-40	-6	33	80	135	200	281	382	511	684	925

The top number in each cell is Returns Above Direct Expenses.
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
Corn, RR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE									
Corn			2.60	2.76	2.94	3.15	3.40	3.69	4.06	4.51	5.10	5.88	6.97
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-308	-296	-281	-264	-245	-221	-192	-155	-109	-46	40
			-349	-336	-322	-305	-285	-261	-232	-196	-149	-87	0
60	96.00	bu	-273	-258	-241	-221	-197	-168	-133	-90	-34	40	145
			-314	-299	-282	-261	-238	-209	-174	-130	-74	0	104
70	112.00	bu	-238	-221	-201	-177	-149	-116	-75	-24	40	127	250
			-279	-261	-241	-218	-190	-157	-116	-65	0	87	209
80	128.00	bu	-203	-183	-160	-133	-102	-64	-17	40	115	215	354
			-244	-224	-201	-174	-142	-104	-58	0	74	174	314
90	144.00	bu	-168	-146	-120	-90	-54	-11	40	106	190	302	459
			-209	-187	-161	-130	-95	-52	0	65	149	261	419
100	160.00	bu	-133	-109	-80	-46	-6	40	98	171	265	389	564
			-174	-149	-120	-87	-47	0	58	130	224	349	523
110	176.00	bu	-99	-71	-39	-3	40	93	157	237	339	477	669
			-139	-112	-80	-43	0	52	116	196	299	436	628
120	192.00	bu	-64	-34	0	40	88	145	215	302	414	564	774
			-104	-74	-40	0	47	104	174	261	374	523	733
130	208.00	bu	-29	3	40	84	135	197	273	368	489	651	878
			-69	-37	0	43	95	157	232	327	449	611	838
140	224.00	bu	5	40	80	127	183	250	331	433	564	739	983
			-34	0	40	87	142	209	291	392	523	698	942
150	240.00	bu	40	78	121	171	231	302	389	499	639	826	1088
			0	37	80	130	190	261	349	458	598	785	1047

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
Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	________
App by Air (3 gal)	appl	5.60	1.0000	5.60	________
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	________
LA Potash	lb	0.58	60.0000	34.80	________
LA Nitrogen	lb	0.76	210.0000	159.60	________
Haul Corn	bu	0.23	190.0000	43.70	________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	________
2,4-D Amine 4	pt	1.81	1.0000	1.81	________
Valor WP	oz	4.38	1.0000	4.38	________
Roundup WeatherMax	oz	0.19	66.0000	12.54	________
Atrazine 4L	pt	2.25	5.0000	11.25	________
Select 2EC	oz	0.69	6.0000	4.14	________
INSECTICIDES					
Karate Z	oz	1.41	2.1300	3.00	________
Baythroid 2	oz	2.58	2.1300	5.50	________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	________
SEED/PLANTS					
Corn Seed RR	thous	3.38	35.0000	118.30	________
SERVICE FEE					
Digital Ag Fee	acre	8.50	1.3300	11.31	________
Soil Test	acre	10.00	0.1089	1.09	________
OPERATOR LABOR					
Harvesters	hour	15.30	0.1344	2.06	________
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	________
LA Hired Labor					
Implements	hour	11.88	0.1611	1.91	________
Tractors	hour	11.88	0.8812	10.46	________
LA Irrigation Labor					
Special Labor	hour	11.88	0.1500	1.79	________
DIESEL FUEL					
Tractors	gal	2.84	8.2204	23.35	________
Harvesters	gal	2.84	1.6602	4.71	________
Roll-Out Pipe Irr.	gal	2.84	8.5535	24.30	________
REPAIR & MAINTENANCE					
Implements	Acre	9.53	1.0000	9.53	________
Tractors	Acre	5.21	1.0000	5.21	________
Harvesters	Acre	2.26	1.0000	2.26	________
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	________
INTEREST ON OP. CAP.	Acre	11.51	1.0000	11.51	________

TOTAL DIRECT EXPENSES				622.75	________
FIXED EXPENSES					
Implements	Acre	13.91	1.0000	13.91	________
Tractors	Acre	30.69	1.0000	30.69	________
Harvesters	Acre	8.39	1.0000	8.39	________
Roll-Out Pipe Irr.	Acre	45.43	1.0000	45.43	________

TOTAL FIXED EXPENSES				98.42	________

TOTAL SPECIFIED EXPENSES				721.17	________

Table 2.B Estimated resource use and costs for field operations, per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Digital Ag Fee	acre			0.33	Sep							0.3300	8.50	2.81	2.81
Soil Test	acre											0.1089	10.00	1.09	1.09
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.54	2.81	0.36	0.90	0.07	0.88				7.49
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.40	2.43	1.38	2.44	0.16	1.90				10.55
Corn Seed RR	thous											35.0000	3.38	118.30	118.30
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.66	2.95	1.17	1.23	0.11	1.38				9.39
LA Nitrogen	lb											180.0000	0.76	136.80	136.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
Karate Z	oz											2.1300	1.41	3.00	3.00
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.97	8.39	1.81	2.53	0.13	2.06				21.76
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.21	0.24	0.08	0.12	0.00	0.07				0.72
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
Roll-Out Pipe Irr.	Acre				Jul	9.87	10.90	31.86	46.51	0.44	5.33	1.0000		7.92	112.39
TOTALS						35.53	39.08	40.99	59.34	1.33	16.28			518.44	709.66
INTEREST ON OPERATING CAPITAL															11.51
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															721.17

Table 2.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.32	2.46	2.61	2.80	3.01	3.27	3.59	3.99	4.50	5.17	6.13
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-361	-348	-333	-316	-295	-271	-240	-203	-154	-90	0
			-459	-446	-431	-414	-394	-369	-339	-301	-253	-188	-98
60	114.00	bu	-325	-309	-291	-271	-246	-216	-180	-135	-77	0	108
			-423	-408	-390	-369	-344	-315	-279	-233	-175	-98	9
70	133.00	bu	-289	-271	-250	-225	-197	-162	-120	-67	0	90	216
			-387	-369	-348	-324	-295	-261	-218	-166	-98	-8	118
80	152.00	bu	-252	-232	-208	-180	-147	-108	-60	0	77	180	325
			-351	-330	-306	-279	-246	-206	-158	-98	-20	82	226
90	171.00	bu	-216	-193	-166	-135	-98	-54	0	67	154	271	433
			-315	-291	-265	-233	-196	-152	-98	-30	56	172	335
100	190.00	bu	-180	-154	-125	-90	-49	0	60	135	232	361	542
			-279	-253	-223	-188	-147	-98	-38	37	133	262	443
110	209.00	bu	-144	-116	-83	-45	0	54	120	203	309	451	650
			-242	-214	-181	-143	-98	-44	22	104	211	353	552
120	228.00	bu	-108	-77	-41	0	49	108	180	271	387	542	758
			-206	-175	-140	-98	-49	9	82	172	288	443	660
130	247.00	bu	-72	-38	0	45	98	162	240	338	464	632	867
			-170	-137	-98	-53	0	64	142	240	366	533	768
140	266.00	bu	-36	0	41	90	147	216	301	406	542	722	975
			-134	-98	-56	-8	49	118	202	308	443	624	877
150	285.00	bu	0	38	83	135	197	271	361	474	619	813	1084
			-98	-59	-15	37	98	172	262	375	521	714	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 2.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Corn, RR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.67	2.83	3.01	3.23	3.48	3.79	4.17	4.63	5.24	6.04	7.16
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-328	-313	-295	-275	-250	-221	-186	-141	-84	-8	98
			-426	-411	-394	-373	-349	-320	-284	-240	-182	-106	0
60	114.00	bu	-285	-267	-246	-221	-192	-157	-115	-61	6	98	226
			-384	-365	-344	-320	-291	-256	-213	-160	-91	0	128
70	133.00	bu	-243	-221	-197	-168	-134	-93	-43	18	98	205	354
			-341	-320	-295	-266	-232	-192	-142	-80	0	106	256
80	152.00	bu	-200	-176	-147	-115	-76	-29	27	98	189	311	482
			-298	-274	-246	-213	-174	-128	-71	0	91	213	384
90	171.00	bu	-157	-130	-98	-61	-18	34	98	178	281	418	610
			-256	-228	-197	-160	-116	-64	0	80	182	320	512
100	190.00	bu	-115	-84	-49	-8	40	98	169	258	372	525	738
			-213	-182	-147	-106	-58	0	71	160	274	426	640
110	209.00	bu	-72	-38	-0	45	98	162	240	338	464	632	866
			-170	-137	-98	-53	0	64	142	240	365	533	768
120	228.00	bu	-29	6	49	98	156	226	311	418	555	738	995
			-128	-91	-49	0	58	128	213	320	457	640	896
130	247.00	bu	13	52	98	151	214	290	383	498	647	845	1123
			-85	-45	0	53	116	192	284	400	548	747	1024
140	266.00	bu	55	98	147	205	273	354	454	578	738	952	1251
			-42	0	49	106	174	256	355	480	640	853	1152
150	285.00	bu	98	144	196	258	331	418	525	658	830	1059	1379
			0	45	98	160	232	320	426	560	731	960	1280

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
Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated, Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_________
App by Air (3 gal)	appl	5.60	1.0000	5.60	_________
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	_________
LA Potash	lb	0.58	60.0000	34.80	_________
LA Nitrogen	lb	0.76	180.0000	136.80	_________
Haul Corn	bu	0.23	160.0000	36.80	_________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	_________
2,4-D Amine 4	pt	1.81	1.0000	1.81	_________
Valor WP	oz	4.38	1.0000	4.38	_________
Roundup WeatherMax	oz	0.19	66.0000	12.54	_________
Atrazine 4L	pt	2.25	5.0000	11.25	_________
Select 2EC	oz	0.69	6.0000	4.14	_________
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	_________
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	32.0000	140.16	_________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	_________
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
Soil Test	acre	10.00	0.3300	3.30	_________
OPERATOR LABOR					
Harvesters	hour	15.30	0.1344	2.06	_________
LA Hired Labor					
Implements	hour	11.88	0.1611	1.91	_________
Tractors	hour	11.88	0.5819	6.91	_________
DIESEL FUEL					
Tractors	gal	2.84	5.3318	15.15	_________
Harvesters	gal	2.84	1.6602	4.71	_________
REPAIR & MAINTENANCE					
Implements	Acre	9.05	1.0000	9.05	_________
Tractors	Acre	3.33	1.0000	3.33	_________
Harvesters	Acre	2.26	1.0000	2.26	_________
INTEREST ON OP. CAP.	Acre	10.85	1.0000	10.85	_________

TOTAL DIRECT EXPENSES				569.08	_________
FIXED EXPENSES					
Implements	Acre	12.71	1.0000	12.71	_________
Tractors	Acre	19.55	1.0000	19.55	_________
Harvesters	Acre	8.39	1.0000	8.39	_________

TOTAL FIXED EXPENSES				40.65	_________

TOTAL SPECIFIED EXPENSES				609.73	_________

Table 3.B Estimated resource use and costs for field operations, per Acre
Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.54	2.81	0.36	0.90	0.07	0.88				7.49
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.40	2.43	1.38	2.44	0.16	1.90				10.55
Corn Seed BtRR	thous											32.0000	4.38	140.16	140.16
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.66	2.95	1.17	1.23	0.11	1.38				9.39
LA Nitrogen	lb											150.0000	0.76	114.00	114.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.97	8.39	1.81	2.53	0.13	2.06				21.76
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu			1.00	Aug							160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
TOTALS						25.45	27.94	9.05	12.71	0.87	10.88			512.85	598.88
INTEREST ON OPERATING CAPITAL															10.85
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															609.73

Table 3.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.51	2.66	2.83	3.03	3.27	3.55	3.90	4.33	4.89	5.64	6.68
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-334	-322	-308	-292	-273	-250	-222	-187	-143	-83	0
			-374	-362	-349	-332	-313	-291	-263	-228	-183	-124	-40
60	96.00	bu	-300	-286	-269	-250	-227	-200	-167	-125	-71	0	100
			-341	-326	-310	-291	-268	-241	-207	-165	-112	-40	59
70	112.00	bu	-267	-250	-231	-208	-182	-150	-111	-62	0	83	200
			-307	-291	-271	-249	-222	-190	-152	-103	-40	42	159
80	128.00	bu	-233	-214	-192	-167	-136	-100	-55	0	71	167	300
			-274	-255	-233	-207	-177	-140	-96	-40	30	126	260
90	144.00	bu	-200	-178	-154	-125	-91	-50	0	62	143	250	400
			-241	-219	-194	-165	-131	-90	-40	21	102	209	360
100	160.00	bu	-167	-143	-115	-83	-45	0	55	125	214	334	501
			-207	-183	-156	-124	-86	-40	15	84	174	293	460
110	176.00	bu	-133	-107	-77	-41	0	50	111	187	286	417	601
			-174	-148	-117	-82	-40	9	70	147	245	376	560
120	192.00	bu	-100	-71	-38	0	45	100	167	250	357	501	701
			-140	-112	-79	-40	4	59	126	209	317	460	660
130	208.00	bu	-66	-35	0	41	91	150	222	313	429	584	801
			-107	-76	-40	1	50	109	182	272	388	543	761
140	224.00	bu	-33	0	38	83	136	200	278	375	501	668	901
			-74	-40	-2	42	96	159	237	335	460	627	861
150	240.00	bu	0	35	77	125	182	250	334	438	572	751	1002
			-40	-4	36	84	141	209	293	397	532	711	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.

Table 3.D Breakeven price above total expenses and net returns for price/yield combinations, per Acre
Corn, BtRR, 8-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.68	2.84	3.02	3.24	3.50	3.81	4.18	4.65	5.26	6.06	7.19
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-320	-307	-292	-275	-254	-230	-200	-162	-114	-49	40
			-361	-348	-333	-316	-295	-270	-240	-203	-154	-90	0
60	96.00	bu	-284	-268	-251	-230	-205	-176	-139	-94	-36	40	149
			-325	-309	-291	-270	-246	-216	-180	-135	-77	0	108
70	112.00	bu	-248	-230	-209	-185	-156	-121	-79	-27	40	130	257
			-288	-270	-250	-225	-197	-162	-120	-67	0	90	216
80	128.00	bu	-212	-191	-167	-139	-107	-67	-19	40	118	221	365
			-252	-232	-208	-180	-147	-108	-60	0	77	180	325
90	144.00	bu	-176	-152	-126	-94	-57	-13	40	108	195	311	474
			-216	-193	-166	-135	-98	-54	0	67	154	270	433
100	160.00	bu	-139	-114	-84	-49	-8	40	100	176	272	401	582
			-180	-154	-125	-90	-49	0	60	135	232	361	541
110	176.00	bu	-103	-75	-42	-4	40	94	161	243	350	492	690
			-144	-116	-83	-45	0	54	120	203	309	451	650
120	192.00	bu	-67	-36	-1	40	89	149	221	311	427	582	799
			-108	-77	-41	0	49	108	180	270	386	541	758
130	208.00	bu	-31	1	40	85	139	203	281	379	505	672	907
			-72	-38	0	45	98	162	240	338	464	632	866
140	224.00	bu	4	40	82	130	188	257	341	446	582	762	1015
			-36	0	41	90	147	216	300	406	541	722	975
150	240.00	bu	40	79	123	176	237	311	401	514	659	853	1124
			0	38	83	135	197	270	361	474	619	812	1083

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
Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated, Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	________
App by Air (3 gal)	appl	5.60	1.0000	5.60	________
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	________
LA Potash	lb	0.58	60.0000	34.80	________
LA Nitrogen	lb	0.76	210.0000	159.60	________
Haul Corn	bu	0.23	190.0000	43.70	________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	________
2,4-D Amine 4	pt	1.81	1.0000	1.81	________
Valor WP	oz	4.38	1.0000	4.38	________
Roundup WeatherMax	oz	0.19	66.0000	12.54	________
Atrazine 4L	pt	2.25	5.0000	11.25	________
Select 2EC	oz	0.69	6.0000	4.14	________
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	________
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	35.0000	153.30	________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
Soil Test	acre	10.00	0.3300	3.30	________
OPERATOR LABOR					
Harvesters	hour	15.30	0.1344	2.06	________
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	________
LA Hired Labor					
Implements	hour	11.88	0.1611	1.91	________
Tractors	hour	11.88	0.8750	10.39	________
LA Irrigation Labor					
Special Labor	hour	11.88	0.1500	1.79	________
DIESEL FUEL					
Tractors	gal	2.84	8.1593	23.18	________
Harvesters	gal	2.84	1.6602	4.71	________
Roll-Out Pipe Irr.	gal	2.84	8.5535	24.30	________
REPAIR & MAINTENANCE					
Implements	Acre	9.45	1.0000	9.45	________
Tractors	Acre	5.17	1.0000	5.17	________
Harvesters	Acre	2.26	1.0000	2.26	________
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	________
INTEREST ON OP. CAP.	Acre	12.52	1.0000	12.52	________

TOTAL DIRECT EXPENSES				674.27	________
FIXED EXPENSES					
Implements	Acre	13.79	1.0000	13.79	________
Tractors	Acre	30.45	1.0000	30.45	________
Harvesters	Acre	8.39	1.0000	8.39	________
Roll-Out Pipe Irr.	Acre	45.43	1.0000	45.43	________

TOTAL FIXED EXPENSES				98.06	________

TOTAL SPECIFIED EXPENSES				772.33	________

Table 4.B Estimated resource use and costs for field operations, per Acre
Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct	2.54	2.81	0.36	0.90	0.07	0.88				7.49
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant & Pre Rigid	8R-38	MFWD 170	0.080	1.00	Mar	2.40	2.43	1.38	2.44	0.16	1.90				10.55
Corn Seed BtRR	thous											35.0000	4.38	153.30	153.30
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr	2.66	2.95	1.17	1.23	0.11	1.38				9.39
LA Nitrogen	lb											180.0000	0.76	136.80	136.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	6R38"	240hp	0.134	1.00	Aug	6.97	8.39	1.81	2.53	0.13	2.06				21.76
Dry Corn	bu											190.0000	0.19	36.10	36.10
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
Roll-Out Pipe Irr.	Acre				Jul	9.87	10.90	31.86	46.51	0.44	5.33	1.0000		7.92	112.39
TOTALS						35.32	38.84	40.91	59.22	1.32	16.21			569.31	759.81
INTEREST ON OPERATING CAPITAL															12.52
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															772.33

Table 4.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE									
Corn			2.50	2.65	2.82	3.02	3.26	3.54	3.89	4.32	4.88	5.63	6.67
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-395	-381	-365	-346	-323	-296	-263	-222	-169	-98	0
			-493	-479	-463	-444	-421	-394	-361	-320	-267	-196	-98
60	114.00	bu	-356	-339	-319	-296	-269	-237	-197	-148	-84	0	118
			-454	-437	-417	-394	-367	-335	-295	-246	-182	-98	20
70	133.00	bu	-316	-296	-273	-247	-215	-178	-131	-74	0	98	237
			-414	-394	-372	-345	-313	-276	-229	-172	-98	0	139
80	152.00	bu	-276	-254	-228	-197	-161	-118	-65	0	84	197	356
			-375	-352	-326	-295	-259	-216	-164	-98	-13	99	258
90	171.00	bu	-237	-211	-182	-148	-107	-59	0	74	169	296	474
			-335	-310	-280	-246	-205	-157	-98	-23	71	198	376
100	190.00	bu	-197	-169	-136	-98	-53	0	65	148	254	395	593
			-295	-267	-235	-196	-152	-98	-32	50	156	297	495
110	209.00	bu	-158	-127	-91	-49	0	59	131	222	339	494	712
			-256	-225	-189	-147	-98	-38	33	124	241	396	614
120	228.00	bu	-118	-84	-45	0	53	118	197	296	423	593	830
			-216	-182	-143	-98	-44	20	99	198	325	495	732
130	247.00	bu	-79	-42	0	49	107	178	263	370	508	692	949
			-177	-140	-98	-48	9	80	165	272	410	594	851
140	266.00	bu	-39	0	45	98	161	237	329	445	593	791	1068
			-137	-98	-52	0	63	139	231	347	495	693	970
150	285.00	bu	0	42	91	148	215	296	395	519	678	890	1187
			-98	-55	-6	50	117	198	297	421	580	792	1089

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
Corn, BtRR, 8-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE									
Corn			2.85	3.02	3.22	3.45	3.73	4.06	4.46	4.97	5.62	6.49	7.70
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-363	-346	-327	-305	-279	-247	-209	-161	-99	-17	98
			-461	-444	-425	-403	-377	-345	-307	-259	-197	-115	0
60	114.00	bu	-316	-297	-274	-247	-216	-178	-132	-74	-0	98	236
			-414	-395	-372	-345	-314	-276	-230	-172	-98	0	138
70	133.00	bu	-270	-247	-221	-190	-153	-109	-55	11	98	213	374
			-368	-345	-319	-288	-251	-207	-153	-86	0	115	276
80	152.00	bu	-224	-198	-167	-132	-90	-40	21	98	196	328	513
			-322	-296	-266	-230	-188	-138	-76	0	98	230	414
90	171.00	bu	-178	-148	-114	-74	-27	28	98	184	295	443	651
			-276	-247	-212	-172	-125	-69	0	86	197	345	553
100	190.00	bu	-132	-99	-61	-17	35	98	174	270	394	559	789
			-230	-197	-159	-115	-62	0	76	172	296	461	691
110	209.00	bu	-86	-50	-8	40	98	167	251	357	493	674	927
			-184	-148	-106	-57	0	69	153	259	395	576	829
120	228.00	bu	-40	-0	44	98	160	236	328	443	592	789	1066
			-138	-98	-53	0	62	138	230	345	494	691	968
130	247.00	bu	5	48	98	155	223	305	405	530	690	904	1204
			-92	-49	0	57	125	207	307	432	592	806	1106
140	266.00	bu	51	98	151	213	286	374	482	616	789	1020	1342
			-46	0	53	115	188	276	384	518	691	922	1244
150	285.00	bu	98	147	204	270	349	443	559	703	888	1135	1481
			0	49	106	172	251	345	461	605	790	1037	1383

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
Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_________
App by Air (3 gal)	appl	5.60	1.0000	5.60	_________
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	_________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	_________
LA Potash	lb	0.58	60.0000	34.80	_________
LA Nitrogen	lb	0.76	180.0000	136.80	_________
Haul Corn	bu	0.23	160.0000	36.80	_________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	_________
2,4-D Amine 4	pt	1.81	1.0000	1.81	_________
Valor WP	oz	4.38	1.0000	4.38	_________
Roundup WeatherMax	oz	0.19	66.0000	12.54	_________
Atrazine 4L	pt	2.25	5.0000	11.25	_________
Select 2EC	oz	0.69	6.0000	4.14	_________
INSECTICIDES					
Karate Z	oz	1.41	2.1300	3.00	_________
Intrepid 2F	oz	1.94	6.0000	11.64	_________
Baythroid 2	oz	2.58	2.1300	5.50	_________
SEED/PLANTS					
Corn Seed RR	thous	3.38	32.0000	108.16	_________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	_________
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
Soil Test	acre	10.00	0.3300	3.30	_________
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_________
LA Hired Labor					
Implements	hour	11.88	0.1175	1.40	_________
Tractors	hour	11.88	0.5005	5.95	_________
DIESEL FUEL					
Tractors	gal	2.84	4.8007	13.64	_________
Harvesters	gal	2.84	1.2047	3.42	_________
REPAIR & MAINTENANCE					
Implements	Acre	9.85	1.0000	9.85	_________
Tractors	Acre	3.04	1.0000	3.04	_________
Harvesters	Acre	3.47	1.0000	3.47	_________
INTEREST ON OP. CAP.	Acre	10.25	1.0000	10.25	_________
TOTAL DIRECT EXPENSES				547.81	_________
FIXED EXPENSES					
Implements	Acre	14.32	1.0000	14.32	_________
Tractors	Acre	17.85	1.0000	17.85	_________
Harvesters	Acre	12.87	1.0000	12.87	_________
TOTAL FIXED EXPENSES				45.04	_________
TOTAL SPECIFIED EXPENSES				592.85	_________

Table 5.B Estimated resource use and costs for field operations, per Acre
Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars		---------dollars---------		
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	2.00	2.25	0.63	1.56	0.04	0.59				7.03
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.70	1.88	1.56	2.77	0.09	1.18				9.09
Corn Seed RR	thous											32.0000	3.38	108.16	108.16
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	2.10	2.36	0.82	0.86	0.07	0.92				7.06
LA Nitrogen	lb											150.0000	0.76	114.00	114.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
Karate Z	oz											2.1300	1.41	3.00	3.00
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
Intrepid 2F	oz											6.0000	1.94	11.64	11.64
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.89	12.87	2.51	3.52	0.08	1.30				27.09
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu			1.00	Aug							160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
TOTALS						23.57	30.72	9.85	14.32	0.70	8.65			495.49	582.60
INTEREST ON OPERATING CAPITAL															10.25
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															592.85

Table 5.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.42	2.56	2.73	2.92	3.15	3.42	3.75	4.17	4.70	5.42	6.42
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-319	-308	-295	-279	-261	-239	-213	-179	-137	-79	0
			-364	-353	-340	-324	-306	-284	-258	-224	-182	-125	-45
60	96.00	bu	-287	-274	-258	-239	-218	-191	-159	-119	-68	0	95
			-332	-319	-303	-284	-263	-236	-204	-164	-113	-45	50
70	112.00	bu	-255	-239	-221	-199	-174	-143	-106	-59	0	79	191
			-300	-284	-266	-244	-219	-188	-151	-105	-45	34	146
80	128.00	bu	-223	-205	-184	-159	-130	-95	-53	0	68	159	287
			-268	-250	-229	-204	-175	-141	-98	-45	23	114	242
90	144.00	bu	-191	-171	-147	-119	-87	-47	0	59	137	239	383
			-236	-216	-192	-164	-132	-93	-45	14	92	194	338
100	160.00	bu	-159	-137	-110	-79	-43	0	53	119	205	319	479
			-204	-182	-155	-125	-88	-45	8	74	160	274	434
110	176.00	bu	-127	-102	-73	-39	0	47	106	179	274	399	575
			-172	-147	-118	-85	-45	2	61	134	229	354	530
120	192.00	bu	-95	-68	-36	0	43	95	159	239	342	479	671
			-141	-113	-81	-45	-1	50	114	194	297	434	626
130	208.00	bu	-63	-34	0	39	87	143	213	299	411	559	767
			-109	-79	-45	-5	42	98	168	254	366	514	722
140	224.00	bu	-31	0	36	79	130	191	266	359	479	639	863
			-77	-45	-8	34	85	146	221	314	434	594	818
150	240.00	bu	0	34	73	119	174	239	319	419	548	719	959
			-45	-10	28	74	129	194	274	374	503	674	914

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
Corn, RR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.61	2.76	2.94	3.15	3.40	3.70	4.06	4.52	5.11	5.89	6.98
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-304	-292	-277	-261	-241	-217	-188	-151	-104	-42	45
			-349	-337	-322	-306	-286	-262	-233	-196	-149	-87	0
60	96.00	bu	-269	-254	-237	-217	-193	-164	-129	-86	-29	45	150
			-314	-299	-282	-262	-238	-209	-174	-131	-74	0	104
70	112.00	bu	-234	-217	-197	-173	-145	-112	-71	-20	45	132	254
			-279	-262	-242	-218	-190	-157	-116	-65	0	87	209
80	128.00	bu	-199	-179	-156	-129	-98	-59	-13	45	120	219	359
			-244	-224	-201	-174	-143	-104	-58	0	74	174	314
90	144.00	bu	-164	-142	-116	-86	-50	-7	45	110	195	307	464
			-209	-187	-161	-131	-95	-52	0	65	149	262	419
100	160.00	bu	-129	-104	-76	-42	-2	45	103	176	269	394	569
			-174	-149	-121	-87	-47	0	58	131	224	349	524
110	176.00	bu	-94	-67	-35	1	45	97	161	241	344	482	674
			-139	-112	-80	-43	0	52	116	196	299	437	629
120	192.00	bu	-59	-29	4	45	92	150	219	307	419	569	779
			-104	-74	-40	0	47	104	174	262	374	524	734
130	208.00	bu	-24	7	45	88	140	202	278	373	494	657	884
			-69	-37	0	43	95	157	233	328	449	612	839
140	224.00	bu	10	45	85	132	188	254	336	438	569	744	989
			-34	0	40	87	143	209	291	393	524	699	944
150	240.00	bu	45	82	125	176	235	307	394	504	644	832	1094
			0	37	80	131	190	262	349	459	599	787	1049

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 per Acre
Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	_________
App by Air (3 gal)	appl	5.60	1.0000	5.60	_________
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	_________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	_________
LA Potash	lb	0.58	60.0000	34.80	_________
LA Nitrogen	lb	0.76	210.0000	159.60	_________
Haul Corn	bu	0.23	190.0000	43.70	_________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	_________
2,4-D Amine 4	pt	1.81	1.0000	1.81	_________
Valor WP	oz	4.38	1.0000	4.38	_________
Roundup WeatherMax	oz	0.19	66.0000	12.54	_________
Atrazine 4L	pt	2.25	5.0000	11.25	_________
Select 2EC	oz	0.69	6.0000	4.14	_________
INSECTICIDES					
Karate Z	oz	1.41	2.1300	3.00	_________
Baythroid 2	oz	2.58	2.1300	5.50	_________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_________
SEED/PLANTS					
Corn Seed RR	thous	3.38	35.0000	118.30	_________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	_________
Digital Ag Fee	acre	8.50	1.0000	8.50	_________
Soil Test	acre	10.00	0.3300	3.30	_________
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	_________
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_________
LA Hired Labor					
Implements	hour	11.88	0.1175	1.40	_________
Tractors	hour	11.88	0.7998	9.50	_________
LA Irrigation Labor					
Special Labor	hour	11.88	0.1500	1.79	_________
DIESEL FUEL					
Tractors	gal	2.84	7.6894	21.84	_________
Harvesters	gal	2.84	1.2047	3.42	_________
Roll-Out Pipe Irr.	gal	2.84	8.5535	24.30	_________
REPAIR & MAINTENANCE					
Implements	Acre	10.33	1.0000	10.33	_________
Tractors	Acre	4.92	1.0000	4.92	_________
Harvesters	Acre	3.47	1.0000	3.47	_________
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	_________
INTEREST ON OP. CAP.	Acre	11.61	1.0000	11.61	_________

TOTAL DIRECT EXPENSES				638.41	_________
FIXED EXPENSES					
Implements	Acre	15.52	1.0000	15.52	_________
Tractors	Acre	28.99	1.0000	28.99	_________
Harvesters	Acre	12.87	1.0000	12.87	_________
Roll-Out Pipe Irr.	Acre	45.43	1.0000	45.43	_________

TOTAL FIXED EXPENSES				102.81	_________

TOTAL SPECIFIED EXPENSES				741.22	_________

Table 6.B Estimated resource use and costs for field operations, per Acre
Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						dollars					dollars		dollars		
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	2.00	2.25	0.63	1.56	0.04	0.59				7.03
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.70	1.88	1.56	2.77	0.09	1.18				9.09
Corn Seed RR	thous											35.0000	3.38	118.30	118.30
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	2.10	2.36	0.82	0.86	0.07	0.92				7.06
LA Nitrogen	lb											180.0000	0.76	136.80	136.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
Karate Z	oz											2.1300	1.41	3.00	3.00
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.89	12.87	2.51	3.52	0.08	1.30				27.09
Dry Corn	bu											190.0000	0.19	36.10	36.10
Corn Grain Cart 8R40	700bu	MFWD 190	0.025	0.25	Aug	0.21	0.24	0.08	0.12	0.00	0.07				0.72
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
Roll-Out Pipe Irr.	Acre				Jul	9.87	10.90	31.86	46.51	0.44	5.33	1.0000		7.92	112.39
TOTALS						33.65	41.86	41.79	60.95	1.15	14.05			537.31	729.61
INTEREST ON OPERATING CAPITAL															11.61
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															741.22

Table 6.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.38	2.52	2.68	2.87	3.09	3.36	3.68	4.09	4.61	5.31	6.29
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-371	-358	-343	-325	-304	-278	-247	-209	-159	-92	0
			-474	-461	-445	-428	-406	-381	-350	-311	-262	-195	-102
60	114.00	bu	-334	-318	-300	-278	-253	-223	-185	-139	-79	0	111
			-437	-421	-403	-381	-356	-325	-288	-242	-182	-102	8
70	133.00	bu	-297	-278	-257	-232	-202	-167	-123	-69	0	92	223
			-400	-381	-360	-335	-305	-270	-226	-172	-102	-9	120
80	152.00	bu	-260	-239	-214	-185	-152	-111	-61	0	79	185	334
			-363	-341	-317	-288	-254	-214	-164	-102	-23	83	231
90	171.00	bu	-223	-199	-171	-139	-101	-55	0	69	159	278	446
			-325	-301	-274	-242	-204	-158	-102	-33	56	176	343
100	190.00	bu	-185	-159	-128	-92	-50	0	61	139	239	371	557
			-288	-262	-231	-195	-153	-102	-40	36	136	268	454
110	209.00	bu	-148	-119	-85	-46	0	55	123	209	318	464	669
			-251	-222	-188	-149	-102	-47	21	106	215	361	566
120	228.00	bu	-111	-79	-42	0	50	111	185	278	398	557	780
			-214	-182	-145	-102	-52	8	83	176	295	454	677
130	247.00	bu	-74	-39	0	46	101	167	247	348	478	650	892
			-177	-142	-102	-56	-1	64	145	245	375	547	789
140	266.00	bu	-37	0	42	92	152	223	309	418	557	743	1003
			-139	-102	-59	-9	49	120	207	315	454	640	901
150	285.00	bu	0	39	85	139	202	278	371	487	637	836	1115
			-102	-62	-17	36	99	176	268	385	534	733	1012

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
Corn, RR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.74	2.90	3.09	3.32	3.58	3.90	4.28	4.77	5.39	6.21	7.37
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-337	-321	-303	-282	-257	-227	-190	-144	-85	-7	102
			-440	-424	-406	-385	-360	-330	-293	-247	-188	-110	0
60	114.00	bu	-293	-274	-252	-227	-197	-161	-117	-62	8	102	234
			-396	-377	-355	-330	-300	-264	-220	-165	-94	0	132
70	133.00	bu	-249	-227	-202	-172	-137	-95	-43	20	102	212	367
			-352	-330	-304	-275	-240	-198	-146	-82	0	110	264
80	152.00	bu	-205	-180	-151	-117	-77	-29	29	102	197	322	499
			-308	-283	-254	-220	-180	-132	-73	0	94	220	396
90	171.00	bu	-161	-133	-100	-62	-17	36	102	185	291	433	631
			-264	-235	-203	-165	-120	-66	0	82	188	330	528
100	190.00	bu	-117	-85	-49	-7	42	102	176	267	385	543	763
			-220	-188	-152	-110	-60	0	73	165	283	440	660
110	209.00	bu	-73	-38	1	47	102	168	249	350	480	653	895
			-176	-141	-101	-55	0	66	146	247	377	550	792
120	228.00	bu	-29	8	52	102	162	234	322	433	574	763	1027
			-132	-94	-50	0	60	132	220	330	471	660	924
130	247.00	bu	14	55	102	157	222	300	396	515	668	873	1159
			-88	-47	0	55	120	198	293	412	566	770	1056
140	266.00	bu	58	102	153	212	282	367	469	598	763	983	1291
			-44	0	50	110	180	264	366	495	660	880	1188
150	285.00	bu	102	149	204	267	342	433	543	680	857	1093	1423
			0	47	101	165	240	330	440	577	754	990	1320

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
Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated, Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	________
App by Air (3 gal)	appl	5.60	1.0000	5.60	________
GIN/DRY					
Dry Corn	bu	0.19	160.0000	30.40	________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	________
LA Potash	lb	0.58	60.0000	34.80	________
LA Nitrogen	lb	0.76	180.0000	136.80	________
Haul Corn	bu	0.23	160.0000	36.80	________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	________
2,4-D Amine 4	pt	1.81	1.0000	1.81	________
Valor WP	oz	4.38	1.0000	4.38	________
Roundup WeatherMax	oz	0.19	66.0000	12.54	________
Atrazine 4L	pt	2.25	5.0000	11.25	________
Select 2EC	oz	0.69	6.0000	4.14	________
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	________
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	32.0000	140.16	________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
Soil Test	acre	10.00	0.3300	3.30	________
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	________
LA Hired Labor					
Implements	hour	11.88	0.1175	1.40	________
Tractors	hour	11.88	0.5005	5.95	________
DIESEL FUEL					
Tractors	gal	2.84	4.8007	13.64	________
Harvesters	gal	2.84	1.2047	3.42	________
REPAIR & MAINTENANCE					
Implements	Acre	9.85	1.0000	9.85	________
Tractors	Acre	3.04	1.0000	3.04	________
Harvesters	Acre	3.47	1.0000	3.47	________
INTEREST ON OP. CAP.	Acre	10.78	1.0000	10.78	________

TOTAL DIRECT EXPENSES				565.70	________
FIXED EXPENSES					
Implements	Acre	14.32	1.0000	14.32	________
Tractors	Acre	17.85	1.0000	17.85	________
Harvesters	Acre	12.87	1.0000	12.87	________

TOTAL FIXED EXPENSES				45.04	________

TOTAL SPECIFIED EXPENSES				610.74	________

Table 7.B Estimated resource use and costs for field operations, per Acre
Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						------------dollars-----------					dollars	---------dollars---------			
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	2.00	2.25	0.63	1.56	0.04	0.59				7.03
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.70	1.88	1.56	2.77	0.09	1.18				9.09
Corn Seed BtRR	thous											32.0000	4.38	140.16	140.16
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	2.10	2.36	0.82	0.86	0.07	0.92				7.06
LA Nitrogen	lb											150.0000	0.76	114.00	114.00
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.89	12.87	2.51	3.52	0.08	1.30				27.09
Dry Corn	bu											160.0000	0.19	30.40	30.40
Haul Corn	bu			1.00	Aug							160.0000	0.23	36.80	36.80
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
TOTALS						23.57	30.72	9.85	14.32	0.70	8.65			512.85	599.96
INTEREST ON OPERATING CAPITAL															10.78
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															610.74

Table 7.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.49	2.64	2.81	3.01	3.25	3.53	3.88	4.31	4.86	5.60	6.64
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-331	-319	-306	-290	-271	-248	-221	-186	-142	-82	0
			-376	-365	-351	-335	-316	-293	-266	-231	-187	-127	-45
60	96.00	bu	-298	-284	-268	-248	-226	-199	-165	-124	-71	0	99
			-343	-329	-313	-293	-271	-244	-210	-169	-116	-45	54
70	112.00	bu	-265	-248	-229	-207	-180	-149	-110	-62	0	82	199
			-310	-293	-274	-252	-226	-194	-155	-107	-45	37	154
80	128.00	bu	-232	-213	-191	-165	-135	-99	-55	0	71	165	298
			-277	-258	-236	-210	-180	-144	-100	-45	26	120	253
90	144.00	bu	-199	-177	-153	-124	-90	-49	0	62	142	248	398
			-244	-222	-198	-169	-135	-94	-45	17	97	203	353
100	160.00	bu	-165	-142	-114	-82	-45	0	55	124	213	331	497
			-210	-187	-159	-127	-90	-45	10	79	168	286	452
110	176.00	bu	-132	-106	-76	-41	0	49	110	186	284	414	597
			-177	-151	-121	-86	-45	4	65	141	239	369	552
120	192.00	bu	-99	-71	-38	0	45	99	165	248	355	497	696
			-144	-116	-83	-45	0	54	120	203	310	452	651
130	208.00	bu	-66	-35	0	41	90	149	221	311	426	580	796
			-111	-80	-45	-3	45	104	176	266	381	535	751
140	224.00	bu	-33	0	38	82	135	199	276	373	497	663	895
			-78	-45	-6	37	90	154	231	328	452	618	850
150	240.00	bu	0	35	76	124	180	248	331	435	568	746	995
			-45	-9	31	79	135	203	286	390	523	701	950

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
Corn, BtRR, 12-Row Equipment, 38 inch rows, non-irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.68	2.84	3.03	3.25	3.50	3.81	4.19	4.66	5.27	6.07	7.20
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-316	-303	-288	-271	-251	-226	-196	-158	-110	-45	45
			-361	-348	-334	-316	-296	-271	-241	-203	-155	-90	0
60	96.00	bu	-280	-265	-247	-226	-201	-172	-135	-90	-32	45	153
			-325	-310	-292	-271	-246	-217	-180	-135	-77	0	108
70	112.00	bu	-244	-226	-205	-181	-152	-117	-75	-22	45	135	262
			-289	-271	-250	-226	-197	-162	-120	-67	0	90	217
80	128.00	bu	-208	-187	-163	-135	-102	-63	-15	45	122	225	370
			-253	-232	-208	-180	-148	-108	-60	0	77	180	325
90	144.00	bu	-172	-148	-121	-90	-53	-9	45	112	200	316	479
			-217	-193	-167	-135	-98	-54	0	67	155	271	434
100	160.00	bu	-135	-110	-80	-45	-4	45	105	180	277	406	587
			-180	-155	-125	-90	-49	0	60	135	232	361	542
110	176.00	bu	-99	-71	-38	-0	45	99	165	248	355	497	696
			-144	-116	-83	-45	0	54	120	203	310	452	651
120	192.00	bu	-63	-32	3	45	94	153	225	316	432	587	804
			-108	-77	-41	0	49	108	180	271	387	542	759
130	208.00	bu	-27	6	45	90	143	207	286	384	510	678	913
			-72	-38	0	45	98	162	241	339	465	633	868
140	224.00	bu	8	45	86	135	193	262	346	452	587	768	1022
			-36	0	41	90	148	217	301	407	542	723	976
150	240.00	bu	45	83	128	180	242	316	406	519	665	859	1130
			0	38	83	135	197	271	361	474	620	814	1085

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
Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	4.0000	28.00	________
App by Air (3 gal)	appl	5.60	1.0000	5.60	________
GIN/DRY					
Dry Corn	bu	0.19	190.0000	36.10	________
FERTILIZERS					
LA Phosphate	lb	0.65	30.0000	19.50	________
LA Potash	lb	0.58	60.0000	34.80	________
LA Nitrogen	lb	0.76	210.0000	159.60	________
Haul Corn	bu	0.23	190.0000	43.70	________
HERBICIDES					
Glyphosate Plus 4L	pt	4.95	2.0000	9.90	________
2,4-D Amine 4	pt	1.81	1.0000	1.81	________
Valor WP	oz	4.38	1.0000	4.38	________
Roundup WeatherMax	oz	0.19	66.0000	12.54	________
Atrazine 4L	pt	2.25	5.0000	11.25	________
Select 2EC	oz	0.69	6.0000	4.14	________
INSECTICIDES					
Baythroid 2	oz	2.58	2.1300	5.50	________
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	________
SEED/PLANTS					
Corn Seed BtRR	thous	4.38	35.0000	153.30	________
SERVICE FEE					
Lime (Spread)	ton	59.00	0.3300	19.47	________
Digital Ag Fee	acre	8.50	1.0000	8.50	________
Soil Test	acre	10.00	0.3300	3.30	________
OPERATOR LABOR					
Harvesters	hour	15.30	0.0851	1.30	________
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	________
LA Hired Labor					
Implements	hour	11.88	0.1175	1.40	________
Tractors	hour	11.88	0.7936	9.43	________
LA Irrigation Labor					
Special Labor	hour	11.88	0.1500	1.79	________
DIESEL FUEL					
Tractors	gal	2.84	7.6282	21.67	________
Harvesters	gal	2.84	1.2047	3.42	________
Roll-Out Pipe Irr.	gal	2.84	8.5535	24.30	________
REPAIR & MAINTENANCE					
Implements	Acre	10.25	1.0000	10.25	________
Tractors	Acre	4.88	1.0000	4.88	________
Harvesters	Acre	3.47	1.0000	3.47	________
Roll-Out Pipe Irr.	Acre	7.16	1.0000	7.16	________
INTEREST ON OP. CAP.	Acre	12.45	1.0000	12.45	________

TOTAL DIRECT EXPENSES				670.89	________
FIXED EXPENSES					
Implements	Acre	15.40	1.0000	15.40	________
Tractors	Acre	28.75	1.0000	28.75	________
Harvesters	Acre	12.87	1.0000	12.87	________
Roll-Out Pipe Irr.	Acre	45.43	1.0000	45.43	________

TOTAL FIXED EXPENSES				102.45	________

TOTAL SPECIFIED EXPENSES				773.34	________

Table 8.B Estimated resource use and costs for field operations, per Acre
Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL COST
						dollars	dollars	dollars	dollars		dollars		dollars	dollars	dollars
Lime (Spread)	ton			0.33	Sep							0.3300	59.00	19.47	19.47
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Sep	1.44	1.60	0.34	0.64	0.08	1.00				5.02
LA Phosphate	lb											30.0000	0.65	19.50	19.50
LA Potash	lb											60.0000	0.58	34.80	34.80
Disk Harrow	28'	MFWD 225	0.070	1.00	Sep	2.85	3.21	1.21	2.39	0.07	0.83				10.49
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct	2.00	2.25	0.63	1.56	0.04	0.59				7.03
Land Plane	40'x10'	MFWD 190	0.242	0.20	Oct	1.66	1.84	0.06	0.14	0.04	0.58				4.28
Ditcher		2WD 130	0.020	1.00	Oct	0.45	0.41	0.05	0.06	0.02	0.24				1.21
App by Air (5 gal)	appl			1.00	Feb							1.0000	7.00	7.00	7.00
Glyphosate Plus 4L	pt											2.0000	4.95	9.90	9.90
2,4-D Amine 4	pt											1.0000	1.81	1.81	1.81
Valor WP	oz											1.0000	4.38	4.38	4.38
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Roller	32'	MFWD 170	0.046	1.00	Mar	1.40	1.41	0.18	0.92	0.04	0.55				4.46
Plant - Folding	12R-38	MFWD 190	0.049	1.00	Mar	1.70	1.88	1.56	2.77	0.09	1.18				9.09
Corn Seed BtRR	thous											35.0000	4.38	153.30	153.30
LA Nitrogen	lb											30.0000	0.76	22.80	22.80
Ditcher		2WD 130	0.020	1.00	Mar	0.45	0.41	0.05	0.06	0.02	0.24				1.21
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr	2.10	2.36	0.82	0.86	0.07	0.92				7.06
LA Nitrogen	lb											180.0000	0.76	136.80	136.80
App by Air (5 gal)	appl			1.00	Apr							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Dual 8E	pt											1.0000			
Atrazine 4L	pt											3.0000	2.25	6.75	6.75
App by Air (5 gal)	appl			1.00	May							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Atrazine 4L	pt											2.0000	2.25	4.50	4.50
App by Air (3 gal)	appl			1.00	Jun							1.0000	5.60	5.60	5.60
Baythroid 2	oz											2.1300	2.58	5.50	5.50
Header - Corn	12R-30	275hp	0.085	1.00	Aug	6.89	12.87	2.51	3.52	0.08	1.30				27.09
Dry Corn	bu											190.0000	0.19	36.10	36.10
Haul Corn	bu			1.00	Aug							190.0000	0.23	43.70	43.70
Stalk Shredder-Flail	20'	MFWD 150	0.082	1.00	Sep	2.18	2.07	2.39	1.34	0.08	0.98				8.96
Digital Ag Fee	acre			1.00	Sep							1.0000	8.50	8.50	8.50
Soil Test	acre											0.3300	10.00	3.30	3.30
App by Air (5 gal)	appl			1.00	Sep							1.0000	7.00	7.00	7.00
Roundup WeatherMax	oz											22.0000	0.19	4.18	4.18
Select 2EC	oz											6.0000	0.69	4.14	4.14
Roll-Out Pipe Irr.	Acre				Jul	9.87	10.90	31.86	46.51	0.44	5.33	1.0000		7.92	112.39
TOTALS						33.44	41.62	41.71	60.83	1.15	13.98			569.31	760.89
INTEREST ON OPERATING CAPITAL															12.45
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															773.34

Table 8.C Breakeven price above direct expenses and net returns for price/yield combinations, per Acre
Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.49	2.64	2.81	3.01	3.24	3.53	3.87	4.30	4.86	5.60	6.63
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-393	-379	-363	-344	-321	-295	-262	-221	-168	-98	0
			-495	-481	-465	-446	-424	-397	-364	-323	-271	-200	-102
60	114.00	bu	-354	-337	-317	-295	-268	-236	-196	-147	-84	0	118
			-456	-439	-420	-397	-370	-338	-299	-249	-186	-102	15
70	133.00	bu	-314	-295	-272	-245	-214	-177	-131	-73	0	98	236
			-417	-397	-374	-348	-317	-279	-233	-176	-102	-4	133
80	152.00	bu	-275	-252	-226	-196	-160	-118	-65	0	84	196	354
			-377	-355	-329	-299	-263	-220	-168	-102	-18	94	251
90	171.00	bu	-236	-210	-181	-147	-107	-59	0	73	168	295	472
			-338	-313	-284	-249	-209	-161	-102	-28	66	192	369
100	190.00	bu	-196	-168	-136	-98	-53	0	65	147	252	393	590
			-299	-271	-238	-200	-156	-102	-36	45	150	290	487
110	209.00	bu	-157	-126	-90	-49	0	59	131	221	337	491	708
			-259	-228	-193	-151	-102	-43	28	118	234	389	605
120	228.00	bu	-118	-84	-45	0	53	118	196	295	421	590	826
			-220	-186	-147	-102	-48	15	94	192	319	487	723
130	247.00	bu	-78	-42	0	49	107	177	262	368	505	688	944
			-181	-144	-102	-53	4	74	159	266	403	586	841
140	266.00	bu	-39	0	45	98	160	236	327	442	590	786	1062
			-141	-102	-57	-4	58	133	225	340	487	684	959
150	285.00	bu	0	42	90	147	214	295	393	516	674	885	1180
			-102	-60	-11	45	112	192	290	413	572	782	1077

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
Corn, BtRR, 12-Row Equipment, 38 inch rows, irrigated,
Alluvial Soil, Louisiana, 2022.

			BREAKEVEN PRICE										
Corn			2.85	3.02	3.22	3.46	3.73	4.07	4.47	4.98	5.63	6.50	7.71
PERCENT	YIELD	UNIT	dollars										
50	95.00	bu	-359	-342	-323	-301	-275	-243	-205	-157	-95	-12	102
			-461	-445	-426	-404	-377	-346	-307	-259	-197	-115	0
60	114.00	bu	-313	-293	-270	-243	-212	-174	-128	-70	3	102	240
			-415	-395	-372	-346	-314	-277	-230	-173	-98	0	138
70	133.00	bu	-266	-243	-217	-186	-149	-105	-51	15	102	217	379
			-369	-346	-319	-288	-251	-207	-153	-86	0	115	277
80	152.00	bu	-220	-194	-163	-128	-86	-36	25	102	201	333	518
			-323	-296	-266	-230	-188	-138	-76	0	98	230	415
90	171.00	bu	-174	-144	-110	-70	-23	33	102	189	300	448	656
			-277	-247	-213	-173	-125	-69	0	86	197	346	554
100	190.00	bu	-128	-95	-57	-12	39	102	179	275	399	564	795
			-230	-197	-159	-115	-62	0	76	173	296	461	692
110	209.00	bu	-82	-45	-4	44	102	171	256	362	498	679	933
			-184	-148	-106	-57	0	69	153	259	395	577	831
120	228.00	bu	-36	3	49	102	165	240	333	448	597	795	1072
			-138	-98	-53	0	62	138	230	346	494	692	969
130	247.00	bu	10	52	102	160	228	310	410	535	696	910	1210
			-92	-49	0	57	125	207	307	432	593	808	1108
140	266.00	bu	56	102	155	217	291	379	487	621	795	1025	1349
			-46	0	53	115	188	277	384	519	692	923	1246
150	285.00	bu	102	151	209	275	354	448	564	708	894	1141	1487
			0	49	106	173	251	346	461	606	791	1038	1385

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, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_________
IRRIGATION LABOR					
Implements	hour	9.06	0.0062	0.06	_________
LA Hired Labor					
Tractors	hour	11.88	0.2930	3.48	_________
LA Irrigation Labor					
Special Labor	hour	11.88	0.1500	1.79	_________
DIESEL FUEL					
Tractors	gal	2.84	2.8274	8.03	_________
Engine, RPF, 75	gal	2.84	8.5535	24.30	_________
REPAIR & MAINTENANCE					
Implements	Acre	0.40	1.0000	0.40	_________
Tractors	Acre	1.84	1.0000	1.84	_________
Well & Pump, Furrow	each	472.80	0.0062	2.96	_________
Engine, RPF, 75	ac-in	0.39	10.5000	4.20	_________
INTEREST ON OP. CAP.	Acre	0.65	1.0000	0.65	_________
TOTAL DIRECT EXPENSES				55.63	_________
FIXED EXPENSES					
Implements	Acre	1.08	1.0000	1.08	_________
Tractors	Acre	10.90	1.0000	10.90	_________
Well & Pump, Furrow	each	1261.03	0.0062	7.88	_________
Main Line Pipe	each	697.09	0.0062	4.36	_________
Land Forming ($300)	each	24.96	1.0000	24.96	_________
Engine, RPF, 75	each	1317.11	0.0062	8.23	_________
TOTAL FIXED EXPENSES				57.41	_________
TOTAL SPECIFIED EXPENSES				113.04	

Appendix Table 2 Estimated costs per Acre
Center pivot irrigation system, 1/4 mile
applying 7.5 inches in three applications Louisiana, 2022.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
LA Hired Labor					
Special Labor	hour	11.88	0.2036	2.42	_________
DIESEL FUEL					
Engine, 1/4 CP, 65	gal	2.84	11.2011	31.80	_________
REPAIR & MAINTENANCE					
Well & Pump, 1/4 CP	each	472.80	0.0074	3.50	_________
Engine, 1/4 CP, 65	ac-in	0.66	7.5000	4.97	_________
Pivot, 1/4 CP	1320'	1820.00	0.0074	13.48	_________
INTEREST ON OP. CAP.	Acre	0.76	1.0000	0.76	_________
TOTAL DIRECT EXPENSES				56.93	_________
FIXED EXPENSES					
Well & Pump, 1/4 CP	each	1261.03	0.0074	9.34	_________
Engine, 1/4 CP, 65	each	1317.11	0.0074	9.76	_________
Pivot, 1/4 CP	each	6695.93	0.0074	49.60	_________
TOTAL FIXED EXPENSES				68.70	_________
TOTAL SPECIFIED EXPENSES				125.63	_________

Appendix Table 3. Operating Inputs: Estimated Prices for 2022.

ITEM NAME	UNIT	PRICE
		dollars
CUSTOM HARVEST/HAUL		
Haul Cotton	lb	0.02
Haul Rice	bu	0.35
Haul Rice (cwt)	cwt	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 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	5.60
App by Air (5 gal)	appl	7.00
App by Air (10 gal)	appl	9.30
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	19.88
Anhy Ammonia (82% N)	cwt	28.00
Boron (Solubor)	lb	0.75
Crop Oil (Seed Oil)	pt	2.86
DAP	cwt	35.88
Fert 0-20-20	cwt	0.00
Fert 10-10-10	cwt	0.00
Fert 10-34-0	cwt	31.50
Fert 10-34-0	gal	3.68
Fert 13-13-13	cwt	0.00
Fert 41-0-0-4	cwt	18.22
Fert 5-20-20	cwt	0.00
LA Nitrogen	lb	0.76
LA Phosphate	lb	0.65
LA Potash	lb	0.58
Phosphorus(46% P2O5)	cwt	23.75
Potash (60% K2O)	cwt	20.00
Sulfur	lb	0.34
UAN (32% N)	cwt	19.00
UAN + Sulfur (28% N)	cwt	14.49
Urea, Solid (46% N)	cwt	28.63
Zinc	lb	0.50
FUNGICIDES		
Apron Maxx RTA	oz	0.84
Apron XL	oz	6.98
Apron XL LS	oz	5.27
Benlate 50 WP	lb	15.95
Captan 4L	pt	2.83
Captan 50 WP	lb	6.59
Crop Oil (Petroleum)	pt	2.86
Cruiser 5FS	oz	0.90
Delta Coat AD	oz	3.75
Dithane F-45	qt	7.81
Dithane Rainsheild	lb	4.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Manzate 75 DF	lb	4.86
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	32.81
Orbit	oz	2.75
Prevail	lb	28.50
Quadris	oz	2.72
Ridomil GoldPC 10G	lb	2.08

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2022.

ITEM NAME	UNIT	PRICE
		dollars
Ridomil Gold PC	lb	5.30
Ridomil Gold PC Liq	oz	6.42
Rovral 4F	pt	14.90
Rovral WG	lb	0.00
Shelter	oz	8.50
Stiletto	oz	0.58
Stratego	pt	77.00
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	0.90
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	0.39
Mepex	oz	0.09
PGR IV	oz	1.55
Pix Plus	oz	0.40
Pix Ultra	oz	0.21
HARVEST AIDS		
Accelerate	pt	2.59
Ammonium Sulfate	lb	0.24
Boll'd	pt	3.84
CottonQuik	pt	6.06
Def 6	pt	7.50
Def/Folex	pt	7.50
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.56
Ethephon 6E	pt	3.89
Finish 6	pt	11.74
Folex 6EC	pt	11.74
Ginstar EC	pt	27.59
Gramoxone Extra	pt	4.86
Gramoxone Inteon	oz	0.19
Gramoxone Max	pt	4.16
Harvade 5F	oz	0.67
Leafless	pt	18.56
Prep	pt	3.84
Sodium Chlorate 3L	gal	3.50
Solium Chlorate 6L	gal	6.77
Starfire	pt	0.00
HERBICIDES		
2,4-D Amine 4	pt	1.81
2,4-D Ester	pt	2.41
AAtrex 4L	pt	1.90
AAtrex NINE-O	lb	3.96
Accent Gold	oz	6.12
Accent SP	oz	36.25
Aim 2EC	oz	5.31
Aim DF	oz	9.65
App Fert by Air	cwt	7.00
Arrosolo	qt	7.88
Assure II	oz	0.74
Atrazine 4L	pt	2.25
Atrazine 90DF	lb	3.36
Authority 75DF	lb	26.95
Axiom 68DF	lb	25.74
Backdraft	pt	2.40
Banvel	pt	4.81
Basagran	pt	5.43
Basis Gold	lb	9.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2022.

ITEM NAME	UNIT	PRICE
		dollars
Beacon 75% WSP	oz	34.87
Beyond	oz	4.48
Bicep II Magnum	qt	11.01
Bicep II zmsgnum	qt	10.97
Bladex 4L	qt	0.00
Bladex 90DF	lb	0.00
Blazer 2L	pt	0.00
Blazer Ultra	pt	9.79
Boa	pt	3.63
Bolero 8EC	pt	7.73
Boundary	pt	11.07
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	2.90
Canopy 75%	oz	2.91
Canopy XL	oz	2.91
Caparol 4L	pt	4.87
Caparol Accu-Pak	lb	0.00
Celebrity Plus	lb	84.50
Clarity	pt	11.00
Classic	oz	12.00
Clincher EC	oz	2.09
Cobra 2EC	oz	1.23
Command 3ME	pt	18.50
Command XTRA	pt	0.00
Conclude Ultra	pt	0.00
Conclude Ultra	pt	0.00
Conclude XACT	pt	11.32
Conclude XTRA	pt	8.32
Cornerstone	pt	2.50
Cotoran 4L	pt	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	3.02
Direx 80 DF	lb	6.20
Diuron 4L	pt	3.50
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	15.00
Dual Magnum	pt	10.02
Duet	pt	6.22
Evik DF 80W	lb	11.22
Exceed	oz	10.71
Exceed Custom Pak	oz	11.50
Expert	pt	4.39
Facet 75DF	lb	50.00
First Rate	oz	42.57
Flexstar HL	pt	6.88
FloMet 4L	pt	4.74
Freedom	qt	2.51
Front Row	oz	21.92
Frontier 6.0	oz	0.63
Fultime	pt	6.29
Fusilade DX	oz	1.15
Fusion	pt	29.86
Glyfos	pt	1.80
Glyphomax	pt	3.49
Glyphosate Plus 4L	pt	4.95
Glystar Plus	pt	2.17
Goal 2XL	pt	8.69
Gramoxone Extra	pt	0.00
Gramoxone Max	pt	3.00
Gramoxone Max	pt	3.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2022.

ITEM NAME	UNIT	PRICE
		dollars
Grandstand R	qt	17.79
Guardsman	pt	4.66
Guardsman Max	pt	7.22
Harmony Extra	oz	12.02
Hoelon 3EC	pt	11.03
Karmex DF	lb	5.93
LA Asulox/Asulam	gal	44.00
LA Weedmaster	qt	4.63
Lariat	qt	7.58
Lasso 4EC	qt	6.60
Lasso II 15G	lb	0.00
Layby Pro	qt	12.50
Lexone 75DF	lb	18.90
Liberty	pt	8.84
Lightning	oz	14.25
Lightning	oz	14.25
Linex 4L	pt	9.28
Londax 60DF	oz	18.08
Lorox 50DF	lb	24.12
Matador	pt	0.00
MSMA 6.6	pt	3.86
MSMA6 + Surfactant	pt	3.86
Newpath 2SL	oz	3.83
Ordram 15-G	lb	1.34
Ordram 8-E	pt	9.42
Outlook	pt	17.66
Pendimax 3.3	pt	2.47
Permit 75DF	oz	15.00
Poast 1.53	pt	12.77
Poast Plus	pt	9.69
Propanil 4E	qt	5.15
Prowl 3.3 EC	pt	3.75
Pursuit DG	oz	11.59
Pursuit Plus EC	pt	7.10
Python WDG	oz	15.10
Raptor	oz	4.38
Reflex 2LC	pt	6.71
Regiment 80WP	oz	4.38
Remedy	pt	8.45
Resource .86EC	pt	26.88
Ricestar	pt	24.35
Roundup Original	pt	6.00
Roundup Original Max	oz	0.38
Roundup Power Max	pt	6.25
Roundup Ultra MAX	pt	5.97
Roundup Ultra Dry	lb	6.14
Roundup WeatherMax	oz	0.19
Scepter 70 DG	oz	4.64
Select 2EC	oz	0.69
Sencor 4F	pt	14.74
Sencor DF	lb	14.50
Squadron CE	pt	12.50
Stam 4E	qt	7.72
Stam 80 EDF	lb	9.45
Staple 85%	oz	16.01
Staple Plus	oz	8.55
Steadfast	oz	12.26
Steel	pt	10.28
Storm	pt	11.16
Strongarm	oz	56.42
Superwham	qt	8.61
Suprend	lb	13.52
Surpass 20G	lb	2.36
Surpass EC	qt	26.36
Touchdown	qt	10.21
Touchdown 4 IQ	pt	3.33
Touchdown Total	qt	10.21
Treflan HFP	pt	2.50
Treflan TR-10	lb	1.10

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2022.

ITEM NAME	UNIT	PRICE
		dollars
Tri-Scept	pt	5.24
Trifluralin 4EC	pt	3.68
Trilin 10G	lb	0.79
Trilin 4EC	pt	2.12
Typhoon	qt	13.06
Valor WP	oz	4.38
Whip 360	pt	25.08
Zorial Rapid 80DF	lb	14.10
INSECTICIDES		
Acephate 80SP	lb	0.00
Acephate 90SP	lb	8.58
Admire 2 Flowable	oz	4.78
Ammo 2.5 EC	oz	0.85
App Fert by Air(Min)	appl	7.50
Asana .66 XL	oz	0.63
Aztec 2.1% G	lb	3.88
Baythroid 2	oz	2.58
Besiege	oz	1.95
Bidrin 8L	oz	1.33
Brigade EC	pt	9.60
Brigade WSB	lb	26.04
Capture 2EC	oz	2.28
Carbamate	oz	0.00
Centric 40WG	oz	5.08
Comite	pt	8.45
Condor XL	pt	0.00
Confirm 2F	oz	1.88
Counter 15G	lb	4.51
Counter CR	lb	2.65
Curacron 8E	pt	10.75
Custom Apply Fert	acre	7.00
Decis 1.5EC	oz	2.84
Declare	pt	4.08
Denim 0.16EC	pt	32.63
Di-Syston 15G	lb	3.48
Di-Syston 8	pt	14.32
Diamond .83EC	pt	19.52
Dimethoate 4E	pt	5.65
Dimilin 2L	oz	1.70
Dipel DF	lb	13.13
Dipel ES	pt	4.89
Force 3G	lb	7.28
Furadan 3G	lb	0.00
Furadan 4F	pt	9.81
Fury 1.5 EC	oz	1.30
Gaucho 480	oz	5.80
Intrepid 2F	oz	1.94
Intruder 70WP	oz	1.80
Karate Z	oz	1.41
Lannate LV	pt	9.30
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	9.84
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	7.00
Orthene 97	lb	10.90
Ovasyn	pt	0.00
Ovicide	oz	0.00
Penncap M	pt	6.71
Phaser 3E	qt	8.13
Pirate 3SC	oz	0.00
Pounce 25WP	lb	19.52
Pounce 3.2 EC	oz	0.34

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2022.

ITEM NAME	UNIT	PRICE
		dollars
Prevathon	oz	1.05
Provado 1.6F	oz	1.94
Scout X-TRA	oz	0.00
Sevin 80S	lb	7.40
Sevin XLR Plus	qt	16.01
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	2.74
IRRIGATION SUPPLIES		
Rice Gates	each	3.65
Roll-Out Pipe	ft	0.24
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	4.38
Corn Seed Conv.	thous	1.93
Corn Seed RR	thous	3.38
Corn Seed VT3	thous	3.91
Corn Seed VT3Pro	thous	3.91
Cotton Seed BG/RR	thous	0.62
Cotton Seed BGII/RRF	thous	2.70
Cotton Seed Bt	thous	2.60
Cotton Seed BtRR	thous	3.15
Cotton Seed Bxn	thous	0.00
Cotton Seed Conv.	thous	0.00
Cotton Seed Liberty	thous	1.05
Cotton Seed Liberty	thous	1.05
Cotton Seed RR	thous	0.63
Cotton Seed RR	thous	0.63
Cotton Seed WS	thous	0.49
Cotton Seed WS/RR	thous	0.00
Cotton Seed WS/RRF	thous	0.59
Rice Clearfield 161	lb	1.15
Rice Clearfield XL8	lb	6.12
Rice Seed (Levees)	lb	0.90
Rice Seed CF(Levees)	lb	0.95
Rice Seed Conv.	lb	0.35
Rice Seed Hybrid	lb	5.66
SC Cultured seedcane	acre	484.00
Sorghum Concept	lb	3.90
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	1.40
Soybean Seed Stack	lb	1.28
Wheat Seed Private	lb	0.28
Wheat Seed Public	lb	0.00

Appendix Table 3. Operating inputs: estimated prices Louisiana, 2022.

ITEM NAME	UNIT	PRICE
		dollars
Cotton Checkoff	bale	2.56
Cotton Storage	bale	25.00
Crop Consultant	acre	7.00
Custom Combine Rice	acre	0.00
Custom Spread(Truc	appl	4.50
Digital Ag Fee	acre	8.50
Digital Ag Fee	acre	8.50
Haul Sorghum	bu	0.25
Insect Scouting	acre	7.00
LARice Air Plant NE	cwt	5.50
Lime (Spread)	ton	59.00
Rice Consultant	acre	8.00
RRF Cotton Tech Fee	cap/ac	48.25
SC Treating Charge	acre	0.00
Soil Test	acre	10.00
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 2022.

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	15.30	27.77	0.00	43.07	0.00	43.07
Combine (200-249 hp)	240hp	161,548	300	8	12.35	15.30	35.07	16.82	67.20	62.44	129.65
Combine (225-274 hp)	Track250hp	0	300	8	12.87	15.30	36.55	0.00	51.85	0.00	51.85
Combine (250-299 hp)	275hp	391,000	300	8	14.15	15.30	40.18	40.72	96.21	151.14	247.36
Combine (250-299hp)	Grass295hp	218,222	300	8	15.18	15.30	43.11	22.73	81.14	84.35	165.49
Combine (275-299 hp)	Track290hp	0	300	8	14.93	15.30	42.40	0.00	57.70	0.00	57.70
Combine (300-349 hp)	325hp	383,000	300	8	16.73	15.30	47.51	39.89	102.70	148.05	250.76
Combine (300-349hp)	Track320hp	0	300	8	16.47	15.30	46.77	0.00	62.07	0.00	62.07
Combine (350-379 hp)	370hp	413,700	300	8	19.04	15.30	54.07	43.09	112.46	159.92	272.38
Combine (350-379 hp)	Track365hp	0	300	8	18.79	15.30	53.36	0.00	68.66	0.00	68.66
Cotton Stripper	173hp	170,000	200	8	8.08	15.30	22.94	26.56	64.80	98.57	163.38
SC Tractor 93 MDR	93	46,683	600	10	4.79	11.88	13.60	2.72	28.20	7.25	35.46
SC Tractpr 68 MDR	68	27,049	600	10	3.50	11.88	9.94	1.57	23.39	4.20	27.60
test-mes		0	0	0	0.00	15.30	0.00	0.00	0.00	0.00	0.00
Tractor(40-59hp)Cab	2WD 50	32,100	600	8	2.57	11.88	7.30	1.00	20.19	5.62	25.81
Tractor(40-59hp)Cab	MFWD 50	42,600	600	8	2.57	11.88	7.30	1.33	20.52	7.46	27.98
Tractor(40-59hp)RB	2WD 50	30,900	600	8	2.57	11.88	7.30	0.96	20.15	5.41	25.56
Tractor(40-59hp)RB	MFWD 50	30,500	600	8	2.57	11.88	7.30	0.95	20.14	5.34	25.48
Tractor(60-89hp)CAB	2WD 75	56,700	600	8	3.86	11.88	10.96	1.77	24.61	9.93	34.54
Tractor(60-89hp)CAB	MFWD 75	60,500	600	8	3.86	11.88	10.96	1.89	24.73	10.59	35.33
Tractor(60-89hp)RB	2WD 75	43,100	600	8	3.86	11.88	10.96	1.34	24.19	7.55	31.74
Tractor(60-89hp)RB	MFWD 75	43,800	600	8	3.86	11.88	10.96	1.36	24.21	7.67	31.88
Tractor(90-119hp)CB	2WD 105	74,700	600	8	5.40	11.88	15.34	2.33	29.56	13.08	42.65
Tractor(90-119hp)CB	MFWD 105	94,500	600	8	5.40	11.88	15.34	2.95	30.18	16.55	46.73
Tractor(90-119hp)RB	2WD 105	67,100	600	8	5.40	11.88	15.34	2.09	29.32	11.75	41.08
Tractor(90-119hp)RB	MFWD 105	75,300	600	8	5.40	11.88	15.34	2.35	29.58	13.19	42.77
Tractor(120-139hp)CB	2WD 130	117,400	600	8	6.69	11.88	19.00	3.66	34.55	20.56	55.12
Tractor(120-139hp)CB	MFWD 130	131,100	600	8	6.69	11.88	19.00	4.09	34.98	22.96	57.94
Tractor(140-159hp)CB	2WD 150	116,100	600	8	7.72	11.88	21.92	3.62	37.43	20.34	57.77
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	11.88	21.92	4.46	38.27	25.05	63.32
Tractor(160-179hp)CB	2WD 170	160,000	600	8	8.75	11.88	24.85	5.00	41.73	29.47	71.20
Tractor(160-179hp)CB	MFWD 170	164,000	600	8	8.75	11.88	24.85	5.12	41.85	30.21	72.07
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	11.88	26.31	4.45	42.65	26.29	68.94
Tractor(180-199hp)CB	2WD 190	143,000	600	8	9.77	11.88	27.77	4.46	44.12	26.34	70.46
Tractor(180-199hp)CB	MFWD 190	206,000	600	8	9.77	11.88	27.77	6.43	46.09	37.95	84.04
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	11.88	32.89	4.59	49.36	27.09	76.46
Tractor(200-249hp)CB	MFWD 225	248,000	600	8	11.58	11.88	32.89	7.75	52.52	45.69	98.21
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	11.88	32.89	8.65	53.42	51.03	104.46
Tractor(250-349hp)CB	4WD 300	298,000	600	8	15.44	11.88	43.85	9.31	65.04	54.90	119.95
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	11.88	43.85	10.28	66.01	60.61	126.63
Tractor(350-449hp)CB	4WD 400	406,000	600	8	20.58	11.88	58.47	12.68	83.04	74.80	157.84
Tractor(350-449hp)CB	Track 400	492,000	600	8	20.58	11.88	58.47	15.37	85.72	90.64	176.37
Tractor(450-uphp)CB	TRACK-475	279,879	600	8	24.44	11.88	69.43	8.74	90.06	51.56	141.62

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 2022.

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	17,399	200	8	13.33	0.172	3.88	5.60	8.54	18.03	36.25	54.29
Cotton Picker-1st-BB	4R30"250hp	62,000	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
Cotton Picker/Module	6R-30(500)	854,000	200	8	25.73	0.218	5.93	15.95	29.12	51.00	108.07	159.08
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'	234,000	350	8	10.29	0.013	0.26	0.38	0.16	0.81	1.02	1.83
Sprayer(600-825Gal)	90'	328,000	350	8	10.29	0.011	0.23	0.34	0.20	0.78	1.27	2.06
Sprayer(1000-1400Gal	90'	328,000	350	8	14.15	0.014	0.27	0.56	0.24	1.09	1.53	2.62
Sprayer(1200PlusGal)	120'	401,000	350	8	15.44	0.008	0.17	0.38	0.18	0.75	1.17	1.92

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Louisiana 2022.

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							
Blade-Box	6'	2WD 130	1,500	200	20	0.020	0.23	0.38	0.01	0.07	0.70	0.01	0.41	1.12
Blade-Box	10'	2WD 50	3,890	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	6,190	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	1,270	200	20	1.176	13.97	8.59	0.70	1.13	24.42	0.51	6.36	31.30
Blade-Scraper	10'	2WD 50	3,870	200	20	1.176	13.97	8.59	2.16	1.13	25.87	1.56	6.36	33.80
Blade-Scraper	14'	2WD 50	10,790	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	6.17	14.43	3.96	3.34	27.91	7.46	19.72	55.09
Boll Buggy-1st pick	4R2x1260hp	MFWD 190	30,500	200	10	0.172	2.04	4.78	1.31	1.10	9.25	2.47	6.53	18.26
Boll Buggy-1st pick	4R30"255hp	MFWD 190	30,500	200	10	0.327	3.88	9.09	2.49	2.10	17.58	4.69	12.42	34.71
Boll Buggy-1st pick	4R30"325hp	MFWD 190	30,500	200	10	0.327	3.88	9.09	2.49	2.10	17.58	4.69	12.42	34.71
Boll Buggy-1st pick	4R38"255hp	MFWD 190	30,500	200	10	0.257	3.06	7.15	1.96	1.65	13.84	3.70	9.78	27.33
Boll Buggy-1st pick	4R38"325hp	MFWD 190	30,500	200	10	0.257	3.06	7.15	1.96	1.65	13.84	3.70	9.78	27.33
Boll Buggy-1st pick	5R30"255hp	MFWD 190	30,500	200	10	0.261	3.11	7.27	1.99	1.68	14.06	3.75	9.93	27.76
Boll Buggy-1st pick	5R38"255hp	MFWD 190	30,500	200	10	0.207	2.46	5.75	1.57	1.33	11.13	2.97	7.86	21.96
Boll Buggy-1st pick	6R30"325hp	MFWD 190	30,500	200	10	0.218	2.59	6.06	1.66	1.40	11.72	3.13	8.28	23.14
Boll Buggy-1st pick	6R38"325hp	MFWD 190	30,500	200	10	0.172	2.04	4.78	1.31	1.10	9.25	2.47	6.53	18.26
Boll Buggy-2nd pick	2R38"157hp	MFWD 190	30,500	200	10	0.440	5.22	12.22	3.35	2.83	23.64	6.31	16.70	46.67
Boll Buggy-2nd pick	4R2x1260hp	MFWD 190	30,500	200	10	0.145	1.73	4.05	1.11	0.93	7.84	2.09	5.53	15.47
Boll Buggy-2nd pick	4R30"255hp	MFWD 190	30,500	200	10	0.277	3.29	7.70	2.11	1.78	14.89	3.98	10.52	29.40
Boll Buggy-2nd pick	4R30"325hp	MFWD 190	30,500	200	10	0.277	3.29	7.70	2.11	1.78	14.89	3.98	10.52	29.40
Boll Buggy-2nd pick	4R38 255hp	MFWD 190	30,500	200	10	0.218	2.59	6.06	1.66	1.40	11.72	3.13	8.28	23.15
Boll Buggy-2nd pick	4R38 325hp	MFWD 190	30,500	200	10	0.218	2.59	6.06	1.66	1.40	11.72	3.13	8.28	23.15
Boll Buggy-2nd pick	5R30"255hp	MFWD 190	30,500	200	10	0.221	2.63	6.16	1.69	1.42	11.91	3.18	8.41	23.52
Boll Buggy-2nd pick	5R38"255hp	MFWD 190	30,500	200	10	0.175	2.08	4.87	1.33	1.12	9.42	2.51	6.66	18.60
Boll Buggy-2nd pick	6R30"325hp	MFWD 190	30,500	200	10	0.184	2.19	5.13	1.40	1.19	9.93	2.65	7.01	19.60
Boll Buggy-2nd pick	6R38"325hp	MFWD 190	30,500	200	10	0.145	1.73	4.05	1.11	0.93	7.84	2.09	5.53	15.47
Boll Buggy-Stripper	13' Bcast	MFWD 150	30,500	200	10	0.251	2.99	5.52	1.92	1.12	11.55	3.61	6.30	21.48
Boll Buggy-Stripper	16' Bcast	MFWD 150	30,500	200	10	0.204	2.43	4.48	1.56	0.91	9.39	2.93	5.12	17.45
Boll Buggy-Stripper	19' Bcast	MFWD 150	30,500	200	10	0.172	2.04	3.77	1.31	0.77	7.90	2.47	4.31	14.69
Boll Buggy-Stripper	4R30"2X1Br	MFWD 150	30,500	200	10	0.218	2.59	4.78	1.66	0.97	10.01	3.13	5.46	18.61
Boll Buggy-Stripper	4R30"Brush	MFWD 150	30,500	200	10	0.327	3.88	7.17	2.49	1.46	15.02	4.69	8.20	27.92
Boll Buggy-Stripper	4R38"2X1Br	MFWD 150	30,500	200	10	0.172	2.04	3.77	1.31	0.77	7.90	2.47	4.31	14.69
Boll Buggy-Stripper	4R38"Brush	MFWD 150	30,500	200	10	0.257	3.06	5.65	1.96	1.15	11.83	3.70	6.45	21.99
Boll Buggy-Stripper	5R30"Brush	MFWD 150	30,500	200	10	0.261	3.11	5.74	1.99	1.17	12.02	3.75	6.56	22.34
Boll Buggy-Stripper	5R38"Brush	MFWD 150	30,500	200	10	0.207	2.46	4.54	1.57	0.92	9.51	2.97	5.19	17.67
Boll Buggy-Stripper	6R30"Brush	MFWD 150	30,500	200	10	0.218	2.59	4.78	1.66	0.97	10.01	3.13	5.46	18.61
Chisel Plow(Folding)	16'	2WD 130	22,500	150	12	0.115	1.37	2.19	0.93	0.42	4.93	1.50	2.37	8.80
Chisel Plow(Folding)	24'	MFWD 190	45,200	150	12	0.076	0.90	2.12	1.24	0.49	4.77	1.99	2.90	9.66
Chisel Plow(Folding)	32'	MFWD 225	58,400	150	12	0.057	0.68	1.90	1.21	0.44	4.25	1.94	2.63	8.83
Chisel Plow(Folding)	42'	MFWD 225	67,000	150	12	0.044	0.52	1.44	1.06	0.34	3.37	1.70	2.01	7.09
Chisel Plow(Rigid)	15'	2WD 130	15,800	150	12	0.123	1.46	2.34	0.70	0.45	4.96	1.12	2.53	8.62
Chisel Plow(Rigid)	24'	MFWD 190	16,000	150	12	0.077	0.91	2.13	0.44	0.49	3.99	0.71	2.92	7.63
Chisel-Harrow	21 shank	2WD 190	6,750	150	12	0.088	1.04	2.44	0.21	0.39	4.09	0.34	2.31	6.76
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.81	2.25	0.34	0.53	3.94	0.55	3.12	7.63
Colter-Chisel-Harrow	21 shank	2WD 190	19,200	150	12	0.088	1.04	2.44	0.61	0.39	4.49	0.97	2.31	7.79
Colter-Chisel-Harrow	27 shank	MFWD 225	24,000	150	12	0.068	0.81	2.25	0.59	0.53	4.18	0.94	3.12	8.26
Corn Grain Cart 8R30	500 bu	MFWD 190	29,100	200	12	0.031	0.37	0.88	0.25	0.20	1.72	0.40	1.21	3.33
Corn Grain Cart 8R40	700bu	MFWD 190	44,900	200	12	0.025	0.29	0.69	0.30	0.16	1.45	0.48	0.94	2.89
Cult & Post	4R-38	2WD 105	21,600	150	10	0.173	3.08	2.65	0.99	0.36	7.10	2.45	2.03	11.59
Cult & Post	6R-30	MFWD 150	25,900	150	10	0.146	5.22	3.21	1.01	0.65	10.11	2.48	3.67	16.27
Cult & Post	6R-38	MFWD 150	26,600	150	10	0.115	2.06	2.53	0.82	0.51	5.94	2.01	2.90	10.86
Cult & Post	8R-30	MFWD 190	31,200	150	10	0.110	1.96	3.05	0.91	0.70	6.63	2.24	4.17	13.06
Cult & Post	8R-38	MFWD 190	35,800	150	10	0.086	1.54	2.41	0.83	0.55	5.35	2.04	3.30	10.69
Cult & Post	8R-38 2x1	MFWD 190	51,600	150	10	0.057	1.03	1.60	0.79	0.37	3.80	1.95	2.19	7.96
Cult & Post	10R-30	MFWD 225	32,000	150	10	0.088	1.56	2.89	0.75	0.68	5.89	1.84	4.02	11.76
Cult & Post	10R-38	MFWD 225	0	150	10	0.065	1.15	2.13	0.00	0.50	3.80	0.00	2.97	6.77
Cult & Post	12R-30	MFWD 225	50,600	150	10	0.073	1.30	2.41	0.98	0.56	5.27	2.43	3.35	11.05
Cult & Post	12R-38	MFWD 225	54,000	150	10	0.057	1.03	1.90	0.83	0.44	4.21	2.04	2.64	8.91
Cultipacker	12'	2WD 130	6,720	300	12	0.124	1.47	2.36	0.19	0.45	4.49	0.25	2.55	7.30
Cultipacker	20'	MFWD 150	10,900	300	12	0.074	0.88	1.63	0.19	0.33	3.04	0.24	1.87	5.16
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	1.92	2.49	0.61	0.34	5.37	1.51	1.90	8.79
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	1.63	3.01	0.67	0.61	5.94	1.66	3.44	11.05
Cultivate	6R-38	MFWD 150	20,400	150	10	0.108	1.28	2.38	0.59	0.48	4.74	1.45	2.71	8.91
Cultivate	8R-30	MFWD 190	24,900	150	10	0.103	1.22	2.86	0.68	0.66	5.43	1.68	3.91	11.03
Cultivate	8R-38	MFWD 190	28,400	150	10	0.081	0.96	2.26	0.61	0.52	4.37	1.51	3.09	8.98
Cultivate	8R-38 2x1	MFWD 190	40,400	150	10	0.054	0.64	1.50	0.58	0.34	3.08	1.43	2.06	6.58
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	0.98	2.71	0.62	0.63	4.95	1.52	3.76	10.24
Cultivate	10R-38	MFWD 225	0	150	10	0.065	0.77	2.13	0.00	0.50	3.41	0.00	2.97	6.38
Cultivate	12R-30	MFWD 225	45,300	150	10	0.068	0.81	2.26	0.83	0.53	4.44	2.04	3.14	9.62
Cultivate	12R-38	MFWD 225	46,300	150	10	0.054	0.64	1.78	0.67	0.42	3.52	1.64	2.48	7.64
Disk & Incorporate	14'	2WD 130	33,700	200	10	0.149	2.66	2.84	1.51	0.54	7.57	2.47	3.07	13.13
Disk & Incorporate	24'	MFWD 190	53,600	200	10	0.087	1.55	2.42	1.40	0.56	5.94	2.29	3.31	11.55
Disk & Incorporate	32'	4WD 225	68,700	200	10	0.068	1.22	2.26	1.41	0.31	5.21	2.32	1.86	9.40
Disk & Incorporate	42'	MFWD 225	30,542	200	10	0.049	0.87	1.61	0.44	0.38	3.32	0.73	2.24	6.30
Disk Bed (Hipper)	4R-38	MFWD 150	10,500	160	10	0.147	1.75	3.23	0.38	0.65	6.03	0.95	3.69	10.68
Disk Bed (Hipper)	6R-30	MFWD 170	16,200	160	10	0.125	1.48	3.10	0.50	0.64	5.73	1.24	3.77	10.75
Disk Bed (Hipper)	6R-38	MFWD 170	16,200	160	10	0.098	1.17	2.45	0.39	0.50	4.52	0.98	2.98	8.49
Disk Bed (Hipper)	8R-30	MFWD 190	20,800	160	10	0.093	1.11	2.60	0.48	0.60	4.80	1.19	3.55	9.56
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	51,400	160	10	0.049	0.58	1.37	0.63	0.31	2.90	1.55	1.87	6.33
Disk Bed (Hipper)	10R-30	MFWD 225	19,900	160	10	0.075	0.89	2.46	0.37	0.58	4.31	0.91	3.42	8.65
Disk Bed (Hipper)	10R-38	MFWD 225	23,100	160	10	0.059	0.70	1.94	0.34	0.45	3.44	0.83	2.70	6.99
Disk Bed (Hipper)	12R-30	MFWD 225	40,100	160	10	0.062	0.74	2.05	0.62	0.48	3.90	1.53	2.85	8.30

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2022.

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							
Disk Bed (Hipper)	12R-38	MFWD 225	51,400	160	10	0.049	0.58	1.62	0.63	0.38	3.22	1.55	2.25	7.03
Disk Bed (Hipper)Fld	8R-38	MFWD 190	22,000	160	10	0.074	0.88	2.05	0.40	0.47	3.82	1.00	2.81	7.63
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	19,700	160	10	0.074	0.88	2.05	0.36	0.47	3.78	0.89	2.81	7.49
Disk Bed w/roller	8R-30	2WD 190	26,900	160	10	0.093	1.11	2.60	0.63	0.41	4.76	1.54	2.46	8.78
Disk Bed w/roller	12R-30	MFWD 225	50,900	160	10	0.062	0.74	2.05	0.79	0.48	4.07	1.95	2.85	8.88
Disk Harrow	14'	2WD 130	32,200	180	10	0.140	1.66	2.66	1.25	0.51	6.10	2.46	2.88	11.45
Disk Harrow	24'	MFWD 190	52,200	180	10	0.081	0.97	2.27	1.18	0.52	4.95	2.33	3.10	10.39
Disk Harrow	28'	MFWD 225	62,300	180	10	0.070	0.83	2.30	1.21	0.54	4.89	2.38	3.20	10.49
Disk Harrow	32'		62,600	180	10	0.061	0.93	0.00	1.06	0.00	0.00	2.09	0.00	0.00
Disk Harrow	42'	MFWD 225	110,100	180	10	0.046	0.55	1.53	1.43	0.36	3.88	2.81	2.13	8.83
Ditcher		2WD 130	6,480	200	10	0.020	0.23	0.38	0.05	0.07	0.74	0.06	0.41	1.21
Ditcher (1m/160a)		2WD 130	6,480	200	10	0.009	0.11	0.17	0.02	0.03	0.34	0.02	0.19	0.57
Fert Appl (Liquid)	4R-38	MFWD 150	19,000	150	8	0.154	2.75	3.39	1.95	0.69	8.79	2.05	3.87	14.73
Fert Appl (Liquid)	6R-30	MFWD 170	19,800	150	8	0.130	2.33	3.25	1.72	0.67	7.98	1.81	3.95	13.76
Fert Appl (Liquid)	6R-38	MFWD 170	19,800	150	8	0.103	1.84	2.56	1.36	0.52	6.30	1.43	3.12	10.86
Fert Appl (Liquid)	8R-30	MFWD 190	20,100	150	8	0.098	1.75	2.72	1.31	0.63	6.42	1.38	3.72	11.53
Fert Appl (Liquid)	8R-38	MFWD 190	22,600	150	8	0.077	1.38	2.15	1.16	0.49	5.20	1.22	2.94	9.38
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	25,200	150	8	0.051	0.92	1.43	0.86	0.33	3.55	0.91	1.96	6.43
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.40	2.58	0.97	0.60	5.56	1.02	3.58	10.18
Fert Appl (Liquid)	10R-38	MFWD 225	20,300	150	8	0.061	1.10	2.03	0.83	0.48	4.46	0.88	2.83	8.17
Fert Appl (Liquid)	12R-30	MFWD 225	25,900	150	8	0.078	1.40	2.58	1.35	0.60	5.94	1.42	3.58	10.96
Fert Appl (Liquid)	12R-38	MFWD 225	23,700	150	8	0.051	0.92	1.70	0.81	0.40	3.83	0.85	2.36	7.05
Field Cult & Inc	12'	2WD 150	19,600	100	10	0.132	2.35	2.89	0.64	0.47	6.38	2.54	2.68	11.61
Field Cult & Inc	24'	MFWD 170	38,500	100	10	0.066	1.17	1.64	0.63	0.33	3.79	2.50	1.99	8.29
Field Cult & Inc	32'	MFWD 190	50,900	100	10	0.049	0.88	1.37	0.63	0.31	3.21	2.48	1.88	7.57
Field Cult & Inc	42'	MFWD 225	69,000	100	10	0.037	0.67	1.24	0.65	0.29	2.85	2.56	1.72	7.14
Field Cultivate	12'	2WD 150	19,600	100	10	0.124	1.47	2.72	0.60	0.45	5.26	2.39	2.53	10.19
Field Cultivate	24'	MFWD 170	31,100	100	10	0.062	0.73	1.54	0.48	0.31	3.08	1.90	1.87	6.87
Field Cultivate	32'	MFWD 190	43,500	100	10	0.046	0.55	1.29	0.50	0.30	2.65	1.99	1.77	6.42
Field Cultivate	42'	MFWD 225	60,600	100	10	0.035	0.42	1.16	0.53	0.27	2.40	2.11	1.62	6.14
Field Cultivate	50'	MFWD 225	69,000	100	10	0.029	0.35	0.98	0.51	0.23	2.08	2.02	1.36	5.47
Gate Installer		2WD 130	2,960	10	10	0.020	0.47	0.38	0.17	0.07	1.10	0.55	0.41	2.07
Grain Drill	12'	2WD 130	28,200	150	8	0.157	3.73	2.98	1.66	0.57	8.95	2.94	3.23	15.13
Grain Drill	15'	MFWD 150	34,400	150	8	0.125	2.98	2.75	1.62	0.56	7.92	2.87	3.14	13.95
Grain Drill	20'	MFWD 170	41,900	150	8	0.094	2.24	2.34	1.48	0.48	6.54	2.62	2.84	12.02
Grain Drill	24'	MFWD 190	67,300	150	8	0.078	1.86	2.18	1.98	0.50	6.53	3.51	2.98	13.03
Grain Drill	30'	MFWD 225	68,900	150	8	0.062	1.49	2.06	1.62	0.48	5.67	2.87	2.87	11.42
Grain Drill & Pre	12'	2WD 130	35,400	150	8	0.169	4.02	3.21	2.24	0.62	10.10	3.98	3.48	17.56
Grain Drill & Pre	15'	MFWD 150	41,200	150	8	0.135	3.21	2.96	2.09	0.60	8.88	3.70	3.39	15.98
Grain Drill & Pre	20'	MFWD 170	46,800	150	8	0.101	2.41	2.52	1.78	0.52	7.23	3.15	3.06	13.46
Grain Drill & Pre	24'	MFWD 190	74,200	150	8	0.084	2.01	2.35	2.35	0.54	7.25	4.17	3.21	14.64
Grain Drill & Pre	30'	MFWD 225	75,800	150	8	0.067	1.60	2.22	1.92	0.52	6.28	3.41	3.09	12.78
Harrow	13'	2WD 130	4,360	200	10	0.119	1.41	2.27	0.18	0.43	4.30	0.25	2.45	7.02
Harrow	21'	2WD 150	6,750	200	10	0.073	0.87	1.62	0.17	0.26	2.94	0.24	1.50	4.69
Harrow	40'	MFWD 190	21,300	200	10	0.038	0.46	1.07	0.28	0.24	2.07	0.40	1.47	3.95
Harrow	47'	MFWD 190	26,000	200	10	0.033	0.39	0.91	0.30	0.21	1.82	0.42	1.25	3.49
Header - Corn	4R-38	240hp	25,147	300	8	0.201	3.07	7.05	1.26	3.38	14.78	1.77	12.55	29.11
Header - Corn	6R30"	240hp	54,200	300	8	0.170	2.60	5.97	2.30	2.86	13.75	3.23	10.63	27.61
Header - Corn	6R38"	240hp	53,800	300	8	0.134	2.05	4.71	1.80	2.26	10.84	2.53	8.39	21.77
Header - Corn	8R-30	240hp	71,200	300	8	0.127	1.95	4.47	2.27	2.14	10.85	3.18	7.97	22.01
Header - Corn	8R-38	275hp	72,200	300	8	0.100	1.54	4.05	1.82	4.11	11.53	2.55	15.25	29.35
Header - Corn	12R-20	275hp	105,000	300	8	0.127	1.95	5.13	3.35	5.20	15.64	4.69	19.30	39.64
Header - Corn	12R-30	275hp	118,000	300	8	0.085	1.30	3.42	2.51	3.46	10.70	3.52	12.86	27.09
Header - Rice (CL)	22' Rigid	240hp	64,400	300	8	0.288	4.41	10.11	4.64	4.85	24.02	6.50	18.01	48.55
Header - Rice (CL)	25' Rigid	240hp	64,400	300	8	0.253	3.88	8.90	4.08	4.27	21.14	5.72	15.85	42.72
Header - Rice (CL)	30' Rigid	275hp	74,100	300	8	0.211	3.23	8.50	3.91	8.61	24.27	5.49	31.97	61.73
Header - Rice (SL)	22' Rigid	240hp	64,400	300	8	0.250	3.82	8.76	4.02	4.20	20.82	5.64	15.61	42.07
Header - Rice (SL)	25' Rigid	240hp	64,400	300	8	0.220	3.36	7.71	3.54	3.70	18.32	4.96	13.73	37.02
Header - Rice (SL)	30' Rigid	275hp	74,100	300	8	0.183	2.80	7.36	3.39	7.46	21.03	4.75	27.70	53.50
Header - Soybean	15' Flex	240hp	0	300	8	0.170	2.60	5.97	0.00	2.86	11.44	0.00	10.63	22.07
Header - Soybean	18' Flex	240hp	20,309	300	8	0.141	2.17	4.97	0.72	2.38	10.25	1.00	8.86	20.12
Header - Soybean	22' Flex	240hp	33,800	300	8	0.116	1.77	4.07	0.98	1.95	8.78	1.37	7.25	17.40
Header - Soybean	25' Flex	275hp	37,000	300	8	0.102	1.56	4.10	0.94	4.16	10.77	1.32	15.44	27.54
Header - Soybean	30' Flex	275hp	44,700	300	8	0.085	1.30	3.42	0.95	3.46	9.14	1.33	12.86	23.34
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	2.17	4.97	0.67	2.38	10.21	0.94	8.86	20.02
Header Wheat/Sorghum	22' Rigid	240hp	19,800	300	8	0.116	1.77	4.07	0.57	1.95	8.37	0.80	7.25	16.43
Header Wheat/Sorghum	25' Rigid	240hp	25,400	300	8	0.102	1.56	3.58	0.64	1.71	7.51	0.90	6.38	14.80
Header Wheat/Sorghum	30' Rigid	275hp	29,100	300	8	0.085	1.30	3.42	0.61	3.46	8.81	0.86	12.86	22.54
Header-Cotton Bcast	13'	173hp	21,300	200	8	0.251	6.84	5.77	1.00	6.68	20.31	2.81	24.82	47.96
Header-Cotton-Bcast	16'	173hp	23,800	200	8	0.204	5.56	4.69	0.91	5.43	16.60	2.55	20.16	39.33
Header-Cotton-Bcast	19'	173hp	26,200	200	8	0.172	4.68	3.95	0.84	4.57	14.06	2.37	16.98	33.41
Header-Cotton-Brush	4R30"	173hp	20,520	200	8	0.327	8.89	7.51	1.25	8.69	26.36	3.53	32.27	62.16
Header-Cotton-Brush	4R30"2X1	173hp	34,400	200	8	0.218	5.93	5.00	1.40	5.79	18.14	3.94	21.51	43.60
Header-Cotton-Brush	4R38"	173hp	34,000	200	8	0.257	7.00	5.91	1.64	6.84	21.41	4.60	25.41	51.42
Header-Cotton-Brush	4R38"2X1	173hp	36,000	200	8	0.172	4.68	3.95	1.16	4.57	14.37	3.26	16.98	34.62
Header-Cotton-Brush	5R-30	173hp	42,800	200	8	0.261	7.11	6.00	2.10	6.95	22.18	5.89	25.81	53.89
Header-Cotton-Brush	5R-38	173hp	44,300	200	8	0.207	5.63	4.75	1.72	5.50	17.61	4.82	20.42	42.86
Header-Cotton-Brush	6R-30	173hp	52,700	200	8	0.218	5.93	5.00	2.15	5.79	18.89	6.04	21.51	46.45
Heavy Disk	14'	MFWD 150	25,900	180	10	0.145	1.73	3.20	1.05	0.65	6.63	2.06	3.65	12.35

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2022.

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---------------------							
Heavy Disk	27'	MFWD 190	50,400	180	10	0.075	0.89	2.10	1.05	0.48	4.54	2.08	2.87	9.50
LA Boom Sprayer	30 ft	MFWD 150	3,000	150	10	0.059	0.71	1.31	0.13	0.26	2.42	0.13	1.50	4.06
Land Plane	40'x10'	MFWD 190	6,020	200	10	0.242	2.88	6.73	0.29	1.56	11.47	0.71	9.20	21.40
Land Plane	50'x16'	MFWD 190	11,100	200	10	0.151	1.80	4.21	0.33	0.97	7.32	0.82	5.75	13.90
LARice Backhoe-Rrmnt	2 ft	MFWD 150	6,000	100	10	0.500	5.94	10.96	2.64	2.23	21.77	3.44	12.52	37.75
LARice Land Level	13 ft	MFWD 150	7,500	200	15	0.190	2.25	4.16	0.15	0.84	7.43	0.60	4.76	12.80
LARice Levee Plow	8 ft	4WD 300	4,600	150	10	0.050	0.59	2.19	0.07	0.46	3.32	0.17	2.74	6.25
LARice Water Level	24 ft	4WD 300	3,500	100	15	0.149	1.78	6.57	0.23	1.39	9.98	0.44	8.23	18.66
Levee Splitter (1/80	2 blade	2WD 150	8,270	50	10	0.004	0.04	0.09	0.00	0.01	0.15	0.06	0.08	0.31
Lo-Till & Bed	4R-38	MFWD 190	5,100	150	12	0.145	1.72	4.04	0.26	0.93	6.97	0.44	5.52	12.94
Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.42	2.63	0.36	0.53	4.96	1.06	3.01	9.03
Middle Buster	8R-30	MFWD 190	20,800	160	8	0.114	1.35	3.17	0.55	0.73	5.81	1.64	4.33	11.79
Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.07	2.50	0.38	0.58	4.54	1.12	3.42	9.09
Middle Buster	8R-40 2x1	MFWD 190	29,200	160	8	0.060	0.71	1.66	0.41	0.38	3.18	1.21	2.28	6.67
Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.08	3.00	0.62	0.70	5.42	1.84	4.17	11.44
Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.85	2.36	0.54	0.55	4.32	1.59	3.29	9.21
Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.71	1.97	0.41	0.46	3.56	1.21	2.74	7.52
Module Builder-1st	2R-38(157)	MFWD 190	31,300	200	10	0.519	12.34	14.43	4.06	3.34	34.19	7.65	19.72	61.57
Module Builder-1st	4R-30(255)	MFWD 190	34,700	200	10	0.327	7.77	9.09	2.84	2.10	21.81	5.34	12.42	39.59
Module Builder-1st	4R-30(325)	MFWD 190	34,700	200	10	0.327	7.77	9.09	2.84	2.10	21.81	5.34	12.42	39.59
Module Builder-1st	4R-38(255)	MFWD 190	34,700	200	10	0.257	6.12	7.15	2.23	1.65	17.18	4.21	9.78	31.17
Module Builder-1st	4R-38(325)	MFWD 190	34,700	200	10	0.257	6.12	7.15	2.23	1.65	17.18	4.21	9.78	31.17
Module Builder-1st	4R2x1260hp	MFWD 190	34,700	200	10	0.172	4.09	4.78	1.49	1.10	11.48	2.81	6.53	20.83
Module Builder-1st	5R-30(255)	MFWD 190	34,700	200	10	0.261	6.22	7.27	2.27	1.68	17.45	4.27	9.94	31.67
Module Builder-1st	5R-38(255)	MFWD 190	34,700	200	10	0.207	4.92	5.75	1.79	1.33	13.80	3.38	7.86	25.05
Module Builder-1st	6R-30(325)	MFWD 190	34,700	200	10	0.218	5.18	6.06	1.89	1.40	14.54	3.56	8.28	26.39
Module Builder-1st	6R-38(325)	MFWD 190	34,700	200	10	0.172	4.09	4.78	1.49	1.10	11.48	2.81	6.53	20.83
Module Builder-2nd	2R-38(157)	MFWD 190	34,700	200	10	0.440	10.45	12.22	3.81	2.83	29.33	7.18	16.70	53.23
Module Builder-2nd	4R-30(255)	MFWD 190	34,700	200	10	0.277	6.58	7.70	2.40	1.78	18.48	4.52	10.52	33.53
Module Builder-2nd	4R-30(325)	MFWD 190	34,700	200	10	0.277	6.58	7.70	2.40	1.78	18.48	4.52	10.52	33.53
Module Builder-2nd	4R-38(255)	MFWD 190	34,700	200	10	0.218	5.18	6.06	1.89	1.40	14.55	3.56	8.28	26.40
Module Builder-2nd	4R-38(325)	MFWD 190	34,700	200	10	0.218	5.18	6.06	1.89	1.40	14.55	3.56	8.28	26.40
Module Builder-2nd	4R2x1 255	MFWD 190	34,700	200	10	0.145	3.46	4.05	1.26	0.93	9.72	2.38	5.53	17.65
Module Builder-2nd	5R-30(255)	MFWD 190	34,700	200	10	0.221	5.27	6.16	1.92	1.42	14.78	3.62	8.41	26.82
Module Builder-2nd	5R-38(255)	MFWD 190	34,700	200	10	0.175	4.17	4.87	1.52	1.12	11.69	2.86	6.66	21.22
Module Builder-2nd	6R-30(325)	MFWD 190	34,700	200	10	0.184	4.39	5.13	1.60	1.19	12.32	3.01	7.01	22.35
Module Builder-2nd	6R-38(325)	MFWD 190	34,700	200	10	0.145	3.46	4.05	1.26	0.93	9.72	2.38	5.53	17.65
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.98	5.52	2.18	1.12	14.81	4.11	6.30	25.23
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.86	4.48	1.77	0.91	12.03	3.34	5.12	20.50
Module Builder-Strip	19' Brush	MFWD 150	34,700	200	10	0.172	4.09	3.77	1.49	0.77	10.13	2.81	4.31	17.26
Module Builder-Strip	4R-30	MFWD 150	34,700	200	10	0.327	7.77	7.17	2.84	1.46	19.26	5.34	8.20	32.80
Module Builder-Strip	4R-30 2X1	MFWD 150	34,700	200	10	0.218	5.18	4.78	1.89	0.97	12.83	3.56	5.46	21.87
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	6.12	5.65	2.23	1.15	15.16	4.21	6.45	25.83
Module Builder-Strip	4R-38 2X1	MFWD 150	34,700	200	10	0.172	4.09	3.77	1.49	0.77	10.13	2.81	4.31	17.26
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	6.22	5.74	2.27	1.17	15.40	4.27	6.56	26.24
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.92	4.54	1.79	0.92	12.18	3.38	5.19	20.76
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	5.18	4.78	1.89	0.97	12.83	3.56	5.46	21.87
Mulcher Plow	30'	MFWD 225	0	100	10	0.068	0.80	2.24	0.00	0.52	3.57	0.00	3.11	6.68
NT Grain Drill	12'	2WD 130	46,900	150	8	0.163	3.88	3.11	2.87	0.60	10.47	5.10	3.36	18.94
NT Grain Drill	15'	MFWD 150	56,900	150	8	0.130	3.11	2.87	2.79	0.58	9.36	4.95	3.28	17.59
NT Grain Drill	20'	MFWD 170	68,700	150	8	0.098	2.33	2.44	2.53	0.50	7.80	4.48	2.96	15.25
NT Grain Drill	24'	MFWD 190	98,000	150	8	0.081	1.94	2.27	3.00	0.52	7.75	5.33	3.10	16.18
NT Grain Drill	30'	MFWD 225	104,300	150	8	0.065	1.55	2.15	2.56	0.50	6.77	4.53	2.99	14.30
NT Grain Drill & Pre	12'	2WD 130	54,000	150	8	0.176	4.18	3.34	3.56	0.64	11.75	6.32	3.62	21.70
NT Grain Drill & Pre	15'	MFWD 150	63,300	150	8	0.141	3.35	3.09	3.34	0.63	10.42	5.93	3.53	19.88
NT Grain Drill & Pre	20'	MFWD 170	74,700	150	8	0.105	2.51	2.62	2.96	0.54	8.64	5.25	3.19	17.09
NT Grain Drill & Pre	24'	MFWD 190	105,000	150	8	0.088	2.09	2.44	3.47	0.56	8.58	6.15	3.34	18.07
NT Grain Drill & Pre	30'	MFWD 225	112,000	150	8	0.070	1.67	2.31	2.96	0.54	7.50	5.24	3.22	15.97
NT Plant&Pre-Folding	8R-38	MFWD 170	67,800	150	8	0.083	1.98	2.07	2.12	0.42	6.61	3.76	2.52	12.91
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.055	1.32	1.38	2.23	0.28	5.22	3.95	1.68	10.86
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	2.01	2.35	1.82	0.54	6.73	3.23	3.21	13.17
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.58	1.85	1.32	0.42	5.19	2.34	2.53	10.07
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.51	2.93	3.28	0.68	9.41	5.82	4.01	19.25
NT Plant&Pre-Folding	12R-30	MFWD 190	94,600	150	8	0.070	1.67	1.95	2.50	0.45	6.58	4.43	2.67	13.69
NT Plant&Pre-Folding	12R-38	MFWD 190	107,000	150	8	0.055	1.32	1.54	2.23	0.35	5.46	3.95	2.11	11.53
NT Plant&Pre-Folding	16R-30	MFWD 190	142,000	150	8	0.052	1.25	1.46	2.81	0.34	5.88	4.99	2.00	12.87
NT Plant&Pre-Folding	23R-15	MFWD 190	192,000	150	8	0.073	1.74	2.04	5.28	0.47	9.54	9.37	2.78	21.70
NT Plant&Pre-Folding	24R-20	MFWD 190	214,000	150	8	0.052	1.25	1.46	4.24	0.34	7.30	7.52	2.00	16.83
NT Plant&Pre-Folding	24R-30	MFWD 190	223,000	150	8	0.035	0.83	0.97	2.94	0.22	4.99	5.22	1.33	11.55
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	5.02	4.01	2.74	0.77	12.56	4.86	4.35	21.78
NT Plant&Pre-Rigid	4R-38	2WD 130	36,000	150	8	0.166	3.95	3.16	2.24	0.61	9.98	3.98	3.42	17.39
NT Plant&Pre-Rigid	6R-30	MFWD 150	44,300	150	8	0.141	3.35	3.09	2.34	0.63	9.41	4.15	3.53	17.10
NT Plant&Pre-Rigid	6R-38	MFWD 150	43,500	150	8	0.111	2.64	2.44	1.81	0.49	7.40	3.21	2.78	13.40
NT Plant&Pre-Rigid	8R-22	MFWD 170	26,219	150	8	0.143	3.41	3.57	1.41	0.73	9.14	2.50	4.34	16.00
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,500	150	8	0.105	2.51	2.62	2.16	0.54	7.84	3.83	3.19	14.87
NT Plant&Pre-Rigid	8R-38	MFWD 170	52,400	150	8	0.077	1.83	1.91	1.51	0.39	5.66	2.68	2.33	10.68
NT Plant&Pre-Rigid	10R-30	MFWD 190	51,900	150	8	0.084	2.01	2.35	1.64	0.54	6.55	2.91	3.21	12.68

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2022.

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	66,600	150	8	0.105	2.51	2.93	2.64	0.68	8.77	4.68	4.01	17.46
NT Plant&Pre-Rigid	12R-30	MFWD 190	86,500	150	8	0.070	1.67	1.95	2.28	0.45	6.37	4.05	2.67	13.10
NT Plant-Folding	8R-38	MFWD 170	62,500	150	8	0.077	1.84	1.92	1.81	0.39	5.99	3.22	2.34	11.56
NT Plant-Folding	8R-38 2x1	MFWD 170	96,300	150	8	0.051	1.22	1.28	1.86	0.26	4.64	3.30	1.56	9.51
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.86	2.18	1.53	0.50	6.08	2.71	2.98	11.78
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.47	1.72	1.10	0.39	4.69	1.96	2.35	9.01
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.33	2.72	2.85	0.63	8.54	5.05	3.72	17.33
NT Plant-Folding	12R-30	MFWD 190	84,300	150	8	0.065	1.55	1.81	2.06	0.42	5.86	3.66	2.48	12.01
NT Plant-Folding	12R-38	MFWD 190	96,300	150	8	0.051	1.22	1.43	1.86	0.33	4.86	3.30	1.96	10.13
NT Plant-Folding	16R-30	MFWD 190	132,000	150	8	0.049	1.16	1.36	2.43	0.31	5.27	4.30	1.86	11.44
NT Plant-Folding	23R-15	MFWD 190	182,000	150	8	0.068	1.62	1.89	4.65	0.43	8.60	8.24	2.58	19.44
NT Plant-Folding	24R-20	MFWD 190	204,000	150	8	0.049	1.16	1.36	3.75	0.31	6.60	6.65	1.86	15.12
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.77	0.90	2.55	0.21	4.45	4.52	1.24	10.21
NT Plant-Rigid	4R-30	2WD 130	28,400	150	8	0.196	4.66	3.73	2.09	0.72	11.21	3.70	4.04	18.96
NT Plant-Rigid	4R-38	2WD 130	29,500	150	8	0.154	3.67	2.93	1.71	0.56	8.89	3.03	3.18	15.10
NT Plant-Rigid	6R-30	MFWD 150	38,300	150	8	0.130	3.11	2.87	1.88	0.58	8.44	3.33	3.28	15.06
NT Plant-Rigid	6R-38	MFWD 150	37,300	150	8	0.103	2.45	2.26	1.44	0.46	6.63	2.56	2.59	11.78
NT Plant-Rigid	8R-22	MFWD 170	21,142	150	8	0.133	3.17	3.32	1.05	0.68	8.23	1.87	4.03	14.15
NT Plant-Rigid	8R-30	MFWD 170	48,900	150	8	0.098	2.33	2.44	1.80	0.50	7.07	3.19	2.96	13.23
NT Plant-Rigid	8R-38	MFWD 170	46,800	150	8	0.077	1.84	1.92	1.36	0.39	5.53	2.41	2.34	10.29
NT Plant-Rigid	10R-30	MFWD 190	46,500	150	8	0.078	1.86	2.18	1.37	0.50	5.92	2.42	2.98	11.33
NT Plant-Rigid	12R-20	MFWD 190	61,200	150	8	0.098	2.33	2.72	2.25	0.63	7.94	3.99	3.72	15.66
NT Plant-Rigid	12R-30	MFWD 190	76,200	150	8	0.065	1.55	1.81	1.87	0.42	5.66	3.31	2.48	11.46
Paratill & Bed	4R-30	MFWD 225	18,700	150	12	0.204	2.42	6.72	1.37	1.58	12.11	2.20	9.33	23.65
Paratill & Bed	4R-38	MFWD 225	18,700	150	12	0.160	1.91	5.29	1.08	1.24	9.53	1.73	7.35	18.62
Paratill & Bed	6R-30	MFWD 225	17,300	150	12	0.136	1.61	4.48	0.85	1.05	8.00	1.36	6.22	15.58
Paratill & Bed	6R-38	MFWD 225	25,500	150	12	0.107	1.27	3.53	0.99	0.83	6.63	1.58	4.91	13.13
Paratill & Bed	8R-30	MFWD 225	22,600	150	12	0.102	1.21	3.36	0.83	0.79	6.19	1.33	4.66	12.20
Paratill & Bed	8R382X1	MFWD 225	69,100	150	12	0.053	0.63	1.76	1.34	0.41	4.16	2.14	2.45	8.76
Paratill & Bed Fold.	8R-38	MFWD 225	46,900	150	12	0.080	0.95	2.65	1.36	0.62	5.60	2.18	3.69	11.48
Paratill & Bed Fold.	12R-38	MFWD 225	67,900	150	12	0.053	0.63	1.76	1.31	0.41	4.14	2.10	2.45	8.70
Paratill & Bed Rigid	8R-38	MFWD 225	39,800	150	12	0.080	0.95	2.65	1.16	0.62	5.40	1.85	3.69	10.94
Pipe Drag	30'	2WD 150	500	100	12	0.051	0.61	1.13	0.00	0.18	1.94	0.02	1.05	3.02
Pipe Spool 160ac	1/4m roll	2WD 130	6,500	15	12	0.003	0.09	0.05	0.01	0.01	0.17	0.11	0.06	0.35
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.18	0.07	0.00	0.01	0.26	0.00	0.07	0.35
Plant & Pre Folding	8R-38	MFWD 170	61,000	150	8	0.080	1.90	1.99	1.83	0.41	6.14	3.25	2.42	11.82
Plant & Pre Folding	8R38 2x1	MFWD 170	94,300	150	8	0.053	1.26	1.32	1.88	0.27	4.76	3.34	1.61	9.72
Plant & Pre Folding	10R-30	MFWD 190	51,900	150	8	0.081	1.93	2.25	1.58	0.52	6.29	2.80	3.08	12.17
Plant & Pre Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.52	1.77	1.15	0.41	4.87	2.05	2.43	9.35
Plant & Pre Folding	12R-20	MFWD 190	72,600	150	8	0.101	2.41	2.82	2.76	0.65	8.65	4.89	3.85	17.40
Plant & Pre Folding	12R-30	MFWD 190	82,400	150	8	0.067	1.60	1.88	2.09	0.43	6.01	3.70	2.56	12.29
Plant & Pre Folding	12R-38	MFWD 190	94,300	150	8	0.053	1.26	1.48	1.88	0.34	4.98	3.34	2.02	10.36
Plant & Pre Folding	16R-30	MFWD 190	126,000	150	8	0.050	1.20	1.41	2.39	0.32	5.34	4.25	1.92	11.52
Plant & Pre Folding	23R-15	MFWD 190	169,000	150	8	0.070	1.67	1.95	4.46	0.45	8.55	7.91	2.67	19.15
Plant & Pre Folding	24R-20	MFWD 190	190,000	150	8	0.050	1.20	1.41	3.61	0.32	6.56	6.41	1.92	14.89
Plant & Pre Folding	24R-30	MFWD 190	198,000	150	8	0.033	0.80	0.94	2.51	0.21	4.47	4.45	1.28	10.21
Plant & Pre Rigid	4R-30	2WD 130	31,600	150	8	0.203	4.82	3.85	2.40	0.74	11.83	4.26	4.17	20.27
Plant & Pre Rigid	4R-38	2WD 130	32,600	150	8	0.159	3.79	3.03	1.95	0.58	9.37	3.46	3.28	16.13
Plant & Pre Rigid	6R-30	MFWD 150	39,300	150	8	0.135	3.21	2.96	1.99	0.60	8.78	3.53	3.39	15.71
Plant & Pre Rigid	6R-38	MFWD 150	38,900	150	8	0.106	2.53	2.34	1.55	0.47	6.91	2.76	2.67	12.36
Plant & Pre Rigid	8R-22	MFWD 170	23,550	150	8	0.138	3.28	3.43	1.22	0.70	8.64	2.16	4.17	14.97
Plant & Pre Rigid	8R-30	MFWD 170	47,800	150	8	0.101	2.41	2.52	1.82	0.52	7.27	3.22	3.06	13.56
Plant & Pre Rigid	8R-38	MFWD 170	45,700	150	8	0.080	1.90	1.99	1.37	0.41	5.68	2.43	2.42	10.55
Plant & Pre Rigid	10R-30	MFWD 190	46,000	150	8	0.081	1.93	2.25	1.40	0.52	6.11	2.48	3.08	11.67
Plant & Pre Rigid	12R-20	MFWD 190	55,700	150	8	0.101	2.41	2.82	2.12	0.65	8.00	3.75	3.85	15.61
Plant & Pre Rigid	12R-30	MFWD 190	74,200	150	8	0.067	1.60	1.88	1.88	0.43	5.80	3.33	2.56	11.71
Plant - Folding	8R-38	MFWD 170	54,300	150	8	0.074	1.77	1.85	1.51	0.38	5.52	2.68	2.25	10.46
Plant - Folding	8R-38 2x1	MFWD 170	84,000	150	8	0.049	1.17	1.23	1.56	0.25	4.22	2.77	1.49	8.49
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.79	2.09	1.34	0.48	5.71	2.37	2.86	10.95
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.41	1.65	0.95	0.38	4.40	1.70	2.25	8.36
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.24	2.61	2.30	0.60	7.77	4.08	3.57	15.43
Plant - Folding	12R-30	MFWD 190	72,100	150	8	0.062	1.49	1.74	1.69	0.40	5.34	3.01	2.38	10.74
Plant - Folding	12R-38	MFWD 190	84,000	150	8	0.049	1.17	1.37	1.56	0.31	4.43	2.77	1.88	9.09
Plant - Folding	16R-30	MFWD 190	115,000	150	8	0.047	1.12	1.30	2.03	0.30	4.76	3.60	1.78	10.15
Plant - Folding	23R-15	MFWD 190	158,000	150	8	0.065	1.55	1.81	3.87	0.42	7.67	6.87	2.48	17.03
Plant - Folding	24R-20	MFWD 190	179,000	150	8	0.047	1.12	1.30	3.16	0.30	5.89	5.60	1.78	13.29
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.74	0.87	2.16	0.20	3.99	3.84	1.19	9.02
Plant - Rigid	4R-30	2WD 130	24,400	150	8	0.188	4.48	3.58	1.72	0.69	10.48	3.05	3.87	17.41
Plant - Rigid	4R-38	2WD 130	25,400	150	8	0.148	3.52	2.82	1.41	0.54	8.30	2.50	3.05	13.86
Plant - Rigid	6R-30	MFWD 150	32,200	150	8	0.125	2.98	2.75	1.51	0.56	7.82	2.69	3.14	13.66
Plant - Rigid	6R-38	MFWD 150	31,200	150	8	0.099	2.35	2.17	1.16	0.44	6.13	2.05	2.48	10.68
Plant - Rigid	8R-22	MFWD 170	18,473	150	8	0.127	3.03	3.17	0.88	0.65	7.75	1.57	3.86	13.19
Plant - Rigid	8R-30	MFWD 170	40,900	150	8	0.094	2.24	2.34	1.44	0.48	6.51	2.56	2.84	11.92
Plant - Rigid	8R-38	MFWD 170	38,600	150	8	0.074	1.77	1.85	1.07	0.38	5.08	1.91	2.25	9.24
Plant - Rigid	10R-30	MFWD 190	40,700	150	8	0.075	1.79	2.09	1.15	0.48	5.52	2.04	2.86	10.42
Plant - Rigid	12R-20	MFWD 190	49,000	150	8	0.094	2.24	2.61	1.73	0.60	7.19	3.07	3.57	13.84
Plant - Rigid	12R-30	MFWD 190	64,000	150	8	0.062	1.49	1.74	1.50	0.40	5.15	2.67	2.38	10.21
Plant - Rigid	15R-15	2WD 150	61,700	150	8	0.094	2.24	2.06	2.18	0.34	6.83	3.86	1.91	12.61
Pull Levee (1m/80a))	4 blade	2WD 50	3,180	100	10	0.003	0.04	0.02	0.00	0.00	0.07	0.01	0.01	0.10
Rice Grain Cart	500 Bu	MFWD 190	29,100	200	12	0.057	0.67	1.58	0.45	0.36	3.08	0.71	2.16	5.96
Rice Grain Cart	700 Bu	MFWD 190	44,900	200	12	0.063	0.75	1.76	0.77	0.40	3.69	1.23	2.40	7.33
Roller	32'	MFWD 170	22,800	100	12	0.046	0.55	1.15	0.17	0.23	2.13	0.92	1.40	4.46
Rotary Cutter	7'	MFWD 130	4,500	185	10	0.168	2.00	3.19	0.61	0.68	6.50	0.40	3.86	10.77
Rotary Cutter	12'	2WD 150	14,100	185	10	0.098	1.16	2.15	1.12	0.35	4.79	0.73	1.99	7.53

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2022.

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	16,000	100	10	0.137	2.45	2.62	0.55	0.50	6.13	2.16	2.83	11.14
Row Cond & Inc	21'	2WD 170	21,600	100	10	0.085	1.52	2.12	0.46	0.42	4.53	1.81	2.51	8.86
Row Cond & Inc	26'	MFWD 190	28,500	100	10	0.063	1.12	1.76	0.45	0.40	3.75	1.77	2.40	7.93
Row Cond & Inc	38'	MFWD 225	38,000	100	10	0.047	0.84	1.55	0.44	0.36	3.20	1.76	2.15	7.12
Row Cond & Inc	42'	MFWD 225	20,400	100	10	0.040	0.71	1.32	0.20	0.31	2.55	0.80	1.83	5.19
Row Cond (Harrow)	13'	2WD 130	7,300	100	10	0.114	1.36	2.18	0.20	0.42	4.17	0.82	2.36	7.36
Row Cond (Harrow)	21'	2WD 170	12,000	100	10	0.071	0.84	1.76	0.21	0.35	3.18	0.83	2.09	6.11
Row Cond (Harrow)	27'	MFWD 190	12,400	100	10	0.057	0.68	1.59	0.17	0.36	2.82	0.70	2.17	5.70
Row Cond (Harrow)	38'	MFWD 225	22,200	100	10	0.039	0.46	1.29	0.21	0.30	2.28	0.85	1.79	4.93
Row Cond (Harrow)	42'	MFWD 225	15,582	100	10	0.035	0.42	1.16	0.13	0.27	2.00	0.54	1.62	4.17
Row Cond (Plant)	13'	2WD 130	7,120	100	10	0.157	1.86	2.98	0.27	0.57	5.71	1.10	3.23	10.04
Row Cond (Plant)	21'	2WD 170	11,700	100	10	0.097	1.15	2.41	0.28	0.48	4.34	1.11	2.86	8.33
Row Cond (Plant)	27'	MFWD 190	12,400	100	10	0.078	0.93	2.18	0.24	0.50	3.86	0.95	2.98	7.80
Row Cond (Plant)	38'	MFWD 225	16,587	100	10	0.053	0.63	1.76	0.22	0.41	3.04	0.87	2.45	6.38
Row Cond (Plant)	42'	MFWD 225	15,582	100	10	0.048	0.57	1.60	0.18	0.37	2.74	0.74	2.22	5.71
RT Cult (Early)	8R-30	2WD 170	20,774	200	12	0.103	1.22	2.56	1.02	0.51	5.33	0.96	3.04	9.33
RT Cult (Early)	12R-30	2WD 190	29,998	200	12	0.068	0.81	1.90	0.98	0.30	4.02	0.92	1.81	6.76
RT Cult (Late)	8R-30	2WD 170	20,774	200	12	0.128	1.53	3.20	1.28	0.64	6.66	1.20	3.80	11.66
RT Cult (Late)	12R-30	2WD 190	29,998	200	12	0.085	1.02	2.38	1.23	0.38	5.02	1.15	2.26	8.45
RT Cult + PD (Early)	8R-30	2WD 150	20,774	200	12	0.110	1.96	2.41	1.09	0.39	5.86	1.02	2.23	9.13
RT Cult + PD (Early)	12R-30	MFWD 225	29,998	200	12	0.073	1.30	2.41	1.05	0.56	5.34	0.98	3.35	9.68
RT Cult + PD (Late)	8R-30	2WD 170	26,264	200	12	0.137	2.45	3.41	1.73	0.68	8.28	1.62	4.05	13.96
RT Cult + PD (Late)	12R-30	2WD 190	35,493	200	12	0.091	1.63	2.54	1.55	0.40	6.14	1.46	2.41	10.02
SC 3Row (Cover)	18 ft	MFWD 150	10,750	200	9	0.120	1.43	2.64	1.43	0.53	6.05	0.38	3.01	9.45
SC 3Row (Hipper)	18 ft	MFWD 150	10,500	200	9	0.120	1.42	2.63	0.68	0.53	5.28	0.78	3.00	9.07
SC 3Row (Marker)	18 ft	MFWD 150	8,800	200	9	0.120	1.42	2.63	0.58	0.53	5.18	0.66	3.00	8.84
SC 3Row (Offbar)	18 ft	MFWD 150	11,500	200	10	0.120	1.42	2.63	0.69	0.53	5.28	0.79	3.00	9.08
SC 3Row (Opener)	18 ft	MFWD 150	7,800	200	10	0.120	1.42	2.63	0.46	0.53	5.06	0.53	3.00	8.60
SC 3Row Plow	18 ft	MFWD 190	17,000	200	9	0.120	1.42	3.33	1.11	0.77	6.64	1.27	4.55	12.47
SC Blade	8 ft	MFWD 150	3,500	100	12	0.877	10.42	19.23	2.55	3.91	36.13	1.92	21.97	60.03
SC Boom Sprayer	16 ft	MFWD 150	2,900	150	10	0.120	1.42	2.63	0.25	0.53	4.85	0.26	3.00	8.12
SC Burning Unit	18 ft	2WD 105	1,300	85	6	0.149	1.78	2.30	0.24	0.34	4.68	0.40	1.96	7.04
SC Cane Planters Aid	6 ft	MFWD 150	4,500	20	20	1.000	11.88	21.92	8.43	4.46	46.71	15.80	25.05	87.56
SC Cane Plt-1R Bille	1 row	MFWD 150	22,000	150	20	0.670	7.95	14.69	3.68	2.99	29.32	6.90	16.78	53.01
SC Cane Plt-3R Bille	3 row	2WD 50	34,000	50	20	0.200	2.37	1.46	5.10	0.19	9.13	9.55	1.08	19.76
SC Cane Plt-Whlstalk	6 ft	MFWD 150	22,000	150	20	0.670	7.95	14.69	3.68	2.99	29.32	6.90	16.78	53.01
SC Cane Wagon 10T	10 Ton	MFWD 150	7,500	400	15	0.500	6.53	12.06	0.62	2.45	21.67	0.79	12.52	34.99
SC Cane Wgn Billt HD	10Ton	MFWD 150	40,000	750	9	0.600	7.84	14.47	5.33	2.94	30.59	3.85	15.03	49.47
SC Chisel Plow	13 ft	MFWD 190	6,000	200	6	0.219	2.61	6.10	0.96	1.41	11.09	1.15	8.34	20.59
SC Chisel Plow	23 ft	MFWD 190	12,000	200	6	0.120	1.42	3.33	0.49	0.77	6.02	1.26	4.55	11.84
SC Cultimulcher	12 ft	2WD 105	5,500	120	15	0.110	1.30	1.68	0.29	0.25	3.54	0.42	1.43	5.41
SC Cultivate + Post	6 Row	2WD 170	8,200	200	10	0.110	1.30	2.73	0.39	0.55	4.98	0.51	3.24	8.74
SC Cultivator	30" 6 Row	2WD 150	5,350	200	10	0.140	1.66	3.07	0.32	0.50	5.57	0.43	2.84	8.85
SC Disk	12 ft	2WD 50	8,500	200	10	0.149	1.78	1.09	0.56	0.14	3.58	0.73	0.81	5.12
SC Disk	20 ft	MFWD 190	17,500	200	10	0.100	1.18	2.77	0.77	0.64	5.37	1.00	3.79	10.18
SC Disk	26 ft	2WD 170	21,000	200	10	0.069	0.83	1.73	0.64	0.34	3.56	0.84	2.06	6.47
SC Disk + Pre	6 row	2WD 170	9,250	200	10	0.100	1.18	2.48	0.40	0.50	4.58	0.53	2.94	8.05
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	0.95	0.87	0.13	0.10	2.07	0.12	0.61	2.80
SC Fert 3Row Lq App	18 ft	MFWD 150	7,000	200	10	0.130	1.54	2.85	0.36	0.58	5.34	0.52	3.25	9.12
SC Fert DrySlingApp	42 ft	MFWD 150	6,500	150	10	0.059	0.71	1.31	0.22	0.26	2.52	0.29	1.50	4.32
SC Flat Roller	18 ft	MFWD 150	1,400	75	9	0.190	2.25	4.16	0.47	0.84	7.75	0.44	4.76	12.95
SC Hauling Hitch	6 ft	4WD 225	1,000	500	15	1.000	11.88	32.89	0.13	4.59	49.50	0.16	27.09	76.76
SC Land Plane	15 ft	MFWD 150	10,000	200	15	0.300	3.56	6.58	0.66	1.34	12.15	1.27	7.52	20.95
SC Rotary Ditcher	6 ft	MFWD 150	12,500	100	10	0.250	2.97	5.48	3.12	1.11	12.69	3.59	6.26	22.54
SC Rotary Hoe	18 ft	2WD 130	4,500	75	12	0.080	0.95	1.52	0.41	0.29	3.17	0.47	1.64	5.29
SC Rotary Mower	13.1 ft	MFWD 75	7,000	150	10	0.250	2.97	2.74	0.51	0.34	6.56	1.34	1.91	9.82
SC Rototiller	18 ft	MFWD 190	20,000	150	10	0.219	2.61	6.10	3.51	1.41	13.64	3.36	8.34	25.35
SC Tractor Blade	6 ft	2WD 105	3,500	100	15	1.000	11.88	15.34	0.86	2.33	30.42	2.97	13.08	46.48
SC Tractor Spreader	20 ft	2WD 105	700	150	10	0.110	1.30	1.68	0.04	0.25	3.29	0.05	1.43	4.79
SC Trailer Utility	10 ft	2WD 130	2,000	200	15	1.000	11.88	19.00	0.23	3.66	34.78	0.84	20.56	56.20
SCMechanical Planter	6 ft	MFWD 150	15,500	160	10	1.000	11.88	21.92	7.26	4.46	45.54	11.13	25.05	81.73
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.00	1.16	0.34	0.27	2.78	0.64	1.59	5.02
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.00	1.16	0.34	0.27	2.78	0.64	1.59	5.02
Spray (Band)	27'	MFWD 170	7,400	200	8	0.062	1.11	1.55	0.21	0.32	3.21	0.24	1.89	5.35
Spray (Band)	40'	MFWD 170	10,200	200	8	0.042	0.75	1.05	0.20	0.21	2.22	0.22	1.27	3.72
Spray (Band)	50'	MFWD 170	10,100	200	8	0.033	0.60	0.84	0.16	0.17	1.77	0.17	1.02	2.98
Spray (Band)	53'	MFWD 170	9,940	200	8	0.031	0.56	0.79	0.14	0.16	1.67	0.16	0.96	2.80
Spray (Band)	60'	MFWD 170	13,200	200	8	0.028	0.50	0.70	0.17	0.14	1.52	0.19	0.85	2.57
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,500	200	8	0.130	2.31	2.85	0.51	0.58	6.27	0.58	3.26	10.11
Spray (Bcast/HB)	20' Rigid	2WD 50	9,960	200	8	0.084	1.50	0.61	0.39	0.08	2.60	0.44	0.45	3.50
Spray (Bcast/HB)	27' Fold	MFWD 170	16,200	200	8	0.062	1.11	1.55	0.47	0.32	3.47	0.53	1.89	5.89
Spray (Bcast/HB)	27' Rigid	MFWD 170	11,700	200	8	0.062	1.11	1.55	0.34	0.32	3.33	0.38	1.89	5.61
Spray (Bcast/HB)	30' Fold	MFWD 170	18,900	200	8	0.056	1.00	1.40	0.49	0.28	3.19	0.56	1.70	5.46
Spray (Bcast/HB)	40' Fold	MFWD 170	19,900	200	8	0.042	0.75	1.05	0.39	0.21	2.41	0.44	1.27	4.13
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.11	1.55	0.65	0.32	3.65	0.73	1.89	6.28

Appendix Table 6. Implements: estimated purchase price, annual use, useful life, performance rate,
(Continued) and direct and fixed cost per acre, Louisiana 2022.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	---------------------$/acre---------------------							
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.75	1.05	0.63	0.21	2.66	0.71	1.27	4.65
Spray (Broadcast)	27'	MFWD 170	7,400	200	8	0.062	1.11	1.55	0.21	0.32	3.21	0.24	1.89	5.35
Spray (Broadcast)	40'	MFWD 170	10,200	200	8	0.042	0.75	1.05	0.20	0.21	2.22	0.22	1.27	3.72
Spray (Broadcast)	50'	MFWD 170	10,100	200	8	0.033	0.60	0.84	0.16	0.17	1.77	0.17	1.02	2.98
Spray (Broadcast)	53'	MFWD 170	9,940	200	8	0.031	0.56	0.79	0.14	0.16	1.67	0.16	0.96	2.80
Spray (Broadcast)	60'	MFWD 170	14,700	200	8	0.028	0.50	0.70	0.19	0.14	1.54	0.21	0.85	2.61
Spray (Direct/Hood)	8R-30	MFWD 170	17,800	200	8	0.084	1.50	2.10	0.70	0.43	4.75	0.79	2.55	8.09
Spray (Direct/Hood)	8R-38	MFWD 170	18,700	200	8	0.066	1.19	1.66	0.58	0.34	3.78	0.65	2.02	6.46
Spray (Direct/Hood)	12R-30	MFWD 170	24,900	200	8	0.056	1.00	1.40	0.65	0.28	3.35	0.73	1.70	5.79
Spray (Direct/Hood)	12R-38	MFWD 170	26,100	200	8	0.044	0.79	1.10	0.54	0.22	2.67	0.61	1.34	4.62
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.50	2.10	0.61	0.43	4.65	0.68	2.55	7.90
Spray (Direct/Layby)	8R-38	MFWD 170	15,500	200	8	0.066	1.19	1.66	0.48	0.34	3.68	0.54	2.02	6.24
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	22,900	200	8	0.044	0.79	1.10	0.47	0.22	2.60	0.53	1.34	4.48
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.20	1.68	0.38	0.34	3.62	0.43	2.04	6.10
Spray (Direct/Layby)	12R-30	MFWD 170	22,900	200	8	0.056	1.00	1.40	0.60	0.28	3.30	0.67	1.70	5.68
Spray (Direct/Layby)	12R-38	MFWD 170	22,900	200	8	0.044	0.79	1.10	0.47	0.22	2.60	0.53	1.34	4.48
Spray (Direct/Layby)	16R-20	MFWD 170	26,700	200	8	0.063	1.12	1.57	0.79	0.32	3.82	0.88	1.91	6.62
Spray (Spot)	27'	MFWD 170	7,400	200	8	0.062	1.11	1.55	0.21	0.32	3.21	0.24	1.89	5.35
Spray (Spot)	40'	MFWD 170	10,200	200	8	0.042	0.75	1.05	0.20	0.21	2.22	0.22	1.27	3.72
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.60	0.84	0.21	0.17	1.83	0.24	1.02	3.10
Spray (Spot)	53'	MFWD 170	10,100	200	8	0.031	0.56	0.79	0.15	0.16	1.67	0.16	0.96	2.81
Spray (Spot)	60'	MFWD 170	15,600	200	8	0.028	0.50	0.70	0.20	0.14	1.55	0.23	0.85	2.63
Stalk Shredder	14'	MFWD 150	14,900	200	10	0.117	1.40	2.58	1.53	0.52	6.04	0.86	2.95	9.86
Stalk Shredder	20'	MFWD 150	33,100	200	10	0.082	0.98	1.80	2.38	0.36	5.54	1.34	2.06	8.95
Stalk Shredder-Flail	12'	MFWD 150	25,900	200	10	0.137	1.63	3.01	3.11	0.61	8.37	1.75	3.44	13.57
Stalk Shredder-Flail	20'	MFWD 150	33,100	200	10	0.082	0.98	1.80	2.38	0.36	5.54	1.34	2.06	8.95
Subsoiler	3 shank	MFWD 190	6,500	100	15	0.204	2.42	5.67	0.44	1.31	9.86	0.99	7.75	18.61
Subsoiler	4 shank	MFWD 225	11,430	100	15	0.153	1.82	5.05	0.58	1.19	8.65	1.31	7.01	16.98
Subsoiler	5 shank	MFWD 225	14,630	100	15	0.122	1.45	4.02	0.59	0.94	7.02	1.34	5.59	13.95
Subsoiler low-till	4 shank	MFWD 225	9,830	100	15	0.153	1.82	5.05	0.50	1.19	8.57	1.13	7.01	16.72
Subsoiler low-till	6 shank	MFWD 225	20,000	100	15	0.102	1.21	3.36	0.68	0.79	6.04	1.53	4.66	12.24
Subsoiler low-till	8 shank	MFWD 225	21,400	100	15	0.076	0.90	2.51	0.54	0.59	4.56	1.22	3.49	9.28
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.91	5.29	0.83	1.24	9.28	1.32	7.35	17.96
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.27	3.53	0.75	0.83	6.40	1.20	4.91	12.51
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.42	6.72	1.05	1.58	11.78	1.68	9.33	22.80
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.61	4.48	0.75	1.05	7.90	1.20	6.22	15.33